COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

093741

1997 ASSESSMENT REPORT ON THE

MEL PROPERTY

LINECUTTING, GEOPHYSICS AND

SOIL GEOCHEMISTRY

MAY - JUNE, 1997

WATSON LAKE M.D., YUKON

95 D/6

LAT: 60°21' ; LONG: 127°24'

DECEMBER, 1997

DARREN A. SENFT
DAVE C. HALL

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 13,700.00.

for Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

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1997 ASSESSMENT REPORT ON THE MEL PROPERTY YUKON TERRITORY

1.0 SUMMARY

The MEL property, comprising 257 units, is located 6 km east of Coal River, 18 kms west of Rock River, and approximately 80 kms east northeast of Watson Lake in the southeastern Yukon. The Property is accessible by a winter road originating off the Alaska Highway, 77 kms east of Watson Lake, as well as by small plane or helicopter.

The rocks underlying this part of southeastern Yukon are predominantly clastic associated lithologies of the Selwyn Basin, and carbonates of the MacKenzie platform. The rocks range in age from late pre-Cambrian to Devono-Mississippian. This sequence of sediments has been folded along north-south trending axes and offset by strike-slip, normal, and thrust faults. These major thrust faults have easterly displacements ranging up to 3 km.

The 1997 program consisted of linecutting, IP/Resistivity (IP/Res) surveys, geochemical sampling and geological mapping in May and June. The focus of exploration was centered on three main areas, the Jeri Zone, Mel East area, and the south end of the Mel Main Zone. Results from this program returned a few interesting IP/Res anomalies on all three grids, however the follow-up soil geochemistry returned little corresponding encouragement. The geophysical anomalies have since been explained by carbonaceous mudstones and graphitic partings in the wavy banded limestone.

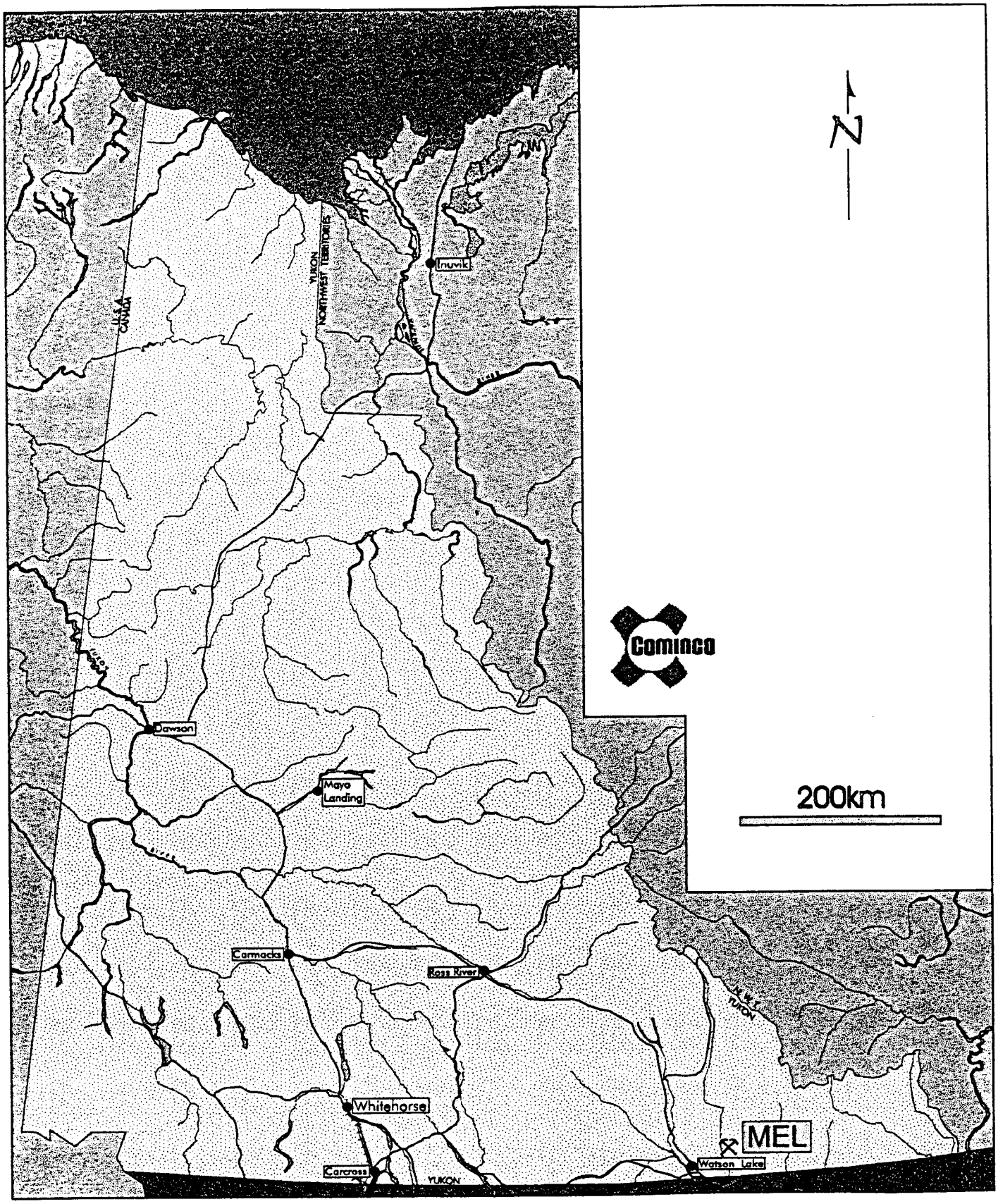
Cominco work on the MEL property in 1997 was completed under an Option Agreement with International Barytex Resources Ltd. and Breakwater Resources Ltd., in which Cominco could earn a controlling interest in the property by completing a series of work expenditures and cash payments by September 30, 1999. Following this summer's work program, however, this option has been dropped.

2.0 LOCATION AND ACCESS

The MEL property is located 80 kms east-northeast of Watson Lake, 6 kms east of Coal River, and approximately 18 kms west of Rock River in the southeastern Yukon (Figure 1). The MEL property is accessible via a winter road approximately 50 km long, leading north off the Alaska Highway at a point 77 kms east of Watson Lake. A 640m long airstrip located 1.5 kms south of the Mel deposit is in good condition and suitable for smaller planes. The Jeri and Jeri-North Zones, located approximately 5 and 8 kms respectively north northeast of the main Mel zone, are accessible to 4-wheel drive vehicles by a 15 km long tractor road linking them with the Mel camp.

3.0 PROPERTY AND OWNERSHIP

The MEL property is comprised of 257 contiguous claims. Under the terms of an agreement dated September 9, 1996, Cominco Ltd. could earn a 60% interest in the property by making cash payments and work expenditures totalling $1,250,000 by September 30, 1999. This option was dropped following the 1997 work program, ownership of the MEL property reverts to International Barytex Resources Ltd. and Breakwater Resources Ltd. The claim names, numbers and due dates of all claims on the MEL property are included in Appendix IV.



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Revised by:	Date:	Revised by:	Date:

MEL PROPERTY
LOCATION MAP

95 D/6

Scale:	As Shown	Date:	Dec., 1997	Plate:	1

4.0 PREVIOUS WORK

The MEL property was first staked by prospectors in 1967 and optioned to Newmont Mining Corporation. Newmont conducted trenching and geochemical surveys, then dropped their option. It was then picked up by Empire Metals Corporation, which was later renamed Barytex Resources Corp. Barytex optioned the property to Granby Mining Corp., who drilled 1952 m of core in 18 diamond drill holes from 1974 to 1975. St. Joseph Explorations Ltd. entered the agreement in 1976, and conducted geological mapping as well as geochemical and geophysical surveys on the property. In 1978 and 1979 St. Joseph Expl. drilled 19 diamond drill holes for a total of 4054.2 m. In 1981 the Canadian interest of St. Joe Minerals Corp. was sold to Sulpetro Ltd., forming Sulpetro Minerals Ltd. Regional exploration work by Sulpetro discovered the Mel-East smithsonite showing, 7.3 kms northeast of the Mel deposit. Limited geochemical surveys over the next two years outlined a large zinc soil anomaly in the area of the showing.

Additional geological mapping and geochemical sampling in 1984 between the Mel deposit and the Mel-East showing led to the discovery of the Jeri zinc showings, approximately 4 kms north northeast of the main Mel deposit. It was also during this summer that the airstrip was built. In 1985 Sulpetro drilled 10 holes , totalling 1009.8 m, into the Jeri showings. Later that year Sulpetro sold its interests to Novamin Resources Inc., who in 1987, drill-tested the Mel deposit at depth with 7 diamond drill holes totalling 2012 m. In 1988 Novamin was purchased by Breakwater Resources Ltd., giving them joint ownership of the Mel property with Barytex Resources Corp.

From 1989 to 1995, Barytex completed geological mapping, geochemical and geophysical surveys, as well as diamond drill testing on the main Mel zone and Jeri showings. Eleven holes totalling 1552 m were drilled at the Mel deposit in 1990. In 1994, 6 additional holes totalling 3122.5 m were drilled in the Mel deposit, increasing the mineral inventory to 6.78 Mt grading 7.10% Zn, 2.03% Pb, and 54.69% Ba (King, 1995). Geochemical and geophysical surveys north of the Jeri zone revealed significant Zn and IP anomalies. The 1995 exploration program was centered around the Jeri-North area where 8 holes, totalling 847.6m, were drilled. Two of these holes intersected significant Zn mineralization, with grades of 9.9% Zn over 5m and 15.6% Zn over 5.1m. Two additional holes were drilled to test a geophysical conductor south of the main Mel zone, but were unsuccessfull in intersecting the target horizon.

Cominco Ltd., under an option agreement with Barytex Resources Corp. and Breakwater Resources Ltd., began work on the Mel property in the summer of 1996. This program included six diamond drill holes totalling 1189 m on the Jeri-North zone, testing the mineralized horizon previously discovered in this area. All but one of these holes intersected minor sphalerite. Soil sampling was also completed in the Jeri-North area, with a total of 587 samples collected along grid-based lines from 149+00N to 224+00N, lengthening the existing grid 5.6 kms to the north. A single drill hole was also collared in the Mel South Zone to test an IP anomaly which was believed to represent the favourable contact between the Wavy banded limestone and the Cryptocrystalline limestone. The hole was drilled 1500 metres south of the main Mel deposit to a depth of 336.5m. As with the previous two holes drilled in this area, only steeply dipping Wavy banded limestone was intersected.

5.0 PROPERTY GEOLOGY

The MEL property is situated near the southern transitional facies change from the predominantly clastic associated lithologies of the Selwyn Basin to the carbonates of the MacKenzie platform. These carbonate and clastic lithologies, lower Cambrian to Silurian in age, have been folded along north-south trending fold axes, and modified by faulting which has introduced both lateral and vertical displacements. The geology and structure of the main Mel deposit has been very well established by several years drilling, and is documented in reports by H.L. King (1994, 1995) and S. Croft (1990).

The stratigraphy of the Jeri-North Zone was defined by the 1995-96 drill programs, with the lowest unit a massive, moderately karsted Cryptograined Limestone. This limestone, typified by clay-filled voids (10% by volume) forms the stratigraphic footwall to the mineralization at the Jeri, Jeri-North Zone, and the main Mel deposit. Overlying the Cryptograined limestone is a silicified dolomite unit, interbedded with lesser non-calcareous to calcareous siltstone. It is this unit of siliceous dolomite that is host to sphalerite mineralization in the Jeri-North zone.

Stratigraphically overlying the siliceous dolomite and interbedded siltstone is a 30 metre thick sequence of volcanic flows and flow breccias. The volcanics, which are not seen elsewhere on the property, are dominantly andesitic in composition, light grey-green in colour, and very fine grained. Immediately overlying the volcanic sequence is a 2-3m thick unit of black, calcareous shale. This shale bed separates the volcanic rocks from the wavy banded limestone, which is the statigraphically highest unit in the section. The Wavy banded limestone is a light grey nodular limestone with darker grey wavy partings of calcareous shale.

6.0 MINERALIZATION

The most prominent areas of zinc mineralization on the MEL property are the main Mel Zone, Jeri and Jeri-North Zones.

Mineralization at these three zones occurs at the contact with the footwall Cryptograined limestone and hanging wall Wavy banded limestone. Drilling to date in the main Mel area has outlined a resource of 6.78 Mt grading 7.10% Zn, 2.03% Pb, and 54.69% Ba (King, 1995). Mineralization consists of coarse grained sphalerite and galena within a massive quartz-barite host rock.

Mineralization at the Jeri showing occurs in a highly silicified dolomite unit overlying the cryptograined limestone. Surface mineralization is mainly smithsonite, with minor disseminated sphalerite and pyrite. Sampling of trenches on the Jeri Zone in 1995 by Barytex returned grades of up to 16% Zn over 5m.

A similar style of mineralization is present at the Jeri-North Zone, with the host unit being a siliceous dolomite overlying the cryptocrystalline limestone, and occurring below the anomalous hanging wall volcanic flows. The most prominent mineralization is coarse to fine grained, reddish-brown sphalerite. It commonly occurs disseminated within the siliceous dolomite, though locally forms the matrix of silicified dolomite breccias. Minor disseminated pyrite and chalcopyrite is also seen associated with the sphalerite. The best core assays from the 1996 drill program yielded 12.38% zinc over a 3m core length, 2.6 m true width, including a 50cm section grading 31.63% zinc. Results from the drilling in 1996 suggests a lensoidal shape to the mineralized zone in cross-section, gradually decreasing in grade and thickness near the top and bottom of the zone.

7.0 1997 EXPLORATION PROGRAM

7.1 LINECUTTING

During the period of May 8-21, 1997, three geophysical grids were cut on the MEL property. Linecutting was carried out by Coureur Des Bois Ltd. of Whitehorse, Yukon.

GRID NAME	Mel East	Jeri	Main Mel
# LINE KM'S	3.8	2.4	13.4

7.2 GEOPHYSICAL SURVEYS

During the period May 11 to 30, 1997 a Cominco Ltd. geophysical crew completed induced polarization and resistivity (I.P./RES) surveys on the Mel property for the purpose of defining possible extensions of known mineralization. Three grid areas were surveyed (Figure 2): Main Mel grid, Mel East grid and Jeri grid. In addition, a total field magnetic survey was carried out on the main grid, and selected areas of this grid were covered with a bouguer gravity survey.

The I. P. surveys consisted of readings taken with a dipole (a) spacing of 25 metres for separations n=1 to 6. A total of 17 kilometres of I.P./Resistivity was completed on the three grids and 10 kilometres of magnetic readings and 2.3 kms of gravity on the main grid. Geophysical equipment used and procedures followed are outlined in Appendix V.

7.2.1 MAIN MEL GRID

Results from the main grid indicate essentially three zones of elevated chargeability (figure 4a). Anomaly **A** is a roughly north-south trending feature 600 metres long and 100 metres wide which displays a strong I.P. response(25-30 msecs) over 200 metres. The anomaly appears to deepen and weaken to the south disappearing by line 7800N. The strongest, shallowest looking response is on line 8600N and the anomaly is gone abruptly to the north. Zone A is associated with low resistivities in the 100 ohm-metre range (figure 4b)

Anomaly **B** is defined only on lines 8400N and 8500N. The next line to the north intersects the lake and to the south the zone is gone by 8200N. Chargeabilities are strongest on line 8500N reaching 20-25 msecs. Resistivities associated with this anomaly are in the 1000-2000 ohm metre range.

Zone **C** is a broad, lower chargeability feature over 600 metres in strike length and 300-400 metres wide. Chargeabilities vary from 10-19 msecs and resistivities are in the 500-2000 ohm metre range. The strongest response is on the southmost line (8000N) with a narrow zone displaying enhanced chargeabilities and elevated resistivities.

The ground magnetic survey indicates a subtle trend through the central portion of the grid roughly 50 nT in amplitude and 100-200 metres wide. There doesn't appear to be a correlation with the I.P. response. The gravity response on lines 8400N and 8800N does not give any indication of above average densities in the vicinity of the I.P. anomalies.

A test line was also read over known mineralization. The pseudosection for line 10000N shows the results. Much of the line is characterized by anomalous chargeabilities however a narrow zone (less than 50 metres wide) displays a strong I.P. response coupled with low restivities. This response appears to be located near the western edge of the zone of mineralization.

Anomaly **A** is in an area of no outcrop. Drill testing is recommended to evaluate the source of the chargeability response.

7.2.2 MEL EAST GRID

Four lines of I.P./RES were completed on this grid for a total of 3.0 kms (figures 10a,b,c,d) A 300 metre wide zone of weak I.P. response was detected over 400 metres (lines 500N, 700N, 900N) with a narrower stronger response on line 1100N (up to 19 msecs). Resistivities are in the 1500-3000 ohm metre range.

Geological mapping in the vicinity of the strongest chargeability response did not locate significant mineralization. It appears likely the source is due to graphitic material within the limestone. No further work is recommended.

7.2.3 JERI GRID

Three lines were covered with I.P. for a total of 2.8 kms (figures 9a,b,c). On the east side of the lines is a 50-100 metre wide zone of strong I..P. response with chargeabilities up to 46 msecs in an area of relatively low (500 ohm-metres) resistivities. Another anomaly is evident on the west edge of the lines. This is a broader, more moderate response in an area of higher resistivities (1000-2500 ohm-m). Through the centre of the grid chargeabilities which are weakly anomalous are found slightly to the east of an area of high resistivities (3000-6000 ohm-m).

Previous drilling indicates a relatively small amount of sulphides associated with the central anomaly. The stronger anomalies to the east and west appear to be associated with graphitic material No further work is recommended on this target.

7.3 SOIL GEOCHEMISTRY

Soil sampling was completed in three areas on the MEL property in 1997, four grid-based soil lines were completed south of the Main Mel zone, an additional three grid-based soil lines were sampled at the Jeri zone, and a single contour soil line was sampled just south of the Mel East area. The grid-based locations were chosen for sampling as a follow-up to geophysical anomalies outlined earlier in the summer.

Results from these soil lines returned only background values for Cu, Pb, Zn and Ag, with the exception of three consecutive samples in the Jeri area. These samples ranged from 1560 to 5361 ppm Zn, but occur in an area which has been previously trenched. A single sample from the Mel East area returned 618 ppm Zn, but was not deemed worthy of follow-up due to lack of supporting geochemistry from surrounding samples. Sample locations and analytical results are presented in Figure 2 and Appendix III.

8.0 CONCLUSIONS

Geophysical IP/Res surveys were completed on cut grids in three areas on the Mel property. In the Mel East area, IP/Resistivity responses were determined to be due to wavy banded limestone, and no significant response was associated with the Mel East showing. Three test lines over the Jeri Zone and south showed only a minor IP/Resistivity signature associated with the Jeri showing. IP/Resistivity anomalies approximately 200m to the east and 200m to the west of the Jeri showing could not be sourced due to cover, though they are believed to be due to wavy banded limestone. Three IP/Res anomalies were identified in the Main Mel area. These were attributable to carbonaceous mudstones and graphitic laminations in the wavy banded limestone.

Soil sampling was completed on two small grids in the Main Mel and Jeri zones as follow-up to anomalies identified by the IP/Res survey, with one additional recce contour line south of the Mel East area. Results from this sampling produced no new anomalies.

Due to the lack of encouragement from the geophysical surveys, soil geochemical sampling, and diamond drill programs on the Mel property, no further work is being contemplated for the area. Cominco has dropped their option on this property.

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CROFT, S.A.S., 1990. 1990 EXPLORATION PROGRAM ON THE MEL PROPERTY, WATSON LAKE M.D., YUKON; Report for Barytex Resources Corp.

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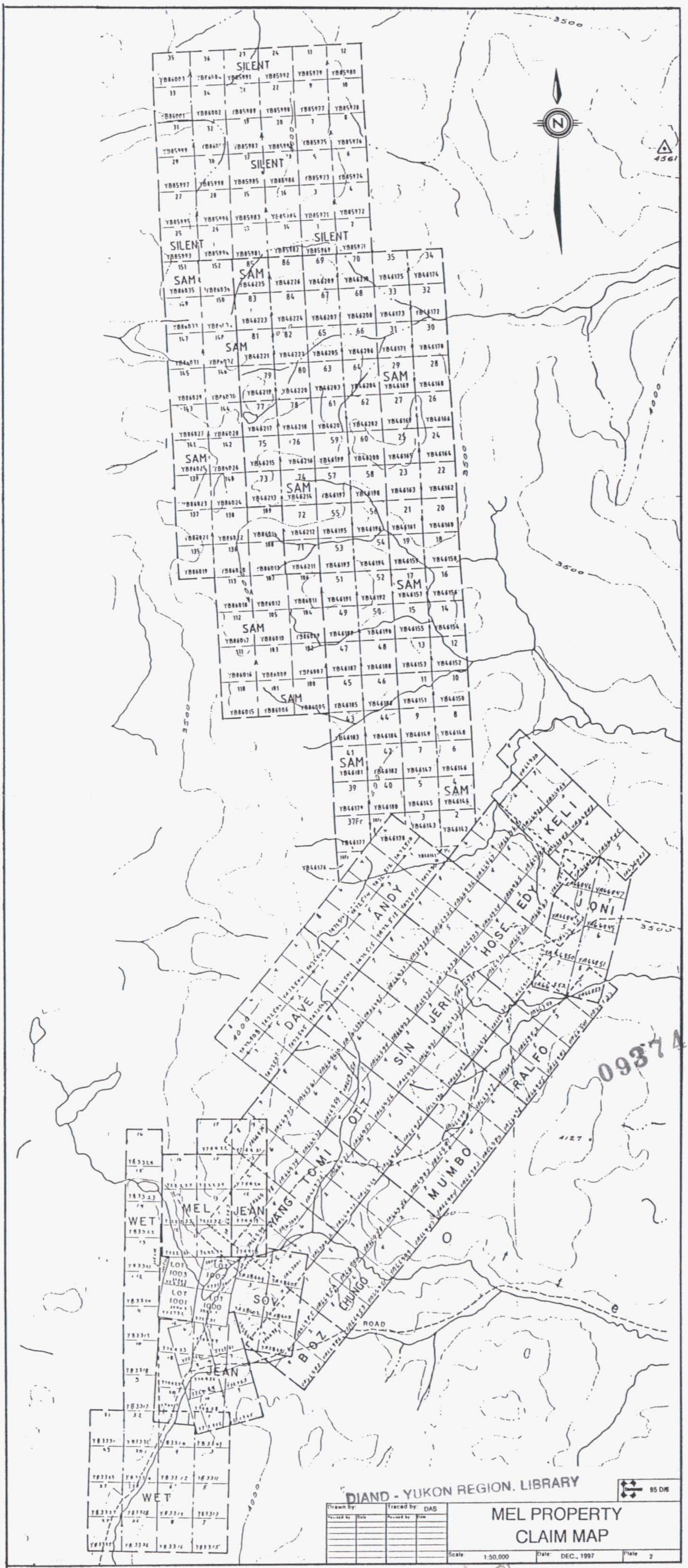
SENFT, D.A., 1996. 1996 ASSESSMENT REPORT ON THE MEL PROPERTY - DIAMOND DRILLING AND SOIL GEOCHEMISTRY, WATSON LAKE M.D., YUKON; Assessment Report for Cominco Ltd.



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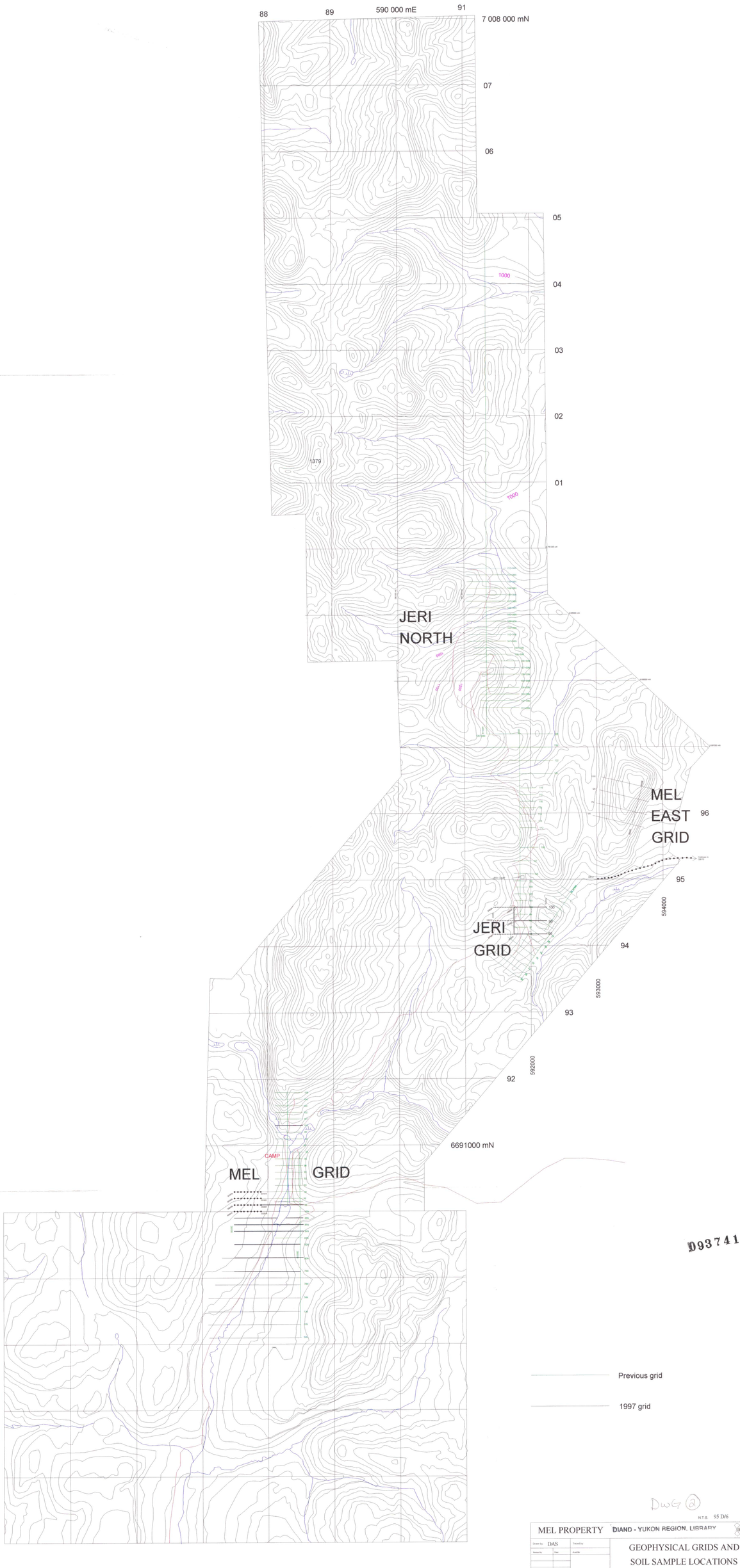
DWG 1



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MEL PROPERTY

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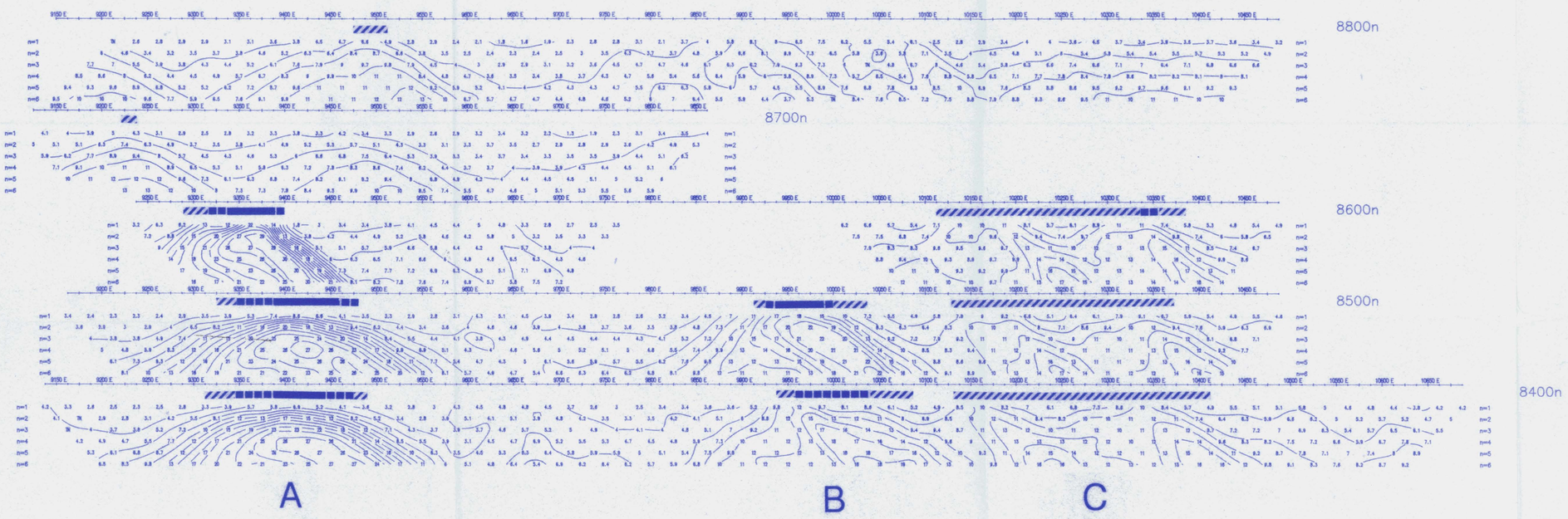
Audited:

GEOPHYSICAL GRIDS AND SOIL SAMPLE LOCATIONS

SCALE 1:25,000 DATE DEC., 1997 PLATE NO. 3



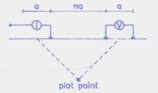
INSTRUMENTATION LEGEND
IPR12 TIME DOMAIN RECEIVER
VIP3000 TRANSMITTER

STRONG I.P. RESPONSE
> 20 MSECS

MODERATE I.P. RESPONSE
15-20 MSECS

WEAK I.P. RESPONSE
10-15 MSECS

Pole-Dipole Array



Horizontal
Scale 1:2500
25 0 25 50 75 100
(meters)

Vertical
Scale 1:2500
25 0 25 50 75 100
(meters)

093-41

DWG 19

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MEL PROPERTY
WATSON LAKE AREA , YUKON

TIME DOMAIN IP SURVEY:
CHARGEABILITY
N=1-6

PSTAK PROCESSED

FIGURE 4a

File Plots - by DCH

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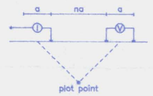
INSTRUMENTATION LEGEND
IPR12 TIME DOMAIN RECEIVER
VIP3000 TRANSMITTER

Pole-Dipole Array



Horizontal
Scale 1:2500

Vertical
Scale 1:2500

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DWG (20)

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MEL PROPERTY
WATSON LAKE AREA , YUKON

TIME DOMAIN IP SURVEY:
RESISTIVITY
N=1-6

PSTAK PROCESSED

FIGURE 4b

File Plots - by DCH

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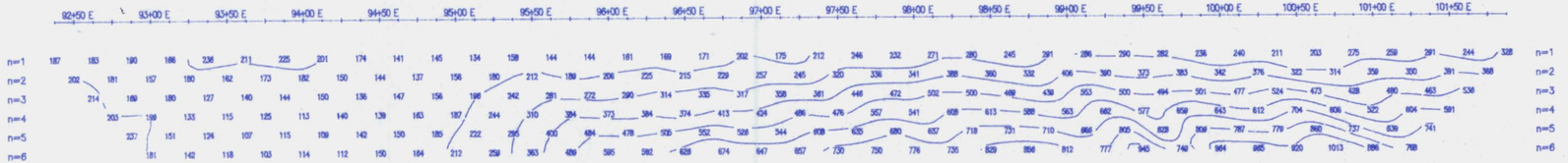
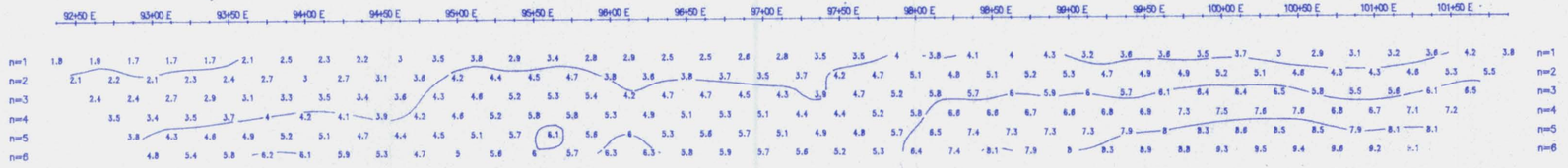
RESISTIVITY
OHM-METRES



RESISTIVITY
OHM-METRES

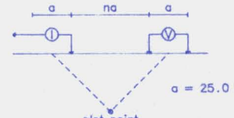
CHARGEABILITY
MSECS



CHARGEABILITY
MSECS

Line 7800 N

Pole-Dipole Array



Contour interval: Chargeability - 2.0 ms
Resistivity - 100 ohm-m

STRONG IP RESPONSE
> 20 msecs

MODERATE IP RESPONSE
15-20 msecs

WEAK IP RESPONSE
10-15 msecs

Scale 1:2500

25 0 25 50 75 100 125 150
(metres)

COMINCO LTD.

INDUCED POLARIZATION SURVEY
MEL PROPERTY
MAIN GRID **FIGURE 5a**

Date: 97/11/17
Interpretation: Td=120ms Tp=900ms

SCINTREX IPR12 RX

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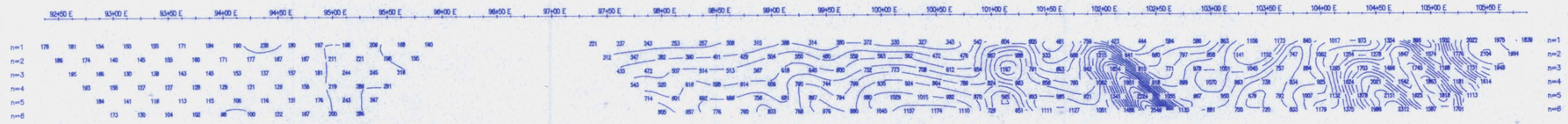
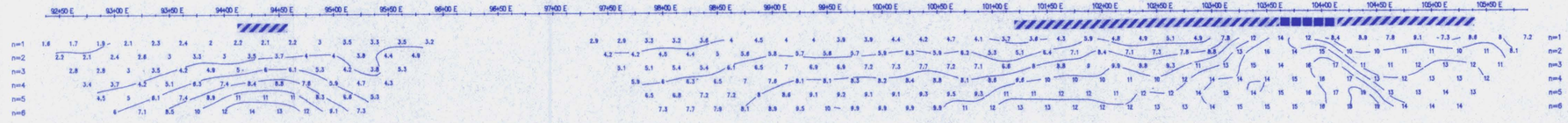


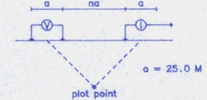


RESISTIVITY
OHM-METRES

CHARGEABILITY
MSECS

Line 8000 N

Dipole-Pole Array



Contour Interval: Chargeability - 2.0 ms
Resistivity - 100 ohm-m

STRONG IP RESPONSE
> 20 msecs

MODERATE IP RESPONSE
15-20 msecs

WEAK IP RESPONSE
10-15 msecs

Scale 1:2500

25 0 25 50 75 100 125 150
(metres)

COMINCO LTD.

INDUCED POLARIZATION SURVEY
MEL PROPERTY
MAIN GRID FIGURE 5b

Date: 97/05/18
Interpretation: Td=120ms Tp=900ms

SCINTREX IPR12 RX

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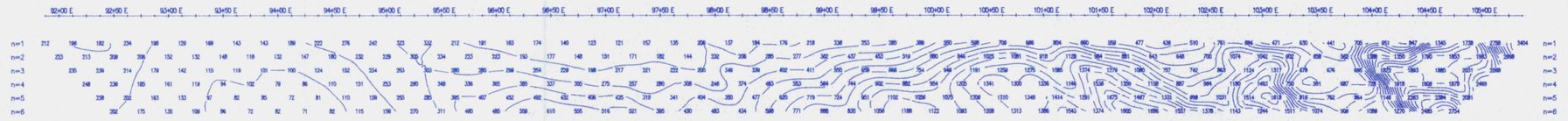
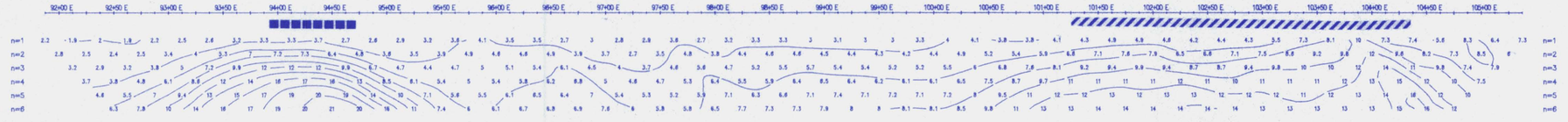
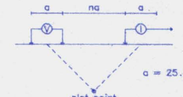




Line 8200 N

Dipole-Pole Array



Contour Interval: Chargeability - 2.0 ms
Resistivity - 100 ohm-m

STRONG IP RESPONSE
> 20 msecs

MODERATE IP RESPONSE
15-20 msecs

WEAK IP RESPONSE
10-15 msecs

Scale 1:2500

25 0 25 50 75 100 125 150
(metres)

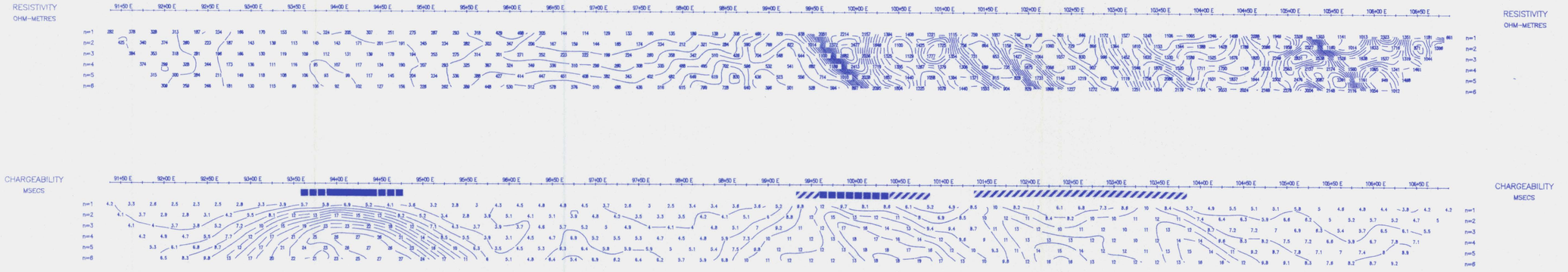
COMINCO LTD.

INDUCED POLARIZATION SURVEY
MEL PROPERTY
MAIN GRID **FIGURE 5c**

Date: 97/05/18
Interpretation: Td=120ms Tp=900ms

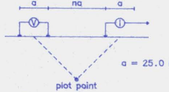
SCINTREX IPR12 RX

DIAND - YUKON REGION, LIBRARY
093741 Dwg (5)



Line 8400 N

Dipole-Pole Array



Contour interval: Chargeability - 2.0 ms
Resistivity - 100 ohm-m

STRONG IP RESPONSE
> 20 msecs

MODERATE IP RESPONSE
15-20 msecs

WEAK IP RESPONSE
10-15 msecs

Scale 1:2500

25 0 25 50 75 100 125 150
(metres)

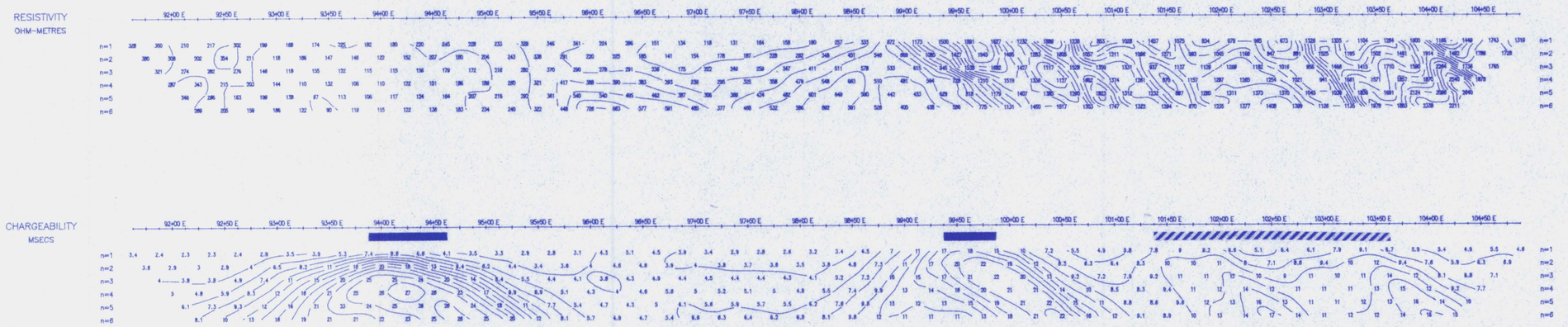
COMINCO LTD.

INDUCED POLARIZATION SURVEY
MEL PROPERTY
MAIN GRID FIGURE 5d

Date: 97/05/27
Interpretation: Td=120ms Tp=900ms

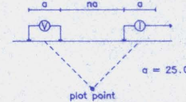
SCINTREX IPR12 RX

DIAND - YUKON REGION, LIBRARY
093741 DWG (6)



Line 8500 N

Dipole-Pole Array



Contour interval: Chargeability - 2.0 ms
Resistivity - 100 ohm-m

STRONG IP RESPONSE
> 20 msecs

MODERATE IP RESPONSE
15-20 msecs

WEAK IP RESPONSE
10-15 msecs

Scale 1:2500

25 0 25 50 75 100 125 150
(metres)

COMINCO LTD.

INDUCED POLARIZATION SURVEY
MEL PROPERTY
MAIN GRID **FIGURE 5e**

Date: 97/05/27
Interpretation: Td=120ms Tp=900ms

SCINTREX IPR12 RX

DIAND - YUKON REGION, LIBRARY

093741 DWG (7)

Line 8600 N

Dipole-Pole Array

Contour Interval: Chargeability - 2.0 ms
Resistivity - 100 ohm-m

STRONG IP RESPONSE
> 20 msecs

MODERATE IP RESPONSE
15-20 msecs

WEAK IP RESPONSE
10-15 msecs

Scale 1:2500

25 0 25 50 75 100 125 150
(metres)

COMINCO LTD.

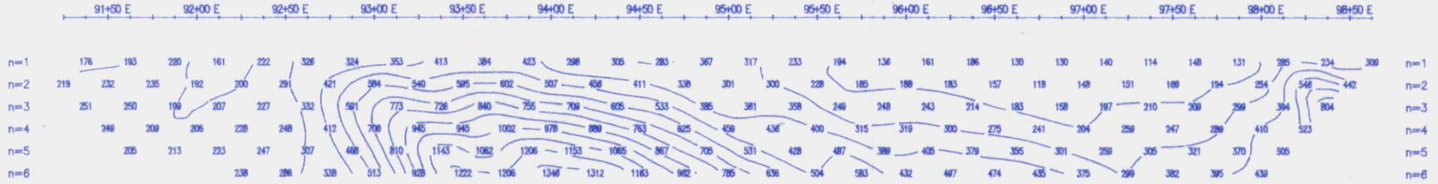
INDUCED POLARIZATION SURVEY
MEL PROPERTY
MAIN GRID FIGURE 5f

Date: 97/05/22
Interpretation: Td=120ms Tp=900ms

SCINTREX IPR12 RX

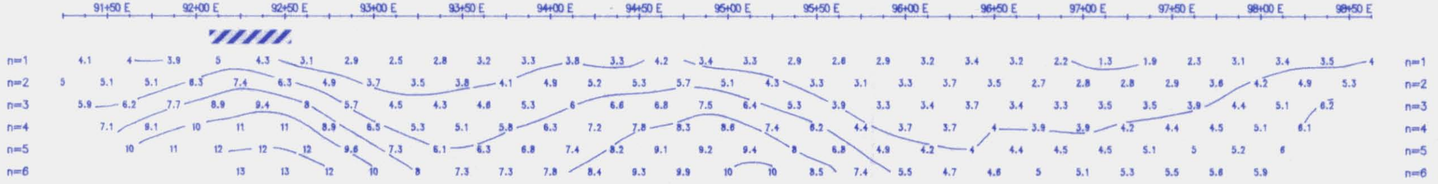
INDIAN - YUKON REGION, LIBRARY
093741 Dwg(8)

RESISTIVITY
OHM-METRES



RESISTIVITY
OHM-METRES

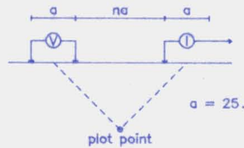
CHARGEABILITY
MSECS



CHARGEABILITY
MSECS

Line 8700 N

Dipole-Pole Array



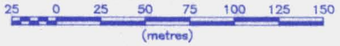
Contour Interval: Chargeability - 2.0 ms
Resistivity - 100 ohm-m

STRONG IP RESPONSE
> 20 msecs

MODERATE IP RESPONSE
15-20 msecs

WEAK IP RESPONSE
10-15 msecs

Scale 1:2500



COMINCO LTD.

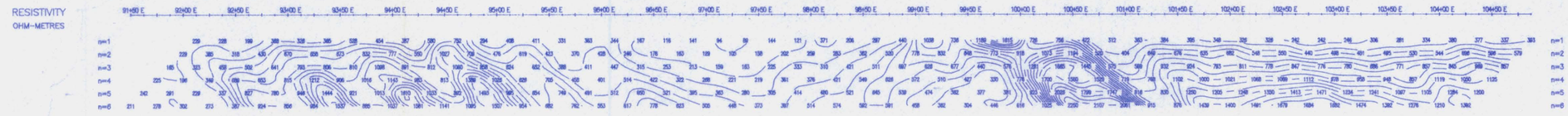
INDUCED POLARIZATION SURVEY
MEL PROPERTY
MAIN GRID FIGURE 5g

Date: 97/05/23
Interpretation: Td=120ms Tp=900ms

SCINTREX IPR12 RX

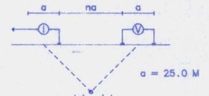
DIAND - YUKON REGION, LIBRARY

093741 Dwg (9)



Line 8800 N

Pole-Dipole Array



Contour Interval: Chargeability - 2.0 ms
Resistivity - 100 ohm-m

STRONG IP RESPONSE
> 20 msecs

MODERATE IP RESPONSE
15-20 msecs

WEAK IP RESPONSE
10-15 msecs

Scale 1:2500

25 0 25 50 75 100 125 150
(metres)

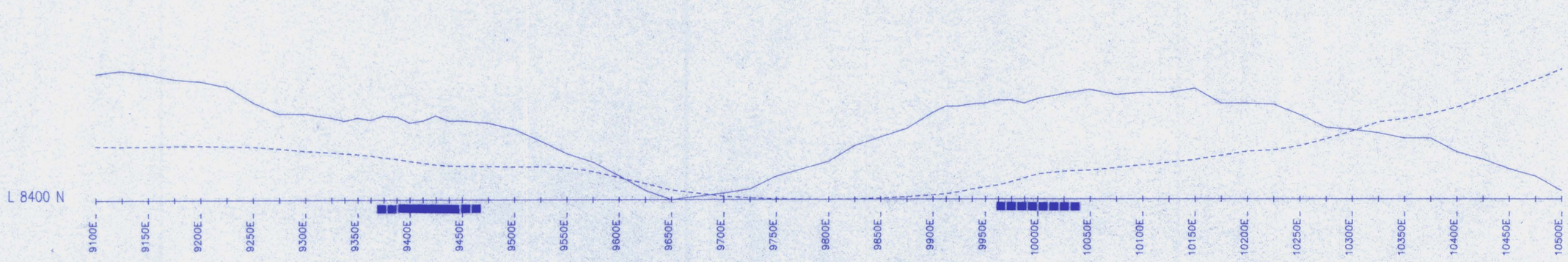
COMINCO LTD.

INDUCED POLARIZATION SURVEY
MEL PROPERTY
MAIN GRID **FIGURE 5h**

Date: 97/11/17
Interpretation: Td=120ms Tp=900ms

SCINTREX IPR12 RX

DIAND - YUKON REGION, LIBRARY
093741 DWG(10)



093741

Scale 1:2500

50 0 50 100 150 200

(meters)

VERTICAL SCALE:
TOPO:1cm=25 metres
GRAVITY:1cm=0.25 mgals

TOPOGRAPHY ---------
GRAVITY ———

STRONG I.P. RESPONSE
MODERATE I.P. RESPONSE

Dwg (21)

COMINCO EXPLORATION

Cominco

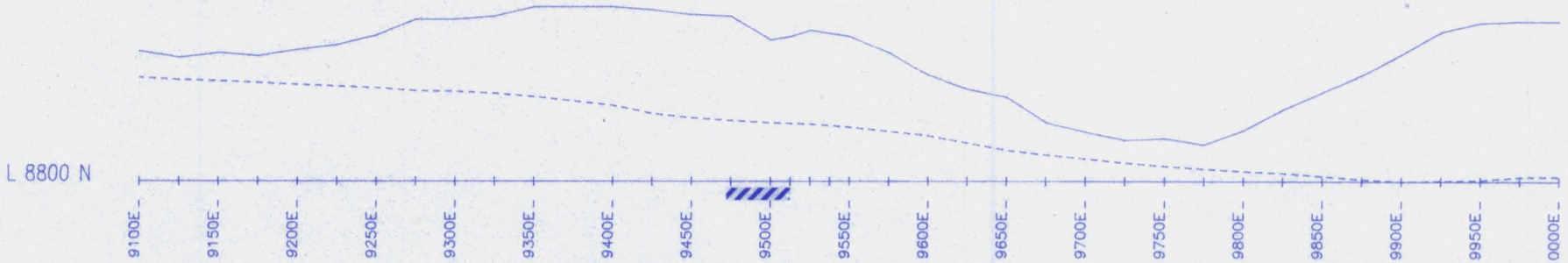
NTS 95/D6

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

MEL PROPERTY
MAIN GRID- L8400N
BOUGUER GRAVITY SURVEY
(Density = 2.67 gm/cc)

Scale: as shown | Date: MAY 1997 | Plate: 6a

DIAND - YUKON REGION. LIBRARY



093741

Scale 1:2500

50 0 50 100 150

(metres)

VERTICAL SCALE:
TOPO:1cm=25 metres
GRAVITY:1cm=0.25 mgals

TOPOGRAPHY ---------
GRAVITY ———————

WEAK I.P. RESPONSE

DWG (22)

COMINCO EXPLORATION

Cominco

NTS 95D/6

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

MEL PROPERTY
MAIN GRID- L8800N
BOUGUER GRAVITY SURVEY
(Density = 2.67 gm/cc)

Scale: as shown

Date: MAY, 1987

Plate: 6b

DIAND - YUKON REGION, LIBRARY

9100E 9200E 9300E 9400E 9500E 9600E 9700E 9800E 9900E 10000E 10100E 10200E 10300E 10400E 10500E 10600E 10700E

L 8800 N

L 8700 N

L 8600 N

L 8500 N

L. 8400 N

L 8200 N

L 8000 N

L 7800 N

093~41

Scale 1:2500

50 0 50 100 150 200 (metres)

MAGNETIC BASE = 58510 nT

Vert. Scale
1cm = 10nT

COMINCO EXPLORATION

NTS 95/D6

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

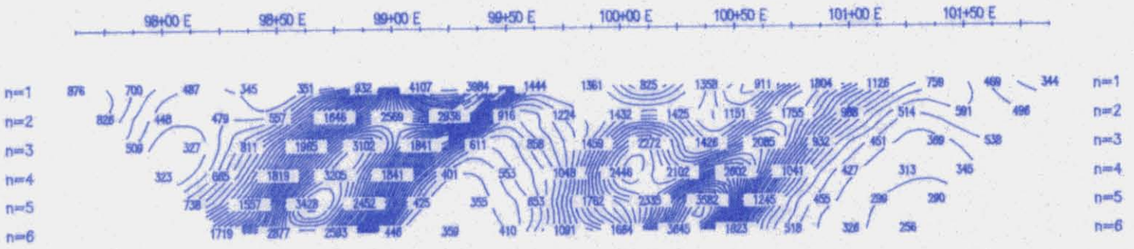
THE MEL PROPERTY

TOTAL FIELD MAGNETICS SURVEY

Scale: as shown | Date: JULY. 1996 | Plate: 7

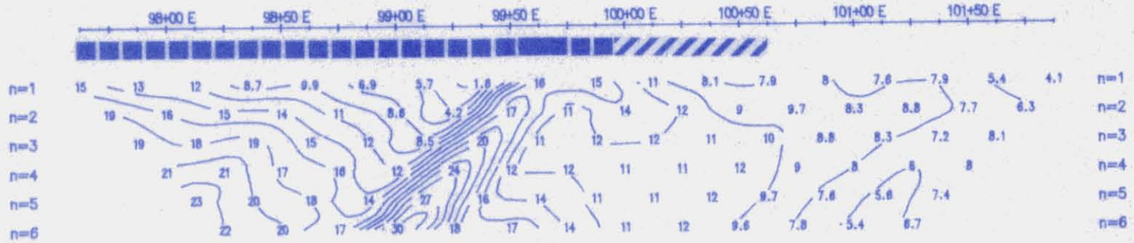
DIAND - YUKON REGION, LIBRARY

RESISTIVITY
OHM-METRES



RESISTIVITY
OHM-METRES

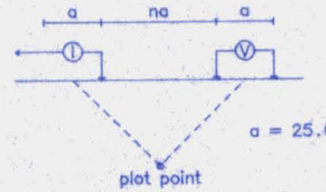
CHARGEABILITY
MSECS



CHARGEABILITY
MSECS

Line 10000 N

Pole-Dipole Array



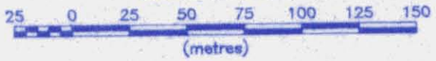
Contour Interval: Chargeability - 2.0 ms
Resistivity - 100 ohm-m

STRONG IP RESPONSE
> 20 msecs

MODERATE IP RESPONSE
15-20 msecs

WEAK IP RESPONSE
10-15 msecs

Scale 1:2500



COMINCO LTD.

INDUCED POLARIZATION SURVEY
MEL PROPERTY
MAIN GRID FIGURE 8

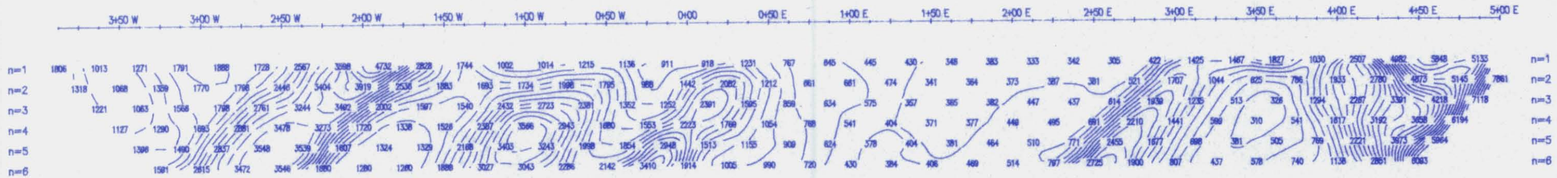
Date: 97/05/29
Interpretation: Td=120ms Tp=900ms

SCINTREX IPR12 RX

DIAND - YUKON REGION LIBRARY

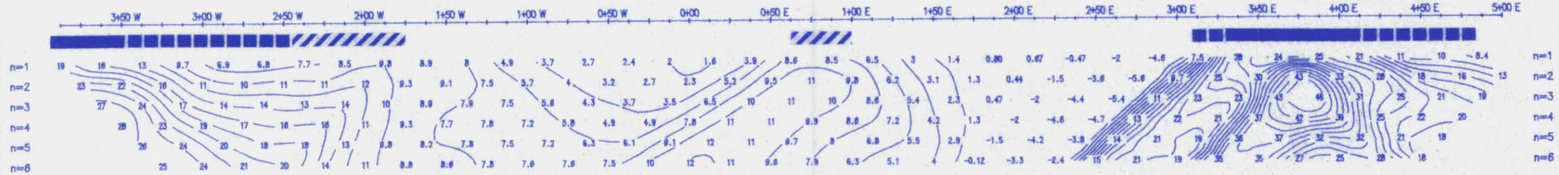
093741 DWG(11)

RESISTIVITY
OHM-METRES



RESISTIVITY
OHM-METRES

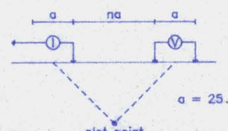
CHARGEABILITY
MSECS



CHARGEABILITY
MSECS

Line 9600 N

Pole-Dipole Array



Contour Interval: Chargeability - 2.0 ms
Resistivity - 200 ohm-m

STRONG IP RESPONSE
> 20 msecs

MODERATE IP RESPONSE
15-20 msecs

WEAK IP RESPONSE
10-15 msecs

Scale 1:2500

25 0 25 50 75 100 125 150
(metres)

COMINCO LTD.

INDUCED POLARIZATION SURVEY
MEL PROPERTY
JERI GRID FIGURE 9a

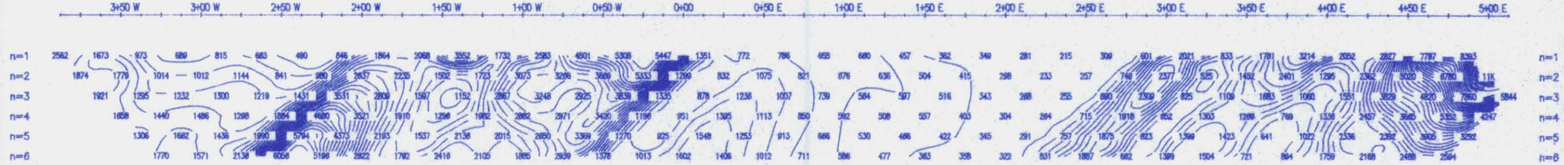
Date: 97/05/25
Interpretation: Td=120ms Tp=900ms

SCINTREX IPR12 RX

BIAND - YUKON REGION, LIBRAR

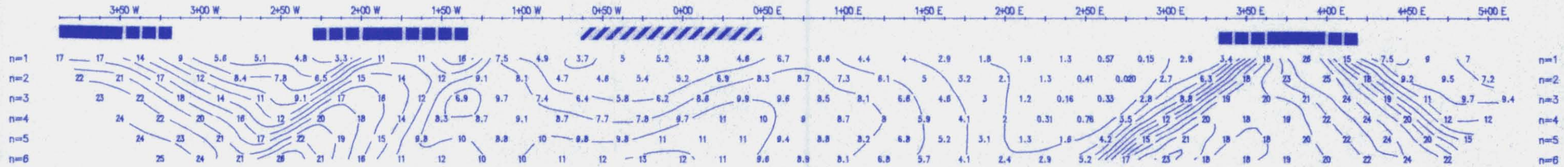
093141 Dwg (12)

RESISTIVITY
OHM-METRES



RESISTIVITY
OHM-METRES

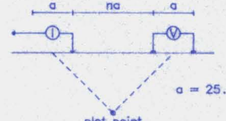
CHARGEABILITY
MSECS



CHARGEABILITY
MSECS

Line 9800 N

Pole-Dipole Array



Contour interval: Chargeability - 2.0 ms
Resistivity - 200 ohm-m

STRONG IP RESPONSE
> 20 msecs

MODERATE IP RESPONSE
15-20 msecs

WEAK IP RESPONSE
10-15 msecs

Scale 1:2500

25 0 25 50 75 100 125 150
(metres)

COMINCO LTD.

INDUCED POLARIZATION SURVEY
MEL PROPERTY
JERI GRID

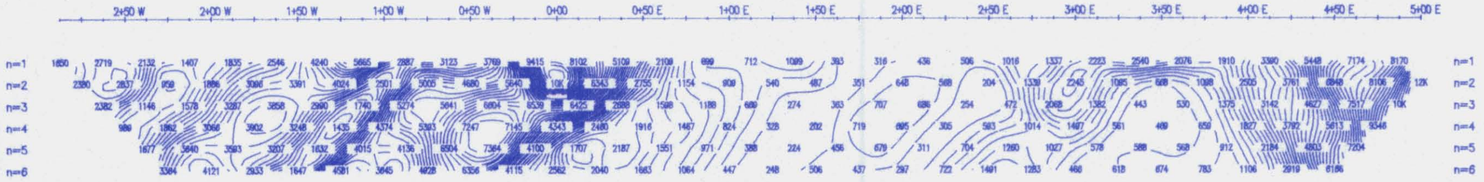
FIGURE 9b

Date: 97/05/25
Interpretation: Td=120ms Tp=900ms

CONTRACTOR: APR12 RX

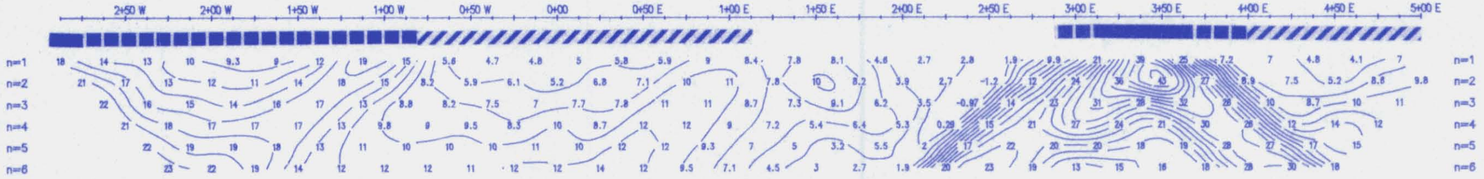
DIAND - YUKON REGION LIBRARY
093741 DWG(13)

RESISTIVITY
OHM-METRES



RESISTIVITY
OHM-METRES

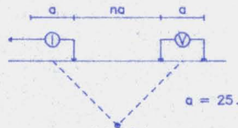
CHARGEABILITY
MSECS



CHARGEABILITY
MSECS

Line 10000 N

Pole-Dipole Array



Contour Interval: Chargeability - 2.0 ms
Resistivity - 200 ohm-m

STRONG IP RESPONSE
> 20 msecs

MODERATE IP RESPONSE
15-20 msecs

WEAK IP RESPONSE
10-15 msecs

Scale 1:2500

25 0 25 50 75 100 125 150
(metres)

COMINCO LTD.

INDUCED POLARIZATION SURVEY
MEL PROPERTY
JERI GRID

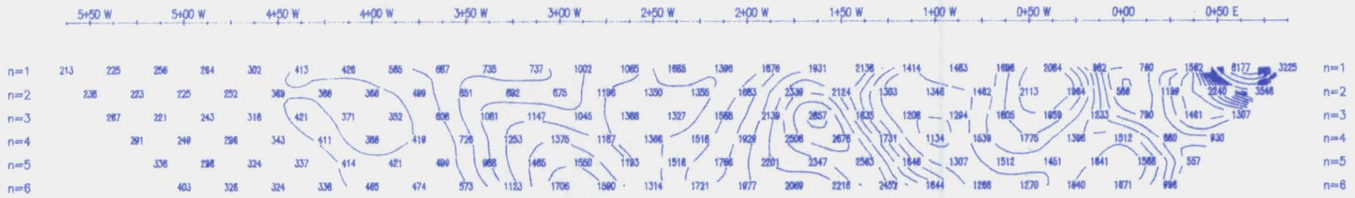
FIGURE 9c

Date: 97/05/24
Interpretation: Td=120ms Tp=900ms

SCINTREX IPR12 RX

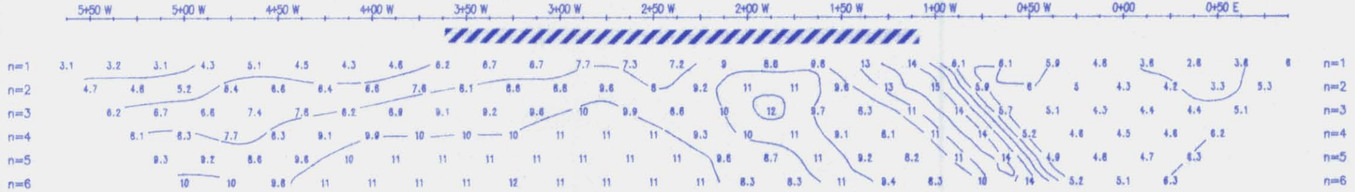
DIAND - YUKON REGION. LIBRARY
093741 Dwg (14)

RESISTIVITY
OHM-METRES



RESISTIVITY
OHM-METRES

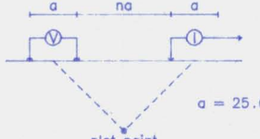
CHARGEABILITY
MSECS



CHARGEABILITY
MSECS

Line 500 N

Dipole-Pole Array



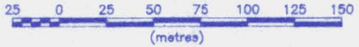
Contour Interval: Chargeability - 2.0 ms
Resistivity - 200 ohm-m

STRONG IP RESPONSE
> 20 msecs

MODERATE IP RESPONSE
15-20 msecs

WEAK IP RESPONSE
10-15 msecs

Scale 1:2500



COMINCO LTD.

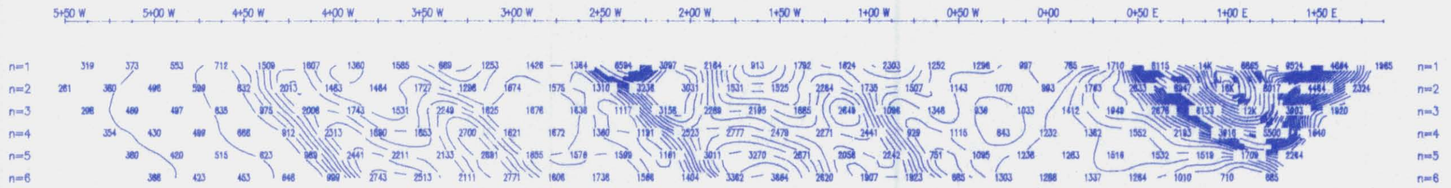
INDUCED POLARIZATION SURVEY
MEL PROPERTY
MEL-EAST GRID **FIGURE 10a**

Date: 97/05/21
Interpretation: Td=120ms Tp=900ms

SCINTREX IPR12 RX

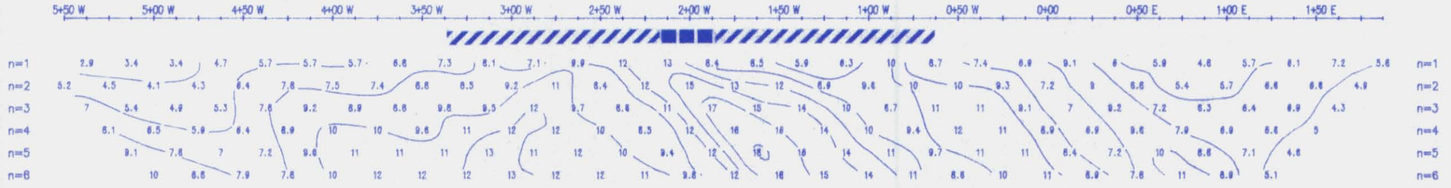
DIAND - YUKON REGION, LIBRARY
093741 DWG (15)

RESISTIVITY
OHM-METRES



RESISTIVITY
OHM-METRES

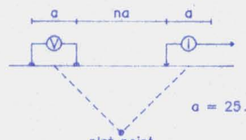
CHARGEABILITY
MSECS



CHARGEABILITY
MSECS

Line 700 N

Dipole-Pole Array



Contour Interval: Chargeability - 2.0 ms
Resistivity - 200 ohm-m

STRONG IP RESPONSE
> 20 msecs

MODERATE IP RESPONSE
15-20 msecs

WEAK IP RESPONSE
10-15 msecs

Scale 1:2500

COMINCO LTD.

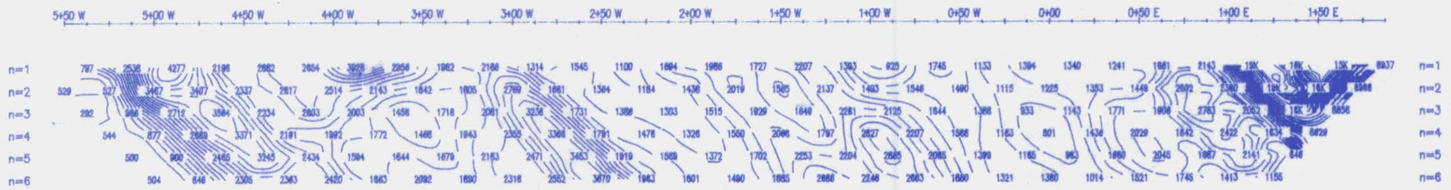
INDUCED POLARIZATION SURVEY
MEL PROPERTY
MEL-EAST GRID **FIGURE 10b**

Date: 97/05/20
Interpretation: Td=120ms Tp=900ms

SCINTREX IPR12 RX

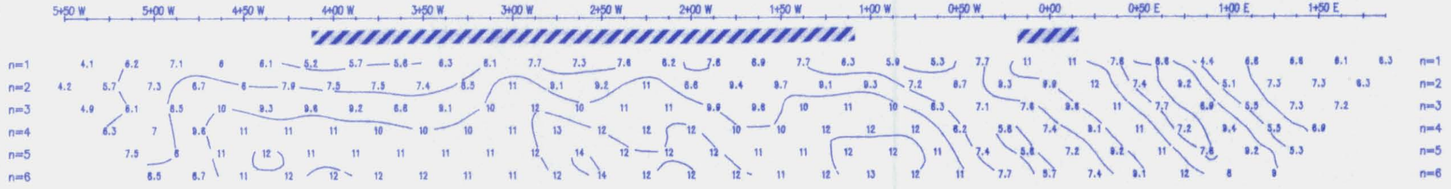
DIAND - YUKON REGION, LIBRARY
093741 DWG (16)

RESISTIVITY
OHM-METRES



RESISTIVITY
OHM-METRES

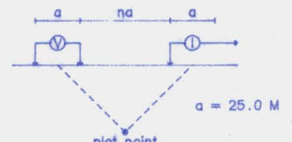
CHARGEABILITY
MSECS



CHARGEABILITY
MSECS

Line 900 N

Dipole-Pole Array



Contour Interval: Chargeability - 2.0 ms
Resistivity - 200 ohm-m

STRONG IP RESPONSE
> 20 msecs

MODERATE IP RESPONSE
15-20 msecs

WEAK IP RESPONSE
10-15 msecs

Scale 1:2500

25 0 25 50 75 100 125 150
(metres)

COMINCO LTD.

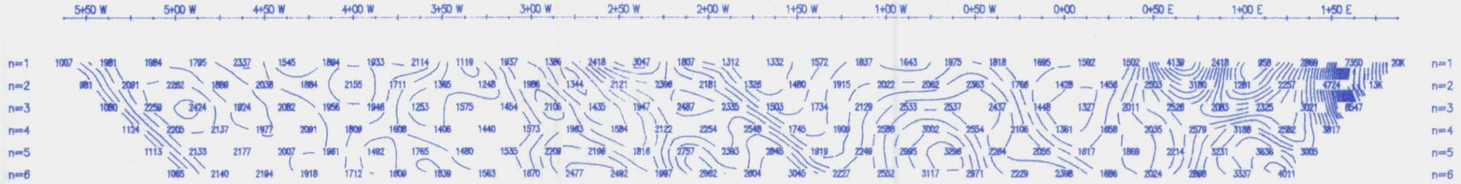
INDUCED POLARIZATION SURVEY
MEL PROPERTY
MEL-EAST GRID **FIGURE 10c**

Date: 97/05/20
Interpretation: Td=120ms Tp=900ms

SCINTREX IPR12 RX

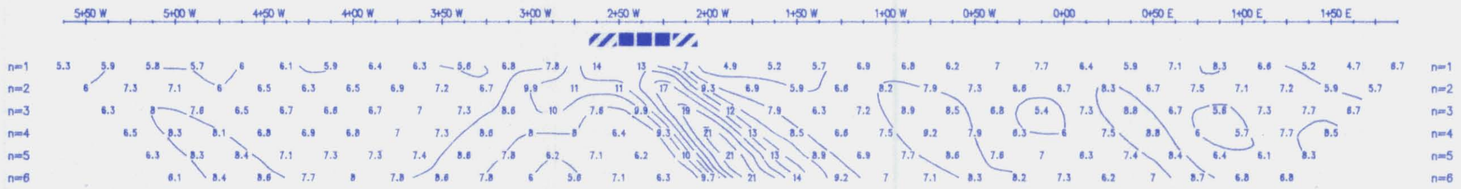
DIAND - YUKON REGION, LIBRARY
093741 DWG (17)

RESISTIVITY
OHM-METRES



RESISTIVITY
OHM-METRES

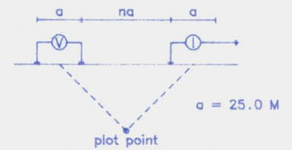
CHARGEABILITY
MSECS



CHARGEABILITY
MSECS

Line 1100 N

Dipole-Pole Array



Contour Interval: Chargeability - 2.0 ms
Resistivity - 200 ohm-m

STRONG IP RESPONSE
> 20 msecs

MODERATE IP RESPONSE
15-20 msecs

WEAK IP RESPONSE
10-15 msecs

Scale 1:2500

COMINCO LTD.

INDUCED POLARIZATION SURVEY
MEL PROPERTY
MEL-EAST GRID **FIGURE 10d**

Date: 97/05/19
Interpretation: Td=120ms Tp=900ms

SCINTREX IPR12 RX

DIAND - YUKON REGION, LIBRARY
093741 Dwg (18)

APPENDIX I

STATEMENT OF EXPENDITURES

MEL PROPERTY

EXPENDITURE ITEM	**COST $**
STAFF COSTS - PERMANENT	16,526
- TEMPORARY	11,101
DOMICILE	7,597
FUEL (diesel, propane)	2,548
LINECUTTING	12,827
HELICOPTER	20,036
FIXED WING	3,838
GEOCHEMICAL ANALYSES	3,108
COMMUNICATIONS	2,113
EXPEDITING / FREIGHT	4,486
DRAFTING / REPRODUCTIONS	216
EXPENSE ACCOUNTS	941
TOTAL	**$85,337**

APPENDIX II

STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Darren A. Senft, of #4-2415 W. 4th Ave., Vancouver, B.C. hereby declare that I:

1. Graduated from The University of British Columbia, Vancouver, B.C. with a B.Sc. in Geology in May, 1994.

2. Have been actively engaged in mineral exploration in Western Canada as a geological assistant with Cominco Ltd during the summers of 1992-94, as a contract geologist with Cominco Ltd from May, 1995 to May 1997, and as a permanent geologist with Cominco Ltd since May, 1997.

Date: December, 1997

D.A. SENFT, B.Sc.
GEOLOGIST I

CERTIFICATION OF QUALIFICATIONS

I, DAVID C. HALL, of 3476 W. 22nd Avenue, in the City of Vancouver, in the Province of British Columbia, do hereby certify:

I. THAT I graduated with a B.Sc., Honours in Geophysics from the University of Manitoba in 1976.

ii. THAT I have been actively practising Geophysics from 1976 to 1997, and am presently an employee of Cominco Ltd.

David C. Hall, B.Sc.
Geophysicist

December, 1997

APPENDIX III

1997 SOIL GEOCHEMISTRY

Main Mel Grid

LAB	FIELD	GRID	GRID							D	Wm	H	Cu	Pb	Zn	Ag	As	Ba	Cd	Co	Ni	Fe	Mo	Cr	Bi	Sb	V	Sn	W	Sr	Y	La	Mn	Mg	Ti	Al	Ca	Na	K
NUMBER	NUMBER	EAST	NORTH	M	O	CO	SZ	OR	W	cm	S		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%
S9708298	332010	9200	87	1	2	K	4	3	2	25	2	B1	11	5	11	<.4	<2	237	<1	2	8	0.55	2	<4	<5	<5	3	<2	<2	166	4	<2	625	0.18	<.01	0.54	4.26	0.04	0.01
S9708299	332011	9250	87	1	2	3B	45	2	2	20	2	B1	11	11	30	<.4	6	141	<1	5	11	1.59	2	8	<5	<5	12	<2	<2	58	4	2	273	0.17	<.01	0.61	1.25	0.01	0.01
S9708300	332012	9300	87	1	2	BG	45	3	2	25	2	B2	8	11	24	<.4	2	141	<1	2	6	1.05	2	6	<5	<5	13	<2	<2	41	<2	<2	89	0.09	<.01	0.65	0.92	0.01	0.02
S9708301	332013	9350	87	1	2	K	4	3	2	20	2	A	11	5	15	<.4	2	186	<1	1	7	0.65	3	5	<5	<5	5	<2	<2	143	2	<2	231	0.21	<.01	0.48	3.67	0.02	0.02
S9708302	332014	9400	87	1	2	K	43	3	2	30	2	A	10	6	26	0.5	2	231	<1	3	9	0.79	2	4	<5	<5	5	<2	<2	178	3	<2	1289	0.27	<.01	0.42	4.32	0.03	0.03
S9708303	332015	9450	87	1	2	3B	43	2	2	20	1	B1	17	14	40	<.4	7	164	<1	5	18	1.9	2	11	<5	<5	15	<2	<2	54	5	5	314	0.25	<.01	0.81	1.19	0.03	0.03
S9708304	332016	9500	87	1	2	2Y	53	1	2	15	2	B1	13	14	52	<.4	11	77	<1	8	21	2.96	<2	13	<5	<5	14	<2	<2	5	2	6	156	0.24	<.01	1.08	0.06	0.01	0.01
S9708305	332017	9550	87	1	2	2Y	35	1	2	15	2	B2	9	12	50	<.4	12	58	<1	6	17	2.74	2	11	<5	<5	14	<2	<2	3	<2	5	129	0.19	<.01	0.87	0.02	0.01	0.01
S9708306	332018	9600	87	1	2	2Y	53	1	2	10	2	B1	14	15	57	<.4	11	63	<1	6	18	2.58	2	10	<5	<5	12	<2	<2	7	2	6	188	0.2	<.01	0.71	0.1	0.01	0.01
S9708289	332001	9600	88	1	2	2B	34	2	2	20	2	B1	2	15	26	<.4	3	38	<1	2	4	1	<2	5	<5	<5	14	<2	<2	2	<2	3	152	0.04	<.01	0.42	0.03	0.01	0.01
S9708290	332002	9550	88	1	2	2B	53	1	2	10	2	B1	4	10	30	<.4	4	49	<1	3	10	1.62	<2	8	<5	<5	14	<2	<2	2	<2	3	92	0.13	<.01	0.63	0.01	0.01	0.01
S9708291	332003	9500	88	1	2	1G	53	2	2	15	2	B2	5	13	65	<.4	3	133	<1	5	14	1.93	2	16	<5	<5	26	<2	<2	8	2	10	125	0.31	<.01	1.1	0.13	0.01	0.02
S9708292	332004	9450	88	1	2	1B	32	2	2	15	2	B2	1	7	16	<.4	<2	33	<1	1	5	0.75	<2	5	<5	<5	10	<2	<2	2	<2	8	41	0.08	<.01	0.44	0.02	0.01	0.02
S9708293	332005	9400	88	1	2	YB	43	2	2	25	2	B1	3	8	28	<.4	4	58	<1	2	7	1.36	<2	8	<5	<5	17	<2	<2	3	<2	8	130	0.14	<.01	0.65	0.02	0.01	0.02
S9708294	332006	9350	88	1	2	2B	43	2	2	20	2	B2	3	9	31	<.4	3	63	<1	3	9	1.45	2	9	<5	<5	18	<2	<2	6	<2	6	117	0.15	<.01	0.6	0.1	0.01	0.02
S9708295	332007	9300	88	1	2	YB	43	2	2	15	2	B2	3	8	25	<.4	3	60	<1	2	7	1.3	2	8	<5	<5	27	<2	<2	5	<2	7	64	0.12	<.01	0.56	0.08	0.01	0.02
S9708296	332008	9250	88	1	2	3B	43	2	3	25	2	B2	18	11	54	<.4	5	194	<1	5	18	1.84	3	13	<5	<5	15	<2	<2	35	5	5	308	0.2	<.01	0.9	0.7	0.03	0.02
S9708297	332009	9200	88	1	2	2B	43	2	2	25	2	B1	15	15	48	<.4	9	112	<1	8	20	2.38	2	12	<5	<5	13	<2	<2	19	4	4	346	0.24	<.01	0.79	0.38	0.01	0.02
S9707944	331501	9600	89	1	5	2B	43	3	3	20		A2	43	5	41	<.4	<2	82	<1	<1	2	0.06	2	<4	<5	<5	2	2	<2	43	<2	<2	473	0.37	<.01	0.06	3.02	0.04	0.02
S9707945	331502	9550	89	1	5	3B	43	3	3	30		B1	19	<4	7	<.4	<2	249	<1	<1	10	0.38	<2	<4	<5	<5	3	<2	<2	120	5	<2	243	0.15	<.01	0.79	3.99	0.04	0.01
S9707946	331503	9500	89	1	2	BG	45	2	2	20		B1	5	13	38	<.4	5	97	<1	3	8	1.51	<2	8	<5	<5	22	<2	<2	6	<2	10	133	0.11	<.01	0.63	0.1	0.01	0.03
S9707947	331504	9450	89	1	2	1B	45	2	2	20		B1	7	19	47	<.4	12	101	<1	6	18	2.33	2	16	<5	<5	22	<2	<2	5	5	13	545	0.37	<.01	1.01	0.31	0.01	0.04
S9707948	331505	9400	89	1	2	1B	45	1	2	20		B1	2	12	47	0.7	<2	109	<1	3	9	1.31	<2	11	<5	<5	16	<2	<2	4	<2	10	99	0.21	<.01	0.84	0.17	0.01	0.02
S9707949	331506	9350	89	1	2	1B	45	2	2	15		B1	5	10	43	<.4	5	64	<1	4	13	1.82	2	11	<5	<5	17	<2	<2	4	<2	11	120	0.24	<.01	0.75	0.08	0.01	0.03
S9707950	331507	9300	89	1	2	1B	45	1	2	20		B1	9	11	92	<.4	3	204	<1	8	20	2.32	<2	20	<5	<5	31	<2	<2	6	<2	8	157	0.3	<.01	1.63	0.06	0.01	0.03
S9707951	331508	9250	89	1	2	2B	35	2	2	20		B1	6	11	41	<.4	3	69	<1	4	10	1.86	<2	8	<5	<5	15	<2	<2	3	<2	10	117	0.12	<.01	0.79	0.02	0.01	0.03
S9707952	331509	9200	89	1	5	1B	35	2	3	15		B1	11	11	48	<.4	4	170	<1	5	14	1.95	2	13	<5	<5	23	<2	<2	9	2	11	194	0.24	<.01	1	0.11	0.01	0.04
S9707953	331510	9200	90	1	5	KB	35	3	3	15		B1	21	20	46	0.4	2	352	<1	10	17	2.05	2	11	<5	<5	19	<2	<2	82	10	14	351	0.12	<.01	1.56	1.8	0.03	0.04
S9707954	331511	9250	90	1	5	1G	52	2	2	15		B1	1	<4	7	<.4	<2	32	<1	<1	1	0.24	<2	<4	<5	<5	8	<2	<2	4	<2	14	11	0.01	<.01	0.34	0.03	0.01	0.01
S9707955	331512	9300	90	1	5	1B	52	1	2	20		B1	3	8	34	<.4	3	39	<1	3	8	1.26	<2	8	<5	<5	16	<2	<2	3	<2	10	66	0.13	<.01	0.6	0.03	0.01	0.02
S9707956	331513	9350	90	1	2	1B	52	1	2	20		B1	2	7	39	<.4	<2	108	<1	3	9	1.14	<2	11	<5	<5	18	<2	<2	4	<2	9	100	0.25	<.01	0.78	0.12	0.01	0.01
S9707957	331514	9400	90	1	2	1B	53	1	2	15		B1	3	11	53	<.4	<2	109	<1	5	13	1.7	2	14	<5	<5	19	<2	<2	4	2	11	154	0.31	<.01	0.96	0.17	0.01	0.02
S9707958	331515	9450	90	1	2	1B	35	2	3	20		B1	4	12	37	<.4	4	117	<1	4	10	1.56	<2	12	<5	<5	19	<2	<2	6	<2	9	264	0.23	<.01	0.84	0.24	0.01	0.02
S9707959	331516	9500	90	1	2	1B	35	1	2	20		B1	4	11	34	<.4	5	81	<1	4	13	1.74	<2	12	<5	<5	21	<2	<2	4	<2	11	115	0.24	<.01	0.8	0.07	0.01	0.02
S9707960	331517	9550	90	1	2	1B	53	1	2	20		B1	7	13	50	<.4	8	132	<1	6	19	2.14	2	16	<5	<5	24	<2	<2	9	5	13	203	0.31	<.01	1.02	0.3	0.01	0.03
S9707961	331518	9600	90	1	5	1B	53	2	2	15		B1	6	12	49	<.4	6	108	<1	4	11	1.78	<2	13	<5	<5	21	<2	<2	7	2	11	250	0.25	<.01	0.91	0.13	0.01	0.04

Jeri Grid

LAB NO	FIELD									D	Wm	H	Cu	Pb	Zn	Ag	As	Ba	Cd	Co	Ni	Fe	Mo	Cr	Bi	Sb	V	Sn	W	Sr	Y	La	Mn	Mg	Ti	Al	Ca	Na	K
NUMBER	NO	GEAST	GNORTH	M	O	CO	SZ	OR	W	cm	S		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%
S9708276	331839	0	96	1	2	2B	52	1	2	15		B1	8	20	43	<.4	5	102	<1	5	12	2.02	<2	12	<5	<5	13	<2	<2	15	9	17	649	0.7	<.01	0.86	1.42	0.01	0.03
S9708277	331840	25	96	1	2	2B	45	2	2	25		B1	4	11	41	<.4	2	76	<1	4	10	1.63	<2	12	<5	<5	14	<2	<2	7	2	11	219	0.29	<.01	0.78	0.24	0.01	0.03
S9708278	331841	50	96	1	2	2B	54	2	2	25		B1	4	13	75	<.4	<2	86	<1	5	13	2.08	2	17	<5	<5	22	2	<2	7	3	11	177	0.32	<.01	1.11	0.27	0.01	0.02
S9708279	331842	75	96	1	2	1B	54	1	2	25		B1	4	15	61	<.4	4	119	<1	5	14	2.1	2	14	<5	<5	15	<2	<2	5	2	11	250	0.33	<.01	1.04	0.14	0.01	0.03
S9708280	331843	100	96	1	2	1B	54	1	2	20		B1	4	11	56	<.4	<2	100	<1	5	13	1.91	<2	16	<5	<5	20	<2	<2	6	2	10	161	0.26	<.01	1.09	0.15	0.01	0.02
S9708281	331844	125	96	1	2	1B	54	1	2	20		B1	4	11	48	0.5	<2	80	<1	4	11	1.58	2	14	<5	<5	16	<2	<2	6	<2	8	171	0.24	<.01	0.87	0.16	0.01	0.02
S9708282	331845	150	96	1	2	1B	54	1	3	20		B1	5	18	64	<.4	3	109	<1	6	15	2.46	<2	17	<5	<5	19	<2	<2	8	3	10	218	0.29	<.01	1.25	0.23	0.01	0.03
S9708283	331846	175	96	1	2	1B	54	1	2	20		B1	3	11	48	0.8	<2	94	<1	5	11	1.87	<2	15	<5	<5	21	<2	<2	5	<2	10	150	0.26	<.01	1.1	0.14	0.01	0.02
S9708284	331847	200	96	1	2	1B	54	1	2	25		B1	4	12	36	<.4	<2	114	<1	4	11	1.84	<2	12	<5	<5	13	<2	<2	3	<2	9	94	0.21	<.01	1.06	0.09	0.01	0.03
S9708285	331848	225	96	1	2	1B	54	1	2	15		B1	4	12	42	0.7	<2	99	<1	4	10	1.61	<2	15	<5	<5	18	<2	<2	8	2	11	117	0.26	<.01	1.1	0.29	0.01	0.01
S9708286	331849	250	96	1	2	BG	52	1	2	20		B1	2	17	46	0.4	<2	150	<1	4	7	1.75	<2	9	<5	<5	11	<2	<2	7	2	9	251	0.09	<.01	0.86	0.26	0.01	0.02
S9708287	331850	275	96	1	2	1B	53	1	2	20		B1	6	14	52	<.4	4	122	<1	6	17	2.13	<2	16	<5	<5	17	<2	<2	8	2	11	188	0.29	<.01	1.09	0.21	0.01	0.02
S9708288	331851	300	96	1	2	2B	53	2	2	25		B1	5	13	45	0.5	<2	120	<1	5	12	1.83	<2	15	<5	<5	19	<2	<2	20	10	17	693	0.26	<.01	1.31	0.75	0.01	0.02
S9708975	328307	0	98	1	2	3B	4	2	2	30	2	B1	7	21	140	<.4	10	129	<1	6	13	2.87	2	17	<5	<5	25	<2	<2	9	6	16	293	0.42	<.01	1.4	0.37	<.01	0.05
S9708976	328308	-25	98	1	2	2G	4	2	2	25	2	B1	8	10	102	<.4	9	113	1	3	7	1.5	2	11	<5	<5	16	<2	<2	35	5	9	1069	0.21	<.01	1.02	1.82	0.03	0.02
S9708977	328309	-50	98	1	2	3Y	42	1	2	30	2	B1	10	30	141	<.4	13	172	1	6	12	3.31	4	20	<5	<5	43	<2	<2	18	17	22	1176	1.17	<.01	1.39	2.01	<.01	0.03
S9708978	328310	-75	98	1	2	2B	42	1	2	20	2	B1	12	19	78	<.4	17	104	<1	7	14	2.34	2	16	<5	<5	20	<2	<2	25	13	16	686	0.63	<.01	1.05	1.48	0.03	0.04
S9708979	328311	-100	98	1	2	2G	4	2	2	25	3	B1	7	14	47	<.4	7	121	<1	6	13	2.09	<2	15	<5	<5	19	<2	<2	22	12	14	442	0.35	<.01	0.98	0.84	<.01	0.03
S9708980	328312	-125	98	1	2	3G	4	2	2	30	3	B1	8	12	35	0.8	14	86	<1	4	10	1.72	<2	11	<5	<5	13	<2	<2	37	13	13	442	0.22	<.01	0.9	1.71	0.03	0.02
S9708981	328313	-150	98	1	2	K	4	3	2	30	3	B1	10	10	25	<.4	<2	67	<1	6	6	1.3	<2	6	<5	<5	9	<2	<2	41	10	10	375	0.14	<.01	0.57	1.95	0.04	0.05
S9708982	328314	-175	98	1	2	3G	4	3	2	25	3	B1	11	21	60	<.4	25	80	<1	6	14	1.95	<2	12	<5	<5	12	<2	<2	46	11	14	456	1.51	<.01	0.8	4.28	<.01	0.08
S9708983	328315	-200	98	1	2	YG	5	1	2	30	2	B1	14	18	59	<.4	18	88	<1	7	15	1.94	<2	10	<5	5	10	<2	<2	129	10	13	378	1.93	<.01	0.81	E17.36	<.01	0.09
S9708984	328316	-225	98	1	2	3G	4	1	3	30	3	B1	12	18	63	<.4	26	102	<1	7	15	2.08	<2	14	<5	<5	14	<2	<2	34	13	15	513	0.86	<.01	0.94	2.15	<.01	0.07
S9708985	328317	-250	98	1	2	K	4	3	2	35	3	B1	19	4	18	0.4	11	104	1	3	8	0.64	<2	4	<5	<5	5	<2	<2	67	13	14	1028	0.17	<.01	0.84	4.01	0.03	0.03
S9708986	328318	-275	98	1	2	1B	42	2	2	25	3	B2	6	11	68	<.4	5	120	<1	4	7	1.49	<2	13	<5	<5	19	<2	<2	13	5	14	305	0.23	<.01	1.39	0.41	0.01	0.04
S9708987	328319	-300	98	1	2	3G	4	3	2	30	2	B1	14	15	80	<.4	14	137	<1	6	14	1.95	<2	14	<5	<5	14	<2	<2	36	12	14	497	0.38	<.01	1.09	1.5	<.01	0.05
S9708962	328294	-300	100	1	2	3B	4	2	2	25	2	B1	5	14	44	<.4	3	109	<1	4	9	2.05	2	15	<5	6	22	<2	<2	18	2	11	230	0.35	<.01	1.19	0.65	<.01	0.05
S9708963	328295	-275	100	1	2	2B	4	2	2	25	2	B1	3	9	40	<.4	<2	87	<1	4	10	1.72	<2	18	<5	<5	24	<2	<2	11	3	13	120	0.65	<.01	1.46	0.3	<.01	0.03
S9708964	328296	-250	100	1	2	3B	4	2	2	25	2	B1	7	14	59	<.4	9	122	<1	6	16	2.46	2	16	<5	<5	21	<2	<2	24	7	16	283	0.59	<.01	1.32	1.18	<.01	0.06
S9708965	328297	-225	100	1	2	2B	4	2	2	25	2	B1	6	9	71	<.4	15	89	<1	4	10	1.79	2	15	<5	7	17	<2	<2	17	3	11	334	0.68	<.01	1.12	0.73	<.01	0.07
S9708966	328298	-200	100	1	2	3G	4	3	2	35	3	B1	13	10	38	<.4	<2	135	<1	5	12	1.95	<2	15	<5	<5	18	<2	<2	35	14	19	627	0.33	<.01	1.11	1.47	0.03	0.04
S9708967	328299	-175	100	1	2	1B	4	1	2	35	2	B1	4	9	45	<.4	11	111	<1	4	11	2.05	<2	14	5	<5	16	<2	<2	17	9	17	123	0.25	<.01	0.96	0.52	<.01	0.04
S9708968	328300	-150	100	1	2	2B	4	2	2	35	2	B2	3	7	32	<.4	5	89	<1	3	7	1.52	<2	11	<5	<5	20	<2	<2	11	2	10	194	0.21	<.01	0.78	0.39	<.01	0.03
S9708969	328301	-125	100	1	2	2G	4	2	2	10	2	B2	5	8	15	0.4	6	132	<1	3	3	0.61	<2	4	<5	<5	7	<2	<2	16	3	7	201	0.05	<.01	0.5	0.47	0.03	0.06
S9708970	328302	-100	100	1	2	3R	42	2	2	30	2	C	6	10	40	<.4	<2	103	<1	4	7	1.86	<2	12	5	<5	21	<2	<2	22	5	9	229	0.17	<.01	0.97	0.69	0.03	0.02
S9708971	328303	-75	100	1	2	3G	42	2	2	35	2	B2	10	8	25	<.4	<2	113	<1	7	7	1.49	<2	9	<5	<5	17	<2	<2	40	8	11	702	0.14	<.01	0.81	1.46	0.01	0.03
S9708972	328304	-50	100	1	2	1B	42	1	2	30	2	B2	25	120	2846	<.4	35	82	5	7	16	2.52	<2	16	<5	<5	24	<2	<2	15	11	15	522	0.87	<.01	1.02	1.51	<.01	0.03
S9708973	328305	-25	100	1	2	3R	32	1	1	20	3	B1	9	82	1560	<.4	34	119	1	6	13	2.85	2	19	<5	<5	34	<2	<2	6	3	13	416	0.45	<.01	1.29	0.36	<.01	0.03
S9708974	328306	0	100	1	2	2B	4	2	2	20	3	B1	8	24	5361	<.4	44	67	12	4	9	2.56	<2	14	<5	<5	38	<2	<2	21	8	10	1065	4.65	<.01	0.99	8.02	0.01	0.02

Mel East Line

LAB NUMBER	FIELD UMBE	GEAST	GNORTH	LINE	METRE	M	O	CO	SZ	OR	W	D cm	Wm S	H	Cu pp	Pb ppm	Zn ppm	Ag ppm	As p	Ba ppm	Cd p	Co p	Ni p	Fe %	Mo pp	Cr p	Bi p	Sb p	V p	Sn p	W p	Sr p	Y p	La p	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %
S9708790	328121	593061	6695016	WA-3	0	1	2	BG	4	2	2	25	2	B1	5	20	91	<.4	10	130	<1	4	12	2.63	2	16	<5	<5	21	<2	<2	8	4	8	272	0.3	<.01	1.21	0.31	<.01	0.03
S9708791	328122	593109	6695044	WA-3	50	1	2	NR	54	2	2	25	2	B2	7	25	85	<.4	9	76	<1	6	17	3.39	2	20	<5	<5	25	<2	<2	9	7	16	274	0.37	<.01	1.33	0.24	<.01	0.04
S9708792	328123	593164	6695056	WA-3	100	1	2	BR	4	2	2	25	2	B2	6	28	94	<.4	21	145	<1	5	12	2.74	2	16	<5	<5	18	<2	<2	9	10	15	605	0.24	<.01	1.13	0.33	<.01	0.05
S9708793	328124	593206	6695069	WA-3	150	1	2	2B	45	2	2	25	3	B2	6	16	88	<.4	11	77	<1	5	13	2.37	2	16	<5	<5	22	<2	<2	9	8	16	253	0.3	<.01	1.03	0.24	<.01	0.04
S9708794	328125	593252	6695077	WA-3	200	1	2	2B	4	2	2	25	2	B2	5	11	64	<.4	9	83	<1	4	13	2.09	2	15	<5	<5	21	<2	<2	5	2	13	206	0.32	<.01	1.03	0.16	<.01	0.03
S9708795	328126	593289	6695113	WA-3	250	1	2	2B	4	2	2	20	4	B1	9	59	118	<.4	65	119	<1	7	15	3.88	2	20	<5	<5	28	<2	<2	7	14	19	987	0.42	<.01	1.41	0.48	<.01	0.05
S9708796	328127	593321	6695128	WA-3	300	1	2	BR	4	2	2	25	4	B1	9	120	296	<.4	49	114	1	7	17	3.48	2	22	<5	6	35	<2	<2	15	20	20	1435	1.69	0.01	1.34	2.69	<.01	0.06
S9708797	328128	593369	6695150	WA-3	350	1	2	BR	4	2	2	25	2	B1	5	61	257	<.4	11	112	<1	4	12	2.54	2	17	<5	<5	27	<2	<2	7	7	14	476	0.92	<.01	1.14	1.29	<.01	0.02
S9708798	328129	593414	6695165	WA-3	400	1	2	BR	5	2	2	25	3	B1	7	85	298	<.4	27	97	<1	5	14	3.75	3	21	<5	<5	33	<2	<2	5	10	15	599	0.32	0.01	1.26	0.23	<.01	0.03
S9708799	328130	593478	6695171	WA-3	450	1	2	BR	4	2	2	30	3	B2	3	34	180	<.4	10	121	<1	5	10	2.49	2	17	<5	<5	28	<2	<2	5	2	9	527	0.26	<.01	1.03	0.16	<.01	0.02
S9708800	328131	593533	6695199	WA-3	500	1	2	BR	4	2	2	20	3	B2	8	28	97	<.4	36	63	<1	6	14	3.57	2	18	<5	<5	25	<2	<2	6	14	14	639	0.3	<.01	1.03	0.31	<.01	0.04
S9708801	328132	593583	6695209	WA-3	550	1	2	2B	42	2	2	25	2	B2	8	23	95	<.4	18	131	<1	7	17	3.14	3	21	<5	<5	28	<2	<2	9	14	21	709	0.35	<.01	1.17	0.43	<.01	0.04
S9708802	328133	593627	6695230	WA-3	600	1	2	BN	4	2	2	25	2	B1	17	44	117	<.4	28	103	<1	8	18	3.16	2	14	<5	<5	14	<2	<2	10	16	18	465	1.04	<.01	0.95	1.67	<.01	0.08
S9708803	328134	593665	6695240	WA-3	650	1	2	2B	42	2	2	10	2	B2	10	36	66	<.4	69	40	<1	5	11	1.86	<2	13	<5	<5	13	<2	<2	38	10	7	905	6.84	<.01	0.36	E12.76	<.01	0.05
S9708804	328135	593705	6695265	WA-3	700	1	2	RY	4	2	2	20	3	B1	4	25	87	<.4	12	112	<1	5	11	2.7	3	17	<5	<5	25	<2	<2	5	6	15	425	0.39	<.01	1.08	0.38	<.01	0.03
S9708805	328136	593748	6695287	WA-3	750	1	2	2B	42	2	2	35	2	B2	9	17	71	<.4	22	60	<1	4	11	1.4	<2	8	<5	<5	9	<2	<2	25	9	8	603	6.76	<.01	0.46	E12.20	<.01	0.04
S9708806	328137	593803	6695301	WA-3	800	1	2	3B	42	2	2	30	3	B2	13	29	129	<.4	48	62	<1	6	15	2.55	<2	14	<5	<5	17	<2	<2	20	13	10	901	4.44	<.01	0.86	8.19	<.01	0.04
S9708807	328138	593857	6695324	WA-3	850	1	2	BY	4	2	2	25	4	B1	17	39	118	<.4	41	136	<1	8	19	3.53	2	17	<5	<5	22	<2	<2	14	29	28	733	1.38	<.01	1.31	2.2	<.01	0.09
S9708808	328139	593908	6695335	WA-3	900	1	2	BG	4	2	2	25	3	B1	12	38	142	<.4	34	87	<1	9	22	3.61	2	22	<5	<5	28	<2	<2	6	14	19	601	0.44	0.01	1.23	0.24	<.01	0.07
S9708809	328140	593953	6695361	WA-3	950	1	2	2B	4	2	2	20	3	B1	6	25	81	<.4	7	85	<1	5	13	2.87	2	19	<5	5	27	<2	<2	6	6	11	342	0.42	<.01	1.26	0.5	<.01	0.03
S9708810	328141	594001	6695364	WA-3	1000	1	2	BN	4	2	2	20	2	B1	6	13	98	<.4	15	132	<1	6	16	2.33	2	18	<5	<5	24	<2	<2	3	3	10	202	0.31	0.01	1.12	0.07	<.01	0.02
S9708811	328142	594068	6695381	WA-3	1050	1	2	3B	4	2	2	25	2	B1	9	16	107	<.4	<2	138	1	5	12	2.01	2	14	<5	<5	18	<2	<2	20	8	11	836	0.38	<.01	0.97	1.46	<.01	0.06
S9708812	328143	594115	6695395	WA-3	1100	1	2	2B	4	2	2	25	3	B2	7	61	178	<.4	31	109	<1	6	15	3.61	4	20	<5	5	33	<2	<2	8	13	17	707	0.63	<.01	1.41	0.8	<.01	0.03
S9708813	328144	594190	6695392	WA-3	1150	1	2	2B	4	2	2	25	3	B1	7	35	164	0.9	17	56	<1	4	9	2.21	<2	10	<5	<5	14	<2	<2	15	11	13	737	2.85	<.01	0.7	5.85	<.01	0.03
S9708814	328145	594260	6695380	WA-3	1200	1	2	BR	4	2	2	25	3	B1	4	14	103	<.4	11	106	<1	5	11	2.39	2	19	<5	<5	30	<2	<2	5	3	16	424	0.34	0.01	1.2	0.2	<.01	0.04
S9708815	328146	594311	6695390	WA-3	1250	1	2	BR	4	2	2	25	3	B1	9	26	93	<.4	22	96	<1	7	17	2.82	2	20	<5	<5	26	<2	<2	5	6	19	332	0.34	<.01	1.24	0.13	<.01	0.05
S9708816	328147	594355	6695377	WA-3	1300	1	2	BR	4	2	2	25	3	B1	5	24	121	<.4	13	95	<1	5	12	2.6	2	18	<5	<5	28	<2	<2	4	3	17	202	0.28	<.01	1.26	0.1	<.01	0.04
S9708817	328148	594412	6695381	WA-3	1350	1	2	BR	4	2	2	25	3	B1	8	20	203	<.4	6	154	<1	8	22	3.23	2	24	<5	7	33	<2	<2	6	4	16	312	0.37	<.01	1.63	0.08	<.01	0.04
S9708818	328149	594462	6695400	WA-3	1400	1	2	BN	4	2	2	25	2	B1	9	19	72	<.4	26	69	<1	5	13	1.88	2	10	<5	<5	13	<2	<2	19	13	11	416	3.01	<.01	0.62	5.35	<.01	0.03
S9708819	328150	594527	6695411	WA-3	1450	1	2	2B	42	2	2	15	4	C	14	35	109	<.4	45	56	<1	7	15	2.12	2	9	<5	<5	11	<2	<2	32	18	11	947	3.93	<.01	0.51	8.34	<.01	0.04
S9708820	328151	594581	6695402	WA-3	1500	1	2	2B	42	2	2	10	3	C	10	38	618	<.4	49	111	1	7	15	4.05	3	17	<5	<5	25	<2	<2	11	17	14	1706	2.01	<.01	1.09	3.32	<.01	0.03
S9708821	328152	594647	6695385	WA-3	1550	1	2	2B	4	2	2	25	3	B1	6	33	94	<.4	17	88	<1	5	11	3.09	2	15	<5	5	25	<2	<2	8	11	17	1215	0.49	<.01	1.17	0.76	<.01	0.04
S9708822	328153	594704	6695390	WA-3	1600	1	2	NG	5	2	2	15	3	B1	5	13	70	<.4	5	99	<1	5	14	2.39	2	20	<5	<5	25	<2	<2	7	5	15	286	0.35	0.01	1.12	0.21	<.01	0.04
S9708823	328154	594756	6695383	WA-3	1650	1	2	BG	4	2	2	25	2	B1	11	26	100	<.4	22	77	<1	7	18	2.77	<2	15	<5	<5	17	<2	<2	9	12	16	346	0.48	<.01	0.99	0.63	<.01	0.06
S9708824	328155	594807	6695373	WA-3	1700	1	2	2B	4	2	2	20	2	B1	6	33	110	<.4	36	104	<1	6	10	3.5	<2	12	<5	<5	21	<2	<2	7	8	15	505	0.2	<.01	0.97	0.32	<.01	0.06
S9708825	328156	594839	6695360	WA-3	1750	1	2	2B	42	2	2	20	2	C	6	22	77	<.4	19	79	<1	5	9	2.86	2	13	<5	<5	16	<2	<2	9	8	16	311	0.19	<.01	0.96	0.35	<.01	0.05
S9708826	328157	594913	6695332	WA-3	1800	1	2	2G	45	2	2	25	2	B2	2	10	32	<.4	<2	68	<1	2	5	1.66	<2	10	<5	<5	21	<2	<2	6	2	14	130	0.16	<.01	0.64	0.17	<.01	0.05
S9708827	328158	594964	6695292	WA-3	1850	1	2	2G	4	2	2	20	2	B1	5	14	61	<.4	<2	85	<1	5	13	2.58	2	19	<5	6	32	<2	<2	5	2	11	158	0.3	0.01	1.15	0.14	<.01	0.03
S9708828	328159	595033	6695285	WA-3	1900	1	2	RB	4	2	2	20	3	B1	5	24	82	<.4	18	96	<1	4	9	2.7	3	14	<5	<5	24	<2	<2	5	9	13	878	0.21	<.01	1.01	0.25	<.01	0.02
S9708829	328160	595098	6695273	WA-3	1950	1	2	BN	54	2	2	25	2	B1	6	18	63	<.4	10	93	<1	5	13	2.42	<2	16	<5	<5	24	<2	<2	3	2	7	181	0.27	<.01	0.97	0.11	<.01	0.02
S9708830	328161	595154	6695239	WA-3	2000	1	2	BR	4	2	2	25	2	B1	1	10	85	<.4	2	113	<1	2	3	1.12	<2	7	<5	<5	17	<2	<2	3	<2	6	269	0.11	<.01	0.74	0.1	<.01	0.01
S9708831	328162	595204	6695210	WA-3	2050	1	2	BR	4	2	2	25	3	B1	5	18	91	<.4	24	54	<1	4	9	2.63	2	12	<5	<5	21	<2	<2	5	3	7	315	0.19	<.01	0.78	0.22	<.01	0.03
S9708832	328163	595246	6695217	WA-3	2100	1	2	2B	4	2	2	20	3	B1	4	14	46	<.4	6	65	<1	3	6	2.01	<2	8	<5	<5	20	<2	<2	6	2	7	155	0.13	<.01	0.69	0.25	<.01	0.01
S9708833	328164	595297	6695198	WA-3	2150	1	2	2B	42	2	2	10	4	C	6	29	117	<.4	43	24	<1	3	9	1.16	<2	4	<5	<5	6	<2	<2	61	6	5	600	9.31	<.01	0.28	E17.09	0.01	0.02
S9708834	328165	595348	6695181	WA-3	2200	1	2	BR	4	2	2	20	4	B2	6	34	145	<.4	18	85	<1	5	14	2.69	<2	17	<5	<5	22	<2	<2	5	10	13	785	0.75	0.01	0.97	0.94	<.01	0.02
S9708835	328166	595405	6695172	WA-3	2250	1	2	R	4	2	2	20	4	B1	6	32	97	<.4	18	122	<1	5	11	2.59	<2	13	<5	<5	21	<2	<2	4	7	13	359	0.22	<.01	0.9	0.15	<.01	0.03
S9708836	328167	595456	6695148	WA-3	2300	1	2	BR	4	2	2	25	4	B1	10	43	116	<.4	49	88	<1	6	15	2.98	2	14	<5	<5	21	<2	<2	18	21	19	618	2.16	<.01	0.91	3.66	<.01	0.04
S9708837	328169	595544	6695131	WA-3	2400	1	2	2B	4	2	2	25	3	B1	11	23	67	<.4	<2	60	<1	5	11	1.94	<2	9	<5	<5	12	<2	<2	27	14	12	407	3.74	<.01	0.64	7.38	<.01	0.05
S9708838	328170	595602	6695131	WA-3	2450	1	2	2B	4	2	2	25	4	B1	6	49	113	<.4	5	81	<1	5	11	3.08	2	14	<5	<5	23	<2	<2	7	9	13	497	0.41	<.01	0.97	0.51	<.01	0.03

APPENDIX IV

MEL PROPERTY CLAIMS AND DUE DATES

MEL PROPERTY CLAIMS AND DUE DATES

NAME	CLAIM NO.	DUE DATES
Andy 1	YA72509	April 3/2002
Andy 2	YA72510	April 3/2003
Andy 3	YA72511	April 3/2002
Andy 4	YA72512	Nov.5/1998
Andy 5-8	YA72513-16	April 3/2002
Boz 1-2	YA66985-86	April 3/2003
Boz 3	YA66987	April 3/2002
Boz 4	YA66988	April 3/2003
Chungo 1	YA66946	April 3/2002
Chungo 2-8	YA66947-53	April 3/2003
Dave 1-8	YA72501-08	April 3/2002
Edy 1-4	YA66962-65	April 3/2002
Edy 5	YA66966	April 3/2003
Edy 6	YA66967	April 3/2002
Edy 7	YA66968	April 3/2003
Hose 1-4	YA66919-22	April 3/2002
Hose 5	YA66923	April 3/2006
Hose 6	YA66924	April 3/2002
Hose 7	YA66925	April 3/2006
Hose 8	YA66926	April 3/2002
Jean 1-4	Y 72731	April 3/2007
Jean 5	Y 72961	April 5/2004
Jean 6	Y 72962	April 5/2006
Jean 7	Y 72963	April 5/2004
Jean 8-10	Y 72964-66	April 5/2002
Jean 11	Y 74418	April 3/2005
Jean 12-15	Y 74419-22	April 3/2003
Jean 16	Y 74423	April 3/2004
Jean 17	Y 74424	April 3/2005
Jean 18	Y 74425	April 3/2004
Jean 19	Y 74426	April 3/2005
Jean 20-21	Y 74427-28	April 3/2004
Jeri 1-8	YA66931-38	April 3/2006
Joe 1-2	YA45269-70	April 3/2004
Joni 1-2 Y	A66846-47	April3/2003
Joni 3	YA66848	April 3/2002
Joni 4	YA66849	April 3/2003
Joni 5	YA66850	April 3/2002
Joni 6	YA66851	April 3/2003
Joni 7	YA66852	April 3/2002
Joni 8	YA66853	April 3/2003
Keli 1-4	YA66842-45	April 3/2003
Keli 5-8	YA66927-30	April 3/2003
Mel 11-16	YA22230-35	April 3/2004
Mumbo 1-2	YA66977-78	April 3/2002
Mumbo 3-8	YA66979-84	April 3/2003
Ott 1-8	YA66854-61	April 3/2003
Ralfo 1	YA66939	April 3/2003
Ralfo 2	YA66840	April 3/2002
Ralfo 3	YA66941	April 3/2003
Ralfo 4-5	YA66942-43	April 3/2002
Ralfo 6	YA66944	April 3/2006

Ralfo 7	YA66945	April 3/2002
Sam 1-32	YB46141-72	April 3/2003
Sam 33-35	YB46173-75	April 3/2002
Sam 36-67	YB46176-07	April 3/2003
Sam 68-86	YB46208-26	April 3/2002
Sin 1-6	YA66989-94	April 3/2003
Sin 7-8	YA66995-96	April 3/2002
Sov 1-6	YA28600-05	April 3/2004
Tomi 1-8	YA66969-76	April 3/2003
Wet 1	Y 83309	April 3/2003
Wet 2	Y 83310	April 3/2004
Wet 3	Y 83311	April 3/2003
Wet 4	Y 83312	April 3/2004
Wet 5-8	Y 83313-116	April 3/2003
Wet 9-11	Y 83317-19	April 3/2002
Wet 12-16	Y 83320-24	April 3/2004
Wet 25-32	Y 83325-32	April 3/2003
Yang 1-6	YA66997-02	April 3/2003

CLAIMS STAKED BY COMINCO LTD.

JULY, 1996

NAME	CLAIM NO.	DUE DATES
Silent 1-36	YB85969-86004	July, 1997
Sam 100-113	YB86005-18	July, 1997
Sam 135-152	YB86019-36	July, 1997

APPENDIX V

GEOPHYSICAL EQUIPMENT AND PROCEDURES

GEOPHYSICAL EQUIPMENT AND PROCEDURES

MAGNETIC SURVEY

The instrumentation for the magnetic survey consisted of a pair of GSM-19 magnetometres manufactured by GEM Systems of Ontario. One of these was set up as a recording base station (taking readings every 3 sec.) and the other as a field unit taking measurements at each point of the survey grid. The field magnetometer and base were synchronized so that a field reading was taken at the same instant as a base station record. Readings on the grid were taken every 12.5 metres, which was decreased to every 5 metres in locations where the magnetic response changed rapidly. At the end of a survey day the two units were connected to a computer and the day's data was transferred to the computer memory. Corrections for diurnal magnetic field variations were applied to each survey station value before plots were made. Reading accuracies of $\pm$5 nT were attained for the magnetics survey.

The total field magnetic data is presented in stacked profile form at a scale of 1:2500.

GRAVITY SURVEY

Gravity readings were taken with a LaCoste Romberg gravity meter, Model "G", S/N 494. This unit is sealed, internally pressure compensated, and thermostatically controlled during operation to minimize drift from atmospheric pressure and temperature changes. A base station was established on the grid and by utilizing base station readings (at least 2 per day) all gravity readings were corrected for diurnal drift and levelled to this common base. Gravity readings were corrected for latitude and elevation (including both free-air and Bouguer corrections). The data has been processed for a Bouguer density of 2.67 g/cc.

The elevation survey was carried out with a Nikon D-50 theodolite and Nikon prism reflector. A base station was established near the middle of the gravity line and the gravity stations were surveyed to the end of the line. On the return trip stations were checked at 100 metre intervals finally tying in to the survey base station. Any minor errors were distributed throughout the stations of that loop, resulting in individual station accuracies in the order of 0.05 metres.

With reading variations due to gravity meter reading accuracy and drift, and elevation errors, the overall accuracy of the corrected gravity values is probably in the order of 0.05-0.10 mgals.

INDUCED POLARIZATION SURVEY

A Scintrex IPR12 multi-channel time domain receiver and a IRIS VIP 3000, 3 kw transmitter were used for the I.P./Res. survey. A pole/dipole electrode array was used, with the current electrode oriented with respect to the potential electrodes as shown on the array diagram for each grid. The standard 2 second ON/OFF alternating square wave was transmitted.

The IPR12 receiver determines I.P. response by measuring a number of chargeability windows of specific time widths. The chargeabilities plotted on the accompanying pseudosections are the values for the time interval 120 to 1020 milliseconds after transmitter shutoff.

The resistivity values [R] are in units of ohm-metres [ohm-m] and are calculated from the formula:

$R = \frac{V K}{I}$ where $K = 2\Pi an[n+1]$ $a=25m$, $n=1,2,3,4,5,6$

V = voltage at receiver [volts]

I = transmitter current [amperes]

The survey procedure is described as follows. The transmitter is stationary and connected to the movable current electrode [pair of stainless steel rods] by well insulated wire on small, easily carried spools. The I.P. receiver moves along the line and for each current location is connected to the ground by a nonpolarizing electrode [porous pot containing CuSO4] at points 25, 50, 75, 100, 125, and 150 metres from the current electrode. As the IPR12 is a multi-channel receiver readings of n=1-6 can be taken simultaneously. After a set of readings is taken at a particular current station the whole array moves 25 metres and the process is repeated. This continues until the line is finished. At this point the wire carrying the current has been laid out the full length of the line and must be wound in before the next line can be started.

PRESENTATION OF RESULTS

Reduction and plotting of this data was carried out on Geosoft software . I.P./RES data is presented in pseudosection format at a scale of 1:2500 for each line. The main grid is also displayed in a stacked pseudosection format with separate presentations of chargeability and resistivity.