

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS 105 G/10, 11

1994 ASSESSMENT REPORT

AMP PROPERTY

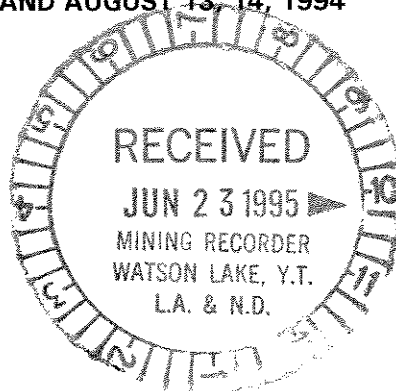
SOIL GEOCHEMISTRY, GEOLOGICAL MAPPING, LINECUTTING AND GROUND GEOPHYSICAL
SURVEYS (HLEM, MAG AND GRAVITY)

WATSON LAKE M.D., YUKON

PELLY MOUNTAINS AREA

WORK PERIOD

JULY 19- 21, 26 AND AUGUST 13, 14, 1994



APRIL, 1995

PAUL A. MacROBBIE

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**1994 ASSESSMENT REPORT
AMP PROPERTY, YUKON TERRITORY**

1. SUMMARY

The AMP property is located south of the Robert Campbell Highway approximately 20 kms west of Finlayson Lake and 85 kms southeast of Ross River.

The property was staked to cover airborne geophysical targets identified during a Cominco survey conducted in early 1994.

The rocks underlying this part of southeastern Yukon have been assigned to 2 terranes: the Yukon-Tanana Terrane (YTT) and the Slide Mountain Terrane. The YTT consists primarily of a layered sequence of metamorphosed rocks comprising a "lower unit" of pre-Devonian quartzite, pelitic schist and minor marble, a late Devonian to mid-Mississippian "middle unit" comprising carbonaceous phyllite and schist with interbanded mafic and, locally significant, felsic metavolcanics, and an "upper unit" of Pennsylvanian marbles and quartzite. Volcanism within the "middle unit" was accompanied by the intrusion of 2-3, late Devonian to Mississippian, mafic to felsic metaplutonic suites. Felsic volcanics of the middle unit are host to Cominco's ABM VHMS deposit.

The property is underlain by mafic metavolcanics and associated sediments of the "middle unit".

No outcrop exposures were found on the property; however, an old Hudson Bay camp and a drill hole was located. Drill chips were sampled from this hole with no interesting results.

Soil geochemistry revealed numerous, scattered, generally weak Cu (51 to 107 ppm; 1 sample returned 490 ppm) anomalies, locally with a good Co-Ni-Ag±Cd metal association. One soil sample returned 309 ppm Zn with coincident 51 ppm Cu and 3.0 ppm Cd. Another single sample returned 37 ppm Pb with coincident 29 ppb Au.

Ground HLEM and Mag and subsequent Gravity surveys suggest the EM/Mag feature has no associated gravity response.

Since no outcrop is exposed on the property and soil geochemistry appears to be hampered by overburden cover, the property's potential must be based on the geophysical anomalies. No further work is recommended.

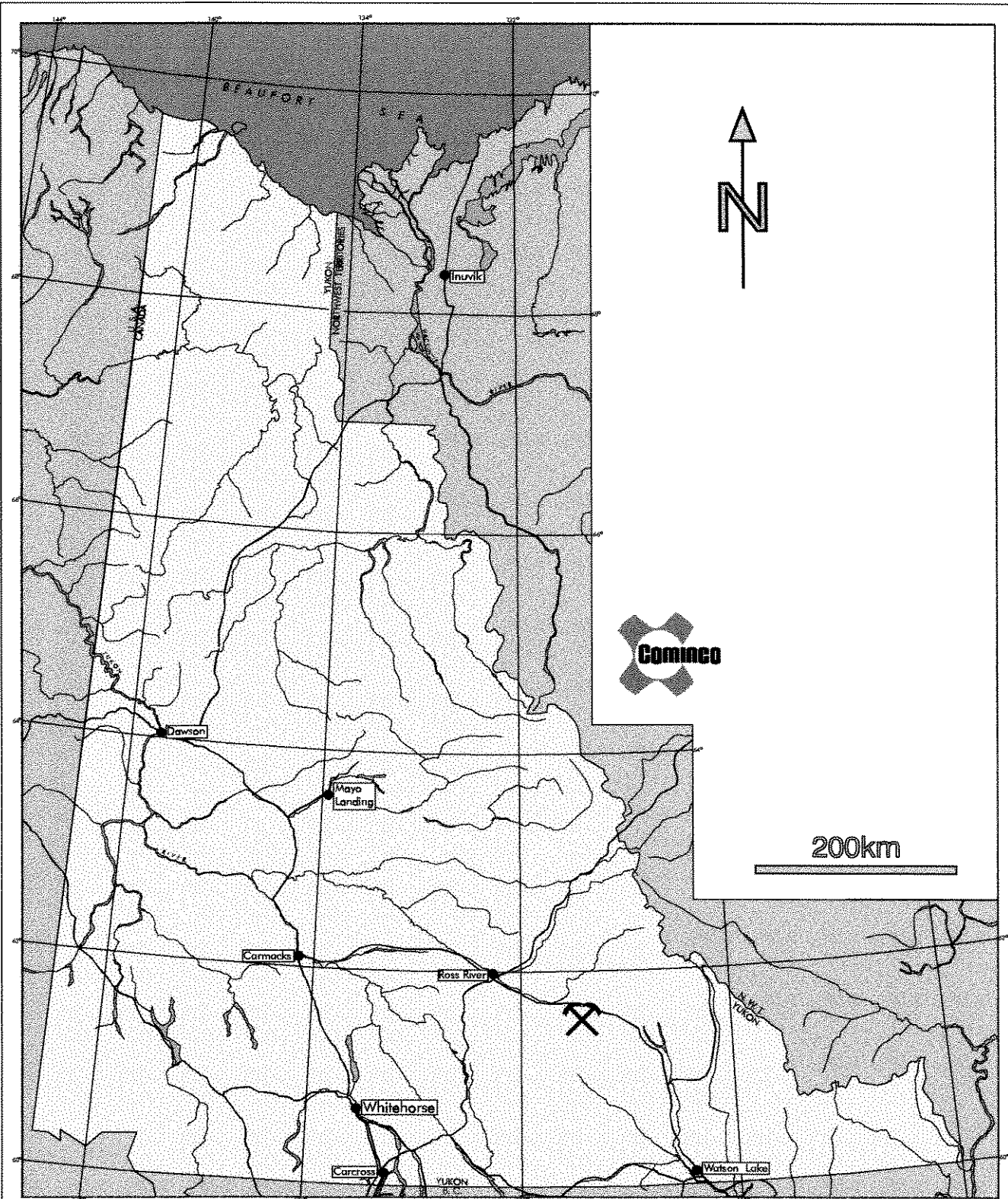
2. LOCATION AND ACCESS

The AMP property is located northeast of the Tintina Fault, between Big Campbell Creek and Mink Creek, approximately 20 kms west of Finlayson Lake and 85 kms southeast of Ross River (Figures 1 and 2). The gravel, all-weather Robert Campbell Highway provides access to within 10 kms of the property. Direct access is by helicopter. An old, overgrown 20 km winter road joins the property to the highway at the Mink Creek crossing.

3. PROPERTY AND OWNERSHIP

The AMP property, totalling 24 units due July 7, 1995 (Figure 2), is 100% owned by Cominco Ltd.

<u>NAME</u>	<u>UNITS</u>	<u>CLAIM NO.</u>	<u>DUE DATES</u>
AMP 1-24	24	YB50935-0958	July 7/95



Drawn by: Traced by: a. m. a.

Revised by: Date: Revised by: Date:

AMP PROPERTY LOCATION

105 G/10, 11

Scale: As Shown

Date: April, 1995

Plate: 1

4. PREVIOUS WORK

No previous work by Cominco has been done in the immediate property area. The property area was previously staked (Minfile #79; Hudson or Bev) in 1974 by Hudson Bay following airborne Em and Mag surveys. Hudson Bay conducted ground EM and Mag surveys and drilled 1 hole totalling 195 m in 1975 and 3 more holes totalling 314 m in 1976. The property was allowed to lapse.

5. 1994 WORK

LINECUTTING

During the period of July 19-21, 1994, a geophysical grid totalling 8.0 line kilometres was cut on the property by Coureur Des Bois Ltd. of Whitehorse, Yukon (Figure 3).

GEOPHYSICAL SURVEYS

Between August 13 and 14, 1994, a total of 6.4 lkms of HLEM, 6.4 lkms of total field MAGNETICS and 1.1 lkms of GRAVITY were surveyed on the grid by a Cominco geophysical crew.

GEOLOGICAL MAPPING

On July 26, 1994, 1:10,000 scale geological mapping and prospecting was carried out by P.W.Ransom (Fig. 3).

GEOCHEMISTRY

A total of 55 soil samples & 1 rock sample were collected. Data is presented in Fig. 3 and Appendix 2.

The soil and rock samples were analyzed for Cu, Pb, Zn, Ag, As, Cd, Co, Ni, Fe, Mo, Cr, Bi, Sb, V, Sn, W, Sr, Y, La, Mn, Mg, Ti, Al, Ca, Na and K by I.C.P., Au by Aqua Regia decomposition/AAS and Ba by XRF at Cominco Exploration Research Laboratory (CERL) in Vancouver.

6. REGIONAL GEOLOGY

The rocks underlying this part of southeastern Yukon have been assigned to 2 terranes: the Yukon-Tanana Terrane (YTT) and the Slide Mountain Terrane (SMT) (Mortensen, 1983a; Mortensen and Jilson, 1985).

The YTT consists primarily of a layered sequence of metamorphosed rocks comprising a "*lower unit*" of pre-Devonian quartzite, pelitic schist and minor marble, a late Devonian to mid-Mississippian "*middle unit*" (3F) comprising carbonaceous phyllite and schist with interbanded mafic and, locally significant, felsic metavolcanics (3G), and an "*upper unit*" of Pennsylvanian marbles and quartzite. Volcanism within the "*middle unit*" was accompanied by the intrusion of 2-3, late Devonian to Mississippian, mafic to felsic metaplutonic suites (Simpson Range suite and augen and monzonitic orthogneisses). This sequence appears to reflect stable platformal or shelf sedimentation with an intervening period of mafic to felsic arc volcanism developed within a more reduced basinal setting.

A subhorizontal to moderately north to northeast dipping, penetrative ductile deformation fabric (S2) and associated middle greenschist facies (chlorite-biotite grade) metamorphism affects all YTT rocks. This fabric reflects the first, and most significant, deformational and metamorphic event (D1) perhaps related to a continent-arc collision during late Permian to early Triassic time.

The late Devonian to Triassic SMT comprises a heterogenous package of mafic to ultramafic plutonic rocks, mafic volcanics, massive carbonate and chert. This sequence was structurally emplaced as thrust bounded klippen on YTT rocks or as thrust slices imbricated within YTT rocks during a period of crustal shortening (D2). The SMT is thought to represent a disrupted oceanic crust and volcanic arc assemblage thought to be located between the YTT and ancestral North America(?).

Late Triassic immature clastics comprising micaceous argillite, siltstone and sandstone unconformably(?) overlie the deformed and metamorphosed YTT rocks. These sediments are often closely associated with SMT volcanics and are invariably in fault contact with YTT rocks.

The SMT, Late Triassic sediments and Late Triassic to Middle Jurassic plutons are all affected by a period of thrust faulting (D2) during the Jurassic.

7. PROPERTY GEOLOGY AND GEOCHEMISTRY

The property is underlain by mafic metavolcanics and associated sediments of the "middle unit".

No outcrop exposures were found on the property (Figure 3). The old Hudson Bay camp and a drill hole was located. Drill chips were sampled from this hole with no interesting results.

Soil geochemistry revealed numerous, scattered, generally weak Cu (51 to 107 ppm; 1 sample returned 490 ppm) anomalies, locally with a good Co-Ni-Ag±Cd metal association. One soil sample returned 309 ppm Zn with coincident 51 ppm Cu and 3.0 ppm Cd. Another single sample returned 37 ppm Pb with coincident 29 ppb Au.


Ground HLEM and Mag and subsequent Gravity surveys suggest the EM/Mag feature has no associated gravity anomaly and is, therefore, of little interest.

8. CONCLUSIONS and RECOMMENDATIONS


Since no outcrop is exposed on the property and soil geochemistry appears to be hampered by overburden cover, the property's potential must be based on the geophysical anomalies. The old Hudson Bay drill hole and the ground HLEM/Mag and Gravity surveys suggesting the EM/Mag feature has no associated gravity response down grades this property.

No further work is recommended.


Report by:


P.A. MacRobbie, P. Geo
Geologist

Endorsed by:


D. Rhodes,
Senior Geologist

Approved for
Release by:


J.M. Hamilton
Manager, Exploration
Western Canada

PAM/

DISTRIBUTION:
W.D. Files
Mining Recorder

- MORTENSEN, J. K., 1983a. AGE AND EVOLUTION OF THE YUKON-TANANA TERRANE, SOUTHEASTERN YUKON TERRITORY [Ph.D. Thesis]; Santa Barbara, University of California, 155 p.
- MORTENSEN, J. K. AND JILSON, G. A., 1985. EVOLUTION OF THE YUKON-TANANA TERRANE : EVIDENCE FROM SOUTHEASTERN YUKON TERRITORY; *Geology*, 13, p. 806-810.


APPENDIX 1
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Paul A. MacRobbie, of 11164 Southridge Rd., Delta, B.C. hereby declare that I:

1. Graduated from Carleton University, Ottawa, Ontario with a B.Sc. in Geology in May, 1986 and a M.Sc. in Geology in June, 1988.
2. Have been actively engaged in mineral exploration in Western Canada as a permanent geologist with Cominco Ltd. since June, 1988.
3. Am a registered member of The Association of Professional Engineers and Geoscientists of the Province of British Columbia.

Date: April 10, 1995



P.A MacROBBIE, P.Ge
GEOLOGIST

APPENDIX 2
1994 GEOCHEMISTRY DATA

AMP PROPERTY GEOCHEM.

LAB NO	FIELD NUMBER	Au ppb	Wt Au gram	Ba ppm
R9410503	R94450	<10	5	2059

I=insufficient sample X=small sample E=exceeds calibration C=being checked R=revised
 If requested analyses are not shown ,results are to follow

ANALYTICAL METHODS

- Au Aqua regia decomposition / solvent extraction / AAS
- Wt Au The weight of sample taken to analyse for gold (geochem)
- Ba X-Ray fluorescence / loose powder

LAB NO	FIELD NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Ba ppm	Cd ppm	Co ppm	Ni ppm	Fe %	Mo ppm	Cr ppm	Bi ppm
R9410503	R94450	106	17	178	.6	74	148	1	25	60	4.87	8	73	<5

Sb ppm	V ppm	Sn ppm	W ppm	Sr ppm	Y ppm	La ppm	Mn ppm	Mg %	Ti %	Al %	Ca %	Na %	K %
<5	20	5	153	24	7	11	389	.75	<.01	1.73	.29	.01	.13

ANALYTICAL METHODS

ICP PACKAGE :0.5 gram sample digested in hot reverse aqua regia (soil,silt) or hot Aqua Regia(rocks).

Property	LabNo	FieldNo	S	M	O	S	Co	Sz	O	W	Dph	WS	F/W	P	Cu	Pb	Zn	Ag	As	Ba(fcp)	Cd	Co	Ni	Fe	Mo	Cr	Bi	Sb	V	Sn	W	Sr	Y	La	Mn	Mg	Ti	Al	Ca	Na	K	Au	Wt	Ba(xrf)	
Amp	S9416690	241800	5	1	5	2	BG	35	2	2	35	2	B2	**	18	15	74	0.2	14	244	1	15	46	2.52	1	38	2	2	32	2	1	19	7	11	336	0.68	0.01	1.30	0.33	0.01	0.06	5	10	1791	
Amp	S9416691	241801	5	1	5	2	2B	23	2	1	30	2	B2	**	7	37	57	0.2	6	117	1	6	27	1.83	1	34	2	2	36	1	1	13	5	8	145	0.66	0.06	1.10	0.31	0.01	0.07	29	10	1215	
Amp	S9416692	241802	5	1	5	2	BG	35	3	2	30	2	B1	**	10	2	54	0.5	6	182	1	4	10	1.76	1	10	2	2	21	1	1	37	6	7	203	0.73	0.16	1.25	0.83	0.03	0.15	5	10	1238	
Amp	S9416693	241803	5	1	5	2	BG	15	2	2	40	2	B2	**	24	15	91	0.2	3	108	1	11	64	2.51	1	43	2	2	43	1	1	19	11	15	280	1.00	0.09	1.28	0.50	0.02	0.16	5	10	1534	
Amp	S9416694	241804	5	1	5	2	3K	35	3	2	45	2	A2	**	13	2	73	0.2	4	184	1	6	14	0.44	1	4	2	2	5	1	1	117	2	4	1003	0.44	0.01	0.48	2.72	0.03	0.03	5	10	683	
Amp	S9416695	241805	5	1	5	2	3K	35	3	3	50	1	A2	**	4	2	14	0.2	2	61	1	1	1	0.15	1	2	2	2	2	1	1	31	1	2	102	0.08	0.01	0.24	0.58	0.06	0.02	5	10	1143	
Amp	S9416696	241806	5	1	5	2	2B	35	3	2	45	1	A2	**	21	2	49	0.2	6	168	1	3	12	0.74	2	2	2	2	5	1	1	82	3	4	783	0.22	0.01	0.46	1.89	0.03	0.01	5	10	797	
Amp	S9416697	241807	5	1	5	2	BR	35	3	2	35	2	B1	**	7	2	16	0.2	1	89	1	1	1	0.11	1	2	2	2	2	2	1	35	1	2	617	0.11	0.01	0.24	0.82	0.05	0.01	5	10	1044	
Amp	S9416698	241808	5	1	5	2	2G	15	3	2	35	1	B2	**	38	10	65	0.2	12	158	1	15	33	2.65	2	26	2	2	22	1	2	78	11	16	1040	0.83	0.01	1.02	4.02	0.02	0.05	5	10	1653	
Amp	S9416699	241809	5	1	5	2	3K	35	3	2	45	2	Z	**	11	2	51	0.2	1	211	1	1	7	0.34	1	2	2	2	6	1	1	153	2	2	222	0.52	0.01	0.34	3.67	0.02	0.02	5	9	488	
Amp	S9416700	241810	5	1	5	2	2G	23	1	2	30	2	B2	**	10	10	50	0.2	10	208	1	7	21	1.88	1	26	2	2	32	4	1	17	6	9	147	0.59	0.03	1.09	0.38	0.01	0.05	5	10	1695	
Amp	S9416701	241811	5	1	5	2	BK	23	3	2	45	2	A2	**	7	2	17	0.2	1	246	1	2	3	0.23	1	2	2	2	4	1	1	41	1	2	1737	0.05	0.01	0.38	0.78	0.04	0.02	5	10	1385	
Amp	S9416702	241812	5	1	5	2	3K	35	2	2	45	2	B1	**	27	7	40	0.2	1	808	1	5	22	0.67	2	6	2	2	6	1	1	133	9	9	758	0.21	0.01	0.58	3.17	0.02	0.01	5	10	1940	
Amp	S9416703	241813	5	1	5	2	2G	23	2	1	30	1	B2	**	6	6	44	0.2	12	183	1	2	10	1.08	1	16	2	2	28	1	1	16	2	7	89	0.25	0.01	0.52	0.31	0.01	0.05	5	10	1717	
Amp	S9416704	241814	5	1	5	2	1B	23	1	1	30	1	B2	**	8	9	34	0.2	8	87	1	3	7	1.03	1	8	2	2	27	1	1	5	1	5	361	0.10	0.01	0.49	0.04	0.01	0.04	5	10	1362	
Amp	S9416705	241815	5	1	5	2	BR	23	1	1	30	1	B2	**	7	10	47	0.4	10	92	1	4	11	1.99	1	19	2	2	46	2	1	3	2	5	389	0.22	0.02	0.91	0.04	0.01	0.05	5	10	1242	
Amp	S9416706	241816	5	1	5	2	2B	23	2	1	30	2	B2	**	6	4	26	0.2	2	58	1	1	5	0.64	1	10	2	2	20	1	1	4	1	4	58	0.08	0.01	0.45	0.03	0.02	0.04	5	10	1293	
Amp	S9416707	241817	5	1	5	2	BG	23	1	1	30	2	B2	**	12	10	50	0.2	4	388	1	3	8	1.34	1	13	2	2	29	1	1	25	3	6	318	0.18	0.01	0.70	0.39	0.02	0.05	5	10	1805	
Amp	S9416708	241818	5	1	5	2	3K	23	1	1	35	2	B2	**	62	7	37	0.6	4	719	1	3	39	1.19	1	13	2	2	12	2	1	126	24	14	276	0.25	0.01	0.93	2.68	0.02	0.01	5	10	1803	
Amp	S9416709	241819	5	1	5	2	KG	25	2	2	35	2	B2	**	20	13	100	0.5	10	308	1	7	15	1.18	1	16	2	2	21	1	1	75	9	8	876	0.36	0.01	0.75	1.50	0.02	0.04	5	10	1574	
Amp	S9416710	241820	5	1	5	2	GK	35	2	1	35	2	B1	**	20	8	46	0.4	3	286	1	4	16	0.94	2	9	2	2	13	1	2	148	11	13	359	0.25	0.01	0.81	2.42	0.02	0.03	5	10	1323	
Amp	S9416711	241821	5	1	5	2	GK	35	3	2	50	2	A2	**	13	2	45	0.2	3	186	1	1	6	0.30	1	2	2	2	4	1	1	129	3	4	266	0.16	0.01	0.40	2.09	0.04	0.03	5	10	1064	
Amp	S9416712	241822	5	1	5	2	3K	35	2	2	30	2	B1	**	490	8	28	1.0	6	1002	4	15	101	1.43	3	24	2	6	27	2	1	146	127	31	1281	0.26	0.01	1.15	4.24	0.01	0.01	5	10	1931	
Amp	S9416713	241823	5	1	5	2	3K	23	3	2	35	1	B1	**	16	2	13	0.2	2	262	1	1	5	0.28	1	2	2	2	2	2	1	2	37	7	6	44	0.05	0.01	0.38	0.82	0.04	0.03	5	10	1496
Amp	S9416714	241824	5	1	5	2	2B	23	1	1	35	1	B2	**	27	11	68	0.2	8	213	1	9	45	2.09	1	35	2	2	29	2	1	17	13	19	359	0.66	0.02	1.18	0.29	0.01	0.05	5	10	1816	
Amp	S9416715	241825	5	1	5	2	2B	23	3	2	40	1	A2	**	3	2	8	0.2	2	31	1	1	1	0.12	1	2	2	2	1	2	1	9	1	1	25	0.01	0.01	0.26	0.07	0.03	0.02	5	10	1164	
Amp	S9416716	241826	5	1	5	2	2B	23	2	2	35	1	B2	**	8	2	9	0.2	1	80	1	1	3	0.21	1	2	2	2	3	1	1	10	1	3	12	0.02	0.01	0.37	0.06	0.03	0.02	5	10	1232	
Amp	S9416717	241827	5	1	5	2	2K	25	3	2	40	1	B1	**	22	2	15	0.2	5	443	1	2	10	0.75	1	2	2	2	5	2	1	117	3	3	8	0.07	0.01	0.47	2.42	0.02	0.01	5	10	982	
Amp	S9416718	241828	5	1	5	2	3K	25	3	2	40	2	B1	**	10	2	24	0.2	1	224	1	1	6	0.16	1	2	2	2	2	1	1	53	1	2	895	0.06	0.01	0.30	1.02	0.05	0.02	5	10	1327	
Amp	S9416719	241829	5	1	5	2	BG	23	2	2	35	2	B2	**	24	14	93	0.2	13	300	1	7	28	1.87	1	25	2	2	29	2	1	54	15	17	524	0.55	0.04	0.95	1.14	0.02	0.06	18	10	1710	
Amp	S9416720	241830	5	1	5	2	BG	35	2	2	45	2	B2	**	11	15	90	0.2	5	162	1	4	16	1.50	1	25	2	2	30	1	1	24	7	9	123	0.58	0.04	0.92	0.48	0.01	0.07	5	10	1704	
Amp	S9416721	241831	5	1	5	2	3K	45	2	2	45	2	A2	**	54	16	121	0.5	2	382	2	5	30	0.93	1	12	2	2	15	1	1	81	16	18	1483	0.39	0.01	0.75	1.79	0.03	0.05	5	10	1546	
Amp	S9416722	241832	5	1	5	2	BG	35	1	2	35	2	B2	**	12	33</																													

APPENDIX 3
STATEMENT OF EXPENDITURES

AMP PROPERTY

STAFF COSTS	717
DOMICILE	327
LINECUTTING	4,000
HELICOPTER	2,592
GEOPHYSICS	3,822
HELICOPTER	1,440
GEOCHEMISTRY	956
HELICOPTER	720
COMMUNICATIONS	38
TRUCK RENTAL	80
FREIGHT	248
EXPEDITING	50
DRAFTING	240
TOTAL	15,230

APPENDIX 4:
GEOPHYSICAL TARGET EVALUATION & FIGURES

PELLY MTN - GEOPHYSICAL TARGET EVALUATION

TARGET NAME: E10 NTS: 105G/10NW

CLAIMS: AMP

GEOLOGY:

No outcrop exposures were found on the property. An old Hudson Bay camp and drill hole were located on the claims, and sampling of drill chips produced no interesting results. Soil geochemistry indicated the presence of several scattered weak Cu (51-107 ppm, one @ 490 ppm) values, with good Co-Ni-Ag±Cd association. Also some anomalous Zn (309 ppm) with coincident Cu (51 ppm) and Cd (3 ppm), and another with 37 ppm Pb and coincident 29 ppb Au.

GEOPHYSICS:

<u>SURVEY</u>	<u>KMS</u>	<u>DATES</u>
HLEM	3.2	Aug. 13
MAGNETICS	3.2	Aug. 13
GRAVITY	1.1	Aug. 14

Target E10 is a broad 300 m wide conductive zone, outlined on the central 2 lines of the grid, i.e., L-200E and L-400E, and separating into weaker narrow conductors to the east on L-600E. The conductive unit ends abruptly to the west between L-200E and L-00. The conductive zone appears to consist of 2 main conductors with conductances ranging from 9-15 S, and depths of 5-10 m. There is no direct magnetic correlation, but a narrow magnetic feature to the south, with local peaks of 100-400 nT stands out in an area of generally quiet magnetics. A gravity survey along L-400E showed that there is no positive increased density associated with the conductors.

CONCLUSIONS:

Though the target has some associated geochem values, the lack of exposure in the area, and lack of magnetics and positive gravity response associated with the conductor downgrades the target substantially. The shallow nature of the conductive responses and the lack of gravity signature indicates that the source is not massive sulphides.

RECOMMENDATIONS:

No further work is recommended on this target.

EQUIPMENT AND PROCEDURES

a) MAGNETICS

The magnetics survey was carried out with the EDA OMNI PLUS system. Total field measurements were recorded, utilizing the same grid lines as the UTEM survey, though a denser station spacing of 12.5 m was used. Data is recorded and stored within the magnetometer's internal memory, and dumped to a computer in the evenings. A base station magnetometer was set up in camp and set to record at 15 second intervals throughout the day.

The base station and field units were linked and dumped to the computer simultaneously at the end of the day. Computer processing of the data allows diurnal magnetic variations to be removed from the field data. Reading accuracies of ± 5 nT were attained for the magnetics survey.

b) HORIZONTAL LOOP EM

The HLEM portion of the survey utilized the MaxMin I system with the MMC data logger, produced by Apex Parametrics Ltd. Grid lines were routinely surveyed with a 100 m coil spacing, though 50 m and 25 m coil spacings were also utilized on selected lines over the ABM Zone. Readings for three frequencies (440 Hz, 1760 Hz, and 3520 Hz) were taken at 25 m intervals (12.5 m for 50 m c.s., 6.25 m for 25 m c.s.). A reading accuracy of $\pm 0.5\%$ was attained for both the in-phase and quadrature components of the secondary electromagnetic field. The data recorded by the MMC was transferred to a portable computer at the end of each survey day, from which it was processed and plotted.

c) GRAVITY

A Lacoste & Romberg Model 'G' gravity meter was utilized in the survey, and the gravity readings are corrected for latitude and elevation (including both free-air and Bouguer corrections). The gravity data is processed for a Bouguer density of 2.67 g/cc. A Base Station was established on each grid, and by utilizing the base station readings (at least 2 per day) all gravity readings were corrected for diurnal drift and levelled to this common base.

A Nikon D-50 Total Station survey instrument was used to provide

the elevation data for the gravity corrections. A base station was established, typically near the middle of the gravity line, and the gravity stations were surveyed at 25m intervals, tying into several stations on the return trip plus the initial 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.

The results of the gravity survey are presented at a scale of 1:5,000 as profiles of the Bouguer gravity data, along with the topographic profiles, for a Bouguer density of 2.67 gm/cc. The Bouguer gravity data is plotted at a vertical scale of 1 cm = 0.25 mgals and the topography at an exaggerated vertical scale of 1 cm = 5 m.

DATA PRESENTATION

MAGNETICS

The total field magnetic data are presented in both profile and contour formats, on 1:2,500 plan maps. The total field profiles are plotted at a vertical scale of 1 cm = 250 nT for each grid area. The magnetics contour map of the ABM Zone is plotted with a contour interval of 50 nT.

HORIZONTAL LOOP EM

The HLEM data are presented on 1:2,500 in profile plots, one for each of the three frequencies recorded (440, 1760, and 3520 Hz). A vertical scale of 1 cm = 20% was used for the HLEM profiles.

GRAVITY

The gravity data are also plotted in profile form, along with the topographic profile, at a horizontal scale of 1:2500. The gravity reductions are calculated for a Bouguer density of 2.67 gm/cc, and profiles are presented at a vertical scale of 1 cm = 0.25 milligals, and topography at a scale of 1 cm = 20 m (5X vertical exaggeration).

PELLY MTN - GEOPHYSICAL TARGET EVALUATION

TARGET NAME: E10A NTS: 105G/10NW

CLAIMS: AMP

GEOLOGY:

No outcrop exposures were found on the property. An old Hudson Bay camp and drill hole were located on the claims, and sampling of drill chips produced no interesting results. Soil geochemistry indicated the presence of several scattered weak Cu (51-107 ppm, one @ 490 ppm) values, with good Co-Ni-Ag±Cd association. Also some anomalous Zn (309 ppm) with coincident Cu (51 ppm) and Cd (3 ppm), and another with 37 ppm Pb and coincident 29 ppb Au.

GEOPHYSICS:

<u>SURVEY</u>	<u>KMS</u>	<u>DATES</u>
HLEM	3.2	Aug. 13
MAGNETICS	3.2	Aug. 13
GRAVITY		

Target E10A is a moderate strength HLEM conductor, mainly evident on the two western lines of the grid, i.e., L-1000E and L-1200E, with a weak trace to L-1400E. The conductor occurs at moderate depth (10-20 m) and has conductances of 12S and 21S on L-1000E and L-1200E respectively. There is very little magnetic relief on the grid, and none associated with the conductor. No gravity test was done on this target since it appears to have been previously drill tested.

CONCLUSIONS:

Although the E10 conductor has a reasonable conductance, the absence of a direct magnetic signature downgrades the target somewhat. It appears that the Hudson Bay drilling tested this conductor and so there was little incentive to carry out any additional work to further test this target.

RECOMMENDATIONS:

No further work is recommended on this target.

EQUIPMENT AND PROCEDURES

a) MAGNETICS

The magnetics survey was carried out with the EDA OMNI PLUS system. Total field measurements were recorded, utilizing the same grid lines as the UTEM survey, though a denser station spacing of 12.5 m was used. Data is recorded and stored within the magnetometer's internal memory, and dumped to a computer in the evenings. A base station magnetometer was set up in camp and set to record at 15 second intervals throughout the day.

The base station and field units were linked and dumped to the computer simultaneously at the end of the day. Computer processing of the data allows diurnal magnetic variations to be removed from the field data. Reading accuracies of ± 5 nT were attained for the magnetics survey.

b) HORIZONTAL LOOP EM

The HLEM portion of the survey utilized the MaxMin I system with the MMC data logger, produced by Apex Parametrics Ltd. Grid lines were routinely surveyed with a 100 m coil spacing, though 50 m and 25 m coil spacings were also utilized on selected lines over the ABM Zone. Readings for three frequencies (440 Hz, 1760 Hz, and 3520 Hz) were taken at 25 m intervals (12.5 m for 50 m c.s., 6.25 m for 25 m c.s.). A reading accuracy of $\pm 0.5\%$ was attained for both the in-phase and quadrature components of the secondary electromagnetic field. The data recorded by the MMC was transferred to a portable computer at the end of each survey day, from which it was processed and plotted.

c) GRAVITY

A Lacoste & Romberg Model 'G' gravity meter was utilized in the survey, and the gravity readings are corrected for latitude and elevation (including both free-air and Bouguer corrections). The gravity data is processed for a Bouguer density of 2.67 g/cc. A Base Station was established on each grid, and by utilizing the base station readings (at least 2 per day) all gravity readings were corrected for diurnal drift and levelled to this common base.

A Nikon D-50 Total Station survey instrument was used to provide

the elevation data for the gravity corrections. A base station was established, typically near the middle of the gravity line, and the gravity stations were surveyed at 25m intervals, tying into several stations on the return trip plus the initial 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.

The results of the gravity survey are presented at a scale of 1:5,000 as profiles of the Bouguer gravity data, along with the topographic profiles, for a Bouguer density of 2.67 gm/cc. The Bouguer gravity data is plotted at a vertical scale of 1 cm = 0.25 mgals and the topography at an exaggerated vertical scale of 1 cm = 5 m.

DATA PRESENTATION

MAGNETICS

The total field magnetic data are presented in both profile and contour formats, on 1:2,500 plan maps. The total field profiles are plotted at a vertical scale of 1 cm = 250 nT for each grid area. The magnetics contour map of the ABM Zone is plotted with a contour interval of 50 nT.

HORIZONTAL LOOP EM

The HLEM data are presented on 1:2,500 in profile plots, one for each of the three frequencies recorded (440, 1760, and 3520 Hz). A vertical scale of 1 cm = 20% was used for the HLEM profiles.

GRAVITY

The gravity data are also plotted in profile form, along with the topographic profile, at a horizontal scale of 1:2500. The gravity reductions are calculated for a Bouguer density of 2.67 gm/cc, and profiles are presented at a vertical scale of 1 cm = 0.25 milligals, and topography at a scale of 1 cm = 20 m (5X vertical exaggeration).

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS 105 G/10, 11

1994 ASSESSMENT REPORT

AMP PROPERTY

SOIL GEOCHEMISTRY, GEOLOGICAL MAPPING, LINECUTTING AND GROUND GEOPHYSICAL
SURVEYS (HLEM, MAG AND GRAVITY)

WATSON LAKE M.D., YUKON

PELLY MOUNTAINS AREA

LAT: 69°39'

LONG: 131°100'

WORK PERIOD

JULY 19- 21, 26 AND AUGUST 13, 14, 1994

APRIL, 1995

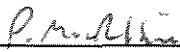
PAUL A. MacROBBIE

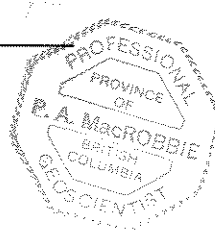
STATEMENT OF QUALIFICATIONS

I, Paul A. MacRobbie, of 11164 Southridge Rd., Delta, B.C. hereby declare that I:

1. Graduated from Carleton University, Ottawa, Ontario with a B.Sc. in Geology in May, 1986 and a M.Sc. in Geology in June, 1988.
2. Have been actively engaged in mineral exploration in Western Canada as a permanent geologist with Cominco Ltd. since June, 1988.
3. Am a registered member of The Association of Professional Engineers and Geoscientists of the Province of British Columbia.

Date: April 10, 1995


P.A MacROBBIE, P.Ge
GEOLOGIST



MAP NO:105G/10,11

ASSESSMENT REPORT: X

DOCUMENT NO: 093329

PROSPECTUS:

MINING DISTRICT: Watson Lake

CONFIDENTIAL: X

TYPE OF WORK:Geology,
geochem, geophysics

OPEN FILE:

REPORT FILED UNDER: Cominco Ltd

DATE PERFORMED:July, August 1994

DATE FILED:June 23, 1995

LATITUDE:69 39

AREA:Pelly Mountains

LONGITUDE:131 00

VALUE:\$12000

CLAIM NAME AND #:Amp 1-24

WORK DONE BY:Paul MacRobbie

WORK DONE FOR:Cominco Ltd.

DATE TO GOOD STANDING	REMARKS:Several weak Cu geochem anomalies were identified.

900N —
800N —
700N —
600N —
500N —
400N —
300N —
200N —
100N —
0 —
100S —

L 0

L 200 E

L 400 E

L 600 E

L 0

L 200 E

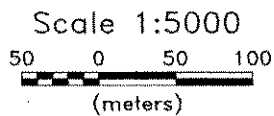
L 400 E

L 600 E



Vertical Scales:

- In Phase - 1cm = 20%
- Quadrature - 1cm = 20%



COMINCO EXPLORATION

TAG PROPERTY
E10 GRID
HORIZONTAL LOOP EM

440 Hz
100m cs

COMINCO GEOPHYSICS

900N —
800N —
700N —
600N —
500N —
400N —
300N —
200N —
100N —
0 —
100S —

L 0

L 200 E

L 400 E

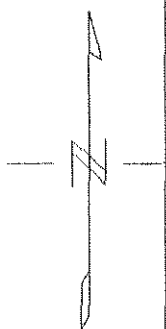
L 600 E

L 0

L 200 E

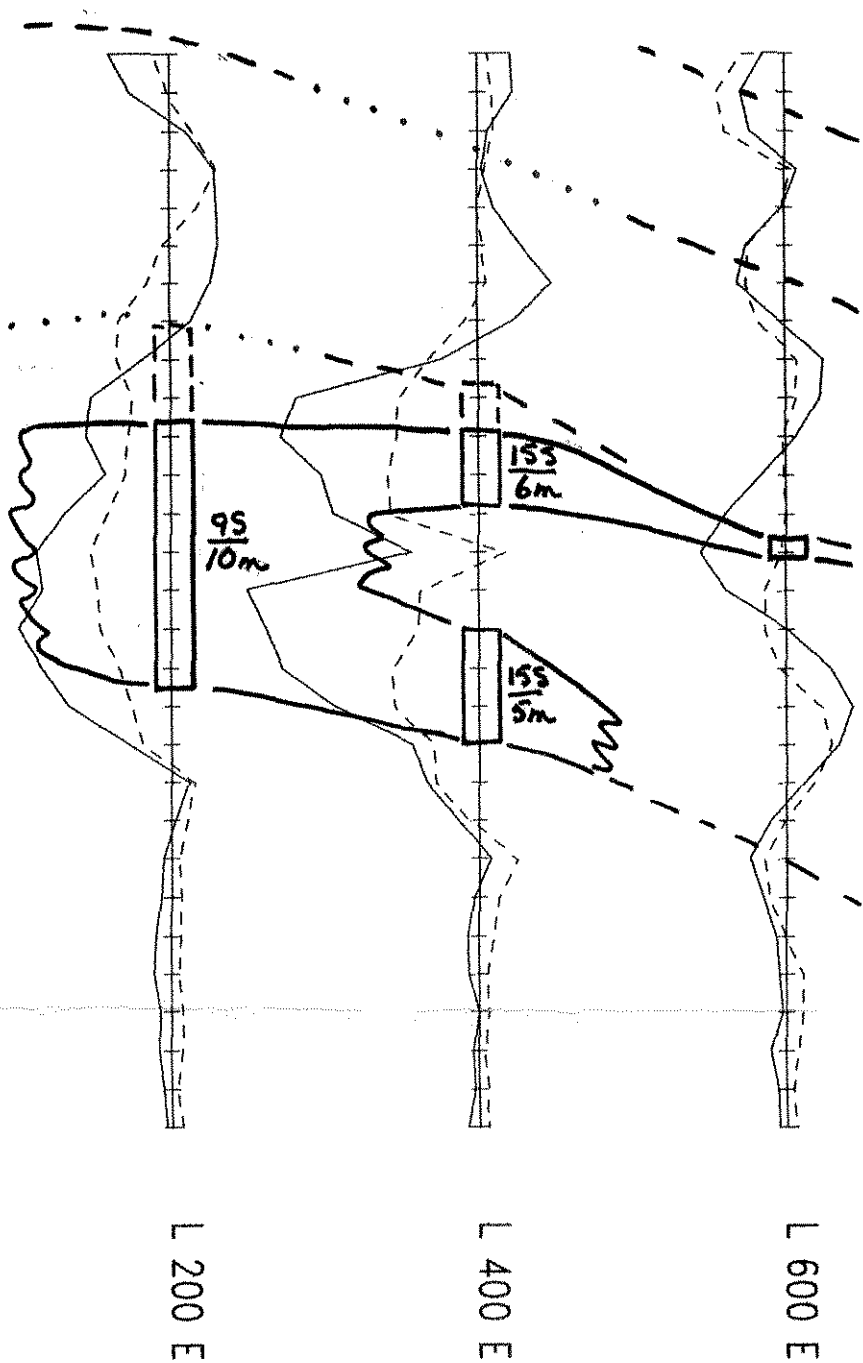
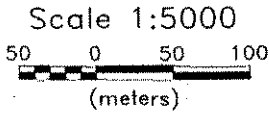
L 400 E

L 600 E



Vertical Scales:

- In Phase — 1cm = 20%
- Quadrature -- 1cm = 20%



COMINCO EXPLORATION
TAG PROPERTY E10 GRID HORIZONTAL LOOP EM
1760 Hz 100m cs
COMINCO GEOPHYSICS

900N —
800N —
700N —
600N —
500N —
400N —
300N —
200N —
100N —
0 —
100S —

L 0

L 200 E

L 400 E

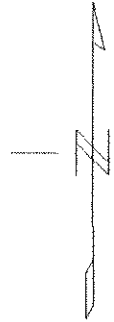
L 600 E

L 0

L 200 E

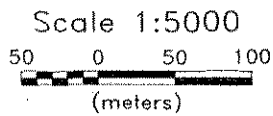
L 400 E

L 600 E

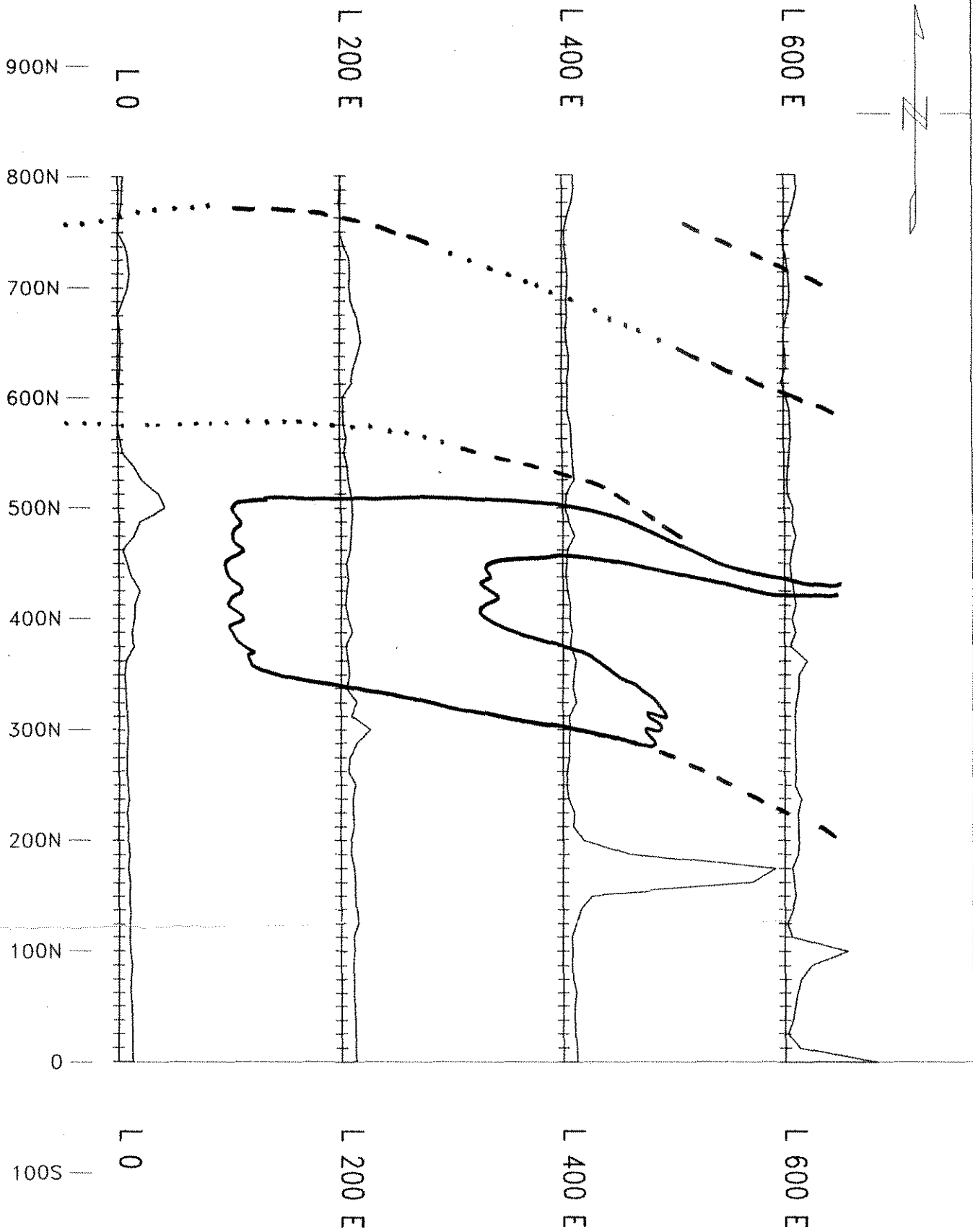


Vertical Scales:

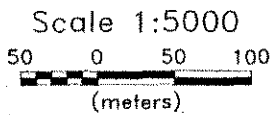
- In Phase - 1cm = 20%
- Quadrature - 1cm = 20%



COMINCO EXPLORATION
TAG PROPERTY E10 GRID HORIZONTAL LOOP EM
3520 Hz 100m cs
COMINCO GEOPHYSICS



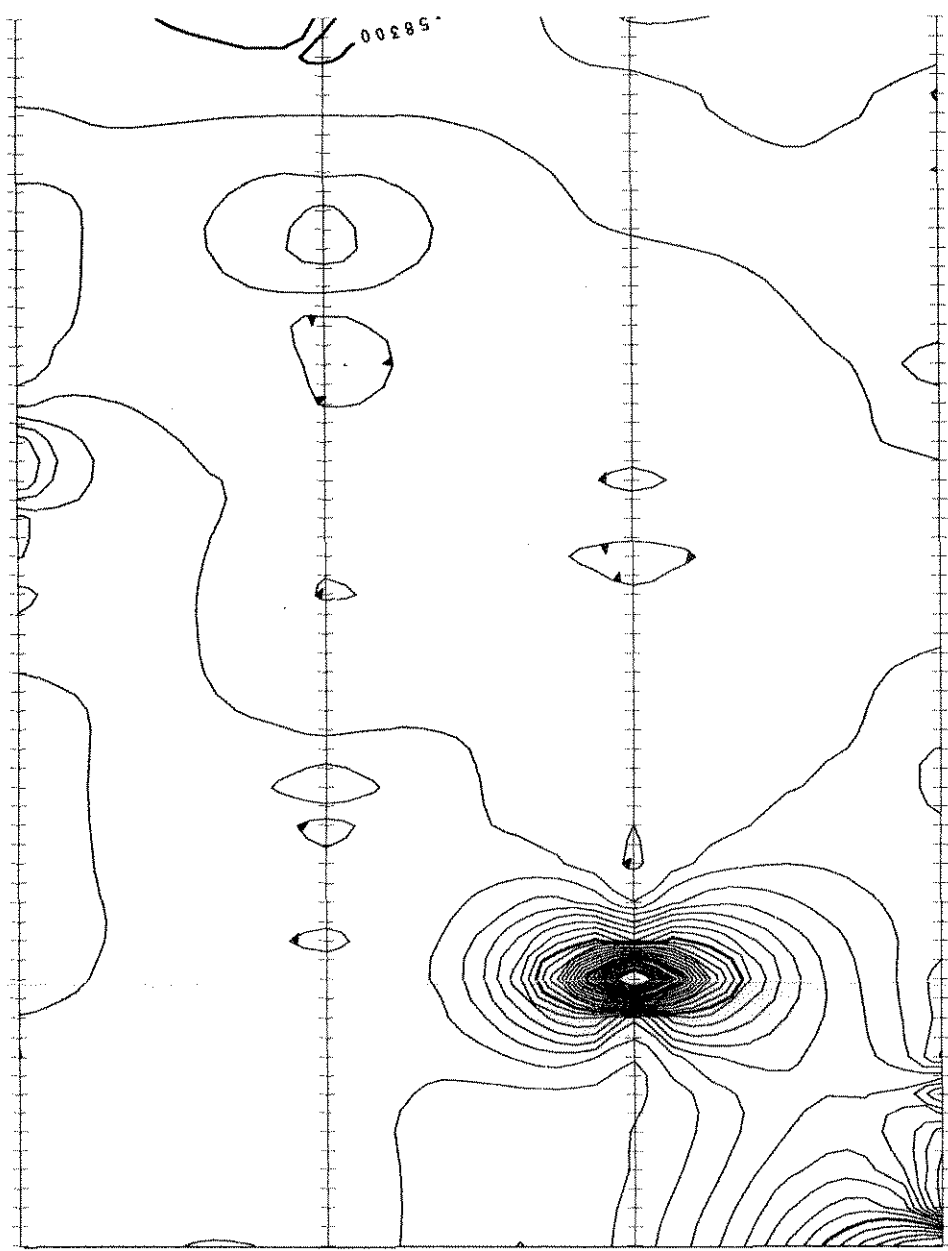
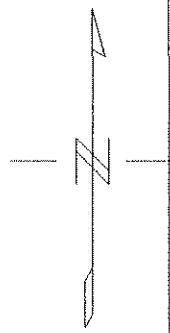
Vertical Scale: 1cm = 100nT



COMINCO EXPLORATION
TAG PROPERTY E10 GRID TOTAL FIELD MAGNETICS
COMINCO GEOPHYSICS

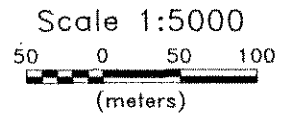
900N — 100W 0 100E 200E 300E 400E 500E 600E

800N —
700N —
600N —
500N —
400N —
300N —
200N —
100N —
0 —

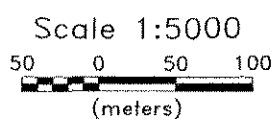
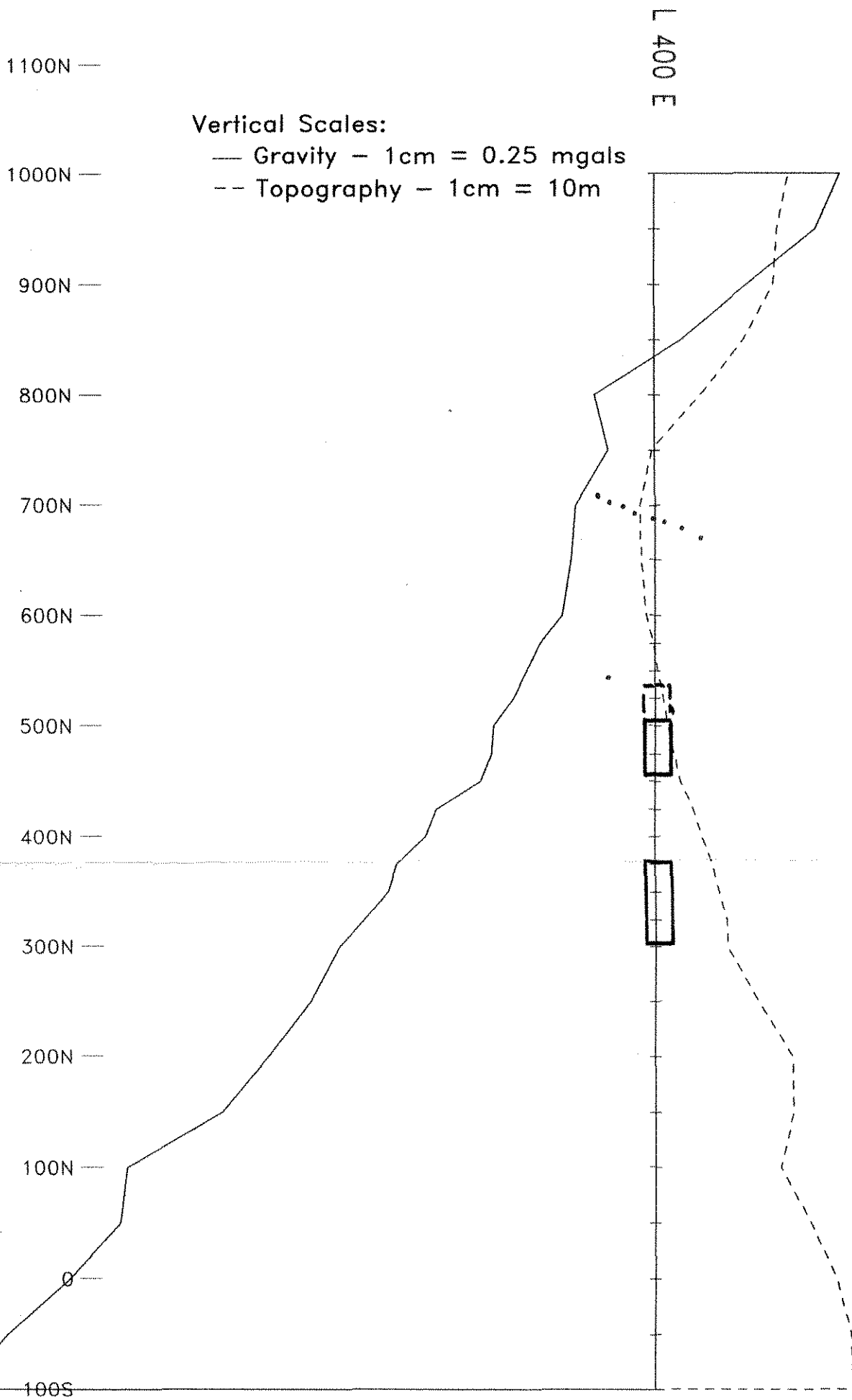


100S — 100W 0 100E 200E 300E 400E 500E 600E

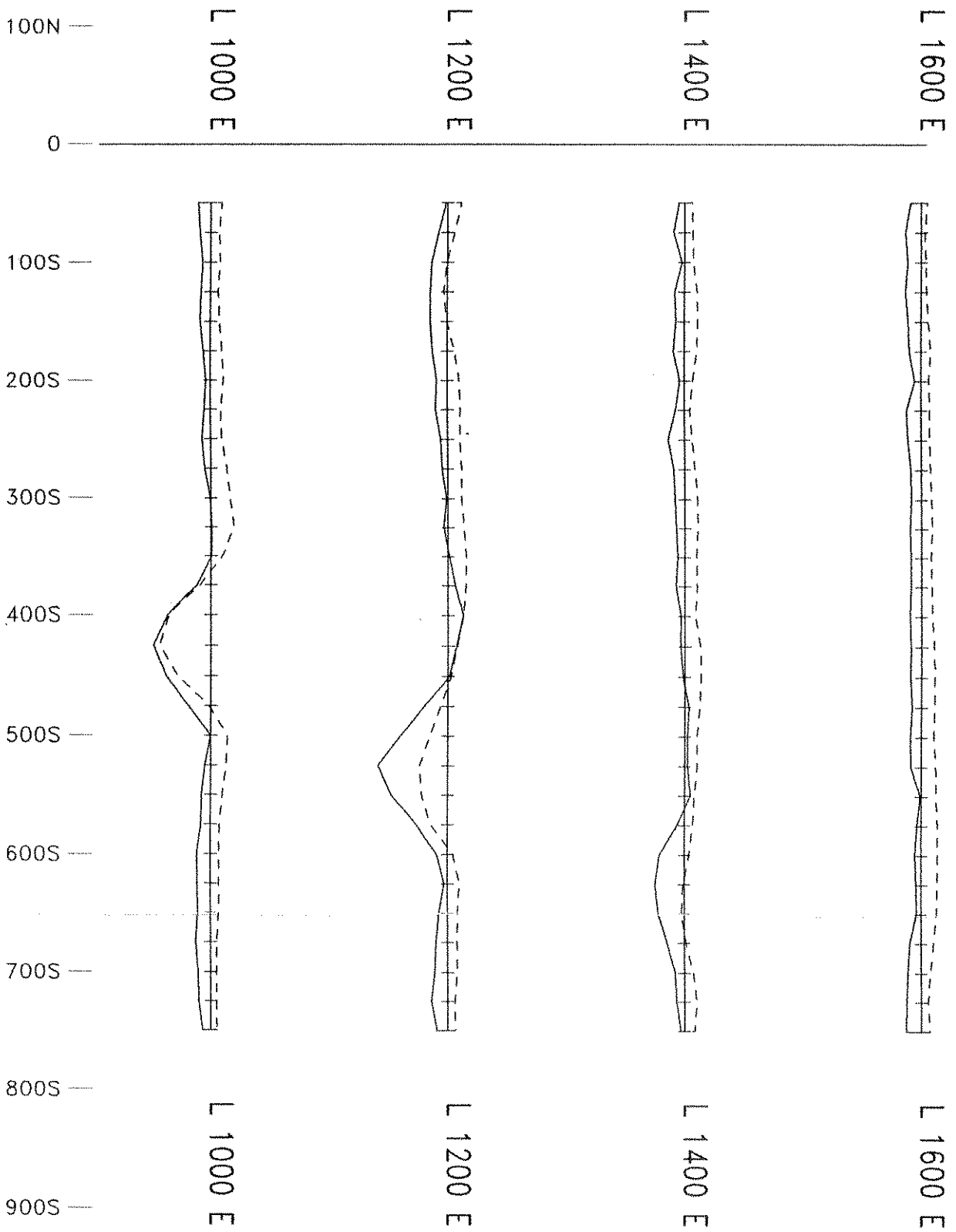
Contour Interval: 10nT



COMINCO EXPLORATION
TAG PROPERTY E10 GRID TOTAL FIELD MAGNETICS
COMINCO GEOPHYSICS

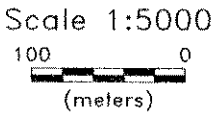


COMINCO EXPLORATION	
TAG PROPERTY E10 GRID BOUGUER GRAVITY	
Density = 2.67 L-400E	093329
COMINCO GEOPHYSICS	

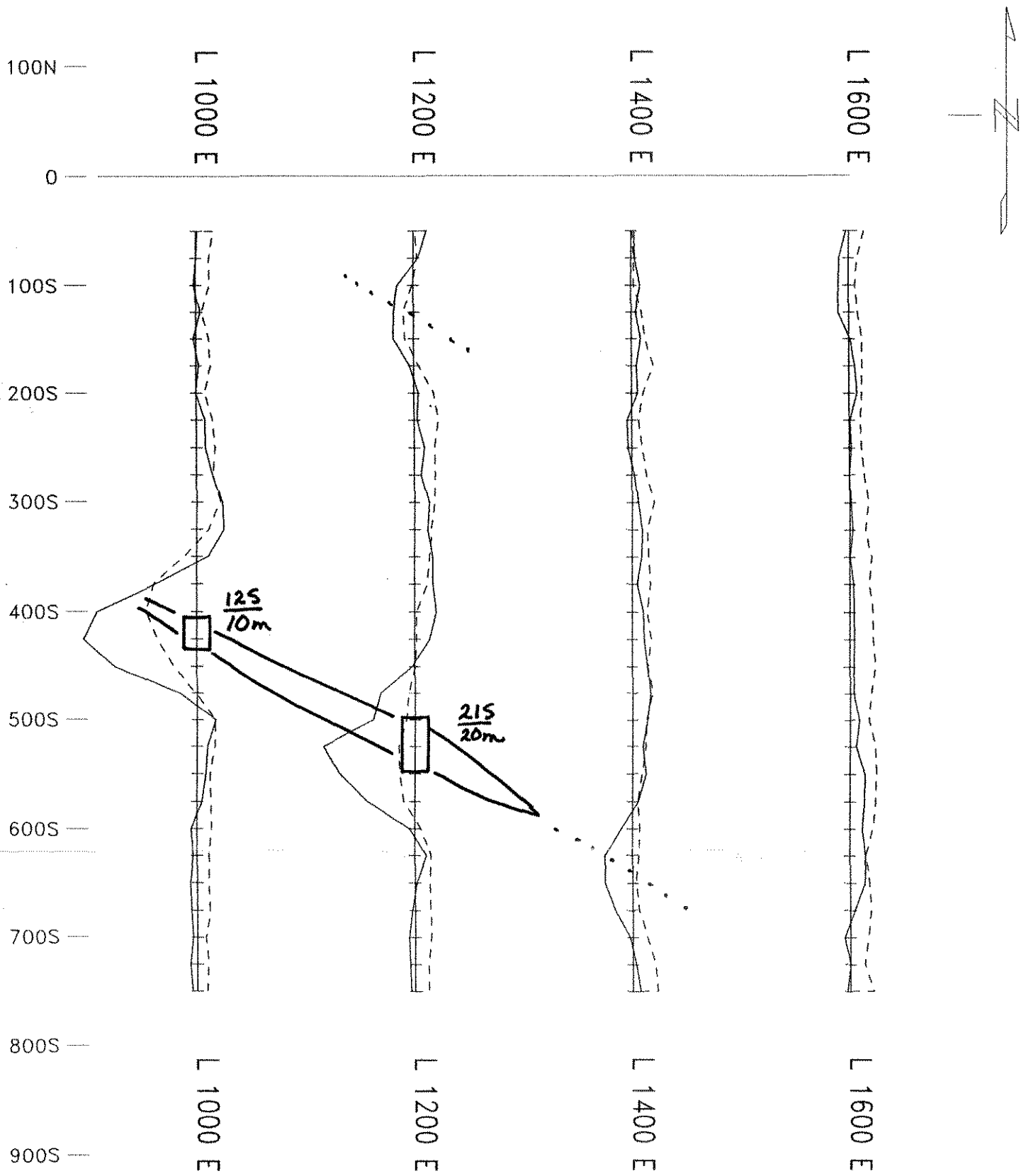


Vertical Scales:

- In Phase — 1cm = 20%
- Quadrature -- 1cm = 20%

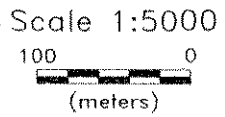


COMINCO EXPLORATION
TAG PROPERTY E10A GRID HORIZONTAL LOOP EM
440 Hz 100m cs
COMINCO GEOPHYSICS

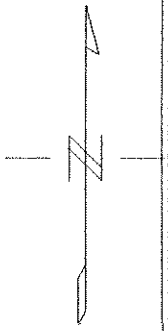
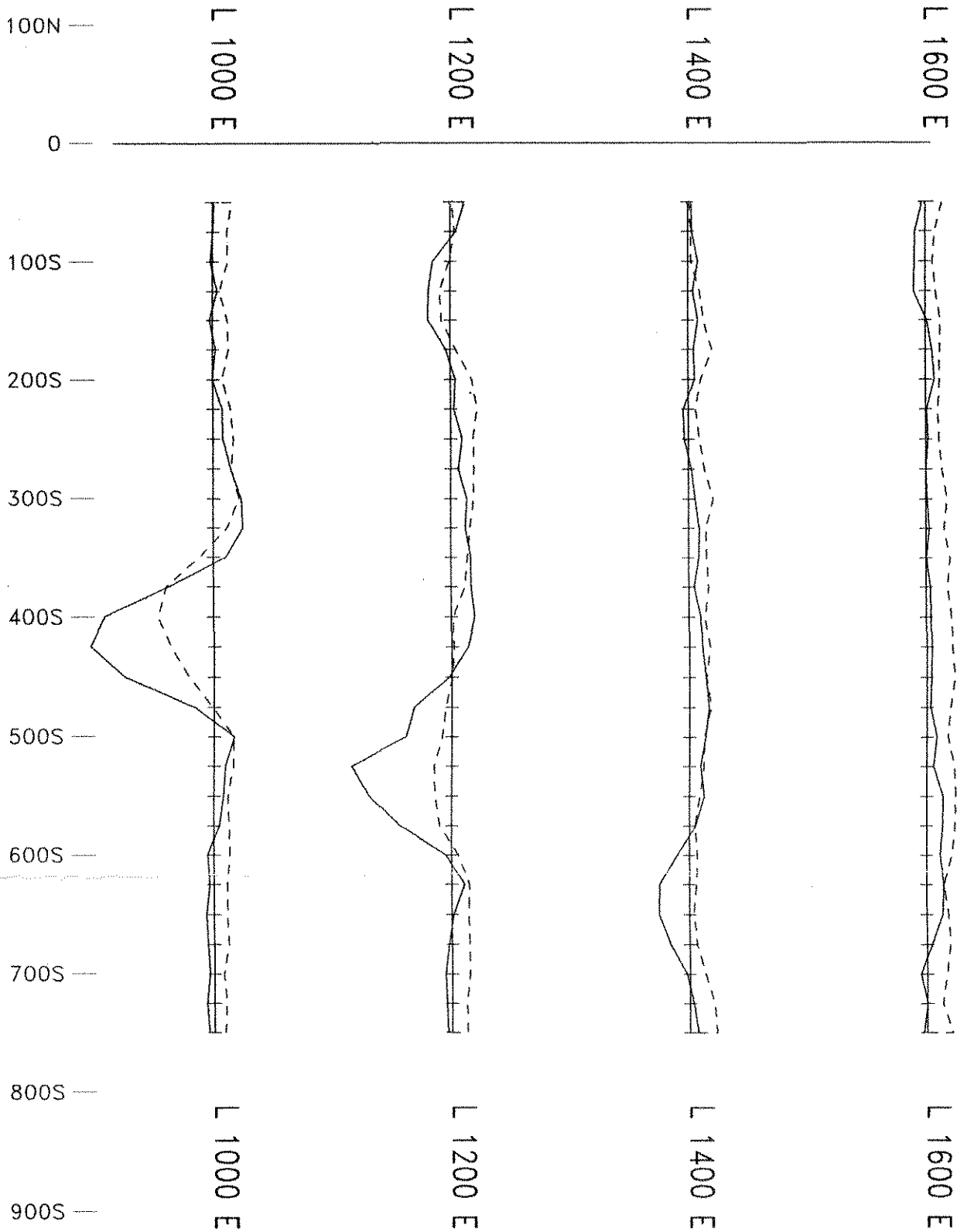


Vertical Scales:

- In Phase — 1cm = 20%
- Quadrature -- 1cm = 20%



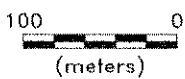
COMINCO EXPLORATION
TAG PROPERTY E10A GRID HORIZONTAL LOOP EM
1760 Hz 100m cs
COMINCO GEOPHYSICS



Vertical Scales:

- In Phase — 1cm = 20%
- Quadrature -- 1cm = 20%

Scale 1:5000

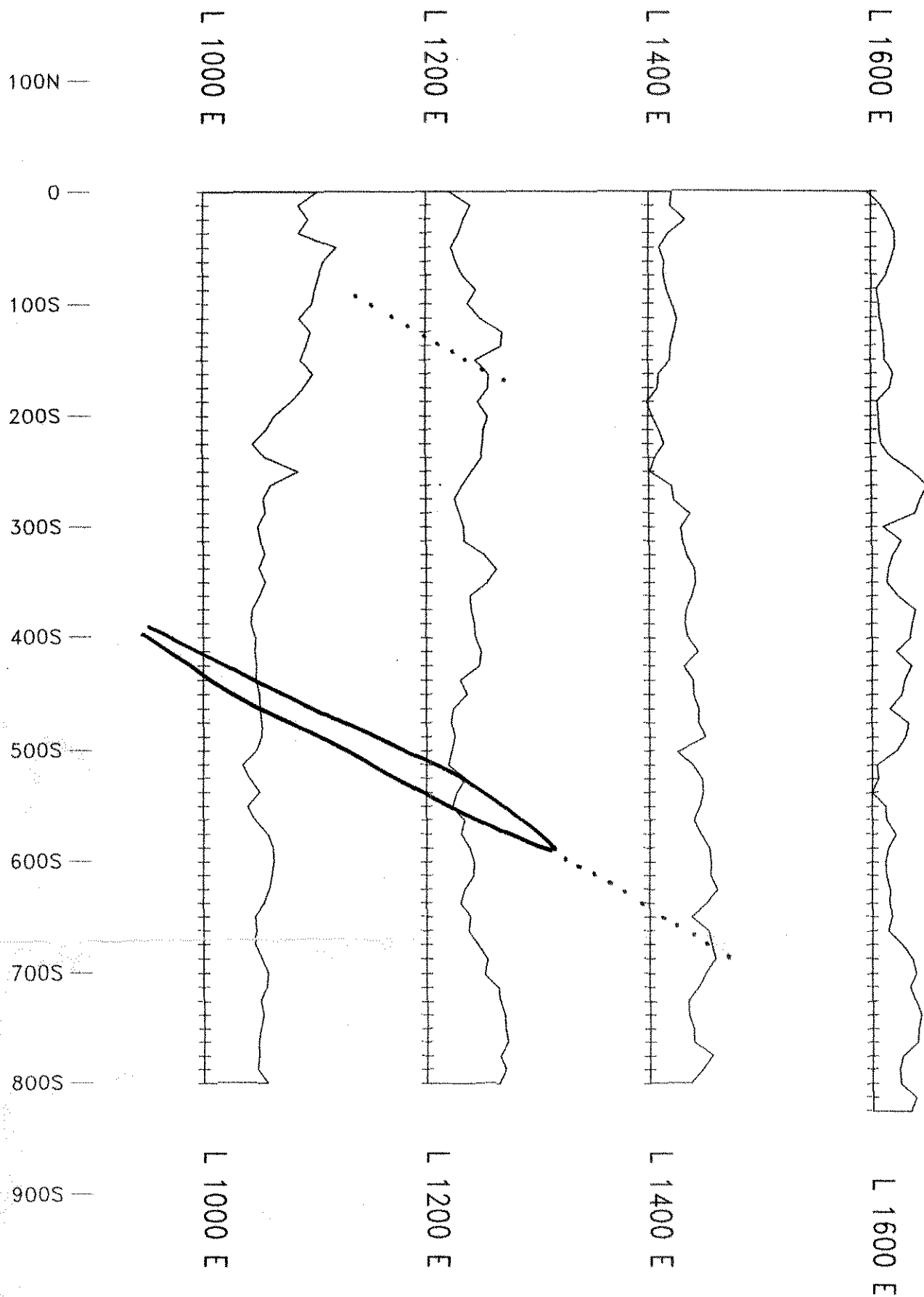


COMINCO EXPLORATION

**TAG PROPERTY
E10A GRID
HORIZONTAL LOOP EM**

3520 Hz
100m cs

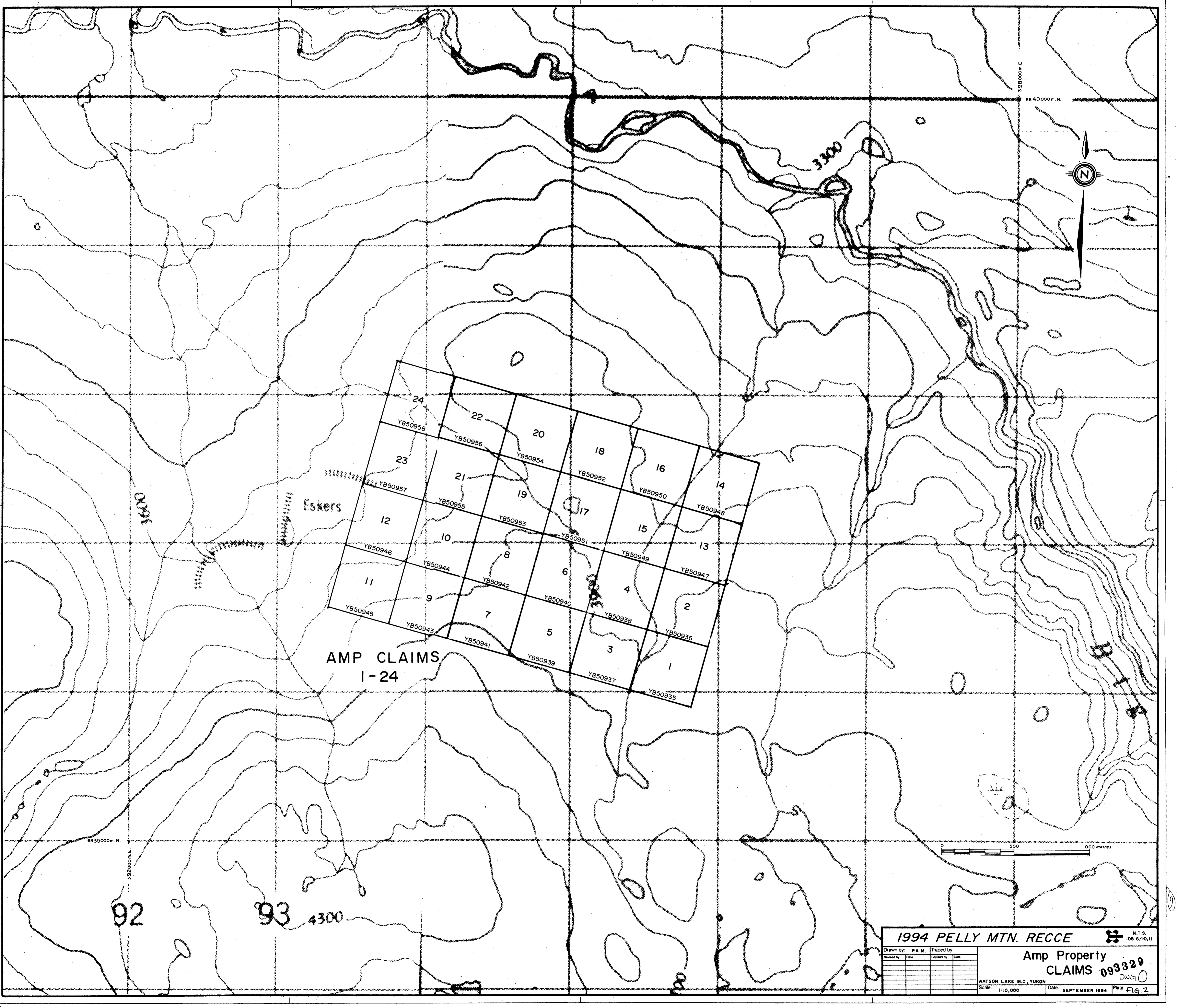
COMINCO GEOPHYSICS



Vertical Scale: 1cm = 25nT

Scale 1:5000
 100 0
 (meters)

COMINCO EXPLORATION
TAG PROPERTY E10A GRID
TOTAL FIELD MAGNETICS
COMINCO GEOPHYSICS



AMP CLAIMS
1-24

Eskers

1994 PELLY MTN. RECCE N.T.S.
105 6/10,11

Drawn by	P.A.M.	Traced by	
Revised by	Date	Revised by	Date

Amp Property CLAIMS 093329
DWG 1

WATSON LAKE M.D., YUKON
Scale: 1:10,000 Date: SEPTEMBER 1994 Plate: FIG. 2

