

COMINCO LTD.

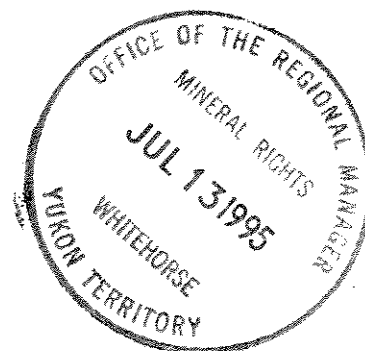
EXPLORATION

WESTERN DISTRICT

NTS 105 G/12

1994 ASSESSMENT REPORT

JIG, RAN AND REEL PROPERTIES



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

WATSON LAKE M.D., YUKON

PELLY MOUNTAINS AREA



WORK PERIOD

JULY 21, 23-26 AND AUGUST 6, 17, 1994

093335

APRIL, 1995

PAUL A. MacROBBIE

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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 \$ 8300.

M. Burke

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

**1994 ASSESSMENT REPORT
JIG, RAN and REEL PROPERTIES, YUKON TERRITORY**

1. SUMMARY

The JIG, RAN and REEL properties are located immediately east of the Hoole River on the Yukon Plateau, approximately 55 kms southeast of Ross River.

The properties were 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 (SMT). 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.

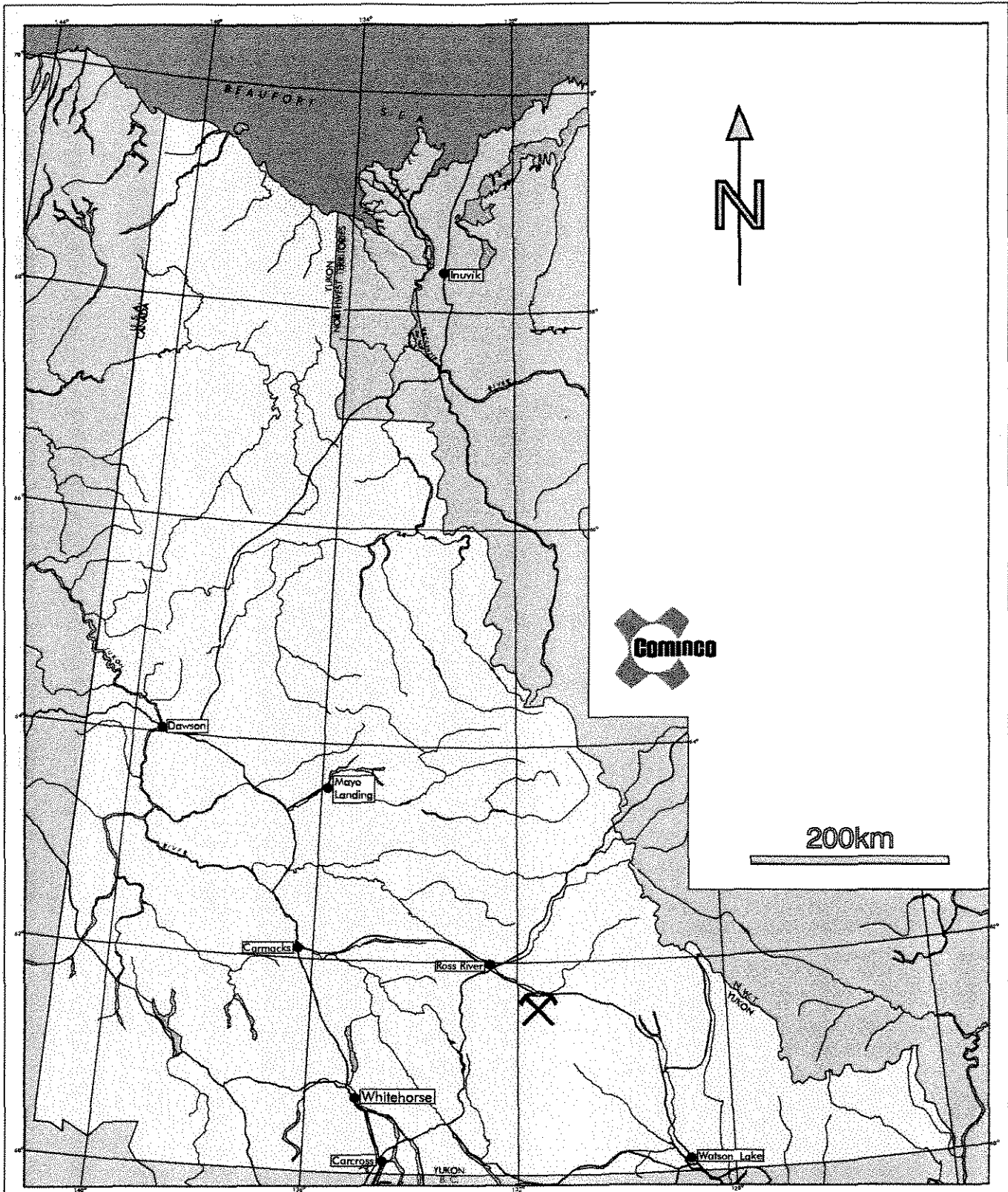
The JIG and RAN properties are underlain by rocks mapped as unit 3F by Mortensen (1983) comprising mafic metavolcanics and associated sediments. Outcrop exposure on both properties is very poor. Sequences of massive to banded, light to medium grey muscovite-quartz-feldspar $\pm$ biotite schists locally containing 4-25 mm garnet porphyroblasts with minor darker green chlorite-biotite-hornblende schists (mafic volcanics?) are present. Soil geochemistry returned numerous, scattered Cu (54-125 ppm) anomalies, generally in association with elevated Co-Fe-Ni-Cr $\pm$ Ag values. Two elevated Zn (210 and 269 ppm) anomalies are present on the JIG property.

The southern half of the REEL property is underlain by Mortensen's unit 3A which are fresh Tertiary mafic volcanics. The northern half of the property is underlain by unit 3F. Outcrop exposure on the property is very poor. To the north of the property are several outcrops of tan coloured massive metaquartzite and locally pyrrhotitic, quartz-biotite schists with minor intercalated calcite-chlorite schists and biotitic marbles. This sequence is locally cut by diabase sills and dykes and quartz $\pm$ feldspar veins. The ground HLEM and Mag geophysical surveys did not enhance the AEM/MAG feature. The anomaly is likely structural and appears to be of little interest.

No felsic volcanics or base metal mineralization of interest was found on any of the 3 properties. The AEM/MAG anomalies appear to be related to sediments/structures and mafic intrusives. No further work is recommended on the RAN and REEL properties. A small ground geophysical survey is contemplated for the JIG property in light of the presence of elevated Zn values in soils.

2. LOCATION AND ACCESS

The JIG, RAN and REEL properties are located northeast of the Tintina Fault, on the Yukon Plateau east of the Hoole River, approximately 55 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.



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

Revised by:	Date:	Revised by:	Date:

JIG, RAN and REEL PROPERTY LOCATIONS

105 G/12

Scale: As Shown

Date: April, 1995

Plate: 1

3. PROPERTY AND OWNERSHIP

The JIG, RAN and REEL properties are all due June 22, 1995 (Figure 2), and are 100% owned by Cominco Ltd.

<u>NAME</u>	<u>UNITS</u>	<u>CLAIM NO.</u>	<u>DUE DATES</u>
JIG 1-15	15	YB49717-9731	June 22/95
RAN 1-12	12	YB49732-9743	June 22/95
REEL 1-9	9	YB49708-9716	June 22/95

4. PREVIOUS WORK

No previous work by Cominco has been done in the immediate property area. No known showings are recorded for this immediate area.

5. 1994 WORK

JIG PROPERTY GEOLOGICAL MAPPING

On July 21, 1994, 1:10,000 scale geological mapping and prospecting was carried out by P.A.MacRobbie (Figure 3).

GEOCHEMISTRY

A total of 36 soil samples were collected. Data is presented in Figure 3 and Appendix 2.

RAN PROPERTY GEOLOGICAL MAPPING

On July 21, 1994, 1:10,000 scale geological mapping and prospecting was carried out by N.J.Callen (Figure 3).

GEOCHEMISTRY

A total of 14 soil samples were collected. Data is presented in Figure 3 and Appendix 3.

REEL PROPERTY LINECUTTING

During the period of July 23-26, 1994, a geophysical grid totalling 5.0 line kilometres was cut on the REEL property by Coureur Des Bois Ltd. of Whitehorse, Yukon (Figure 3).

GEOPHYSICAL SURVEYS

On August 6 and August 17, 1994, a total of 4.4 lkms of HLEM and 4.4 lkms of total field MAGNETICS were surveyed on the grid by a Cominco geophysical crew.

GEOLOGICAL MAPPING

On July 21, 1994, 1:10,000 scale geological mapping and prospecting was carried out by A.B.Mawer (Figure 3).

GEOCHEMISTRY

No soil geochemistry sampling was carried out in 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 (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 heterogeneous 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. JIG PROPERTY GEOLOGY AND GEOCHEMISTRY

The JIG property is underlain by rocks mapped as unit 3F by Mortensen (1983) comprising mafic metavolcanics and associated sediments.

Outcrop exposure on the property is very poor (Figure 3). Along the southern edge of the property, good exposures of a light to medium grey muscovite-garnet-quartz-feldspar $\pm$ biotite-chlorite-wollastonite schists containing 4-25 mm garnet porphyroblasts is present. This unit is strongly foliated with gentle (10-32 degrees) NE or NW dips and represents metamorphosed sediments.

Soil geochemistry returned numerous, scattered Cu (56-125 ppm) anomalies in association with elevated Co-Fe-Ni-Cr $\pm$ Ag values. Two elevated Zn (210 and 269 ppm) anomalies are present.

8. RAN PROPERTY GEOLOGY AND GEOCHEMISTRY

The RAN property is underlain by rocks mapped as unit 3F by Mortensen (1983) comprising mafic metavolcanics and associated sediments.

Outcrop exposure on the property is very poor (Figure 3). Immediately to the east are abundant outcrops of massive to banded, light to medium grey muscovite-quartz-feldspar $\pm$ biotite schists locally containing 4-25 mm garnet porphyroblasts. Minor darker green chlorite-biotite-hornblende schists (mafic volcanics?) are present. This sequence is strongly foliated with gentle (4-15 degrees) N or NW dips and is lithologically similar to the sequence exposed on the JIG property.

Soil geochemistry revealed no anomalies of interest. Two weak Cu (54 and 60 ppm) anomalies are present.

9. REEL PROPERTY GEOLOGY

The southern half of the REEL property is underlain by Mortensen's unit 3A which are fresh Tertiary mafic volcanics. The northern half of the property is underlain by unit 3F.

Outcrop exposure on the property is very poor (Figure 3). To the north of the property are several outcrops of tan coloured massive metaquartzite and locally pyrrhotitic, quartz-biotite schists with minor intercalated calcite-chlorite schists and biotitic marbles. This sequence is strongly foliated with moderate (40 degree) NW dips and is locally cut by diabase sills and dykes and quartz $\pm$ feldspar veins.

The ground HLEM and Mag geophysical surveys did not enhance the AEM/MAG feature. The anomaly is likely structural and appears to be of little interest.

10. CONCLUSIONS and RECOMMENDATIONS

No felsic volcanics or base metal mineralization of interest was found on any of the 3 properties. The AEM/MAG anomalies appear to be related to sediments/structures and mafic intrusives.

No further work is recommended on the RAN or REEL properties.

A small ground geophysical survey is contemplated for the JIG property in light of the presence of elevated Zn values in soils.

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.Geo
GEOLOGIST

APPENDIX 2

1994 GEOCHEMISTRY DATA

Property	LabNo	FieldNo	S	M	O	S	Col	Sz	O	W	Dph	W/S	F/W	P	Cu	Pb	Zn	Ag	As	Ba(jcp)	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)
Jig	S9416929	240434	2	1	2	**	K	4	2	2	35	1	Z	**	30	4	60	0.4	5	305	1	2	10	0.30	1	2	2	2	4	4	1	224	3	3	142	0.16	0.01	0.40	4.63	0.01	0.01	5	10	677
Jig	S9416930	240432	2	1	2	**	BR	23	2	2	35	2	B2	**	18	10	42	0.5	15	175	1	8	24	2.05	1	26	9	2	28	3	1	51	8	12	110	0.45	0.01	1.38	0.80	0.03	0.07	5	10	1358
Jig	S9416931	240433	2	1	2	**	BR	23	2	2	25	2	B2	**	8	16	73	0.2	16	239	1	10	17	2.56	1	21	2	2	40	5	1	19	2	7	498	0.30	0.01	1.11	0.20	0.01	0.06	5	10	1545
Jig	S9416932	240435	2	1	2	**	K	4	2	2	45	2	B2	**	125	5	79	0.6	7	116	1	3	41	0.55	1	6	2	2	5	9	1	142	24	18	173	0.20	0.01	0.59	3.10	0.03	0.04	5	10	829
Jig	S9416933	240436	2	1	2	**	BR	23	2	2	30	2	B2	**	14	14	85	0.4	8	213	1	13	27	3.02	2	34	2	5	51	8	1	33	4	9	214	0.86	0.02	2.11	0.41	0.02	0.10	5	10	1581
Jig	S9416934	240437	2	1	2	**	1B	23	3	2	35	2	B2	**	21	10	88	0.4	12	160	1	14	45	2.75	1	44	2	2	40	7	1	48	14	16	513	1.25	0.05	2.05	0.91	0.03	0.15	5	10	1411
Jig	S9416935	240438	2	1	2	**	BR	23	3	1	25	2	B2	**	6	20	161	0.4	18	136	1	7	14	2.60	1	19	2	9	46	8	1	12	2	7	286	0.25	0.01	1.04	0.14	0.01	0.09	5	10	1510
Jig	S9416936	240439	2	1	2	**	K	4	2	2	35	2	B2	**	57	17	210	0.6	26	250	1	6	27	1.73	1	22	2	5	23	5	1	160	11	12	289	0.43	0.01	0.85	3.09	0.03	0.07	5	10	1184
Jig	S9416937	240440	2	1	2	**	2B	23	2	2	30	2	B2	**	40	23	154	0.8	23	277	1	15	37	2.72	1	40	2	2	37	7	1	200	18	21	717	0.84	0.04	2.16	2.35	0.07	0.12	5	10	1210
Jig	S9416938	240441	2	1	2	**	K	4	2	2	30	2	Z	**	21	2	44	0.6	3	271	1	1	6	0.24	1	2	2	2	3	4	1	150	2	3	124	0.12	0.01	0.34	2.99	0.05	0.02	5	10	1001
Jig	S9416939	240442	2	1	2	**	2B	23	2	2	30	1	B2	**	56	23	269	0.4	19	96	1	3	9	1.43	2	16	2	2	27	2	3	42	3	7	100	0.28	0.01	0.80	0.90	0.02	0.07	5	10	111
Jig	S9416940	240443	2	1	2	**	K	23	2	2	30	2	B2	**	25	6	95	0.6	10	217	1	8	23	1.66	1	25	2	2	20	6	1	128	17	19	495	0.58	0.02	1.20	2.95	0.03	0.10	5	10	1015
Jig	S9416941	240444	2	1	2	**	2B	23	2	2	30	2	B2	**	7	12	82	0.2	7	182	1	5	14	1.95	1	16	2	2	31	3	1	14	3	9	133	0.27	0.01	1.02	0.21	0.01	0.05	5	10	1517
Jig	S9416942	240445	2	1	2	**	K	4	2	2	35	2	B2	**	28	4	48	0.2	9	120	1	1	8	0.37	1	2	2	5	4	5	1	99	5	5	185	0.13	0.01	0.39	2.70	0.04	0.02	5	10	893
Jig	S9416943	240446	2	1	2	**	RY	23	2	2	25	2	B2	**	13	17	66	0.2	36	144	1	7	20	3.44	1	25	2	2	45	6	1	13	3	7	253	0.37	0.01	1.35	0.11	0.01	0.06	5	10	1313
Jig	S9416944	240447	2	1	2	**	BR	23	2	1	20	2	B2	**	6	10	57	0.5	15	121	1	4	12	1.96	2	13	2	2	41	10	1	9	1	7	159	0.19	0.01	0.92	0.09	0.01	0.06	5	10	1376
Jig	S9416945	240448	2	1	2	**	K	4	2	2	45	2	B2	**	58	9	96	0.4	16	252	1	7	34	1.40	2	21	2	2	18	6	1	163	16	13	498	0.44	0.01	0.87	3.70	0.02	0.06	5	10	1067
Jig	S9416946	240449	2	1	2	**	K	23	3	2	30	2	B2	**	76	9	111	0.5	11	136	1	3	28	0.99	1	11	2	2	11	3	1	99	17	10	215	0.23	0.01	0.58	2.27	0.02	0.05	5	10	1118
Jig	S9416947	240450	2	1	2	**	2B	23	2	2	30	2	B2	**	6	7	48	0.4	4	97	1	3	7	1.06	1	13	2	2	31	4	1	26	1	6	141	0.19	0.01	0.57	0.35	0.01	0.07	5	10	1457
Jig	S9416948	240451	2	1	2	**	2R	23	2	2	30	2	B2	**	70	16	70	0.6	15	198	1	7	30	1.45	1	20	2	5	17	6	1	115	27	19	462	0.46	0.01	0.91	2.20	0.03	0.08	5	10	1086
Jig	S9416949	240452	2	1	2	**	2B	23	2	3	25	2	B2	**	43	29	131	0.2	11	124	1	17	61	3.85	1	57	2	2	49	11	1	92	19	29	381	1.28	0.04	2.45	1.30	0.04	0.18	5	10	1186
Jig	S9416950	240453	2	1	2	**	K	24	3	2	30	2	B2	**	72	18	114	0.2	5	144	1	11	48	2.17	1	38	2	2	29	3	1	104	24	28	221	0.82	0.02	1.79	1.91	0.03	0.14	5	10	1026
Jig	S9416951	240454	2	1	2	**	3B	23	2	2	20	2	B2	**	34	2	94	0.2	10	194	1	21	55	4.81	1	70	2	2	71	10	1	56	16	22	489	3.12	0.08	5.13	1.42	0.12	0.54	5	10	1731
Jig	S9416952	240455	2	1	2	**	BY	23	3	2	30	2	B2	**	47	8	104	0.2	24	99	1	18	47	4.20	1	36	2	2	32	4	1	46	20	31	393	1.11	0.01	2.12	1.06	0.01	0.08	5	10	1191
Jig	S9416953	240456	2	1	2	**	K	4	2	2	30	2	Z	**	19	2	25	0.4	5	89	1	2	8	0.45	1	2	2	7	5	6	1	67	3	5	105	0.24	0.01	0.47	1.76	0.04	0.03	5	10	929
Jig	S9416954	240457	2	1	2	**	BK	23	2	2	30	2	B2	**	36	15	137	0.4	16	168	1	22	67	3.82	1	99	2	2	79	7	1	59	15	18	522	1.49	0.05	2.38	1.27	0.02	0.21	5	10	1198
Jig	S9416955	240458	2	1	2	**	B2	23	2	2	35	2	B2	**	49	19	78	0.2	9	134	1	9	36	1.48	1	22	2	2	19	1	1	100	26	33	759	0.38	0.01	0.98	2.08	0.04	0.06	5	10	999
Jig	S9416956	240459	2	1	2	**	2B	23	2	2	35	2	B2	**	46	11	82	0.2	7	185	1	22	56	3.98	2	55	2	5	54	6	1	61	14	20	540	1.59	0.03	2.94	0.98	0.04	0.23	5	10	1432
Jig	S9416957	240460	2	1	2	**	BR	23	2	2	30	2	B2	**	37	12	118	0.7	27	244	1	31	46	4.45	1	43	2	6	51	2	1	25	8	15	780	0.77	0.01	2.22	0.17	0.01	0.13	5	10	1387
Jig	S9416958	240461	2	1	2	**	BR	23	2	2	20	2	B2	**	14	18	83	0.2	28	91	1	13	29	3.65	1	45	2	2	73	7	1	13	3	8	319	0.92	0.01	2.02	0.10	0.01	0.12	5	10	1353
Jig	S9416959	240462	2	1	2	**	3B	23	2	2	30	2	B2	**	74	4	172	0.5	13	278	1	31	92	4.69	3	108	2	5	150	9	1	116	26	18	628	3.16	0.15	3.86	2.48	0.03	0.53	5	10	814
Jig	S9416960	240463	2	1	2	**	YB	3	2	2	30	2	B2	**	19	2	18	0.5	4	29	1	1	1	0.28	1	2	2	2	4	1	1	28	10	11	37	0.06	0.01	0.36	0.52	0.05	0.04	5	10	1147
Jig	S9416961	240464	2	1	2	**	3R	3	2	2	20	2	B2	**	22	24	175	0.7	30	149	1	31	56	6.53	1	63	2	2	66	11	1	70	8	20	272	1.45	0.08	3.96	0.40	0.05	0.07	5	10	1121
Jig	S9416962	240465	2	1	2	**	2G	23	2	2	30	2	B2	**	7	17	55	0.2	8	115	1	5	12	1.71	1	21	2	5	34	7	1	20	3	10	95	0.43	0.01	1.04	0.23	0.01	0.08	5	10	1546
Jig	S9416963	240466	2	1	2	**	BR	23	2	2	25	2	B2	**	5	14	58	0.4	8	191	1	6	8	1.77	1	14	2	2	37	7	1	20	1	7	297	0.22	0.01	0.97	0.22	0.01	0.05	5	10	1555
Jig	S9416964	240467	2	1	2	**	B	2	2	2	25	2	B2	**	7	15	76	0.2	19	62	1	7	20	2.67	1	41	7	2	57	6	1	16	3	8	196	0.76	0.01	1.43	0.20	0.01	0.15	5	10	1337

Property	LabNo	FieldNo	S	M	O	S	Col	Sz	O	W	Dph	W/S	FAW	P	Cu	Pb	Zn	Ag	As	Ba(lcp)	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)
Ran	S9414526	242548	3	1	5	**	1B	32	1	1	25	3	B2	**	17	13	55	0.2	8	114	1	14	46	2.97	1	40	2	2	43	1	1	9	5	10	186	0.75	0.01	1.63	0.12	0.01	0.02	5	10	1200
Ran	S9414527	242549	3	1	5	3	3G	23	3	3	45	1	B2	**	10	7	60	0.2	9	86	1	9	30	1.74	1	31	2	2	28	1	1	26	15	24	150	0.71	0.01	0.98	0.59	0.01	0.01	5	10	1033
Ran	S9414528	242550	3	1	5	3	B	4	3	2	45	2	H	**	54	7	130	0.2	20	231	1	10	44	1.79	2	14	2	2	15	1	1	119	11	11	380	0.33	0.01	0.62	2.79	0.02	0.02	5	10	766
Ran	S9414529	242551	3	1	5	**	2B	34	1	1	45	2	B2	**	40	17	80	0.2	30	177	1	14	54	2.58	1	39	2	2	31	1	2	86	19	24	344	0.94	0.01	1.23	2.89	0.01	0.09	5	10	1264
Ran	S9414530	242552	3	1	5	**	2Y	34	1	1	45	2	B2	**	21	13	58	0.2	1	140	1	10	35	2.46	1	35	2	2	33	1	2	19	16	21	258	0.77	0.01	1.33	0.41	0.01	0.04	5	10	1351
Ran	S9414531	242553	3	1	5	**	2Y	34	1	1	45	2	B2	**	14	10	46	0.2	4	144	1	8	25	2.04	1	26	2	2	28	1	1	17	8	13	211	0.59	0.01	1.23	0.30	0.02	0.03	5	10	1390
Ran	S9414532	242554	3	1	5	**	2Y	34	1	1	45	2	B2	**	24	13	69	0.2	1	122	1	11	34	2.35	1	27	2	2	25	1	1	57	16	20	422	1.08	0.01	1.27	1.95	0.01	0.06	5	10	1370
Ran	S9414533	242555	3	1	5	**	1N	3	1	1	45	1	B2	**	29	14	61	0.2	13	301	1	8	37	2.36	1	29	2	2	37	1	1	30	20	18	218	0.57	0.01	1.29	0.51	0.01	0.01	5	10	1597
Ran	S9414534	242556	3	1	5	**	2Y	34	1	1	45	2	B2	**	31	14	65	0.2	11	92	1	12	41	2.67	2	34	2	2	30	1	1	18	14	21	351	1.02	0.01	1.46	0.32	0.01	0.04	5	10	1383
Ran	S9414535	242557	3	1	5	**	2Y	3	1	1	40	2	B2	**	11	12	50	0.2	3	93	1	8	25	3.15	1	34	2	2	35	1	1	6	3	10	157	0.78	0.01	1.60	0.06	0.01	0.04	5	10	1455
Ran	S9414536	242558	3	1	5	**	1Y	34	1	1	40	2	B2	**	13	16	57	0.2	1	227	1	11	27	2.44	1	31	2	2	31	1	1	18	6	12	309	0.58	0.01	1.38	0.29	0.01	0.05	5	10	1447
Ran	S9414537	242559	3	1	5	**	2Y	34	1	1	45	2	B2	**	49	10	75	0.2	14	129	1	15	54	3.08	1	40	2	2	30	1	1	22	11	33	238	0.82	0.01	1.61	0.25	0.02	0.03	5	10	1369
Ran	S9414538	242560	3	1	5	**	1Y	34	1	1	40	2	B2	**	43	14	69	0.2	14	158	1	17	55	3.14	1	50	2	2	33	2	1	17	14	46	540	0.96	0.01	1.69	0.34	0.01	0.04	5	10	1325
Ran	S9414539	242561	3	1	5	**	Y2	23	1	1	40	2	B2	**	60	20	123	0.2	47	107	1	19	62	3.72	1	42	2	2	39	1	1	27	35	41	350	1.07	0.02	1.71	0.59	0.01	0.10	5	10	1277

APPENDIX 3
STATEMENTS OF EXPENDITURES

JIG PROPERTY

STAFF COSTS	592
DOMICILE	218
GEOCHEMISTRY	612
HELICOPTER	792
COMMUNICATIONS	25
TRUCK RENTAL	52
FREIGHT	161
EXPEDITING	33
DRAFTING	156
TOTAL	2,641

RAN PROPERTY

STAFF COSTS	581
DOMICILE	218
GEOCHEMISTRY	238
HELICOPTER	432
COMMUNICATIONS	10
TRUCK RENTAL	20
FREIGHT	62
EXPEDITING	13
DRAFTING	60
TOTAL	1,634

REEL PROPERTY

STAFF COSTS	600
DOMICILE	109
HELICOPTER	360
LINECUTTING	4,000
HELICOPTER	3,240
GEOPHYSICS	3,254
HELICOPTER	2,160
GEOCHEMISTRY	-
 TOTAL	 13,723

APPENDIX 4:

GEOPHYSICAL TARGET EVALUATION & FIGURES

PELLEY MTN - GEOPHYSICAL TARGET EVALUATION

TARGET NAME: G9 NTS: 105G/12SE

CLAIMS: REEL

GEOLOGY:

Outcrop exposure is quite poor in the area. The southern portion of the claims are underlain by fresh Tertiary mafic volcanics and the northern portion is underlain by mafic metavolcanics and associated sediments. To the north of the claims are tan coloured massive metaquartzites and locally pyrrhotitic quartz-biotite schists with minor intercalated calcite-chlorite schists and biotitic marbles.

GEOPHYSICS:

<u>SURVEY</u>	<u>KMS</u>	<u>DATES</u>
HLEM	4.1	Aug. 6, 17
MAGNETICS	4.4	Aug. 6, 17
GRAVITY		

Target G9 is a single line conductive response, occurring at about 300S on L-600E. The grid was extended to the east to close off the conductor. This conductor is of low conductance (3 S) and occurs at a depth of less than 5 m. A very minor magnetic response (~40 nT) is coincident, though more significant magnetic responses of 200-450 nT are evident in the grid area, but are unrelated to the conductor. There is no evidence of the conductor trending parallel to the grid lines.

CONCLUSIONS:

The southern conductor is of no interest due to its short strike length and low conductance. The source of the conductor is evidently very small.

RECOMMENDATIONS:

No further work is warranted 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/12

1994 ASSESSMENT REPORT

JIG, RAN AND REEL PROPERTIES

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

WATSON LAKE M.D., YUKON

PELLY MOUNTAINS AREA

JIG - LAT 61°38'
RAN - LAT: 61°39'
REEL - LAT: 61°37'

JIG - LONG: 131°34'
RAN - LONG: 131°40'
REEL - LONG: 131°40'

WORK PERIOD

JULY 21, 23-26 AND AUGUST 6, 17, 1994

APRIL, 1995

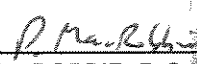
PAUL A. MacROBBIE

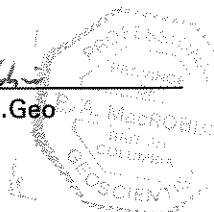
STATEMENT OF QUALIFICATIONS

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. Geo
GEOLOGIST



COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS 105 G/12

1994 ASSESSMENT REPORT

JIG, RAN AND REEL PROPERTIES

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

WATSON LAKE M.D., YUKON

PELLY MOUNTAINS AREA

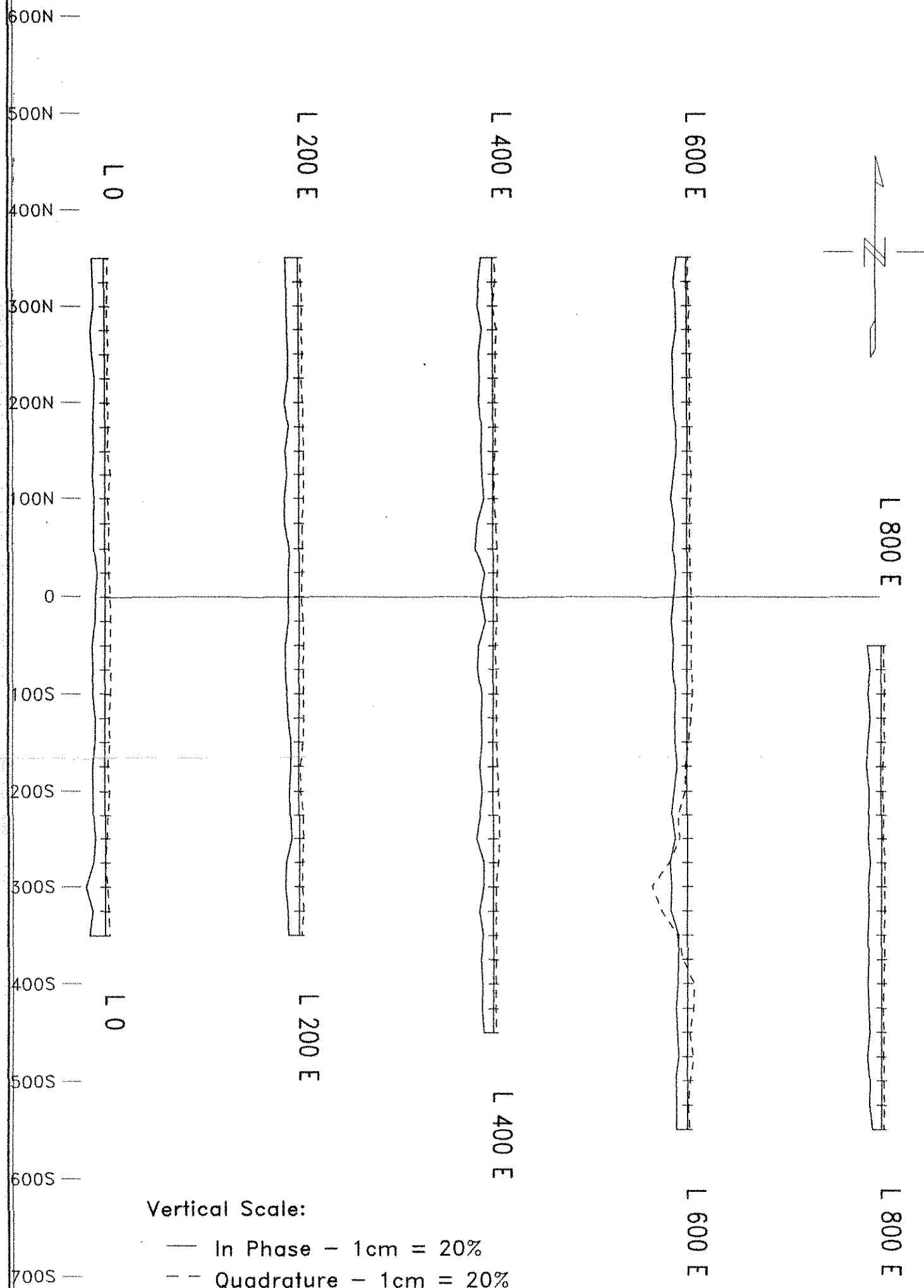
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RAN - LAT: 61°39'
REEL - LAT: 61°37'

JIG - LONG: 131°34'
RAN - LONG: 131°40'
REEL - LONG: 131°40'

WORK PERIOD

JULY 21, 23-26 AND AUGUST 6, 17, 1994

093335

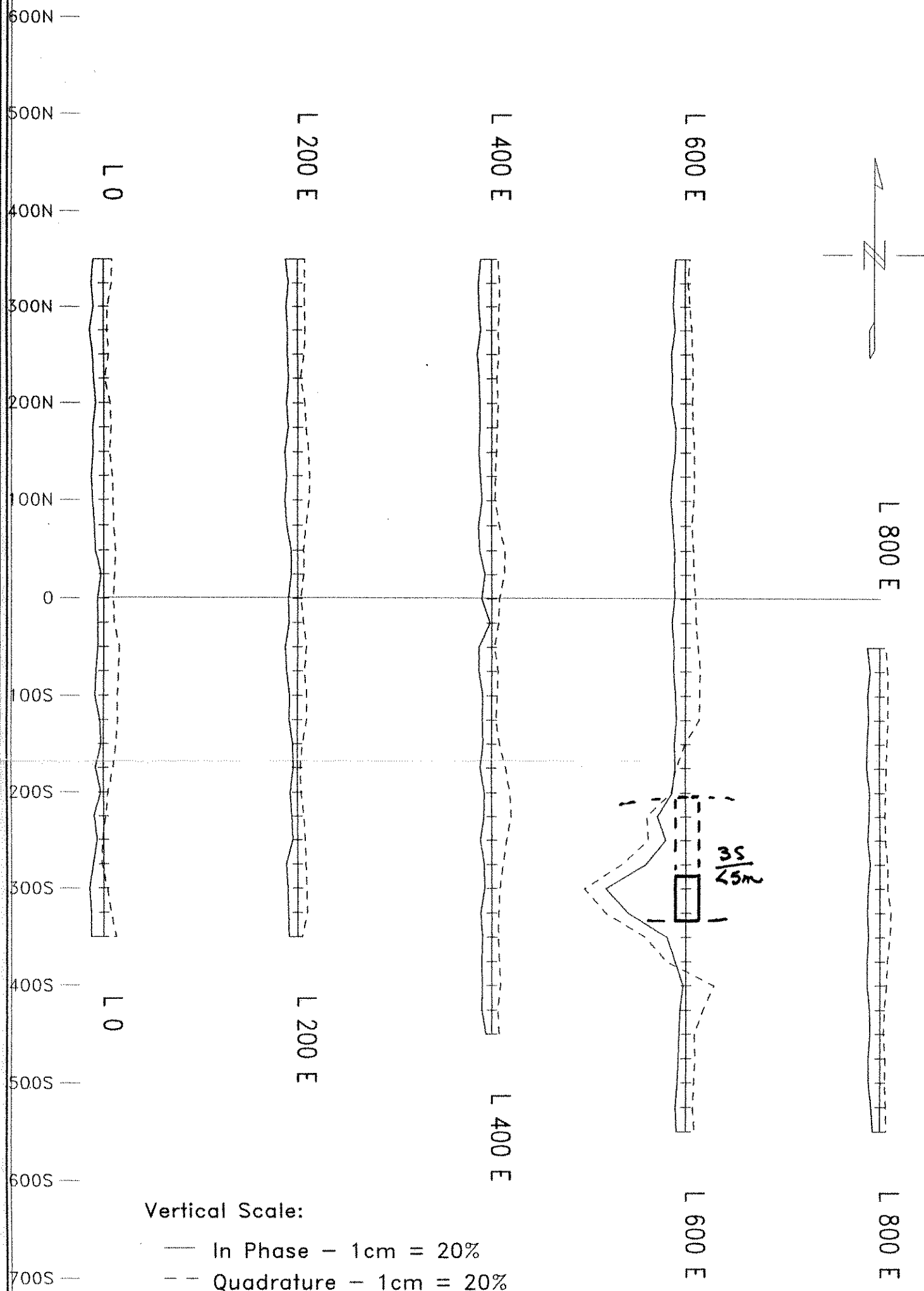


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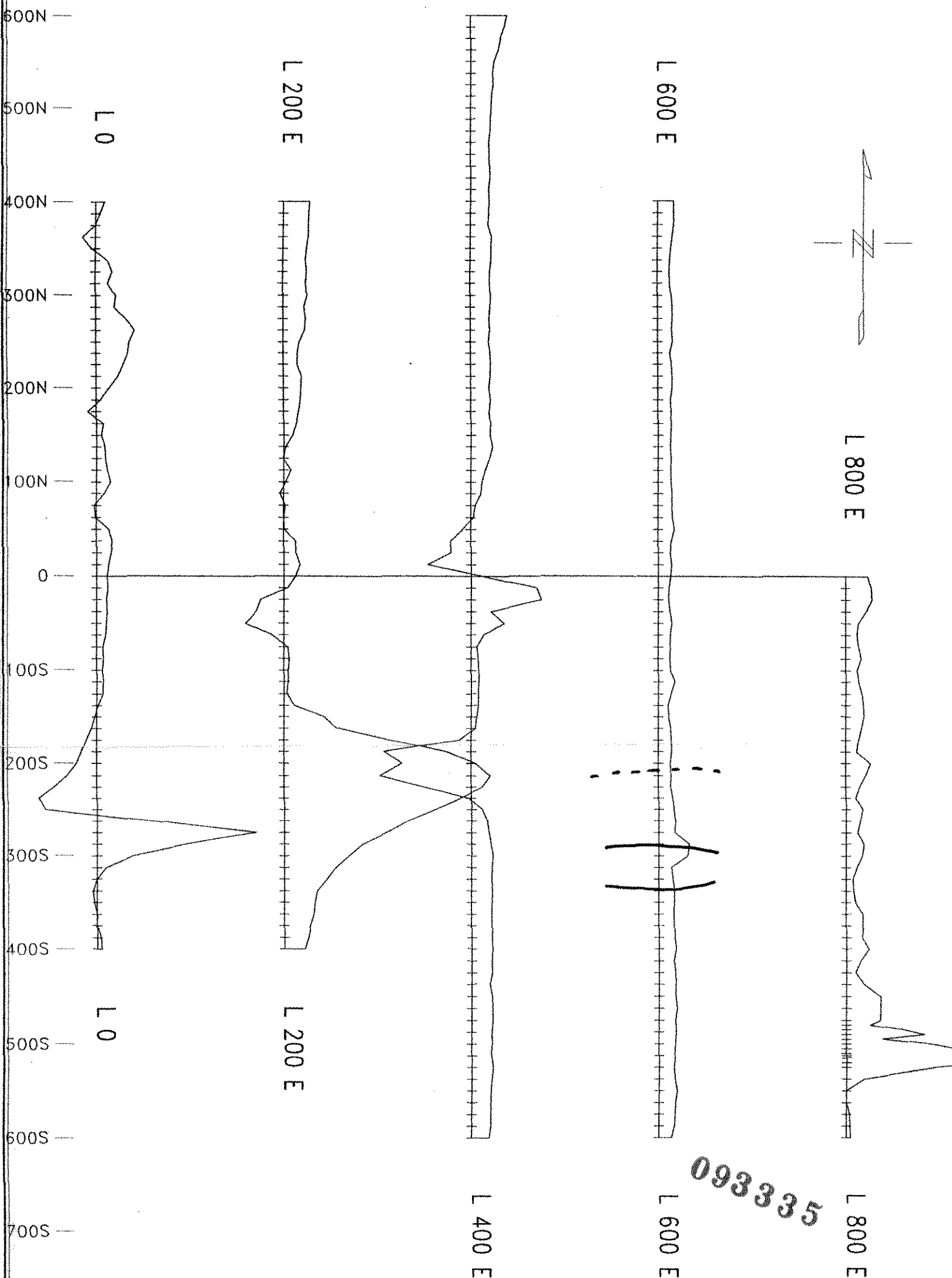
(meters)

COMINCO EXPLORATION
TAG PROPERTY G9 GRID HORIZONTAL LOOP EM
440 Hz 100m cs
COMINCO GEOPHYSICS



093335

COMINCO EXPLORATION
TAG PROPERTY G9 GRID HORIZONTAL LOOP EM
1760 Hz 100m cs
COMINCO GEOPHYSICS



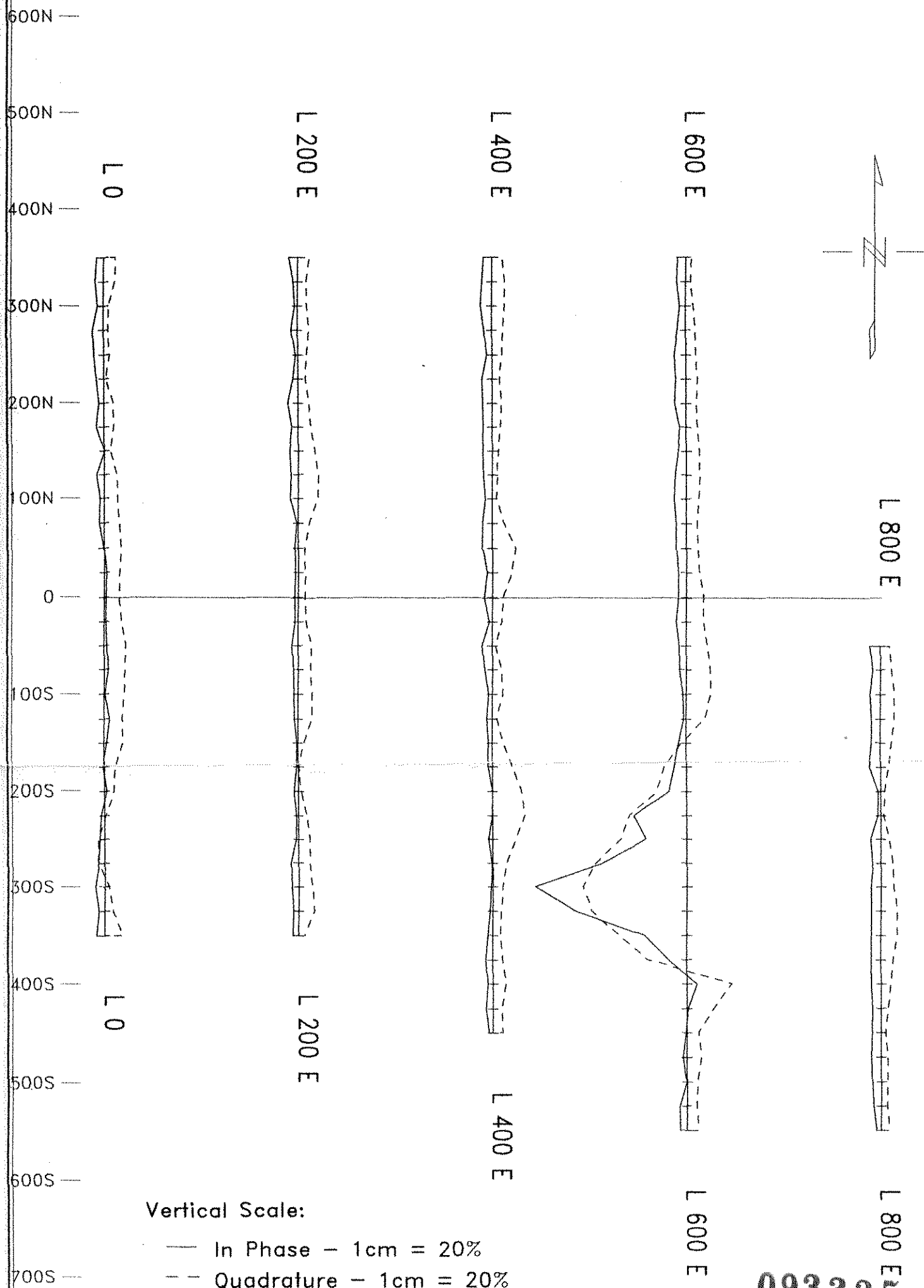
Vertical Scale: 1cm = 100nT

Scale 1:5000
50 0 50 100 150
(meters)

COMINCO EXPLORATION

TAG PROPERTY
G9 GRID
TOTAL FIELD MAGNETICS

COMINCO GEOPHYSICS

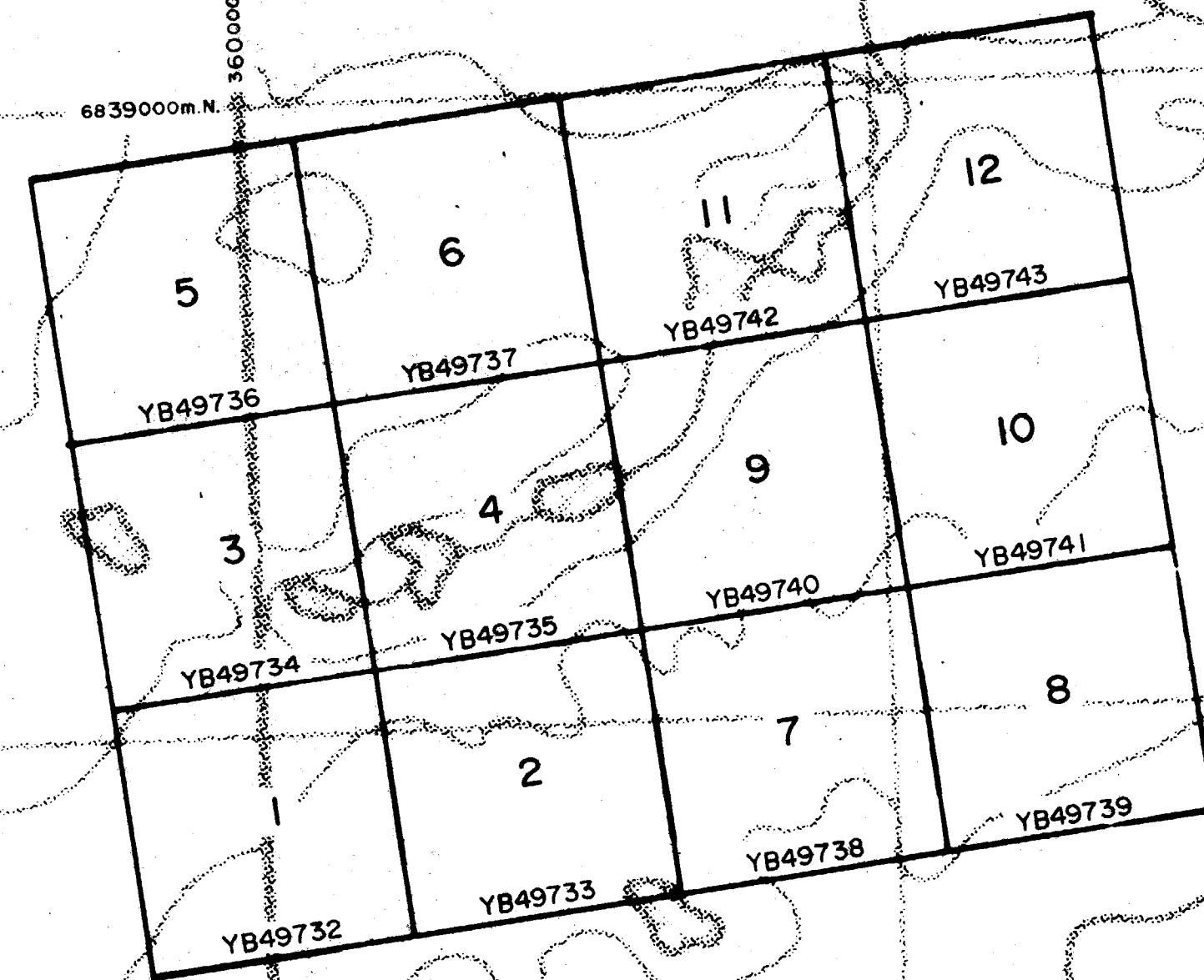


Scale 1:5000

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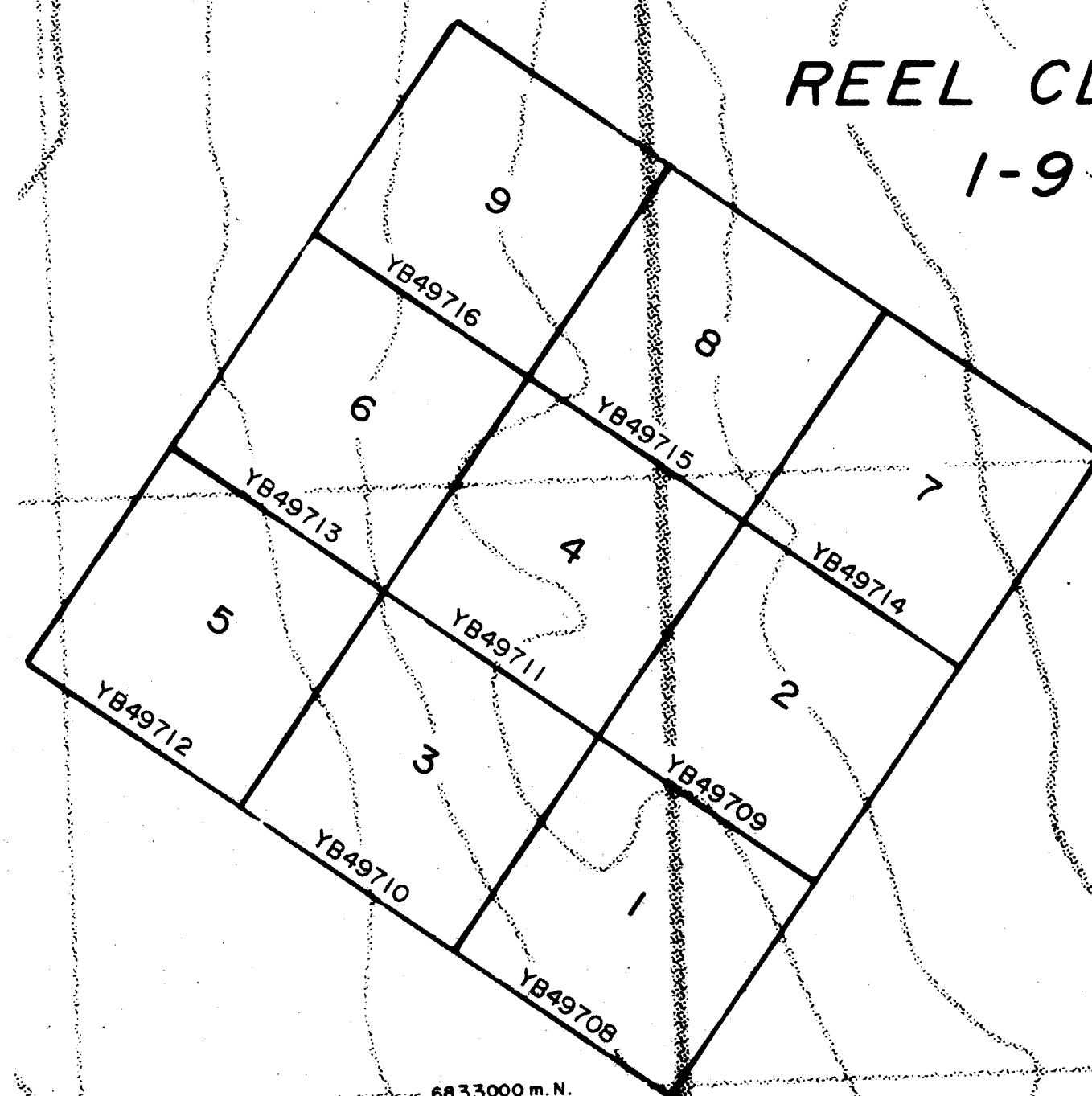
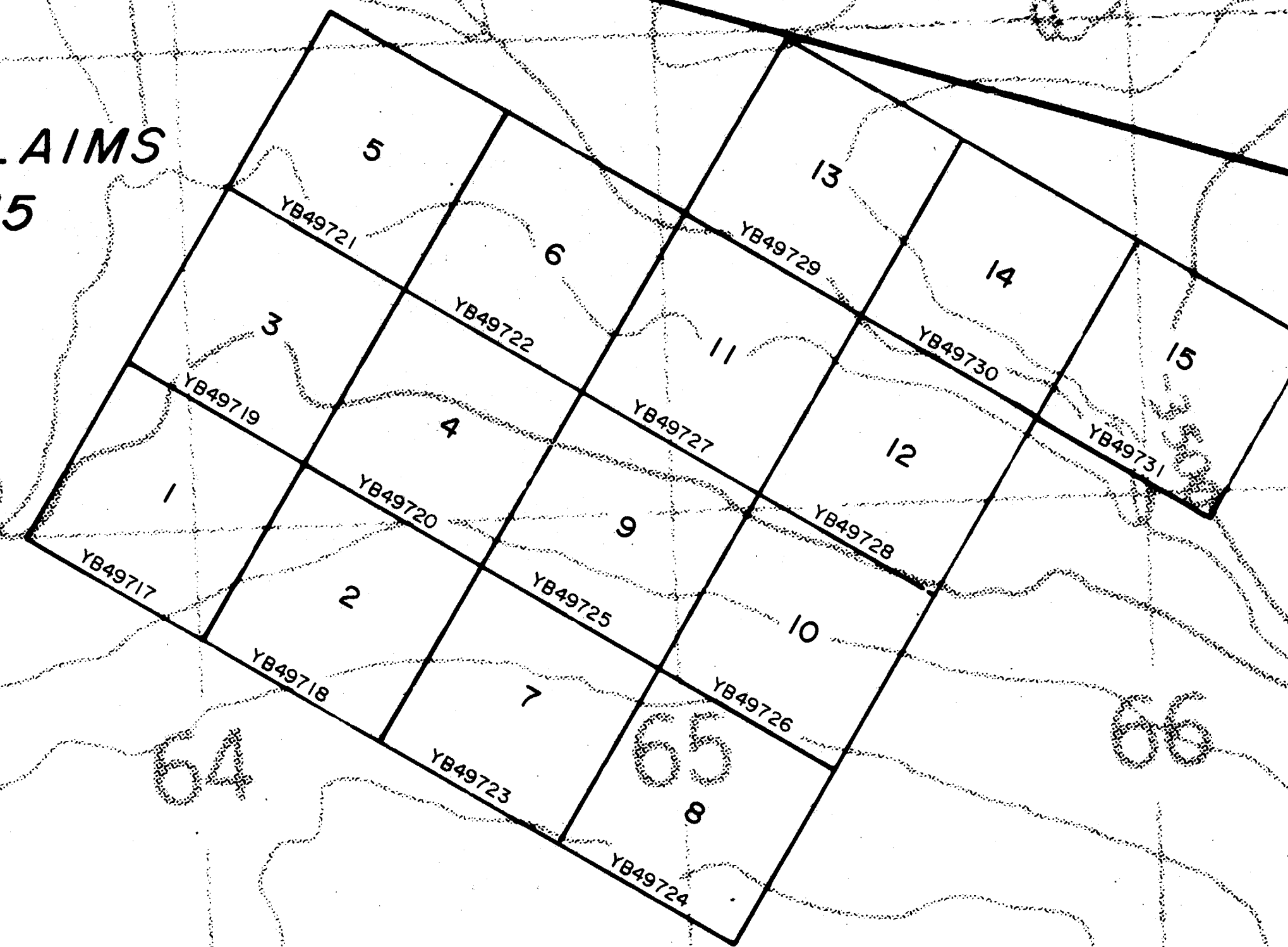
(meters)

COMINCO EXPLORATION
TAG PROPERTY G9 GRID HORIZONTAL LOOP EM
3520 Hz 100m cs
COMINCO GEOPHYSICS

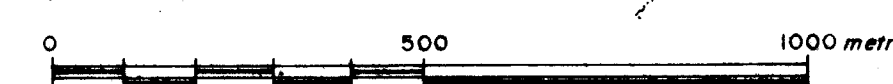
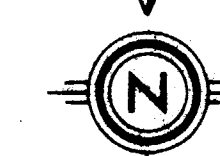


RAN CLAIMS
1-12

JIG CLAIMS
1-15

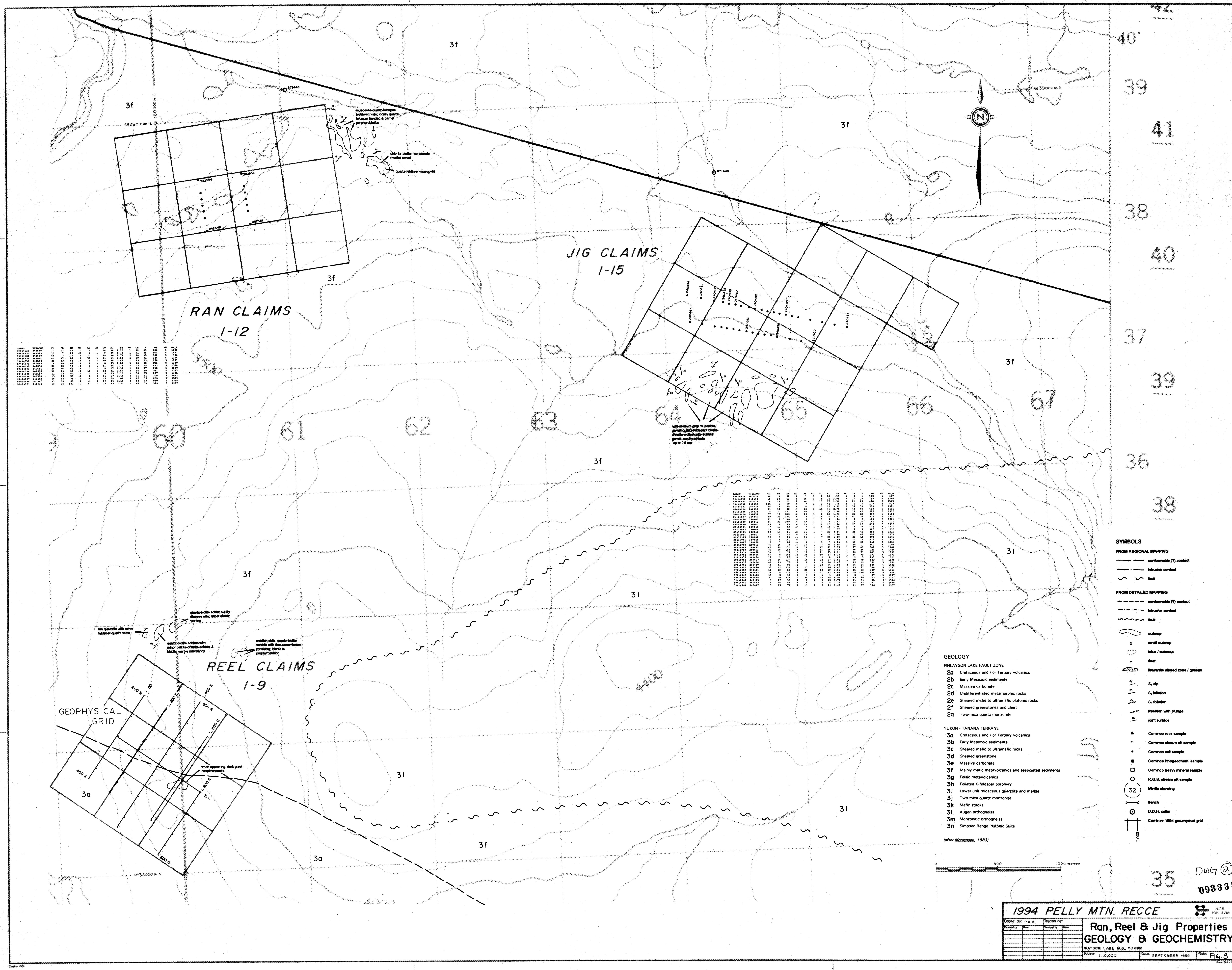


REEL CLAIMS
1-9



1994 PELLY MTN. RECCE				NTS. 105 6/12	
Drawn by: P.A.M.	Traced by:				
Reviewed by:	Checked by:				
Ran, Reel & Jig Properties CLAIMS					
WATSON LAKE M.D., YUKON					
Scale: 1:10,000	Date: SEPTEMBER 1994	Plate: Fig. 2			

DWG 1
093335



- SYMBOLS**
- FROM REGIONAL MAPPING**
- conformable (?) contact
 - intrusive contact
 - fault
- FROM DETAILED MAPPING**
- conformable (?) contact
 - intrusive contact
 - fault
 - outcrop
 - small outcrop
 - valley / subcrop
 - line
 - alteration zone / gossan
 - S₁ dip
 - S₁ foliation
 - S₂ foliation
 - lineation with plunge
 - joint surface
 - Cominco rock sample
 - Cominco stream all sample
 - Cominco soil sample
 - Cominco lithogeochem. sample
 - Cominco heavy mineral sample
 - R.G.S. stream all sample
 - Mineral showing
 - tranch
 - D.D.H. collar
 - Cominco 1994 geophysical grid

- GEOLOGY**
- FINLAYSON LAKE FAULT ZONE**
- 2a Cretaceous and / or Tertiary volcanics
 - 2b Early Mesozoic sediments
 - 2c Massive carbonate
 - 2d Undifferentiated metamorphic rocks
 - 2e Sheared mafic to ultramafic plutonic rocks
 - 2f Sheared greenstones and chert
 - 2g Two-mica quartz monzonite
- YUKON - TANANA TERRANE**
- 3a Cretaceous and / or Tertiary volcanics
 - 3b Early Mesozoic sediments
 - 3c Sheared mafic to ultramafic rocks
 - 3d Sheared greenstone
 - 3e Massive carbonate
 - 3f Mainly mafic metavolcanics and associated sediments
 - 3g Felsic metavolcanics
 - 3h Foliated K-feldspar porphyry
 - 3i Lower unit micaceous quartzite and marble
 - 3j Two-mica quartz monzonite
 - 3k Mafic stocks
 - 3l Augen orthogneiss
 - 3m Monzonitic orthogneiss
 - 3n Simpson Range Plutonic Suite
- (after MacKenzie, 1983)

