COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS 105 G/13, 14

1994 ASSESSMENT REPORT

FRET AND DOT PROPERTIES

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

WATSON LAKE M.D., YUKON

PELLY MOUNTAINS AREA

FRET - LAT: 61°51'
DOT - LAT: 61°50'

FRET - LONG: 131°28'
DOT - LONG: 131°38'

WORK PERIOD

JULY 18,19, 21-27 AND AUGUST 14-15, 1994

APRIL, 1995

PAUL A. MacROBBIE

MAP NO:105G/13,14

ASSESSMENT REPORT: X

PROSPECTUS:

CONFIDENTIAL: X

OPEN FILE:

DOCUMENT NO: 093345

MINING DISTRICT: Watson Lake

TYPE OF WORK:Geochemistry, mapping, geophysics

REPORT FILED UNDER: Cominco Ltd.

DATE PERFORMED:July august 1994

DATE FILED:June 23, 1995

LATITUDE:61 51

AREA:Pelly Mountains

LONGITUDE:131 28

VALUE:$26800

CLAIM NAME AND #:Fret 1-51, Dot 3-34, 37-68

WORK DONE BY:P. MacRobbie

WORK DONE FOR:Cominco Ltd.

DATE TO GOOD STANDING	

REMARKS:Spotty Cu plus Fe and Ba anomalies were identified on the Dot property. No anomalies of interest were reported from the Fret.

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

PROFESSIONAL ENGINEERS AND GEOSCIENTISTS PROVINCE OF BRITISH COLUMBIA P. A. MacROBBIE GEOSCIENTIST

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PAUL A. MacROBBIE

TABLE OF CONTENTS

ATTACHMENTS

1994 ASSESSMENT REPORT
DOT AND FRET PROPERTIES, YUKON TERRITORY

1. SUMMARY

The DOT and FRET properties are located north of the Pelly River and Robert Campbell Highway on the Yukon Plateau, approximately 50 kms eastsoutheast 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 (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.

Both properties appear underlain by rocks correlated to mixed sediments/mafic volcanics of the "*middle unit*".

The FRET property partially straddles the Finlayson Lake Fault Zone, which incorperates both YTT and SMT rocks and structurally seperates the YTT from autocthonous North America. The FRET property is poorly exposed. Outcrops mapped comprise mafic volcanics and gabbroic intrusives with minor intercalated chert and minor zones of serpentinized mafic/ultramafic volcanics. The AEM/HLEM anomalies are possibly structural or related to carbonaceous sediments seen in exposures located off the property. The aeromagnetic feature is a mafic intrusive. Soil geochemistry revealed no anomalies of interest.

The DOT property is relatively well exposed comprising a sequence of fissile, silvery grey muscovite phyllites with minor intercalated, Fe-carbonate altered/veined, chloritic schists and phyllites (mafic volcanics?) and blue quartz-bearing wackes. A quartz-feldspar augened schist unit was mapped at the east end of the property and may reflect the presence of either felsic volcanics or coarse-grained arkosic sediments. An aeromagnetic anomaly coincides with a magnetic intermediate/mafic intrusive. As at the FRET, the AEM conductors are likely related to structures and/or carbonaceous sediments. Soil geochemistry reveals spotty weak to moderate Cu$\pm$Fe and Ba anomalies reflecting a mafic volcanic and sediment association respectively.

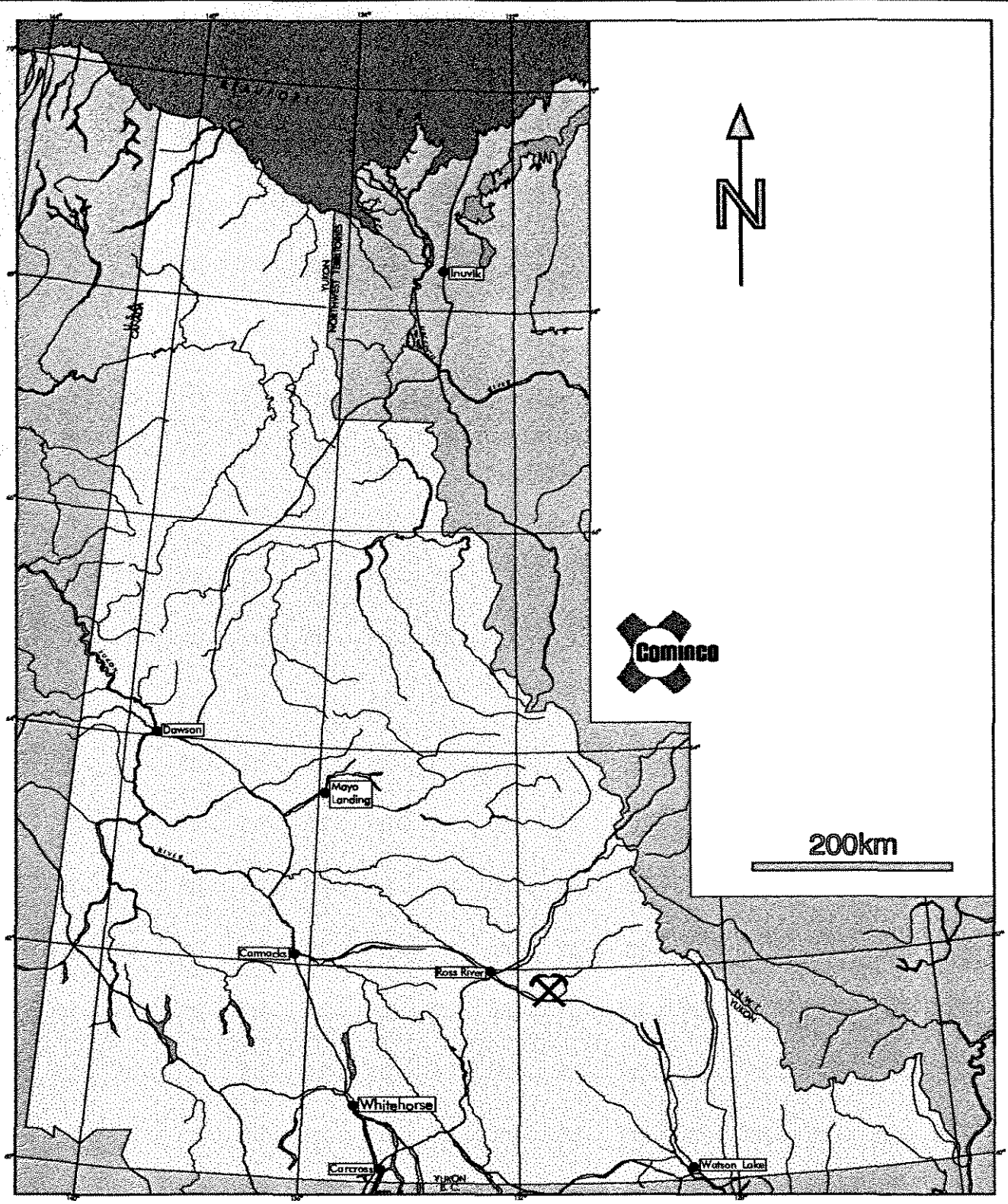
Further geological mapping, prospecting and a small ground geophysical survey (HLEM and MAG) are recommended for the DOT property.

2. LOCATION AND ACCESS

The FRET and DOT properties are located north of the Pelly River and Robert Campbell Highway on the Yukon Plateau, approximately 50 kms eastsoutheast 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.

3. PROPERTY AND OWNERSHIP

The FRET property (51 units) and DOT property (76 units) are both due June 22, 1995 (Figure 2) and are 100% owned by Cominco Ltd.



Drawn by:		Traced by: a. m. a.	
Revised by:	Date:	Revised by:	Date:

FRET and DOT
PROPERTY LOCATIONS

105 G/13,14

Scale:	As Shown	Date:	April, 1995	Plate:	1

NAME	UNITS	CLAIM NO.	DUE DATES
FRET 1-51	51	YB50023-0073	June 22/95
DOT 1-76	76	YB49847-9922	June 22/95

4. PREVIOUS WORK

No previous work has been recorded in the immediate DOT property area.

In the FRET property area, 2 Minfile showings are present. Minfile #111 (TOR) is an occurrance of silicified and Fe-carbonate altered, serpentinized ultramafics staked by Welcome North Mines Ltd. in 1988. Soil geochemistry gave no responses of interest. The property subsequently lapsed. This showing is plotted to the west of the FRET (Figure 3). Minfile#51 (CHOW) was originally staked by Kerr Addison in 1966 following regional geochem surveys. The property lapsed and was staked and restaked several times between 1973 and 1976. Yukon Revenue optioned the ground in 1976 and drilled several holes in 1977. The property was allowed to lapse. Mineralization consisted of pyrite-siderite $\pm$galena-sphalerite-chalcopyrite veins and breccia fillings in phyllites and pyritic schists, proximal to a small diorite intrusive.

5. 1994 WORK

FRET PROPERTY
LINECUTTING

During the period of July 21-27, 1994, a geophysical grid totalling 8.9 line kilometres was cut on the property by Coureur Des Bois Ltd. of Whitehorse, Yukon (Figure 3).

GEOPHYSICAL SURVEYS

Between August 14 and 15, 1994, a total of 7.2 lkms of HLEM, 7.2 lkms of total field MAGNETICS and 1.0 lkms of GRAVITY were surveyed on the grid by a Cominco geophysical crew.

GEOLOGICAL MAPPING

On July 19, 1994, N. J. Callan conducted geological mapping and prospecting on the property (Figure 3).

GEOCHEMISTRY

A total of 47 soil samples and 4 silts were collected on the FRET property. Data is presented in Figure 3 and Appendix 2.

DOT PROPERTY
GEOLOGICAL MAPPING

On July 18, 1994, 1:10,000 scale geological mapping and prospecting was carried out by P. A. MacRobbie, A. B. Mawer and N .J. Callan (Figure 3) on the property.

GEOCHEMISTRY

A total of 67 soils and 2 rock samples were collected on the DOT property. Data is presented in Figure 3 and Appendix 2.

The soil, silt 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 imbriccatted 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 Middle Jurassic to Late Cretaceous thrust faulting (D2), during which the Finlayson Lake Fault Zone was formed. This complex fault zone, which incorperates both YTT and SMT lithologies, contains both thrust and steep, transcurrent(?) faults and seperates the YTT from autocthonous North America.

7. FRET PROPERTY GEOLOGY AND GEOCHEMISTRY

The FRET property appears underlain by rocks correlative to the mixed sediments/mafic volcanics of the "*middle unit*". The FRET property partially straddles the Finlayson Lake Fault Zone.

Outcrop exposure on the property is apparently poor (Figure 3), apart from the highest ground which exposes mafic volcanics and gabbroic intrusives with minor intercaled chert and minor zones or serpentinized mafic/ultramafic volcanics.

The area about the AEM conductor is overburden covered, but coincident with several boggy draws. The AEM/HLEM anomalies are possibly structural or related to carbonaceous sediments seen in exposures located off the property. Several small magnetic features are possibly mafic intrusive related.

Soil geochemistry revealed no anomalies of interest. Several anomalous Cu$\pm$Fe-Ni-V-Cr-Ag samples are present reflecting a mafic/ultramafic volcanic association. A single, strongly anomalous Ba (12682 ppm) sample likely reflects the presence of argillites. No Zn or Pb anomalies are present.

8. DOT PROPERTY GEOLOGY AND GEOCHEMISTRY

The DOT property also appears to be underlain by rocks correlative to the mixed sediments/mafic volcanics of the "*middle unit*".

The property is relatively well exposed comprising a sequence of fissile, silvery grey muscovite phyllites with minor intercalated, Fe-carbonate altered/veined, chloritic schists and phyllites (mafic volcanics?) and blue quartz-bearing wackes (Figure 3). These units are strongly foliated, generally non-graphitic and are locally strongly folded and crenulated adjacent to faults. An south verging, NE dipping thrust fault is exposed at one locality. A 3-4 metre wide, muscovite-mariposite-Fe carbonate-silica (listwanite?) shear zone(?) containing trace disseminated chalcopyrite is locally exposed.

An aeromagnetic anomaly appears to coincide with an equigranular, medium-grained pyroxene-feldspar intrusive containing disseminated fine-grained magnetite and trace pyyrhotite.

The presence of quartz-feldspar augened schists at the east end of the property may reflect felsic volcaniclastics and is, therefore, significant.

Soil geochemistry reveals spotty weak to moderate Cu$\pm$Fe and Ba anomalies reflecting a mafic volcanic and sediment association respectively. Pb values are slightly elevated (up to 42 ppm) and a single coicident Zn(457 ppm)-Cu(124 ppm)$\pm$Pb(27 ppm) is present.

9. CONCLUSIONS and RECOMMENDATIONS

The FRET property lacks any indication of felsic volcanism. The soil anomalies appear to reflect structures or carbonaceous sediments. The HLEM and Magnetics defined anomalies; however, the EM and magnetics were not coincident and no corresponding gravity anomaly was found. No further work is recommended.

The DOT property is dominated by sediments; although, the presence of an augened schist may reflect felsic volcanics or coarse-grained arkosic sediments. Further geological mapping, prospecting and soil geochemistry are recommended for this area.

The magnetic feature on the DOT appears to have been explained. The 2 AEM conductors, although not exposed, lack a coincident magnetic expression and are felt to be likely due to structures within sheared phyllites. A small ground survey (HLEM and MAG) is still 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/

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10. REFERENCES

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(icp)	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)
Fret	S9414486	242508	3	1	2	**	K	4	3	2	45	3	B2	**	49	12	85	0.5	15	1441	1	19	200	2.78	1	93	2	2	52	1	1	54	14	10	791	1.42	0.01	1.62	1.01	0.01	0.07	5	10	3431
Fret	S9414487	242509	3	1	2	**	2N	5	2	2	40	3	B2	**	21	9	62	0.6	13	606	1	11	67	1.66	1	49	2	2	33	2	1	21	9	10	317	0.80	0.01	0.84	0.40	0.01	0.04	5	10	2507
Fret	S9414488	242510	3	1	2	**	3G	23	3	2	40	3	B2	**	39	10	120	0.5	13	1120	1	17	101	2.58	1	151	2	2	54	1	1	64	11	7	728	1.33	0.01	1.45	0.97	0.01	0.06	5	10	2936
Fret	S9414489	242511	3	1	2	**	3B	4	3	2	35	3	B2	**	18	2	42	0.4	1	628	1	6	29	1.24	1	31	2	2	17	1	1	49	6	6	340	0.35	0.01	0.79	1.14	0.02	0.03	5	10	2157
Fret	S9414490	242512	3	1	2	**	2B	5	2	2	40	3	B2	**	45	10	111	0.2	13	839	1	12	61	3.07	1	55	2	2	69	2	1	26	11	10	344	0.97	0.01	1.42	0.47	0.01	0.06	5	10	3309
Fret	S9414491	242513	3	1	2	**	3G	45	3	2	40	2	B2	**	43	7	95	0.2	14	1077	1	9	62	2.66	1	55	2	2	50	1	1	34	14	11	410	0.70	0.01	1.65	0.55	0.01	0.11	5	10	3057
Fret	S9414492	242514	3	1	2	**	2B	34	2	2	40	2	B2	**	24	10	61	0.2	5	1191	1	9	34	2.12	1	42	2	2	46	1	1	20	8	9	445	0.51	0.01	1.34	0.27	0.01	0.06	5	10	3395
Fret	S9414493	242515	3	1	2	**	2B	4	1	2	40	2	B2	**	18	10	51	0.2	8	836	1	5	31	2.10	2	38	2	2	57	1	1	14	7	7	192	0.49	0.01	1.20	0.25	0.01	0.05	5	10	2822
Fret	S9414494	242516	3	1	2	**	2B	4	2	2	40	2	B2	**	18	14	89	0.2	10	653	1	11	42	2.96	1	51	2	2	68	1	1	18	5	7	497	0.67	0.01	1.44	0.25	0.01	0.07	5	10	2405
Fret	S9414495	242517	3	1	2	**	3B	3	3	2	30	2	B2	**	68	11	81	0.2	12	1422	1	11	56	2.24	2	59	2	2	37	1	1	68	34	16	831	0.57	0.01	1.57	1.18	0.01	0.06	5	10	3343
Fret	S9414496	242518	3	1	2	**	1B	34	1	2	40	2	B2	**	17	9	49	0.2	10	385	1	7	43	2.56	1	71	2	2	55	1	1	15	4	6	269	0.74	0.01	1.42	0.21	0.01	0.04	5	10	1836
Fret	S9414497	242519	3	1	2	**	2K	34	3	3	50	3	B2	**	63	6	105	0.4	1	682	1	11	82	2.10	1	45	2	2	33	1	1	51	26	12	427	0.52	0.01	1.20	0.86	0.01	0.06	5	10	2455
Fret	S9414651	240908	1	1	2	**	2B	23	2	2	40	3	B2	**	14	20	87	0.2	9	136	1	4	16	2.40	1	12	2	2	16	2	1	7	3	10	166	0.27	0.01	0.58	0.13	0.01	0.12	5	10	2170
Fret	S9414652	240909	1	1	2	**	NB	23	2	2	35	3	B2	**	19	8	103	0.2	6	286	1	10	40	2.01	1	50	2	2	39	2	1	17	8	7	352	0.63	0.01	1.07	0.28	0.01	0.08	5	10	2745
Fret	S9414653	240910	1	1	2	**	2B	23	2	2	40	2	B2	**	110	13	68	0.2	2	466	1	17	53	4.03	1	28	2	2	64	4	1	44	30	10	478	0.91	0.01	1.77	0.76	0.01	0.13	5	10	3063
Fret	S9414654	240911	1	1	2	**	2N	24	1	2	50	3	B2	**	72	6	81	0.2	6	271	1	11	47	1.80	1	40	2	2	32	1	1	41	13	7	285	0.68	0.01	0.98	0.78	0.02	0.08	5	10	2153
Fret	S9414655	240912	1	1	2	**	3G	25	1	2	40	3	G	**	51	8	112	0.2	2	308	1	18	50	3.46	1	67	2	2	74	2	1	39	10	9	313	1.37	0.08	1.76	0.71	0.01	0.12	5	10	2707
Fret	S9414656	240913	1	1	5	**	3G	35	1	3	40	3	B2	**	46	8	108	0.2	9	427	1	21	49	3.11	1	55	2	2	62	2	1	50	9	8	951	1.26	0.05	1.69	0.86	0.01	0.14	5	10	2674
Fret	S9414657	240914	1	1	5	**	2G	24	1	2	40	2	G	**	14	11	54	0.2	1	364	1	11	85	1.86	1	96	2	2	37	3	1	24	6	6	309	1.40	0.01	0.96	0.45	0.01	0.04	5	10	1980
Fret	S9414658	240915	1	1	5	**	3B	4	3	2	50	2	B1	**	79	5	78	0.2	17	227	1	21	42	4.51	1	23	2	2	188	5	1	45	6	4	731	1.97	0.30	2.34	0.94	0.02	0.88	5	10	1358
Fret	S9414659	240916	1	1	5	**	3B	4	3	3	35	2	A2	**	30	9	98	0.2	11	368	1	8	67	1.91	1	53	2	2	33	3	1	50	11	7	335	0.89	0.01	1.05	1.03	0.01	0.09	5	10	2063
Fret	S9414660	240917	1	1	5	**	3G	25	1	2	35	2	G	1	29	15	92	0.2	8	427	1	11	71	1.83	1	50	2	2	35	1	1	23	11	10	189	0.88	0.01	1.01	0.43	0.01	0.05	5	10	2428
Fret	S9414661	240918	1	1	5	**	GB	25	2	2	45	2	G	**	34	14	125	0.2	14	670	1	29	222	2.94	1	156	2	2	48	4	1	37	11	7	779	1.75	0.01	1.48	0.83	0.01	0.05	5	10	2397
Fret	S9414662	240919	1	2	**	1	2B	23	2	3	20	5	1	**	43	10	166	0.2	1	470	1	16	81	3.01	1	68	2	2	56	3	1	51	12	9	611	1.34	0.03	1.49	0.85	0.01	0.16	5	10	2372
Fret	S9414663	240920	1	1	5	**	3B	23	2	2	40	3	B2	**	24	9	84	0.2	1	483	1	9	65	1.82	1	55	2	2	34	3	1	41	9	8	269	1.09	0.01	1.03	0.49	0.01	0.05	5	10	2400
Fret	S9414664	240921	1	1	2	**	YB	23	1	2	25	3	B2	**	28	7	42	0.2	3	1366	1	3	21	1.18	1	9	2	2	9	1	1	25	1	6	132	0.06	0.01	0.34	0.06	0.01	0.02	5	10	12682
Fret	S9414665	240922	1	1	5	**	3B	4	3	3	45	2	Z	**	22	2	25	0.2	5	465	1	2	21	0.45	1	9	2	2	7	1	1	32	4	2	393	0.14	0.01	0.41	0.63	0.04	0.02	5	10	1654
Fret	S9414666	240923	1	1	5	**	2G	23	1	2	35	3	B2	**	12	8	78	0.2	11	286	1	10	46	1.51	1	49	2	2	31	2	1	21	4	5	267	0.79	0.01	0.84	0.43	0.01	0.05	5	10	2129
Fret	S9414667	240924	1	1	5	**	2G	3	1	2	55	3	B2	**	44	11	74	0.2	1	624	1	12	87	1.83	1	60	2	2	36	1	1	35	11	8	485	0.83	0.01	1.13	0.76	0.01	0.09	5	10	2788
Fret	S9414793	241501	5	1	1	2	2G	23	1	1	30	4	B2	**	39	12	111	0.2	5	509	1	12	68	2.39	1	57	2	2	43	1	1	32	14	11	464	0.76	0.01	1.22	0.60	0.01	0.09	5	10	2823
Fret	S9414794	241502	5	1	2	2	G2	23	3	1	25	4	B2	**	40	10	81	0.2	2	235	1	8	49	1.54	1	32	2	2	24	1	1	61	14	7	356	0.42	0.01	0.74	1.72	0.01	0.11	5	10	1809
Fret	S9414795	241503	5	1	2	2	2G	23	2	1	25	4	B2	**	37	12	59	0.2	6	310	1	9	45	2.07	1	34	2	2	33	1	1	42	13	7	379	0.78	0.05	1.13	0.79	0.02	0.29	5	10	2663
Fret	S9414796	241504	5	1	2	2	1B	23	2	1	30	4	B2	**	19	11	57	0.2	9	262	1	10	34	2.30	1	40	2	2	37	1	1	20	4	6	259	0.48	0.01	1.05	0.40	0.01	0.08	5	10	2165
Fret	S9414797	241505	5	1	2	2	BR	23	2	1	30	4	B2	**	38	9	61	0.2	1	379	1	20	42	4.14	1	69	2	2	97	1	1	22	5	7	556	0.92	0.01	2.03	0.37	0.01	0.05	5	10	1712
Fret	S9414798	241506	5	1	2	2	2B	23	3	2	35	4	B2	**	109	2	46	0.2	1	171	1	8	29	1.30	1	12	2	2	17	1	1	104	9	4	296	0.35	0.01	0.71	4.40	0.04	0.02	5	9	673
Fret	S9414799	241507	5	1	2	2	3G	23	3	1	40	4	B1	**	124	5	65	0.2	4	157	1	21	63	3.41	1	69	2	2	69	1	1	41	14	5	561	1.47	0.01	1.84	1.63	0.01	0.06	5	10	2032
Fret	S9414800	241508	5	1	2	2	3G	25	3	2	30	3	B1	**	20	2	55	0.2	6	220	1	4	28	0.94	1	20	2	2	19	1	1	42	3	4	118	0.42	0.01	0.66	0.70	0.04	0.07	5	10	1926
Fret	S9414801	241509	5	1	2	2	2B	23	2	1	30	3	B2	**	14	5	37	0.2	1	378	1	5	31	0.86	1	20	2	2	16	1	1	14	3	4	316	0.23	0.01	0.77	0.20	0.03	0.06	5	10	2011
Fret	S9414802	241510	5	1	2	2	B	23	2	2	30	2	B2	**	16	10	40	0.2	1	279	1	3	21	1.62	1	25	2	2	26	1	1	12	3	11	155	0.24	0.01	0.70	0.15	0.01	0.06	5	10	1587
Fret	S9414803	241511	5	1	2	2	2G	23	2	2	35	2	B2	**	22	4	35	0.2	1	216	1	3	23	0.79	1	10	2	2	8	1	1	36	3	6	765	0.18	0.01	0.50	0.68	0.04	0.04	5	10	1666
Fret	S9414804	241512	5	1	2	2	2G	35	2	2	40	3	B2	**	46	14	141	0.2	2	548	1	12	83	2.18	2	46	2	2	45	2	1	53	14	10	510	1.03	0.01	1.09	1.16	0.01	0.13	5	10	2663
Fret	S9414805	241513	5	1	2	2	2B	23	3	1	25	2	B2	**	30	10	71	0.2	1	623	1	16	133	2.01	1	78	2	2	36	1	1	30	11	8	750	1.22	0.01	1.14	0.61	0.01	0.06	5	10	2302
Fret	S9414806	241514	5	1	2	2	3G	52	2	2	45	3	B1	**	58	12	84	0.2	5	673	1	11	146	1.61	1	59	2	2	31	1	1	50	13	9	625	0.86	0.01	1.02	1.03	0.02	0.05	5	10	2421
Fret	S9414807	241515	5	1	2	2	2B	35	3	2	45	3	A2	**	18	2	52	0.2	1	274	1	2	30	0.24	1	4	2	2	4	1	1	69	2	2	564	0.21	0.01	0.47	1.63	0.04	0.01	5	10	1275
Fret	S9414808	241516	5	1	2	2	1B	23	2	1	30	3	B2	**	19	5	64	0.2	4	355	1	5	54	1.06	1	24	2	2	22	1	1	23	7	6	185	0.36	0.01	0.65	0.36	0.02	0.05	5	10	2176
Fret	S9414809	241517	5	1	2	2	3K	23	3	2	40	3	Z	**	23	5	78	0.2	1	780	1	8	75	1.02	1	36	2	2	16	1	1	182	6	4	1224	0.70	0.01	0.59	2.63	0.02	0.04	5	10	2206
Fret	S9414810	241518	5	1	2	2	2G	23	2	2	20	2	B2	**	5	5	33	0.2	1	154	1	2	9	0.67	1	14	2	2	18	1	1	14	1	5	74	0.22	0.01	0.55	0.18	0.01	0.03	5	10	1476
Fret	S9414876	243031	**	2	1	1	3G	4	1	3	-1	12	2	**	28	9	111	0.4	12	365	1	11	80	1.96	2	54	2	2	37	1	1	48	11	8	447	1.04	0.01	0.90	0.73	0.01	0.09	5	10	2312
Fret	S9414877	243032	**	2	1	1	3G	4	1	3	10	55	2	**	30	11	107	0.4	1	432	1	10	64	1.67	1	46	2	2	33	1	1	49	11	8	573	0.80	0.01	0.83	0.92	0.01	0.07	5	10	2163
Fret	S9414878	243033	**	2	1	1	3G	4	1	2	20	12	2	**	24	10	107	0.2	13	501	1	8	44	1.47	1	30	2	2	31	1	1	72	13	9	318	0.72	0.01	0.69	1.01	0.01	0.07	5	10	2321
Fret	S9414879	243034	**	2	1	1	3G	34	1	3	10	52	2	**	22	10	102	0.4	7	364	1	9	52	1.60	1	41	2	2	32	1	1	52	11	9	338	0.77	0.01	0.80	0.69	0.01	0.08	5	10	2115

Property	LabNo	FieldNo	S	M	O	S	Col	Sz	O	W	Dph	W/S	F/W	P	Cu	Pb	Zn	Ag	As	Ba(icp)	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)
Dot	S9414498	242520	3	1	2	**	1G	5	2	2	45	1	B2	**	58	12	110	0.2	25	266	1	19	60	3.08	1	38	2	2	36	1	1	83	12	14	560	1.16	0.01	1.33	3.52	0.01	0.11	5	10	1955
Dot	S9414499	242521	3	1	2	**	1G	5	2	2	50	1	B2	**	62	11	84	0.2	33	348	1	17	61	2.96	1	43	2	2	37	1	1	98	12	12	492	1.35	0.01	1.38	4.29	0.01	0.10	5	10	2002
Dot	S9414500	242522	3	1	2	**	K	4	3	2	45	1	Z	**	14	2	47	0.2	8	146	1	4	12	0.81	1	12	2	2	10	1	1	78	3	4	289	0.57	0.01	0.56	2.18	0.03	0.04	5	10	1074
Dot	S9414501	242523	3	1	2	**	1G	5	2	2	50	1	B2	**	52	11	81	0.2	25	186	1	19	53	3.03	1	35	2	2	29	1	1	77	11	15	465	1.12	0.01	1.32	4.30	0.01	0.09	5	10	1658
Dot	S9414502	242524	3	1	2	**	1G	23	1	2	50	1	B2	**	41	11	64	0.2	28	143	1	15	38	2.65	1	26	2	2	25	1	1	68	12	15	434	0.94	0.01	1.03	2.68	0.01	0.05	5	10	1497
Dot	S9414503	242525	3	1	2	**	1G	23	1	2	45	1	B2	**	32	9	52	0.2	10	97	1	12	28	1.78	1	18	2	2	19	1	1	79	11	13	314	0.81	0.01	0.79	3.24	0.01	0.04	5	10	1323
Dot	S9414504	242526	3	1	2	**	3G	23	1	2	50	1	B2	**	34	8	60	0.2	19	218	1	9	28	2.17	1	18	2	2	20	1	1	87	8	7	304	0.77	0.01	0.74	2.12	0.01	0.05	5	10	1419
Dot	S9414505	242527	3	1	2	**	2G	5	2	2	55	1	B2	**	60	11	96	0.2	32	228	1	18	58	3.27	1	43	2	2	43	2	1	50	13	14	536	1.19	0.01	1.46	1.65	0.01	0.13	5	10	2058
Dot	S9414506	242528	3	1	2	**	1G	5	2	2	45	1	B2	**	64	15	109	0.2	14	314	1	16	63	3.25	1	47	2	2	48	2	1	55	13	13	489	1.21	0.01	1.47	1.83	0.01	0.12	5	10	2247
Dot	S9414507	242529	3	1	2	**	3G	45	3	2	45	1	B2	**	46	9	108	0.2	22	189	1	12	45	2.91	1	40	2	2	38	1	1	45	10	12	225	1.04	0.01	1.49	1.17	0.01	0.12	5	10	1880
Dot	S9414508	242530	3	1	2	**	1G	5	2	2	45	1	B2	**	41	11	96	0.2	10	193	1	12	37	2.73	1	30	2	2	31	1	1	53	13	13	350	0.82	0.01	1.21	1.44	0.01	0.08	5	10	1727
Dot	S9414509	242531	3	1	2	**	2G	45	2	3	45	1	B2	**	51	11	92	0.2	19	200	1	16	53	3.18	1	34	2	2	33	1	3	62	12	16	501	0.97	0.01	1.28	2.72	0.01	0.09	5	10	1751
Dot	S9414510	242532	3	1	1	1	3G	23	2	2	10	2	B2	**	43	9	70	0.2	15	389	1	15	34	3.03	1	24	2	2	45	1	1	74	15	12	558	1.20	0.03	1.10	2.16	0.01	0.16	5	10	1807
Dot	S9414566	240396	2	1	2	**	1K	2	2	2	30	2	B2	**	94	17	161	0.2	30	955	2	15	81	3.05	1	23	2	2	43	3	1	57	18	9	585	0.51	0.01	0.94	0.68	0.01	0.08	5	10	3891
Dot	S9414567	240397	2	1	2	**	K	23	3	3	30	2	B2	**	16	5	45	0.2	9	799	1	4	13	0.94	2	11	2	2	18	1	1	62	5	4	396	0.24	0.01	0.59	1.22	0.02	0.02	5	10	3418
Dot	S9414568	240398	2	1	2	**	K	4	3	2	30	2	Z	**	16	6	72	0.2	9	622	1	7	16	1.41	3	17	2	2	25	1	1	36	4	5	348	0.33	0.01	0.81	0.81	0.02	0.04	5	10	2561
Dot	S9414569	240399	2	1	2	**	K	4	3	2	35	2	Z	**	24	13	97	0.2	7	1388	1	7	20	1.59	1	11	2	2	30	1	1	71	8	6	322	0.32	0.01	0.64	1.98	0.02	0.02	5	10	3446
Dot	S9414570	240400	2	1	2	**	K	4	3	2	35	2	Z	**	51	13	113	0.2	28	308	1	12	44	2.82	1	29	2	2	31	1	1	44	12	9	191	0.64	0.01	1.04	1.12	0.01	0.06	5	10	2017
Dot	S9414571	240401	2	1	2	**	K	4	2	2	35	2	Z	**	32	2	96	0.2	10	277	1	8	24	1.07	1	10	2	2	12	1	1	79	3	4	822	0.34	0.01	0.70	2.88	0.02	0.03	5	10	1240
Dot	S9414572	240402	2	1	2	**	3G	25	2	2	30	2	B2	**	55	13	106	0.2	30	459	1	17	63	3.67	1	40	2	2	43	3	4	29	13	11	472	0.79	0.01	1.38	0.81	0.01	0.10	5	10	2720
Dot	S9414573	240403	2	1	2	**	K	4	3	3	30	2	Z	**	23	5	102	0.2	4	149	1	5	16	0.91	1	9	2	2	9	1	1	69	4	4	315	0.35	0.01	0.57	2.09	0.03	0.02	5	10	1088
Dot	S9414574	240404	2	1	2	**	K	4	3	2	35	2	Z	**	52	10	117	0.2	23	330	1	18	55	2.78	2	36	2	2	34	1	1	49	9	8	544	0.71	0.01	1.32	1.32	0.01	0.08	5	10	1994
Dot	S9414575	240405	2	1	2	**	1G	3	2	2	35	3	B2	**	19	12	124	0.2	25	801	1	9	20	2.35	3	16	2	2	30	1	1	40	6	6	571	0.27	0.01	0.68	0.70	0.02	0.03	5	10	3720
Dot	S9414576	240406	2	1	2	**	K	4	3	2	30	3	Z	**	22	11	125	0.2	16	1223	1	9	24	1.86	3	15	2	2	36	1	1	43	6	6	345	0.35	0.01	0.82	0.99	0.02	0.06	5	10	3815
Dot	S9414577	240407	2	1	2	**	K	4	3	2	40	3	Z	**	-1	-1	-1	-1.0	-1	-1	-1	-1	-1	-1.00	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	5	10	-1
Dot	S9414578	240408	2	1	2	**	K	34	3	2	40	3	Z	**	8	2	30	0.2	1	522	1	1	11	0.30	1	2	2	2	4	1	1	32	1	2	46	0.04	0.01	0.35	1.04	0.04	0.02	5	10	1843
Dot	S9414579	240409	2	1	2	**	K	4	3	2	40	3	Z	**	15	2	85	0.2	1	274	2	2	11	0.21	1	2	2	2	2	2	1	51	1	2	540	0.11	0.01	0.30	2.19	0.04	0.01	5	10	1128
Dot	S9414580	240410	2	1	2	**	KG	45	3	2	35	3	B2	**	41	16	148	0.2	22	388	1	7	29	2.03	4	19	2	2	36	1	1	56	8	7	305	0.39	0.01	0.88	0.59	0.01	0.09	5	10	2927
Dot	S9414581	240411	2	1	2	**	K	45	3	2	40	4	-1	**	-1	-1	-1	-1.0	-1	-1	-1	-1	-1	-1.00	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	5	10	-1
Dot	S9414582	240412	2	1	2	**	BR	4	3	2	20	4	B2	**	14	12	52	0.2	18	100	1	2	13	1.86	3	11	2	2	64	1	1	8	1	4	82	0.10	0.01	0.84	0.05	0.01	0.03	5	10	1448
Dot	S9414583	240413	2	1	2	**	KG	34	3	2	30	4	B2	**	58	17	188	0.2	1	776	1	13	40	2.97	1	22	2	2	61	1	1	77	12	10	554	0.65	0.01	1.28	0.76	0.01	0.09	5	10	3589
Dot	S9414584	240414	2	1	2	**	-1	1	3	**	40	4	Z	**	-1	-1	-1	-1.0	-1	-1	-1	-1	-1	-1.00	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1	-1	-1
Dot	S9414585	240415	2	1	2	**	-1	-1	3	**	50	4	Z	**	-1	-1	-1	-1.0	-1	-1	-1	-1	-1	-1.00	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1	-1	-1
Dot	S9414586	240416	2	1	2	**	3G	23	3	2	30	3	B2	**	58	20	154	0.2	33	657	1	14	43	3.01	2	19	2	2	39	2	1	49	16	9	696	0.47	0.01	0.91	0.62	0.01	0.08	5	10	3409
Dot	S9414811	241519	5	1	2	2	2B	23	1	1	25	2	B2	**	9	17	53	0.2	24	310	1	7	22	2.74	1	31	2	2	39	1	1	8	1	12	142	0.41	0.01	1.41	0.07	0.01	0.04	5	10	1940
Dot	S9414812	241520	5	1	2	2	3K	34	3	1	30	2	B1	**	9	2	18	0.2	1	68	1	2	5	0.29	1	2	2	2	2	1	1	43	1	2	730	0.09	0.01	0.35	0.76	0.04	0.01	5	10	1243
Dot	S9414813	241521	5	1	2	2	KG	25	2	1	30	2	B2	**	67	9	38	0.2	19	321	1	12	35	2.69	1	12	2	2	15	1	1	116	12	5	1110	0.46	0.01	0.74	2.01	0.01	0.02	5	10	1635
Dot	S9414814	241522	5	1	2	2	2G	5	1	2	40	3	B2	**	22	6	34	0.2	19	91	1	7	19	1.30	1	11	2	2	10	1	1	25	5	9	204	0.26	0.01	0.65	0.58	0.03	0.03	5	10	1381
Dot	S9414815	241523	5	1	2	2	3G	5	2	1	30	3	B2	**	40	9	84	0.2	30	216	1	12	42	2.20	2	31	2	2	28	1	1	59	7	8	330	0.77	0.01	1.13	1.07	0.02	0.08	5	10	1707
Dot	S9414816	241524	5	1	2	2	3G	5	2	2	45	3	B2	**	16	4	42	0.2	15	180	1	6	16	1.13	1	14	2	2	17	1	1	27	3	5	223	0.32	0.01	0.74	0.60	0.03	0.04	5	10	1490
Dot	S9414817	241525	5	1	2	2	3G	5	3	3	45	3	B2	**	35	8	68	0.2	50	195	1	14	37	2.38	1	17	2	2	18	1	1	47	9	10	1049	0.56	0.01	1.01	1.06	0.02	0.06	5	10	1784
Dot	S9414818	241526	5	1	2	2	2G	23	2	1	30	3	B2	**	35	8	70	0.2	41	188	1	8	33	1.96	1	16	2	2	19	1	1	48	10	10	249	0.50	0.01	1.01	1.29	0.02	0.07	5	10	1828
Dot	S9414819	241527	5	1	2	2	2G	25	2	2	30	3	B2	**	55	13	89	0.2	49	223	1	17	51	3.37	2	30	5	2	36	1	1	26	13	13	539	0.96	0.01	1.54	0.51	0.01	0.10	5	10	2391
Dot	S9414820	241528	5	1	2	2	BR	23	1	1	25	3	B2	**	14	10	66	0.2	38	329	1	10	22	2.59	2	31	2	2	40	1	1	8	2	11	243	0.58	0.01	1.65	0.12	0.01	0.04	5	10	1924
Dot	S9414821	241529	5	1	2	2	2B	23	2	1	20	3	B2	**	124	27	456	0.2	45	64	2	22	47	4.07	1	7	5	2	7	1	1	18	23	24	351	0.27	0.01	0.83	0.38	0.01	0.03	5	10	1415
Dot	S9414822	241530	5	1	2	2	2G	25	1	2	30	3	B2	**	32	12	57	0.2	104	73	1	17	41	2.36	2	23	2	2	11	1	1	76	9	31	169	0.68	0.01	0.98	2.27	0.01	0.05	5	10	4420
Dot	S9414823	241531	5	1	2	2	K	23	3	3	50	1	A1	**	22	2	80	0.2	40	161	1	3	9	0.42	2	2	2	2	7	1	1	127	1	1	751	0.25	0.01	0.28	3.13	0.06	0.03	5	4	463
Dot	S9414824	241532	5	1	2	2	BK	35	3	2	40	2	A2	**	4	2	12	0.2	1	24	1	1	1	0.07	1	2	2	2	2	1	1	20	1	1	20	0.05	0.01	0.23	0.33	0.05	0.01	5	10	1276
Dot	S9414825	241533	5	1	2	2	3G	23	1	1	30	2	B2	**	75	31	140	0.8	44	183	1	8	45	3.49	9	21	2	2	121	1	1	17	8	8	173	0.32	0.01	1.37	0.29	0.01	0.04	5	10	2458
Dot	S9414826	241534	5	1	2	2	BG	23	2	1	30	2	B2	**	35	10	34	0.2	1	176	1	12	25	2.65	1	12	2	2	13	1	1	27	14	17	562	0.32	0.01	1.11	1.34	0.01	0.03	5	10	1917
Dot	S9414827	241535	5	1	2	2	2G	23	2	1	35	2	B2	**	32	8	47	0.2	20	131	1	10	27	2.26	1	12	2	2	13	2	1	27	9	10	319	0.31	0.01	0.78	0.80	0.02	0.03	5	10	1664
Dot	S9414828	241536	5	1	2	2	2G	23	2	1	30	2	B2	**	22	7	47	0.2	2	95	1	8	21	1.69	1	13	2	2	10	1	1	36	9	13	295	0.48	0.01	0.88	1.18	0.02	0.02	5	10	1306
Dot	S9414829	241537	5	1	2	2	2G	5	1	2	40	2	B2	**	56	12	72	0.2	18	149	1	16	38	3.06	1	22	2	2	16	1	1	34	16	21	302	0.81	0.01	1.16	1.69	0.01	0.02	5	10	1556
Dot	S9414830	241538	5	1	2	2	K	35	3	2	40	2	B2	**	34	2	145	0.2	29	208	1	10	19	2.32	1	4	2	2	4	1	1	62	6	4	925	0.21	0.01	0.62	2.47	0.05	0.01	5	10	841
Dot	S9414831	241539	5	1	2	2	BG	23	2	1	30	2	B2	**	62	42	46	0.2	57	33	1	21	37	2.47	1	15	2	2	10	1	1	63	17	29	281	0.81	0.01	1.08	3.30	0.01	0.02	5	10	1481
Dot	S9414832	241540	5	1	2	2	BR	23	1	1	30	2	B2	**	22	11	32	0.2	3	38	1	12	28	2.51	1	13	2	2	5	1	1	8	29	31	377	0.44	0.01	1.04	0.14	0.01	0.01	5	10	1666
Dot	S9414833	241541	5	1	2	2	2B	12	1	1	30	3	B2	**	31	17	54	0.2	123	43	1	16	30	2.92	1	15	2	2	6	1	1	34	22	8	480	0.71	0.01	1.15	1.38	0.01	0.01	5	10	1073
Dot	S9414834	241542	5	1	2	2	3B	5	2	2	30	2	B2	**	35	7	68	0.2	21	136	1	10	35	1.84	1	20	2	2	13	1	1	41	9	10	224	0.47	0.01	0.97	0.91	0.03	0.03	5	10	1606
Dot	S9414835	241543	5	1	2	2	1G	23	1	1	30	3	B1	**	27	18	84	0.2	29	176	1	13	39	3.09	1	36	2	2	26	1	1	19	5	12	485	0.65	0.01	1.30	0.47	0.01	0.05	5	10	1639
Dot	S9414836	241544	5	1	2	2	2G	23	2	1	30	2	B2	**	26	11	56	0.2	24	223	1	12	31	2.34	1	28	2	2	23	1	1	19	7	15	368	0.62	0.01	1.34	0.49	0.01	0.05	5	10	1573
Dot	S9414837	241545	5	1	2	2	1G	5	1	1	30	2	B2	**	48	16	86	0.2	40	256	1	19	50	3.36	1	30	2	2	22	1	1	30	15	22	499	0.94	0.01	1.59	1.01	0.01	0.06	5	10	1775
Dot	S9414838	241546	5	1	2	2	3G	35	2	2	30	2	B2	**	38	14	54	0.2	22	94	1	15	31	3.15	1	20	2	2	13	1	1	21	23	28	673	0.88	0.01	1.47	0.74	0.01	0.04	5	10	1441
Dot	S9414839	241547	5	1	2	2	2G	5	1	2	30	2	B2	**	32	7	38	0.2	19	85	1	15	32	2.76	1	10	2	2	8	1	1	38	11	31	459	0.63	0.01	0.72	4.06	0.01	0.03	5	10	1720
Dot	S9414840	241548	5	1	2	2	BR	23	1	1	30	2	B2	**	164	8	92	0.2	37	295	1	26	53	7.67	2	17	2	2	28	2	1	39	23	5	825	0.42	0.01	1.37	1.21	0.01	0.02	5	10	2855

Dot	S9414841	241549	5	1	2	2	KG	35	3	2	45	2	A2	**	14	2	18	0.2	4	118	1	2	8	0.68	1	4	2	2	6	1	1	50	2	3	128	0.22	0.01	0.53	1.31	0.03	0.01	5	10	1195
Dot	S9414842	241550	5	1	2	2	2G	12	1	1	30	2	B2	**	82	5	54	0.2	7	89	1	20	59	4.01	1	33	2	2	36	1	1	42	12	20	276	0.98	0.01	1.70	3.65	0.01	0.05	5	10	2008
Dot	S9414843	241551	5	1	1	2	2G	25	1	1	30	3	B2	**	57	13	77	0.2	20	167	1	20	52	3.68	1	27	2	2	23	2	1	24	17	23	154	0.80	0.01	1.49	0.89	0.01	0.06	5	10	2084

APPENDIX 3

STATEMENTS OF EXPENDITURES

FRET PROPERTY

STAFF COSTS	777
DOMICILE	327
LINECUTTING	7,750
HELICOPTER	7,704
GEOPHYSICS	3,814
HELICOPTER	2,016
GEOCHEMISTRY	867
HELICOPTER	720
COMMUNICATIONS	36
TRUCK RENTAL	76
FREIGHT	236
EXPEDITING	48
DRAFTING	228
TOTAL	**24,559**

DOT PROPERTY

STAFF COSTS	1,440
DOMICILE	600
GEOCHEMISTRY	1,181
HELICOPTER	2,376
COMMUNICATIONS	48
TRUCK RENTAL	100
FREIGHT	310
EXPEDITING	63
DRAFTING	300
TOTAL	**6,418**

APPENDIX 4:

GEOPHYSICAL TARGET EVALUATION & FIGURES

PELLY MTN - GEOPHYSICAL TARGET EVALUATION

TARGET NAME: H1 **NTS:** 105G/14SW

CLAIMS: FRET

GEOLOGY:

Strattles Finlayson Fault Zone. Area has poor exposure, though the limited outcrop reveals mafic volcanics and gabbroic intrusives with minor intercalated chert and zones of serpentinized mafic/ultramafic volcanics.

GEOPHYSICS:

SURVEY	KMS	DATES
HLEM	3.6	Aug. 14
MAGNETICS	4.0	Aug. 14
GRAVITY	1.0	Aug. 16
OTHER		

Three closely paced narrow conductors within a 250 m wide conductive zone. Moderate conductances (15-35 S) at shallow depths (7-18 m). A discrete magnetic feature occurs on the south side of the conductor has prominent 200-800 nT response in an area of flat magnetics, and appears to reflect the presence of a mafic dyke. Conductors veer away from the magnetic feature on the easternmost line, L-600E. Gravity was run along L-00 and showed the conductivity to be confined to a local gravity low.

CONCLUSIONS:

The conductors are probably due to carbonaceous sediments seen in exposures beyond the grid area, whereas the magnetic feature correlates well with a mafic intrusive.

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 ±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: H2 **NTS:** 105G/14SW

CLAIMS: FRET

GEOLOGY:

Strattles Finlayson Fault Zone. Area has poor exposure, though the limited outcrop reveals mafic volcanics and gabbroic intrusives with minor intercalated chert and minor zones of serpentinized mafic/ultramafic volcanics.

GEOPHYSICS:

SURVEY	KMS	DATES
HLEM	3.2	Aug. 14,15
MAGNETICS	3.2	Aug. 14
GRAVITY		

Strong wide conductor along southern margin of grid and a weak conductor immediately north of BL-00. Southern conductor is quite wide (>100m) although the southern margin of the conductor was not outlined. Conductances are moderate to high, ranging from 8 to 34 S, and typically at depths of <5m. A weak deeper conductor subparallels 250-300 m to the north, occuring at depths in the order of 25 m. The conductors flank a wide magnetic feature which has a magnetic relief of 100-700 nT.

CONCLUSIONS:

The southern conductor is of interest due to its high δt and significant width. However, the lack of direct magnetic signature downgrades the target somewhat. More geological support is required, though a gravity line may be warranted. This is a low priority target, since the source is probably carbonaceous sediments that are exposed in the area.

RECOMMENDATIONS:

A low priority target, though a line of gravity may be warranted.

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 ±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

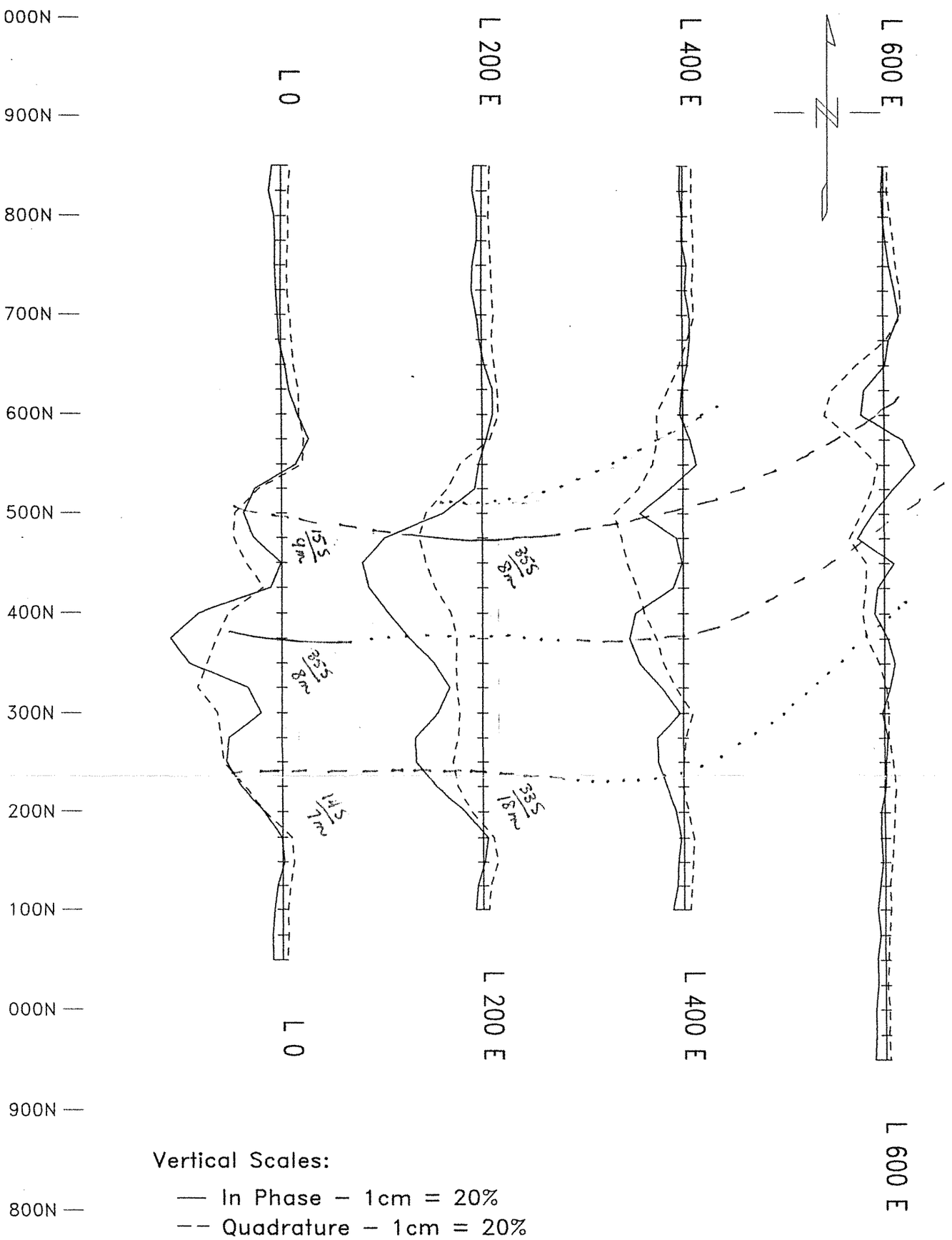
The total field magnetic data are presented in both profile and contour formats, on 1:2,500 plan maps. The total field profiles are plotted at a vertical scale of 1 cm = 250 nT for each grid area. The magnetics contour map of the ABM Zone is plotted with a contour interval of 50 nT.

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).



Vertical Scales:

— In Phase – 1cm = 20%

-- Quadrature – 1cm = 20%

Scale 1:5000

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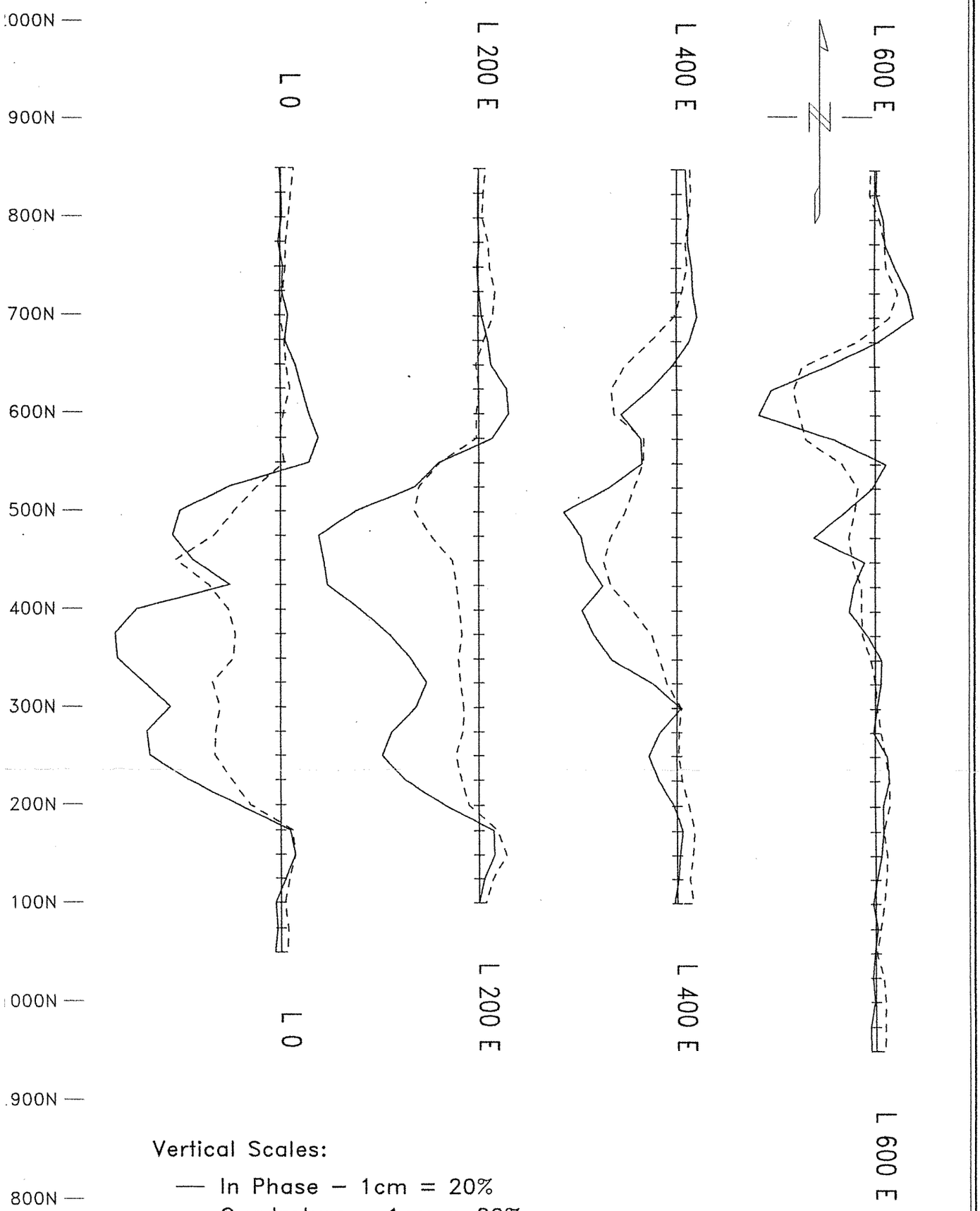
(meters)

COMINCO EXPLORATION
TAG PROPERTY H1 GRID HORIZONTAL LOOP EM
440 Hz 100m cs
COMINCO GEOPHYSICS

093345



Vertical Scales:

— In Phase – 1cm = 20%

-- Quadrature – 1cm = 20%

Scale 1:5000

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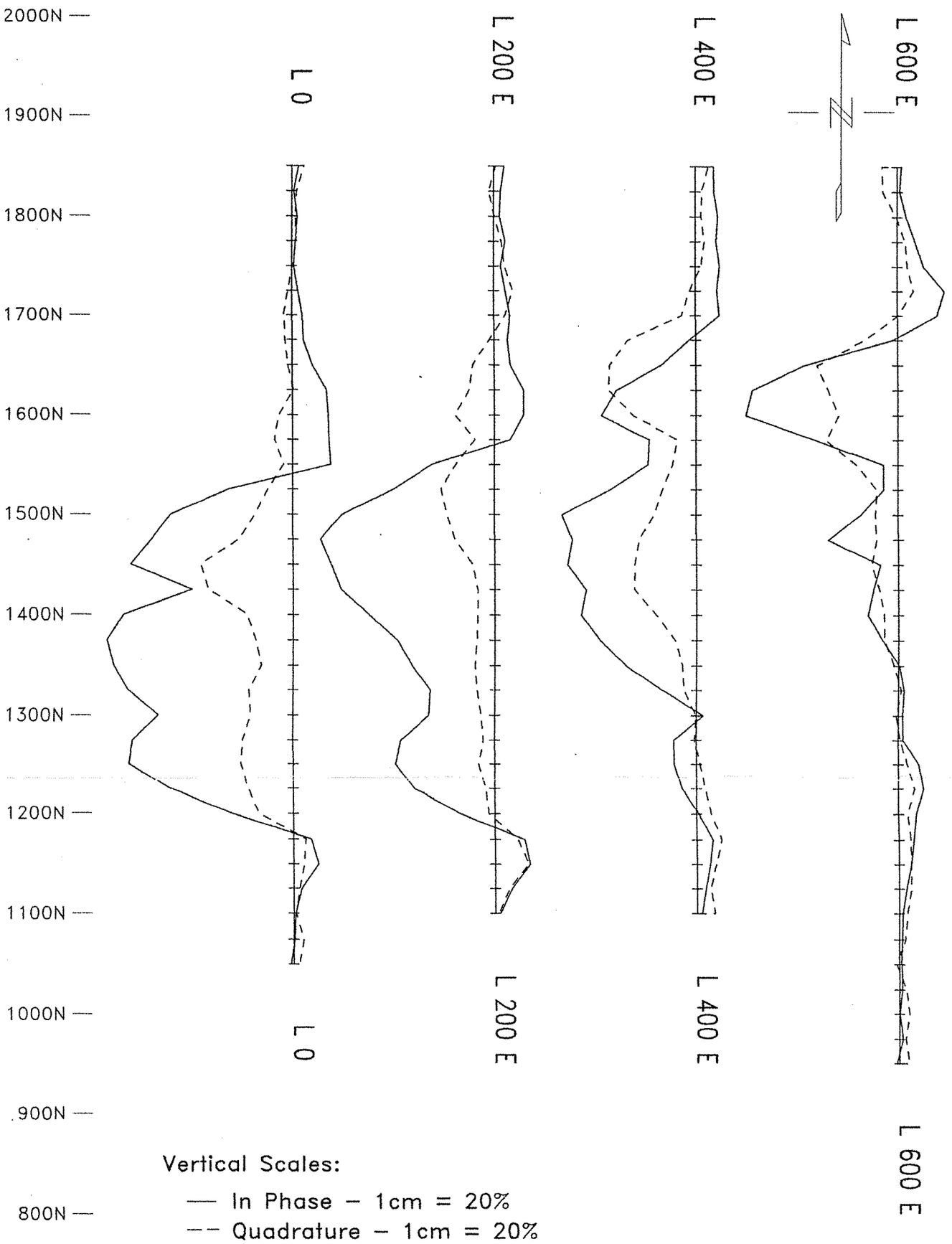
(meters)

COMINCO EXPLORATION
TAG PROPERTY H1 GRID HORIZONTAL LOOP EM
1760 Hz 100m cs
COMINCO GEOPHYSICS

093345



Vertical Scales:

— In Phase – 1cm = 20%

-- Quadrature – 1cm = 20%

Scale 1:5000

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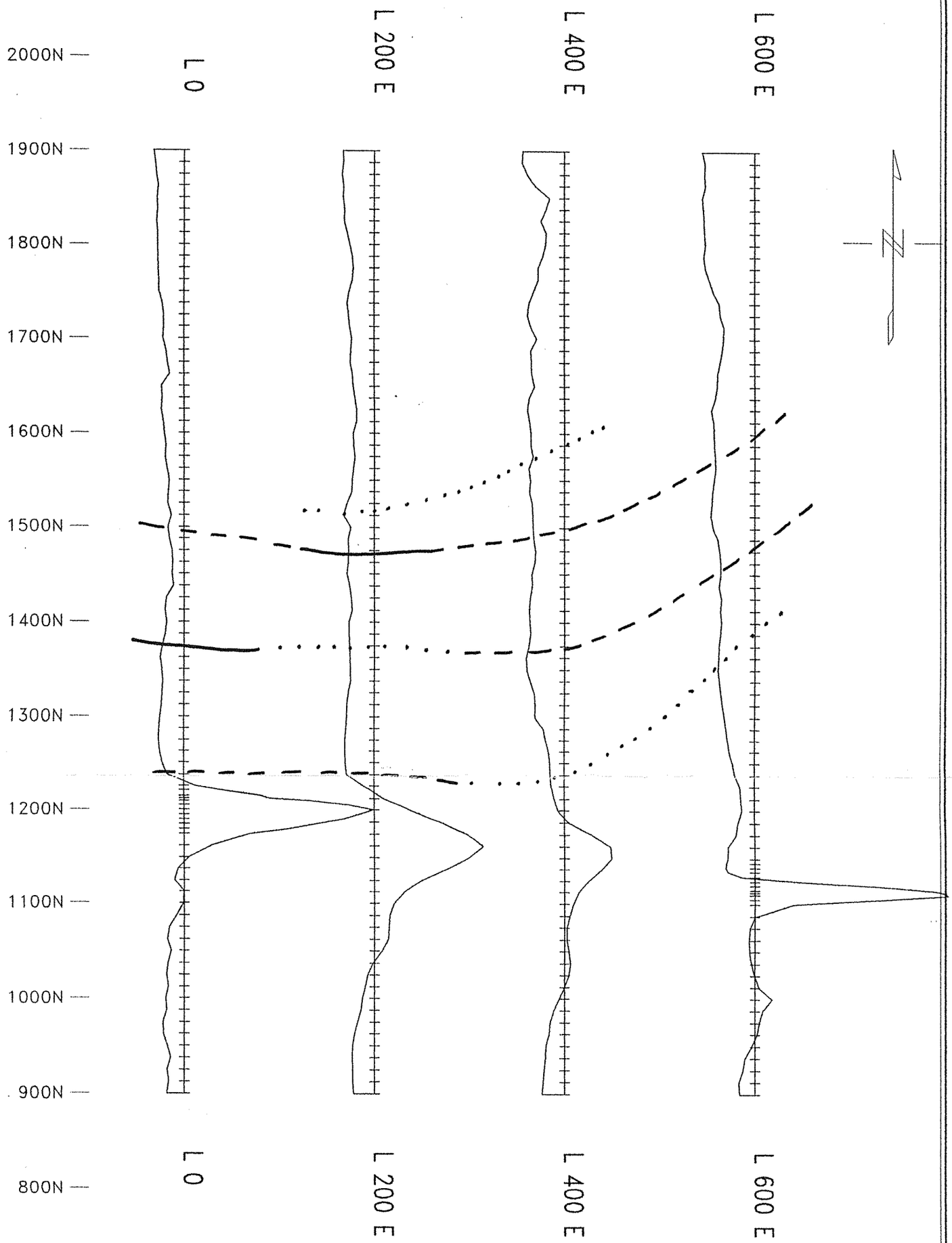
(meters)

COMINCO EXPLORATION
TAG PROPERTY H1 GRID HORIZONTAL LOOP EM
3520 Hz 100m cs
COMINCO GEOPHYSICS

093345



Vertical Scale: 1cm = 200nT

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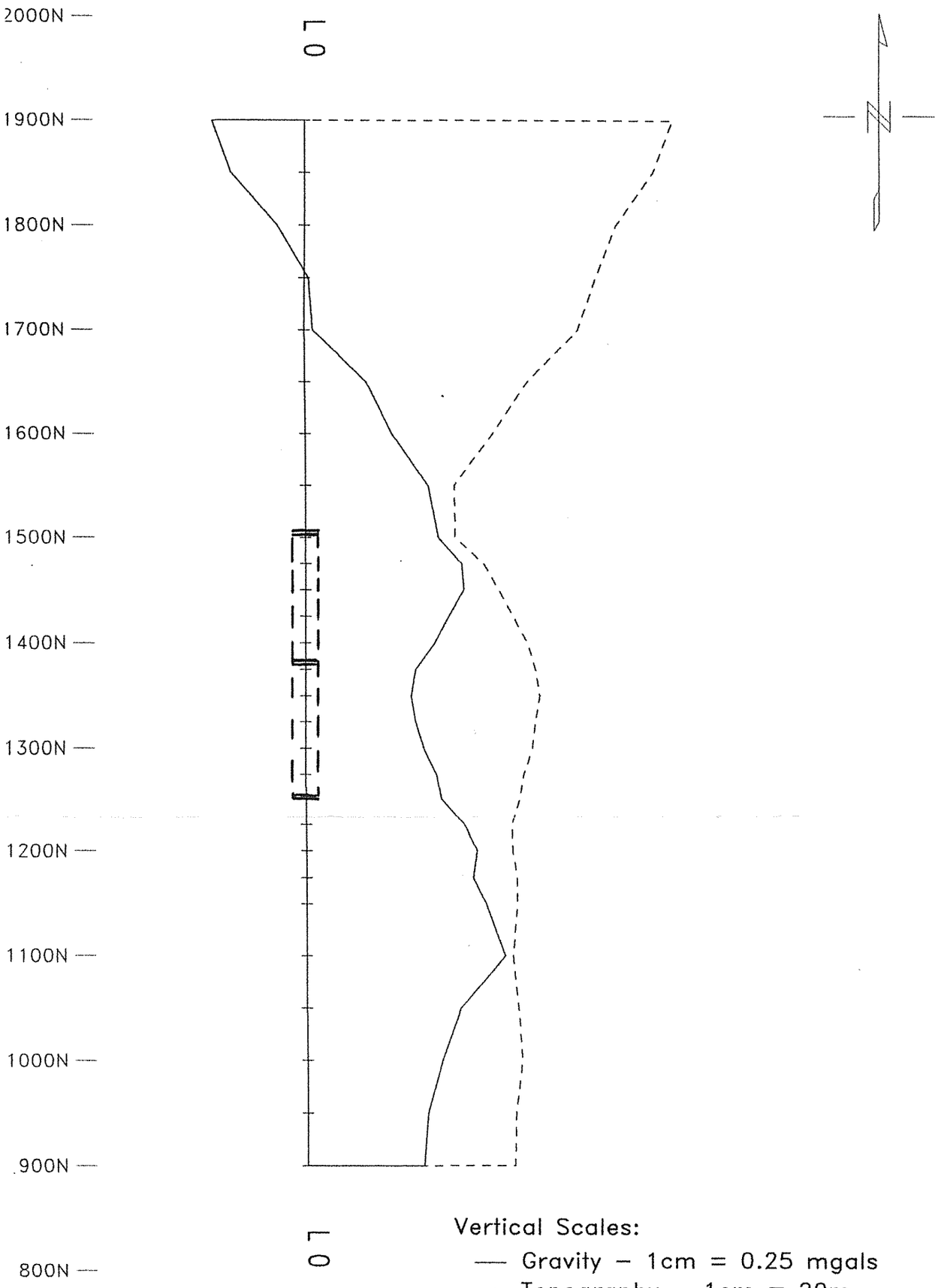
(meters)

COMINCO EXPLORATION
TAG PROPERTY H1 GRID TOTAL FIELD MAGNETICS
COMINCO GEOPHYSICS

093345



Vertical Scales:

— Gravity – 1cm = 0.25 mgals

-- Topography – 1cm = 20m

Scale 1:5000

50 0 50 100

(meters)

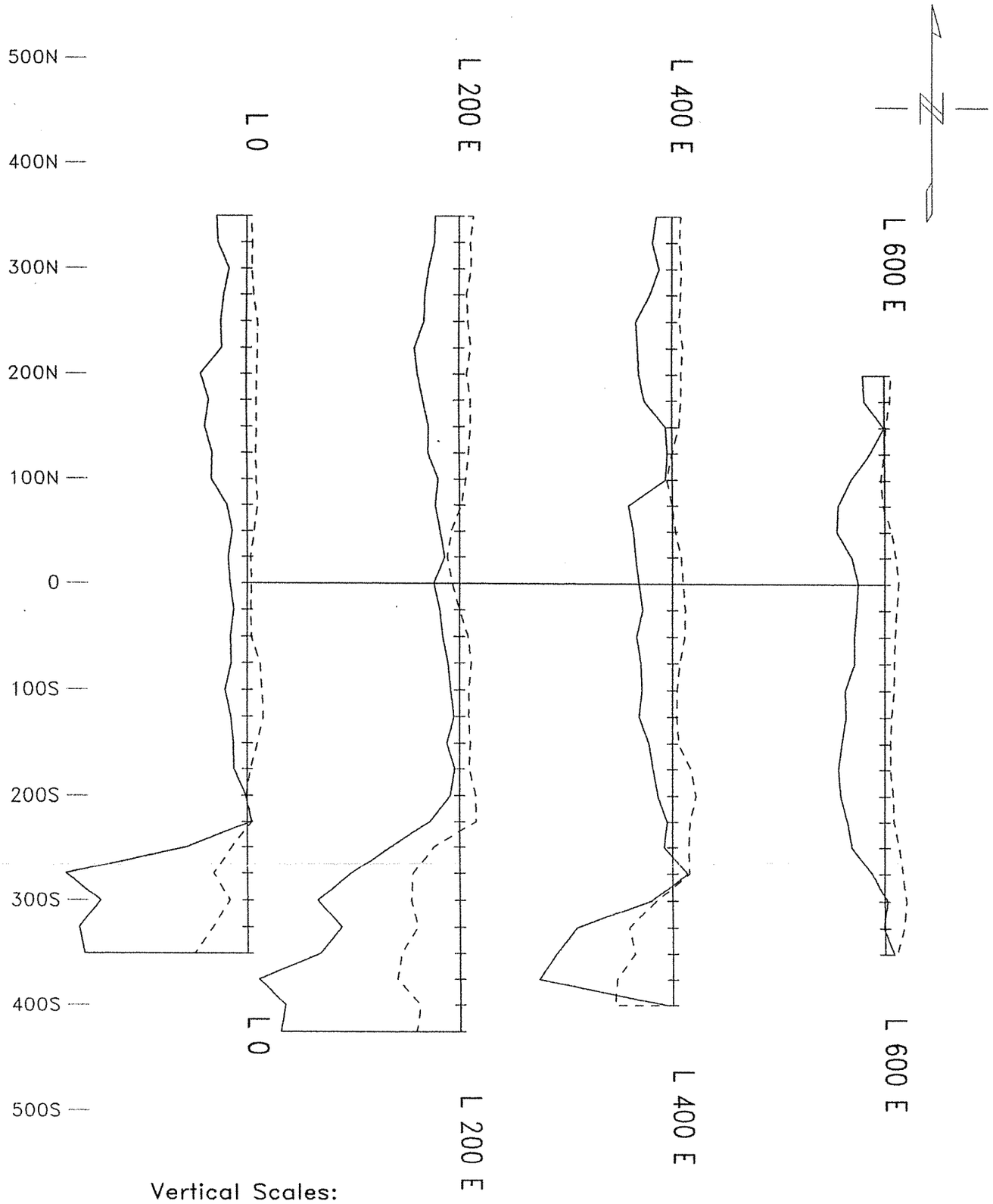
COMINCO EXPLORATION

TAG PROPERTY
H1 GRID
BOUGUER GRAVITY

Density = 2.67
L-00

COMINCO GEOPHYSICS

093345



Vertical Scales:

— In Phase – 1cm = 20%

-- Quadrature – 1cm = 20%

Scale 1:5000

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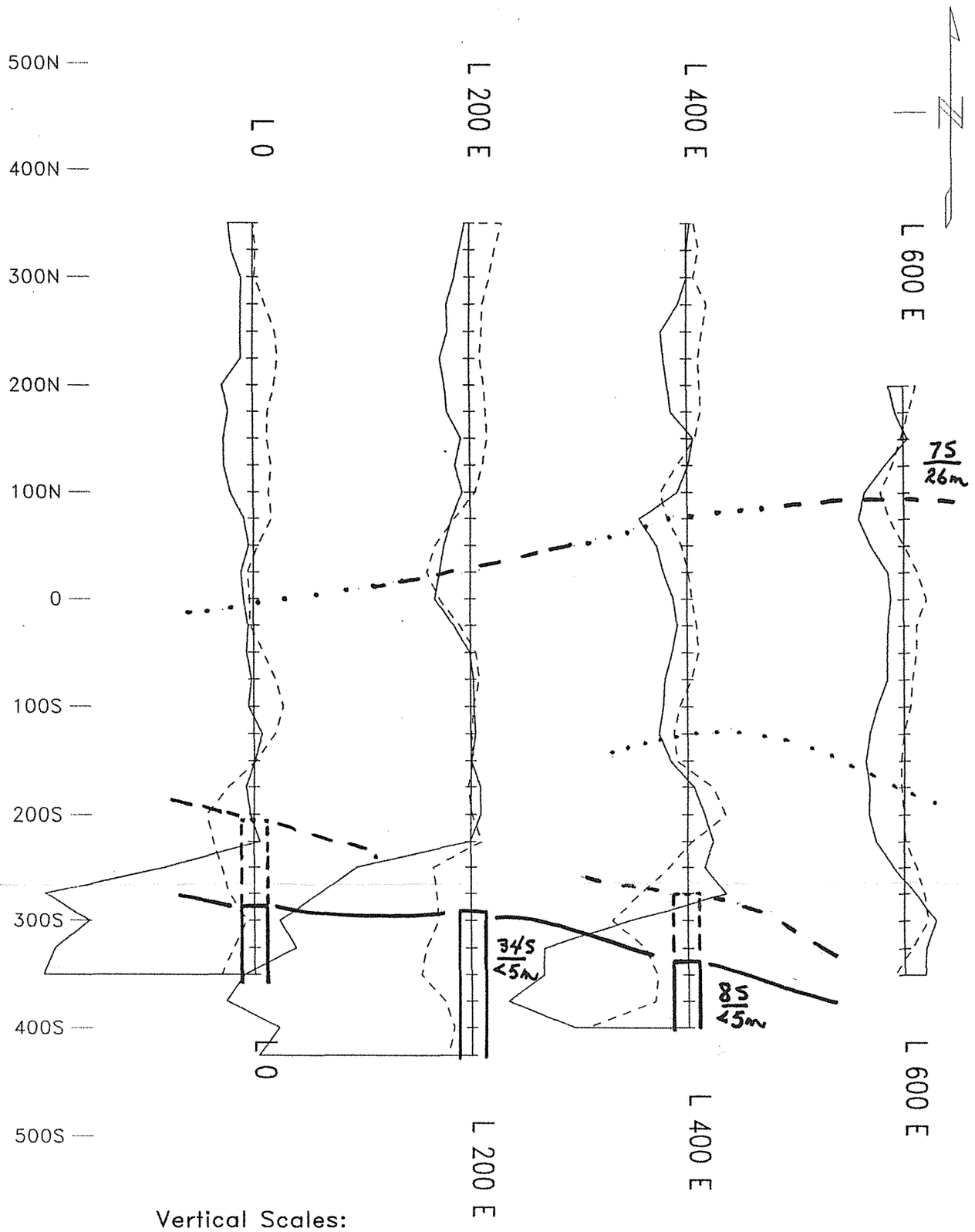
(meters)

COMINCO EXPLORATION
TAG PROPERTY H2 GRID HORIZONTAL LOOP EM
440 Hz 100m cs
COMINCO GEOPHYSICS

093345



Vertical Scales:

— In Phase – 1cm = 20%

-- Quadrature – 1cm = 20%

Scale 1:5000

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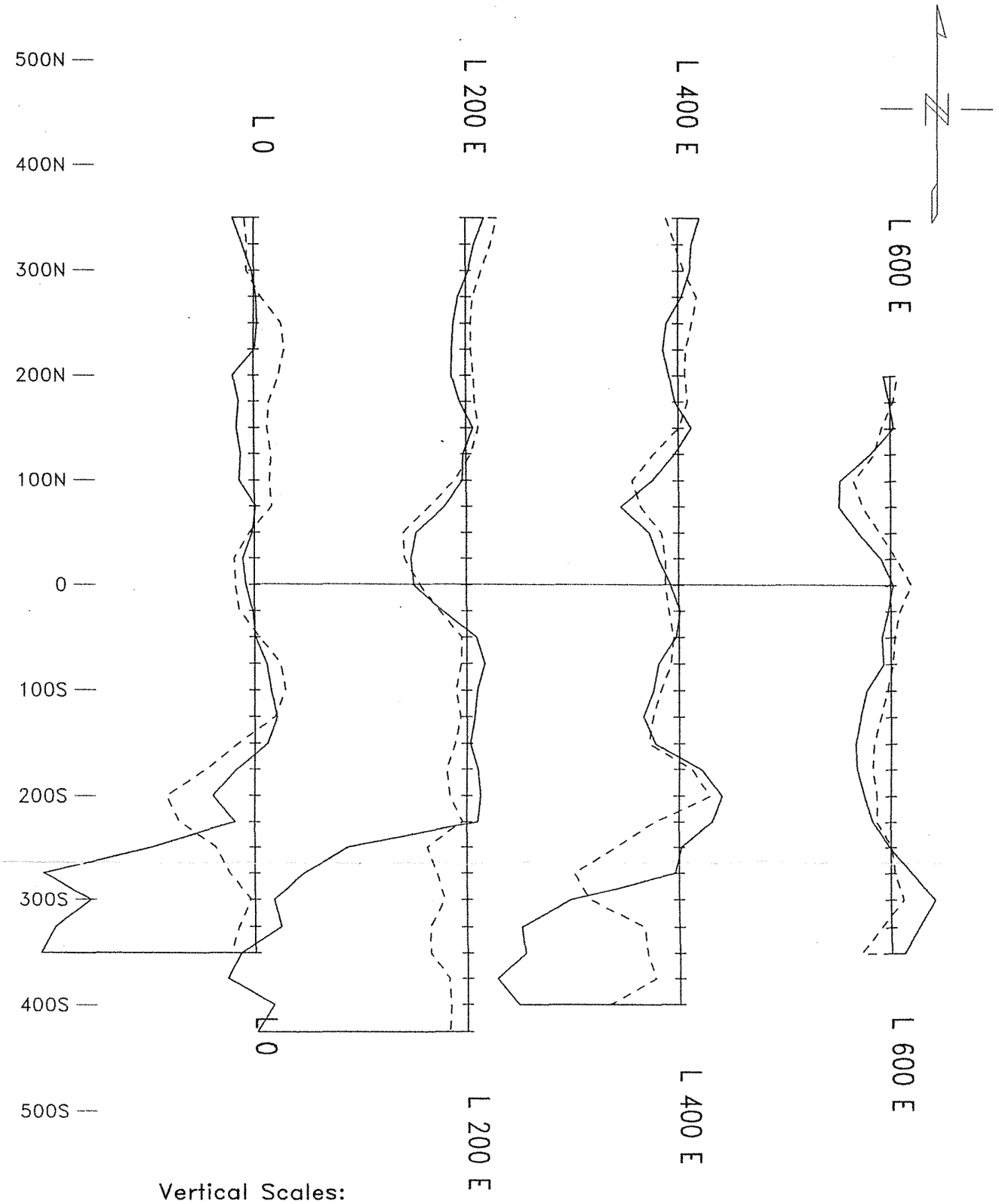
(meters)

COMINCO EXPLORATION
TAG PROPERTY H2 GRID HORIZONTAL LOOP EM
1760 Hz 100m cs
COMINCO GEOPHYSICS

093345



Vertical Scales:

— In Phase – 1cm = 20%

-- Quadrature – 1cm = 20%

Scale 1:5000

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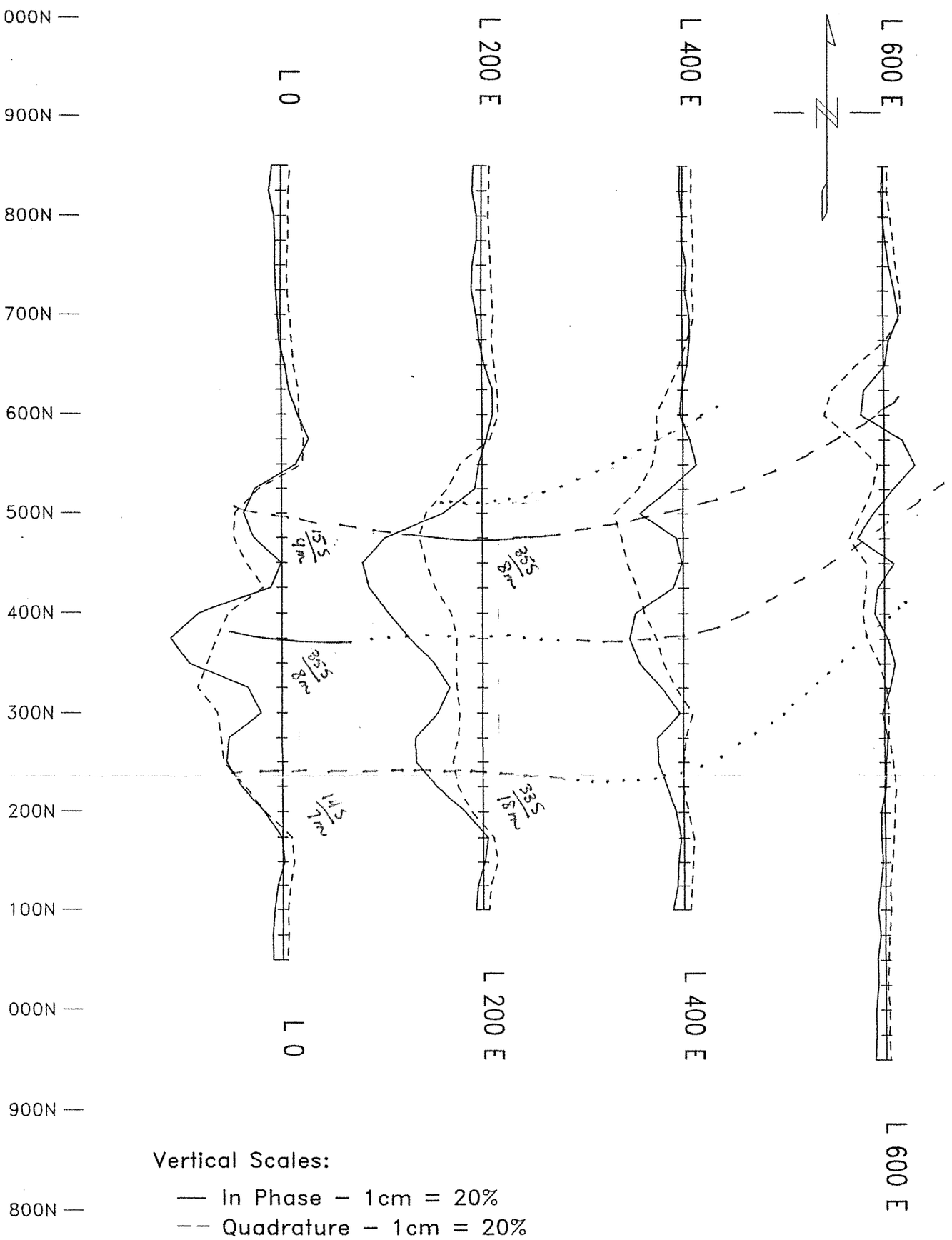
(meters)

COMINCO EXPLORATION
TAG PROPERTY **H2 GRID** **HORIZONTAL LOOP EM**
3520 Hz 100m cs
COMINCO GEOPHYSICS



Vertical Scales:

— In Phase – 1cm = 20%

-- Quadrature – 1cm = 20%

Scale 1:5000

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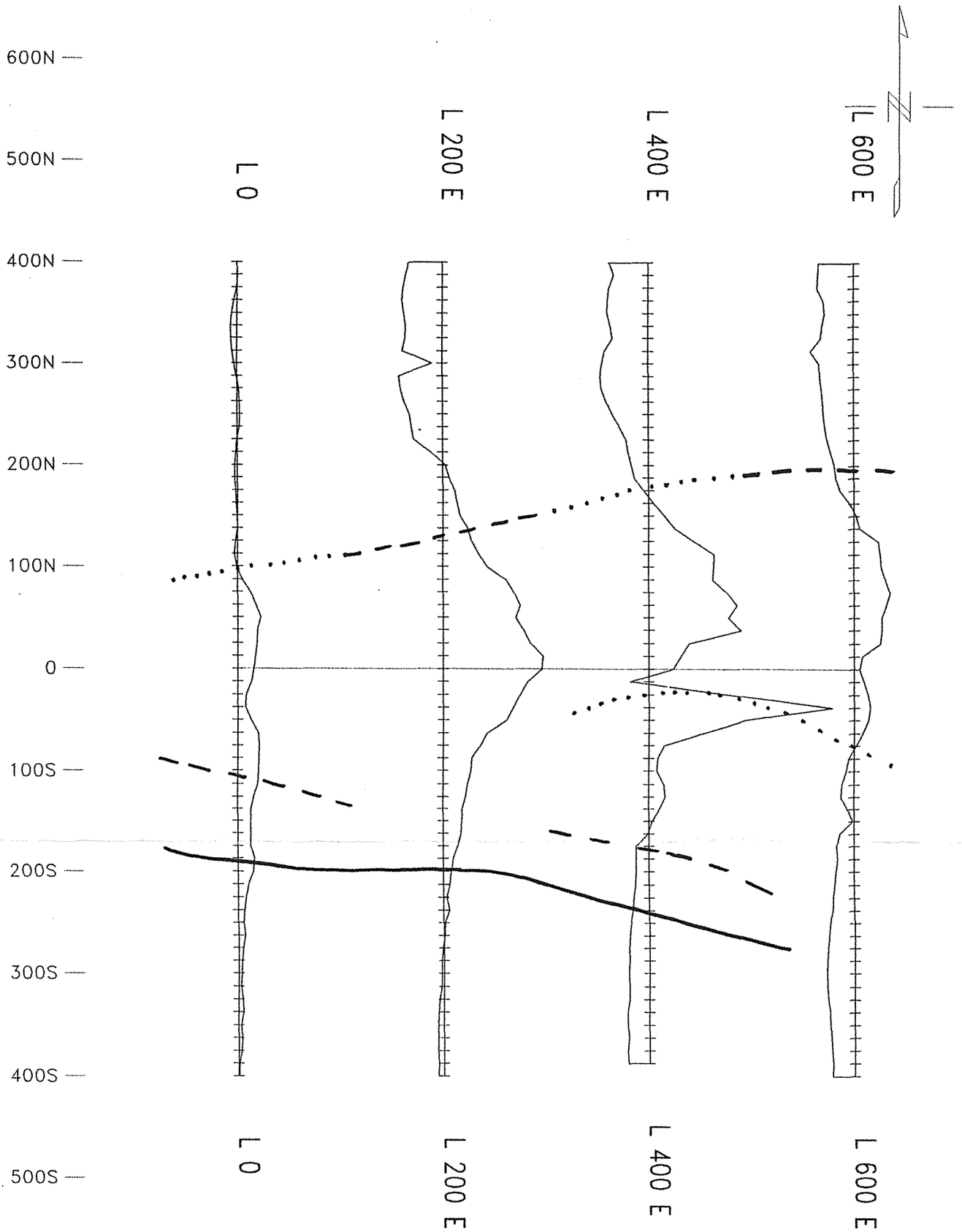
(meters)

COMINCO EXPLORATION
TAG PROPERTY H1 GRID HORIZONTAL LOOP EM
440 Hz 100m cs
COMINCO GEOPHYSICS

093345



Vertical Scale: 1cm = 200nT

Scale 1:5000

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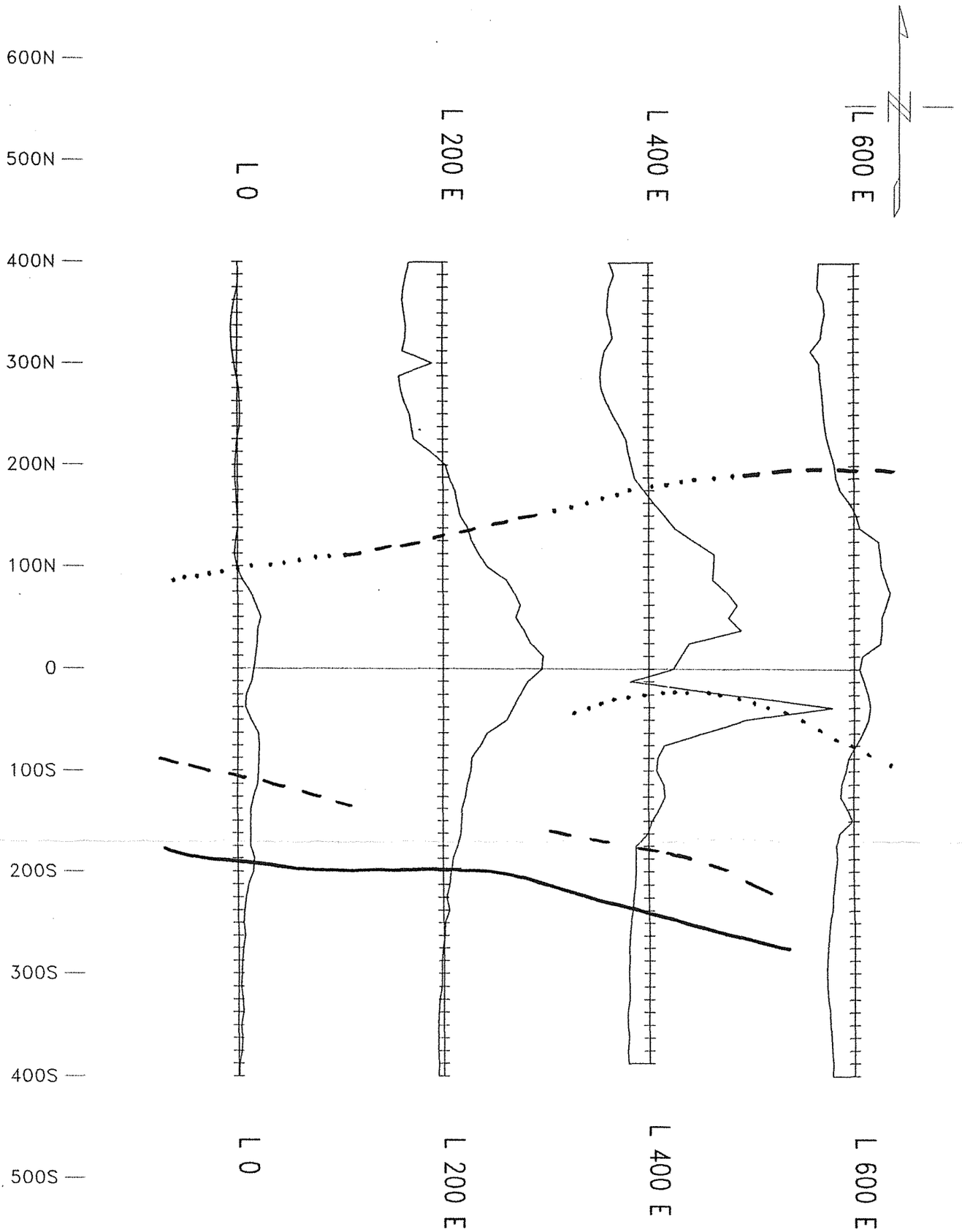
(meters)

COMINCO EXPLORATION
TAG PROPERTY H2 GRID TOTAL FIELD MAGNETICS
COMINCO GEOPHYSICS



Vertical Scale: 1cm = 200nT

Scale 1:5000

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(meters)

COMINCO EXPLORATION
TAG PROPERTY H2 GRID TOTAL FIELD MAGNETICS
COMINCO GEOPHYSICS


DOT CLAIMS
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FRET CLAIMS
1-51
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5000
4900
4500
4300
4000
3500
3400
3000
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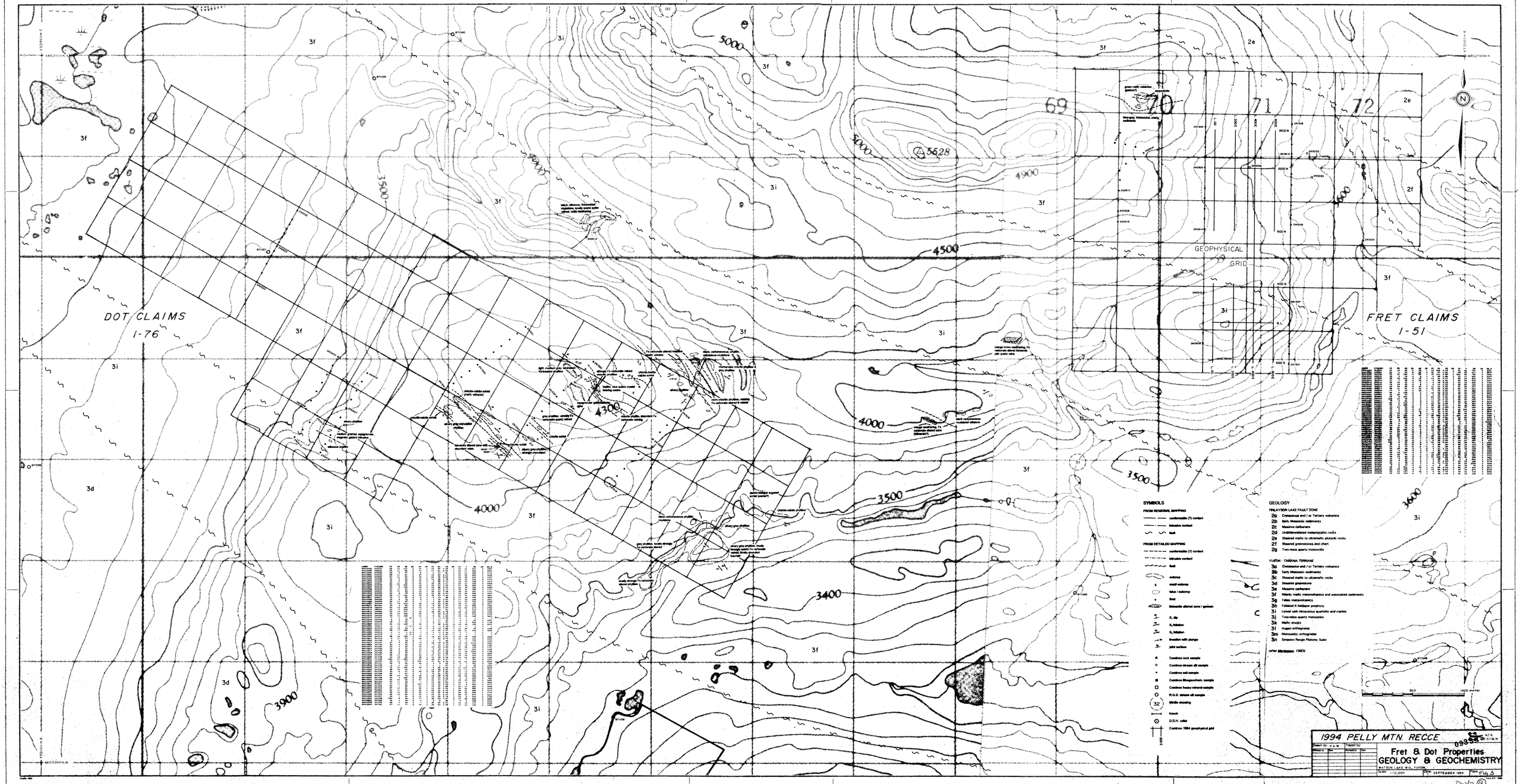
Fret & Dot Properties
CLAIMS
093345
WATSON LAKE M.D., YUKON
1:10,000
SEPTEMBER 1994
Fig. 2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3400
3300
3600
SYMBOLS
FROM REGIONAL MAPPING
FROM DETAILED MAPPING
GEOLOGY
FINLAYSON LAKE FAULT ZONE
YUKON - TANANA TERRANE
1994 PELLY MTN. RECCE
Fret & Dot Properties
GEOLOGY & GEOCHEMISTRY
WATSON LAKE M.D., YUKON
SEPTEMBER 1994
Fig.3