ON JOINT VENTURE

1997 ASSESSMENT REPORT DESCRIBING GEOPHYSICAL, GEOCHEMICAL, AND DIAMOND DRILL PROGRAMS ON THE ON JOINT VENTURE CLAIMS (ON 21-101, 104-113, 116-129, 134-146, 162-173, and 197-198), FINLAYSON LAKE AREA, YUKON TERRITORY

NTS 105G/9 8
61°27'N/130°27'W
Watson Lake Mining Division

093821

Prepared for

Westmin Resources Limited
Suite 904-1055 Dunsmuir Street
P.O. Box 49066, Bentall Centre
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V7X 1C4

by

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David Hall, B.Sc.

March, 1998

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 $ 52,800.00 .

M. Burke

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

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1.0 INTRODUCTION

The 1996 field program on the Cominco Ltd.-Westmin Resources Limited-Atna Resources Ltd. ON Joint Venture claim block consisted of 10 km of line-cutting, grid soil sampling, geologic mapping, and rock sampling. Cut lines comprised a north-south tie-line and an east-west oriented base line from which flagged north-south lines spaced at 200 m were run to cover the claim group. The grid was named the Caribou Grid. Cut lines were accurately located by differentially-corrected GPS and flagged lines were tied in by cross-lines in order to accurately determine their relative positions. The 1997 program involved 31 kilometres of linecutting in preparation for a UTEM survey which was carried out by Cominco Ltd. field personnel. Nitro Enterprises of Atlin, B.C. was contracted to carry out the linecutting work. Infill soil sampling was carried out in the northeastern portion of the property and a single diamond drill hole was completed. The soil sampling was carried out by Westmin Resources Limited field personnel and F. Boisvenu Diamond Drilling was contracted to do the diamond drilling.

2.0 LOCATION, ACCESS, AND PHYSIOGRAPHY

The ON Joint Venture (ON JV) project area comprises the ON 21-101, ON 104-113, ON 116-129, ON 134-146, ON 162-173, and ON 197-198 claims which are located to the southwest of the northwestern end of Wolverine Lake in the Finlayson Lake area, as is shown by Figure 1.0. The claims are located between the communities of Ross River (125 km to the northwest) and Waston Lake (90 km to the southeast) and are approximately 16 km south of the Robert Campbell Highway which runs between them. Access to the property is by helicopter which can be chartered in either Ross River or Watson Lake.

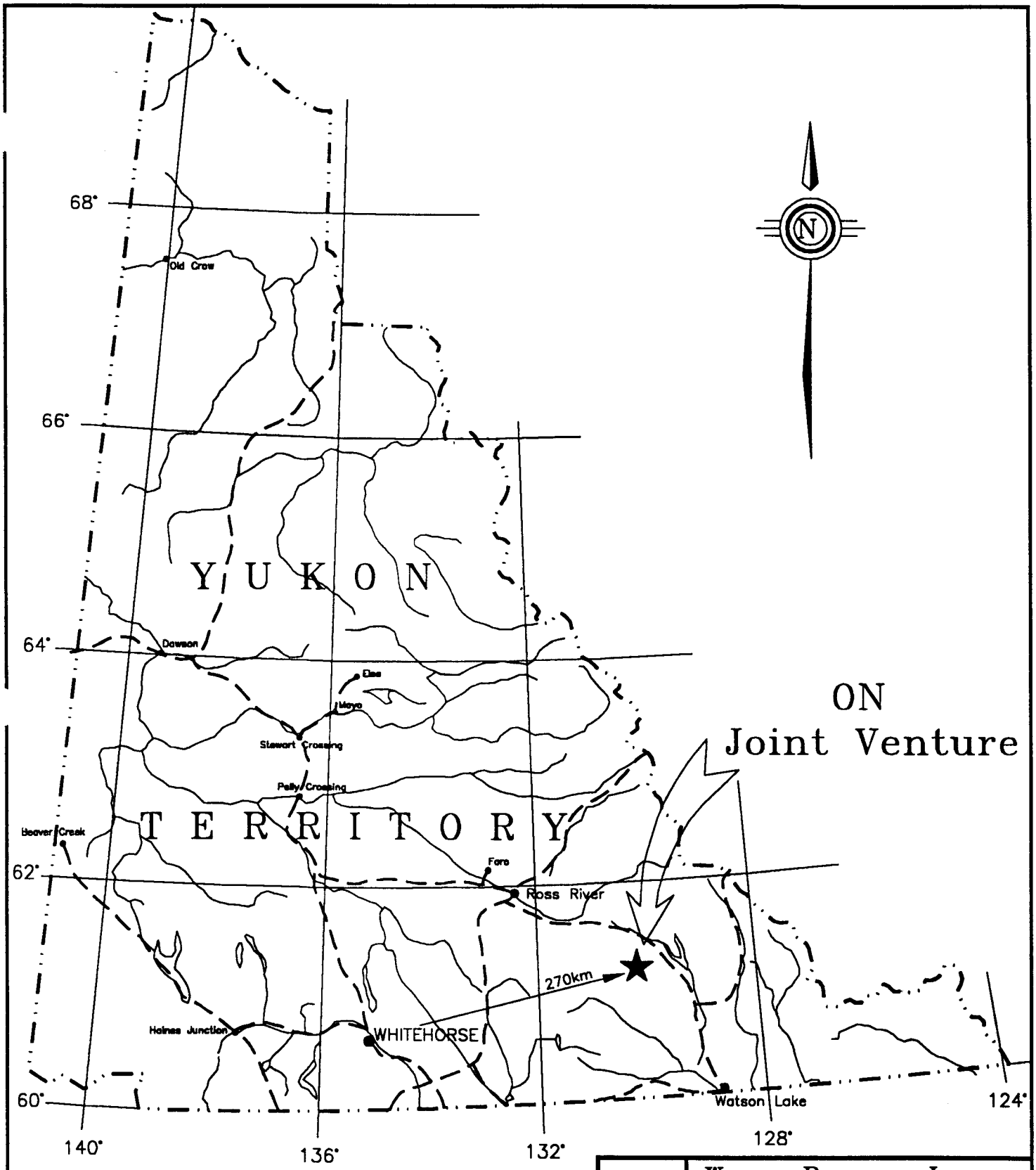
Elevation on the ON JV property varies between 1200 and 1700 meters above sea level. In the northwestern quadrant of the claim block a series of rounded knobs along a north to northeasterly trending ridge contain most of the outcrop on the property. Outcrop exposure in this area is approximately 5%. From the higher elevations in the northwest, a gentle southeasterly trending slope underlies the remainder of the property. Outcrop in the remainder of the property is less then 1%. Several southeast trending creeks drain the central portion of the property and two northwest trending creeks drain the northwestern corner. Vegetative cover varies from caribou moss in the higher elevations, to buck brush in medial elevations to alders and spruce in the easternmost areas.

3.0 LIST OF CLAIMS AND OWNERSHIP

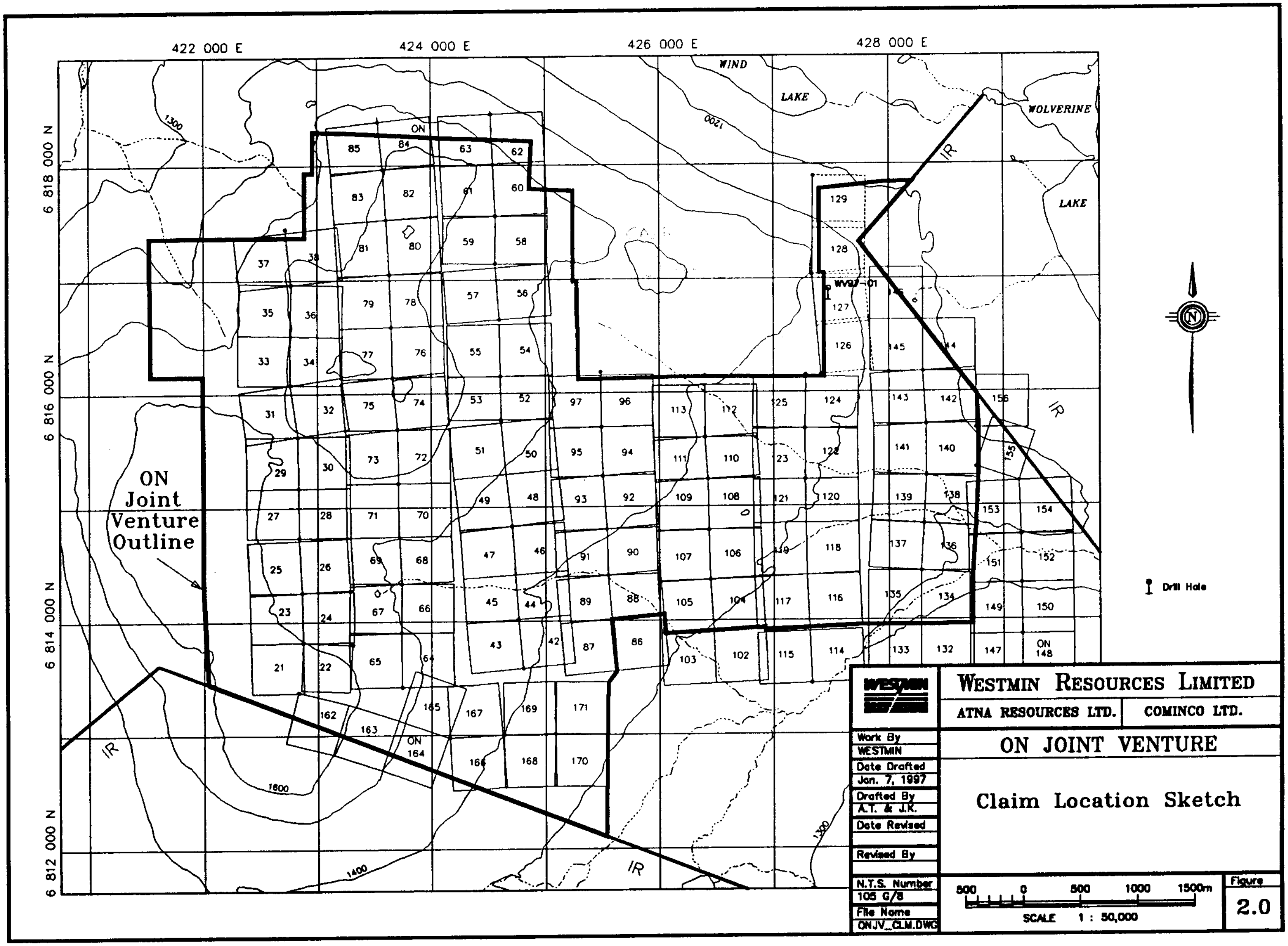
Claim names, record numbers, record dates, and expiry dates for the claims covered in this report are given in Appendix C. The dates shown do not account for the current assessment filing. The distribution of the claims is shown by Figure 2.0. The claims are held by Cominco Ltd. and are subject to a joint venture agreement in which Cominco Ltd. holds a 50% interest, Westmin Resources Limited of holds a 30% interest, and Atna Resources Ltd. holds a 20% interest. All three companies are based in Vancouver, B.C.. Westmin is the operator of the exploration program through to the end of the current program, after which Cominco will become operator.

4.0 PREVIOUS WORK

Very limited mineral exploratory work is known to have been carried out on the area covered by the ON claim group prior to the 1996 program (Terry et al., 1996). Aside from government mapping, geochemical, and geophysical surveys no work in the area prior to several reconnaissance mapping and sampling traverses carried out in by Cominco Ltd. geologists is reported.



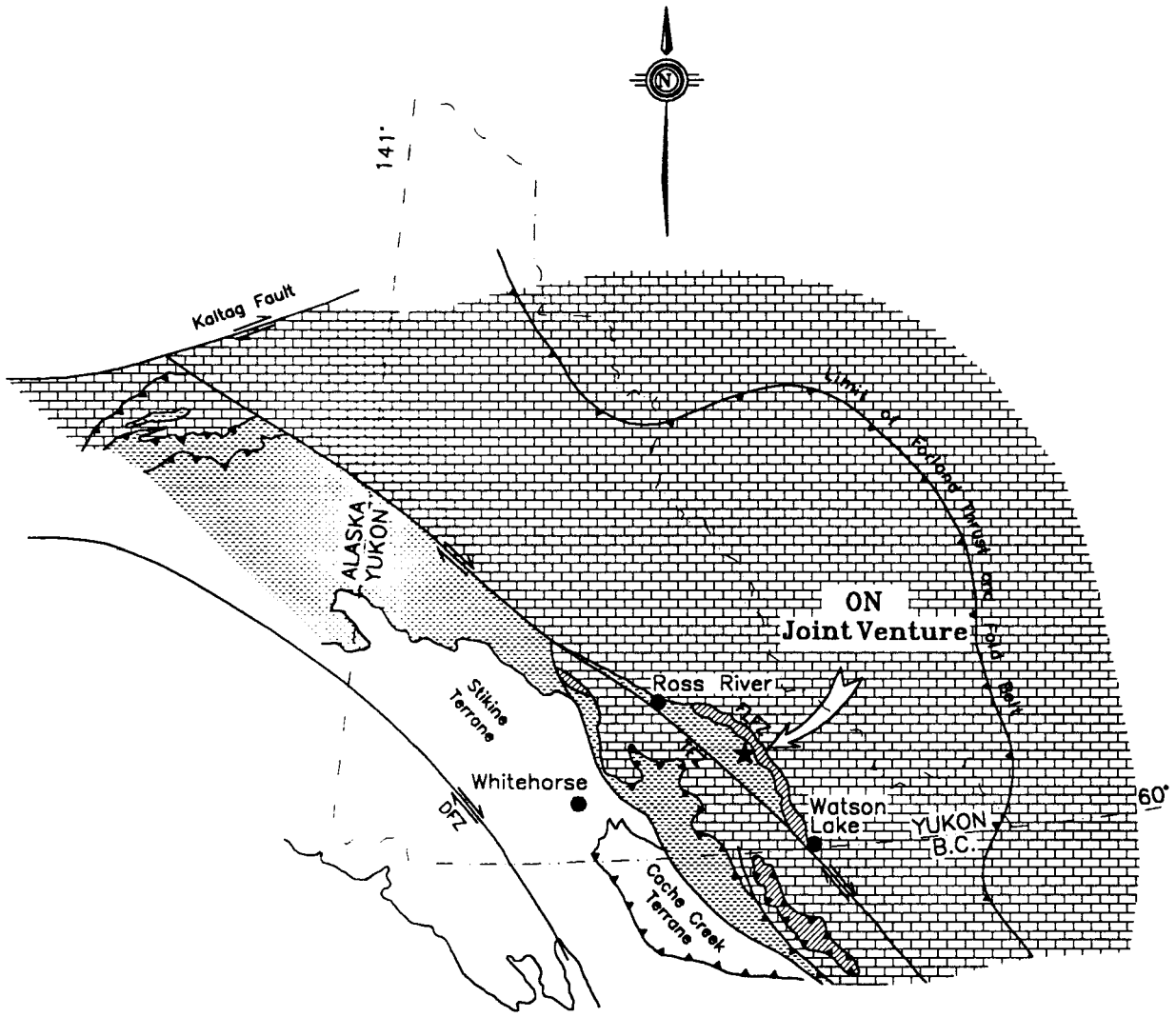
	WESTMIN RESOURCES LIMITED
	ATNA Resources Ltd. | COMINCO Ltd.
Work By: Westmin	ON Joint Venture
Date Drafted: Jan. 7, 1997	Property Location Sketch
Drafted By: A. Turner	
N.T.S. Number	50 0 50 100 150km
File Name: ONJV_LOC.DWG	Scale 1 : 2 500 000
	Figure 1.0


422 000 E
424 000 E
426 000 E
428 000 E
6 818 000 N
6 816 000 N
6 814 000 N
6 812 000 N
WIND
LAKE
WOLVERINE
LAKE
ON Joint Venture Outline
IR
WV97-01
Drill Hole
WESTMIN RESOURCES LIMITED
ATNA RESOURCES LTD.
COMINCO LTD.
ON JOINT VENTURE
Claim Location Sketch
Work By
WESTMIN
Date Drafted
Jan. 7, 1997
Drafted By
A.T. & J.K.
Date Revised
Revised By
N.T.S. Number
105 G/8
File Name
ONJV_CLM.DWG
500 0 500 1000 1500m
SCALE 1 : 50,000
Figure
2.0

5.0 REGIONAL GEOLOGY

The property is situated within the Finlayson Lake belt of the southeastern Yukon, an elongate composite body bounded on the southwest by the Tintina Fault Zone and on the northeast by the Finlayson Lake Fault Zone (Figure 3.1). The Tintina Fault Zone is a major transcurrent structure along which approximately 450 km of dextral offset occured in Late Cretaceous and/or early Tertiary time (Tempelman-Kluit et al., 1976). The Finlayson Lake Fault Zone is described by Mortensen (1996, personal communication) as a complex structure which may in part represent a transpressive dextral paleosuture.

Much of the Finlayson Lake belt is underlain by rocks grouped with the Yukon Tanana Terrane (YTT) by Mortensen and Jilson (1985). The YTT underlies a large area of western to southeastern Yukon and east-central Alaska. The YTT rocks in the Finlayson Lake Belt are believed to be offset along the Tintina Fault from the main body of the YTT in the western Yukon. Mortensen (1992) has divided the YTT in the Yukon into 3 main structural assemblages: 1) the Nisling assemblage, a lower quartzite and marble package of possible Proterozoic and/or Cambrian age; 2) the middle Nasina assemblage, a package of Late Devonian to mid Mississippian carbonaceous metasedimentary and mafic to felsic metavolcanic rocks; and 3) an upper package of mid-Permian felsic metavolcanics (Klondike Schist) and metaplutonic rocks. Recent interpretations conclude that the YTT represents a mid-Paleozoic volcanic-plutonic arc assemblage built on continental crust (Nokleberg and Aleinikoff, 1985; Mortensen and Jilson, 1985; Foster et al., 1987; and Mortensen, 1992). Although the andesitic volcanics one would expect to be voluminous in a continental margin arc setting are seemingly not present in the Finlayson Lake Belt, Mortensen (1996, personal communication) suggests that large K-feldspar megacrystic granitoids which form part of the core of the belt



LEGEND

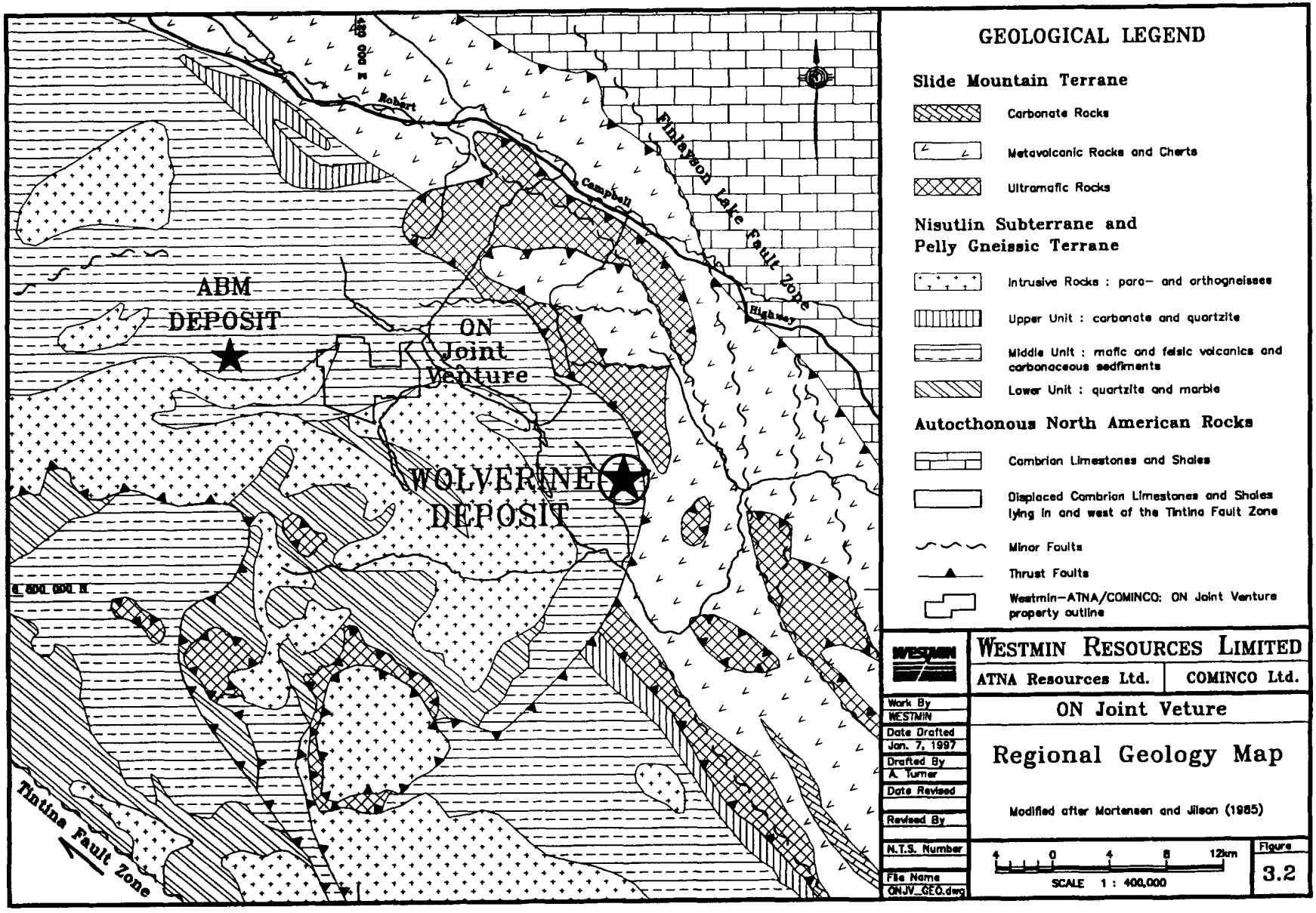
- North American Miogeoclinal Strata
- Yukon – Tanana Terrane
- Slide Mountain Terrane
- Thrust Fault
- Strike–Slip Fault, with sense of movement
  - FLFZ – Finlayson Lake Fault Zone
  - TFZ – Tintina Fault Zone
  - DFZ – Denali Fault Zone

WESTMIN	WESTMIN RESOURCES LIMITED
	ATNA Resources Ltd. / COMINCO Ltd.
Work By	ON Joint Venture
Date Drafted: Jan. 7, 1997	Tectonic Setting
Drafted By: A.T. & J.K.	after Mortensen and Jilson (1985)
N.T.S. Number	100 0 100 200 250km
File Name: ONJV_SET.DWG	Scale1 : 10 000 000
	Figure 3.1

are intermediate in composition and therefore, together with the volcanics, represent a differentiated igneous suite.

Regional metamorphism throughout the YTT ranges from very low grade to amphibolite facies. Radiometric dating suggests that metamorphic events may have occurred at different times in different subterranes. Mortensen and Jilson (1985) have subdivided the YTT in the Finlayson Lake Belt into six major lithologic packages: 1) a sequence of layered metasediments and metamorphic rocks; 2) Paleozoic metaplutonic rocks; 3) middle to late Paleozoic mafic and ultramafic igneous rocks and chert; 4) early Mesozoic clastic rocks; 5) Mesozoic plutonic rocks; and 6) Late Cretaceous and/or early Tertiary volcanic rocks (Figure 3.2). The layered metamorphic package (LMP) is approximately 3 km thick and is divisible into: 1) a lower Devonian and older quartz+mica+/-garnet schist and quartzite package with an upper marble/calcareous schist unit; 2) a middle dark siliceous to carbonaceous phyllite unit interlayered with mafic and felsic volcanics. U-Pb zircon ages of the felsic metavolcanics range from Late Devonian to mid-Mississippian; and 3) an upper white carbonate/quartzite package of Early Pennsylvanian to Permian age (Mortensen and Jilson, 1985). Paleozoic metaplutonic rocks are divided by Mortensen and Jilson (1985) into: 1) the Simpson range plutonic suite of quartz-monzonite to quartz-diorite (349-359 Ma, U-Pb zircon); 2) augen orthogneiss (342 Ma, Rb-Sr); and 3) monzonitic orthogneiss (340-345 Ma, U-Pb zircon). The first two are considered to have an intrusive relationship with the lower LMP due to pyritization of wallrocks in the case of the Simpson suite and a hornfelsed aureole bordering the augen orthogneiss.

Large bodies of massive to pillowed greenstone, chert, and variably serpentinized ultramafic to mafic plutonic rocks are common in the northeastern portion of the Finlayson Lake belt and have been interpreted (Tempelman-Kluit, 1979 and Mortensen and Jilson, 1985) as fragments of a dismembered ophiolite.


ABM
DEPOSIT
ON
Joint
Venture
WOLVERINE
DEPOSIT
Robert
Campbell
Finlayson Lake Fault Zone
Highway
Tintina Fault Zone
GEOLOGICAL LEGEND
Slide Mountain Terrane
Carbonate Rocks
Metavolcanic Rocks and Cherts
Ultramafic Rocks
Nisutlin Subterrane and
Pelly Gneissic Terrane
Intrusive Rocks : para- and orthogneisses
Upper Unit : carbonate and quartzite
Middle Unit : mafic and felsic volcanics and carbonaceous sedfiments
Lower Unit : quartzite and marble
Autocthonous North American Rocks
Cambrian Limestones and Shales
Displaced Cambrian Limestones and Shales lying in and west of the Tintina Fault Zone
Minor Faults
Thrust Faults
Westmin-ATNA/COMINCO: ON Joint Venture property outline
WESTMIN RESOURCES LIMITED
ATNA Resources Ltd.
COMINCO Ltd.
ON Joint Veture
Regional Geology Map
Modified after Mortensen and Jilson (1985)
Work By
WESTMIN
Date Drafted
Jan. 7, 1997
Drafted By
A. Turner
Date Revised
Revised By
N.T.S. Number
File Name
ONJV_GEO.dwg
4 0 4 8 12km
SCALE 1 : 400,000
Figure
3.2

Tempelman-Kluit (1979) mapped these rocks as part of the Anvil alllochthon whereas they are referred to as the Campbell Range Belt by Mortensen and Jilson (1985). They are thought to correlate with the Slide Mountain terrane in British Columbia and based upon U-Pb zircon dates and fossil ages they range from latest Devonian to Early Permian in age. The southern portion of the Finlayson Lake Fault Zone adjacent to the Wolverine Lake area is overlapped by thrust sheets of the Campbell Range Belt in a flower-fault structural relationship (Mortensen, 1996 personal communication). The ophiolitic package is interpreted to have been thrust from northeast to southwest overtop of the middle package of the LMP in the Wolverine Lake area.

The middle division of the LMP comprises dark fine-grained strongly carbonaceous metasediments interlayered with massive to schistose felsic volcanic to tuffaceous rocks and chloritic to amphibolitic schists after mafic tuffaceous rocks. The most significant massive sulphide occurrences in the Finlayson Lake area (Wolverine, ABM/Kudz Ze Kayah, and Fire Lake) are hosted by this volcano-sedimentary package and are associated with carbonaceous metasediments and/or felsic metavolcanics.

6.0 Ground Geophysical Surveys

During the period July 18 to 29, 1997 a Cominco Ltd. crew completed ground geophysical surveys on selected areas of the ON joint venture claim block. The crew was based out of Cominco's KZK exploration camp approximately 10 km to the southwest. Survey grid locations were chosen from 1994 and 1995 airborne EM\MAG surveys and supporting anomalous soil geochemistry and cover areas of elevated magnetics with associated conductivity. Ground-based geophysics consisted of a time domain electromagnetic (UTEM) survey in conjunction with magnetic coverage. These surveys were carried out to define the airborne conductive-magnetic features.

Following this, evaluation of a specific anomaly was completed with horizontal loop electromagnetic (HLEM) and Bouguer gravity surveys. Plates referred to in the following text are located in Appendix E and a discussion of the geophysical techniques is included in Appendix F. Any oversize figures are located in Appendix I.

The UTEM survey consisted of 4 loops as shown on the UTEM interpretation map. Work on the west-most loop (24) indicates only weak conductivity at the north ends of the lines. No significant magnetic features are evident.

Two more UTEM loops (25, 26) were laid out and survey lines were completed to cover two linear AEM/MAG features approximately 2 kms apart near the eastern claim boundary. In the southern part of the survey area results from loop 25 indicate a block/contact type of response as shown on the UTEM interpretation map. The area defined within the triangles is a more conductive feature than its surroundings and is approximately 100 metres wide and over a kilometre in strike extent. It is only weakly conductive (higher graphitic content?) and does not appear to have a strong magnetic association. Approximately 1800 metres to the north of this block the survey from loop 26 indicates a pair of conductive features (**A** and **B**) associated with an area of elevated magnetic readings. To further define these conductors an additional UTEM loop was added to the north (loop 28). **A** is the strongest feature, a channel 3 conductor with a strike length in excess of 400 metres and an interpreted depth of the order of 80 metres. A second conductor (**B**) located 250 metres south of **A** is also evident. **B** is a shallower, weaker feature and appears to be of limited strike length. Conductor **A** appears to be closely associated with the northern edge of a 600 metre wide magnetic feature which is 200-400 nT in amplitude.

With the close correlation between magnetic and conductive features additional work was proposed to define conductors **A** and **B**. Horizontal loop electromagnetic (HLEM) and gravity surveys were completed on line 9100E. The HLEM survey was carried out with a reference cable of 100 metres then resurveyed with a 150 metre cable for comparison. Results of the HLEM survey show a pair of conductors which agree quite well with the locations as determined by the UTEM survey although the depths from HLEM are shallower. (The HLEM survey detects the near surface part of the conductor whereas the UTEM survey energizes a much larger portion of the conductive unit producing a greater depth estimate). At the lowest HLEM frequency (440Hz) almost no conductive effect is noticeable. This interpretation is based on a frequency of 1760 Hz. **A** and **B** are relatively weak, shallow conductors with widths of less than 5 metres. The dip of the conductors is difficult to determine from the data as the induced EM fields of the two conductors interact with each other. In addition a Bouguer gravity survey was completed to test for anomalous densities in the vicinity of the conductors. No significant density contrasts are noticeable.

7.0 SOIL GEOCHEMISTRY

367 samples were collected during the 1997 field program to provide tighter coverage and reconfirm anomalous Cu and Zn in soil anomalies detected during the 1996 soil sampling program. As reported in Terry et al. (1996) a large area of highly anomalous Cu(Zn) in soil occurs in the northeastern corner of the grid to the east of the adjacent ON property. This anomaly occurs on L9100E to L9700E to the north of 8000N. Anomalous values in this area range up to 337 ppm Cu. All samples were analyzed at Chemex Labs in North Vancouver for Au plus 24 elements by ICP utilizing the triple nitric acid digestion technique. Au, Ag, Cu, Pb, Zn, and Ba in soils are plotted on Figures 7.1 through 7.6, and the geochemistry is summarized below in Table 7.1 and is tabulated in Appendix H.

Most of the gold values were below detection with the highest value received being 25 ppb Au on L9100E. The northern part of the grid sampled contained several clusters of Ag anomalies of up to 6 g/t Ag. The entire portion of the grid south of the baseline was less than the detection limit. Sampling of the grid north of the baseline returned numerous anomalous Cu values of up to 603 ppm. Anomalous values are concentrated in the western-central portion of the north grid. To the south of the baseline values are mostly below 100 ppm and reach a high value of 166 ppm Cu. The grid north of the baseline contains no anomalous lead values, however, several spot highs in the central portion of the southern grid of up to 634 ppm Pb are very anomalous. Numerous Zn anomalies, up to 550 ppm, occur over the northern portion of the grid north of the baseline while fewer anomalies of up to 1965 ppm Zn are present south of the baseline. Several Ba anomalies, up to 4030 ppm, occur in both the northern and southern portions of the sampled area.

Table 7.1 Soil Geochemical Statistics

	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Ba ppm
Minimum	2.5	0.1	1	1	18	90
Maximum	25	6.2	603	634	1965	4030
Average	2.7	0.2	67.0	17.2	145	1019
Percentiles						
95th	2.5	0.4	229	38	337	1690
90th	2.5	0.1	172	28	289	1433
80th	2.5	0.1	120	18	218	1220
75th	2.5	0.1	95	16	180	1143
50th	2.5	0.1	33	10	102	930
10th	2.5	0.1	7	2	50	690

8.0 DIAMOND DRILLING

On the basis of the anomalous soil geochemistry and the geophysical work and assuming a relatively shallow north dip (approx.40°) to conform with local geology a drill hole was proposed to evaluate conductor **A**. The hole (WC97-01) was collared at 8600N on line 9100E and drilled at -60° to grid south

for 308 metres. Its location is shown on Figures 7.1 to 7.6. The hole intersected interlayered light grey cherty material (felsic protolith) and jet black cherty siliceous argillite. The anticipated intersection with the down dip extent of conductor **A** should have been intersected at roughly 60 metres down the hole. A half metre intersection of 15% pyrite filling veins and fractures in a black argillaceous lithology was found at 67.3 metres and numerous 1-4 cm bands of massive pyrite are evident over several metres. This is probably the cause of the conductive response. Also, disseminated pyrrhotite occurs between 127 and 217 metres depth, likely accounting for the elevated magnetic readings in the vicinity. Sphalerite was noted in only a single 1 cm wide band at 183.9 metres.

The geochemical results from samples of drill core submitted to Chemex labs in North Vancouver, B.C. are summarised below in Table 8.1 and are tabulated in Appendix I. The drill core is stored at the Wolverine Deposit exploration camp on claim FOOT 180 and/or 39.

Table 8.1 Geochemical Statistics for Drill Core

	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Ba ppm
Minimum	2.5	0.1	2	1	10	1	0.1	0.01	110
Maximum	25	2.2	272	424	6950	76	2.6	0.14	3720
Average	2.6	0.2	62	35	606	7.0	0.2	0.01	754
Percentiles									
95th	2.5	0.8	129	130	2360	26	0.6	0.01	2520
90th	2.5	0.4	103	100	1430	16	0.4	0.01	2030
80th	2.5	0.2	84	56	818	12	0.2	0.01	1460
75th	2.5	0.1	79	40	658	7	0.2	0.01	1090
50th	2.5	0.1	64	16	308	2	0.1	0.01	350
10th	2.5	0.1	20	1	32	1	0.1	0.01	140

The central portion of the hole contains geochemically anomalous concentrations of Pb and Zn associated with cherty felsic tuff. Lower down in the hole geochemically anomalous Mg and Ba is observed on down-hole plots to be associated with intermediate tuff, felsic tuff, and siliceous argillite.

9.0 CONCLUSIONS AND RECOMMENDATIONS

During the period July 18 - 29, 1997 a Cominco Ltd. geophysical crew completed 31 km of UTEM survey and 28 km of total field magnetic measurements on particular areas of the ON Joint Venture claims selected from previous airborne EM/MAG coverage. These reconnaissance surveys defined a conductive-magnetic feature which was detailed with HLEM and Bouguer gravity surveys.

A drill target was selected from the geophysical and geochemical information and a 308 metre drill hole completed. Zones of elevated pyrite and pyrrhotite appear to explain the geophysical responses. The geochemically elevated Zn concentrations in the drill hole are interesting but not of economic importance. Most of the anomalous Cu and Zn values occur in the area south of the vertical projection of hole WC97-01 to surface. Assuming a moderately north-dipping stratigraphic package in the area the hole would have tested at least some of the stratigraphy underlying the anomalous soil geochemistry. The most significant untested soil anomaly is the Pb-Zn anomaly in the central portion of the grid south of the baseline. This anomaly is not picked up on the lines 200 metres on either side, however, and so is of a low priority.

As the best combined soil/geophysical anomaly discovered to date on the property was tested with hole WC97-01, no further work is recommended on the property at this time.

REFERENCES

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Foster, H.L., Keith, T.E.C., and Menzie, W.D. 1987. Geology of East-Central Alaska. U.S. Geological Survey Open-File Report 87-188m, 59 pp.

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Nokleberg W.J. and Aleinikoff, J.N. 1985. Summary of stratigraphy, structure, and metamorphism of Devonian igneous-arc terranes, northeastern Mount Hayes quadrangle, eastern Alaska Range. U. S. Geological Survey Circular 967, pp. 66-71.

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Tempelman-Kluit, D.J. 1977. Quiet Lake (105F) and Finlayson Lake (105G) map areas. Geological Survey of Canada Open-File 486, scale= 1:250,000.

Tempelman-Kluit, D.J., Gordey, S.P., and Read, B.C. 1976. Stratigraphic and structural studies in the Pelly Mountains, Yukon Territory. Geological Survey of Canada Paper 76-1A, p. 97-106.

Terry, D.A., Turner, A.J., Bradshaw, G.D., and Tucker, T.L. 1996. 1996 Assessment Report describing geological and geochemcial surveys on the ON Joint Venture Claims (ON 21-101, 104-113, 116-129, 134-146, 162-173, and 197-198), Finlayson Lake area, Yukon Territory. Yukon Government Assessment Report.

APPENDIX A

STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES

I, David A. Terry as agent for Westmin Resources Limited, #904-1055 Dunsmuir Street, Vancouver, B.C. do solemnly declare that a program consisting of line-cutting, soil sampling, ground geophysics, and diamond drilling was carried out on the claims between June 15, 1997 and September 30, 1997.

The following expenses were incurred during the work outlined above.

Linecutting Contractors	$26,261
Diamond Drilling	$42,457
Charter Flying – Fixed Wing	$898
Helicopter	$29,326
Camp Costs	$12,450
Materials and Supplies	$800
Equipment Rentals	$252
Fuel	$7,595
Shipping	$324
Geochemistry	$10,276
Joint Venture Expenses	$23,834
Permanent Salaries	$1,164
Temporary Salaries	$1,532
Report Preparation Costs	$1000
Total Costs:	**$158,169**

Notes:

1. Wages are based on actual man days spent on the property
2. Helicopter charges are based on actual hours flown
3. Assay charges are based on actual numbers of samples from the property

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

Dated at Vancouver in the Province of British Columbia this 17 day of March, 1998.

David A. Terry, Project Geologist

APPENDIX B

LIST OF PERSONNEL

LIST OF PERSONNEL

David A. Terry (Project Geologist)
#904-1055 Dunsmuir St.
Vancouver, B.C.
V7X 1C4

Yvonne Thornton (Field Assistant)
3341 Lakeside Road
Whistler, B.C.
V0N 1B3

Jan Tindle (Field Assistant)
3341 Lakeside Road
Whistler, B.C.
V0N 1B3

David F. Gale (Geologist)
#904-1055 Dunsmuir St.
Vancouver, B. C.
V7X 1C4

APPENDIX C

CLAIM INFORMATION

pref	disp'n #	disposition name	Due date	rec title	Agreements
YB	62677	ON 21	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62678	ON 22	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62679	ON 23	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62680	ON 24	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62681	ON 25	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62682	ON 26	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62683	ON 27	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62684	ON 28	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62685	ON 29	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62686	ON 30	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62687	ON 31	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62688	ON 32	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62689	ON 33	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62690	ON 34	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62691	ON 35	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62692	ON 36	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62693	ON 37	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62694	ON 38	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62695	ON 39	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62696	ON 40	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62697	ON 41	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62698	ON 42	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62699	ON 43	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62700	ON 44	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62701	ON 45	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62702	ON 46	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62703	ON 47	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62704	ON 48	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62705	ON 49	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62706	ON 50	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62707	ON 51	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62708	ON 52	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62709	ON 53	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62710	ON 54	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62711	ON 55	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62712	ON 56	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62713	ON 57	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62714	ON 58	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62715	ON 59	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62716	ON 60	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62717	ON 61	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62718	ON 62	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62719	ON 63	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62720	ON 64	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62721	ON 65	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62722	ON 66	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62723	ON 67	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62724	ON 68	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62725	ON 69	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62726	ON 70	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62727	ON 71	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62728	ON 72	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62729	ON 73	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62730	ON 74	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62731	ON 75	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62732	ON 76	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62733	ON 77	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV

pref	disp'n #	disposition name	Due date	rec title	Agreements
YB	62734	ON 78	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62735	ON 79	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62736	ON 80	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62737	ON 81	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62738	ON 82	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62739	ON 83	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62740	ON 84	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62741	ON 85	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62742	ON 86	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62743	ON 87	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62744	ON 88	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62745	ON 89	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62746	ON 90	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62747	ON 91	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62748	ON 92	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62749	ON 93	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62750	ON 94	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62751	ON 95	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62752	ON 96	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62753	ON 97	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62754	ON 98	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62755	ON 99	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62756	ON 100	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62757	ON 101	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62760	ON 104	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62761	ON 105	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62762	ON 106	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62763	ON 107	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62764	ON 108	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62765	ON 109	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62766	ON 110	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62767	ON 111	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62768	ON 112	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62769	ON 113	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62772	ON 116	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62773	ON 117	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62774	ON 118	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62775	ON 119	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62776	ON 120	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62777	ON 121	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62778	ON 122	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62779	ON 123	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62780	ON 124	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62781	ON 125	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62782	ON 126	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62783	ON 127	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62784	ON 128	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62785	ON 129	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62788	ON 134	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62789	ON 135	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62790	ON 136	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62791	ON 137	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62792	ON 138	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62793	ON 139	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62794	ON 140	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62795	ON 141	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62796	ON 142	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV

pref	disp'n #	disposition name	Due date	rec title	Agreements
YB	62797	ON 143	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62798	ON 144	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62799	ON 145	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62800	ON 146	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62816	ON 162	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62817	ON 163	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62818	ON 164	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62819	ON 165	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62820	ON 166	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62821	ON 167	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62822	ON 168	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62823	ON 169	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62824	ON 170	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62825	ON 171	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62826	ON 172	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62827	ON 173	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62851	ON 197	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV
YB	62852	ON 198	April 2, 2001	COMINCO LTD.	WRL-ATNA/COMINCO JV

APPENDIX D

GEOLOGISTS CERTIFICATES

GEOLOGISTS CERTIFICATE

I, David A. Terry of 1568 Maplehurst Circle, Burnaby, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Project Geologist with Westmin Resources Limited with offices at #904-1055 Dunsmuir Street, Vancouver, British Columbia.

2. THAT I have practiced my profession with various mining companies in Ontario, Quebec, British Columbia, Yukon, the United States, Argentina, and Chile for nine years.

3. THAT I am a graduate of the University of Western Ontario and hold a Bachelor of Science in Geology (1988) and a Doctor of Philosophy in Geology (1997).

4. THAT I am a member of the Prospectors and Developers Association of Canada, the Geological Society of America, and the Society of Economic Geologists.

5. THAT this report is based on property work I personally carried out or managed.

6. THAT I have no direct interest in the property described herein, nor do I expect to receive any interest.

DATED at Vancouver, British Columbia this 17 day of March, 1998.

David A. Terry, Ph.D.
Project Geologist

CERTIFICATION OF QUALIFICATIONS

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

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

ii. THAT I have been actively practicing Geophysics from 1976 to 1998, and am presently an employee of Cominco Ltd.

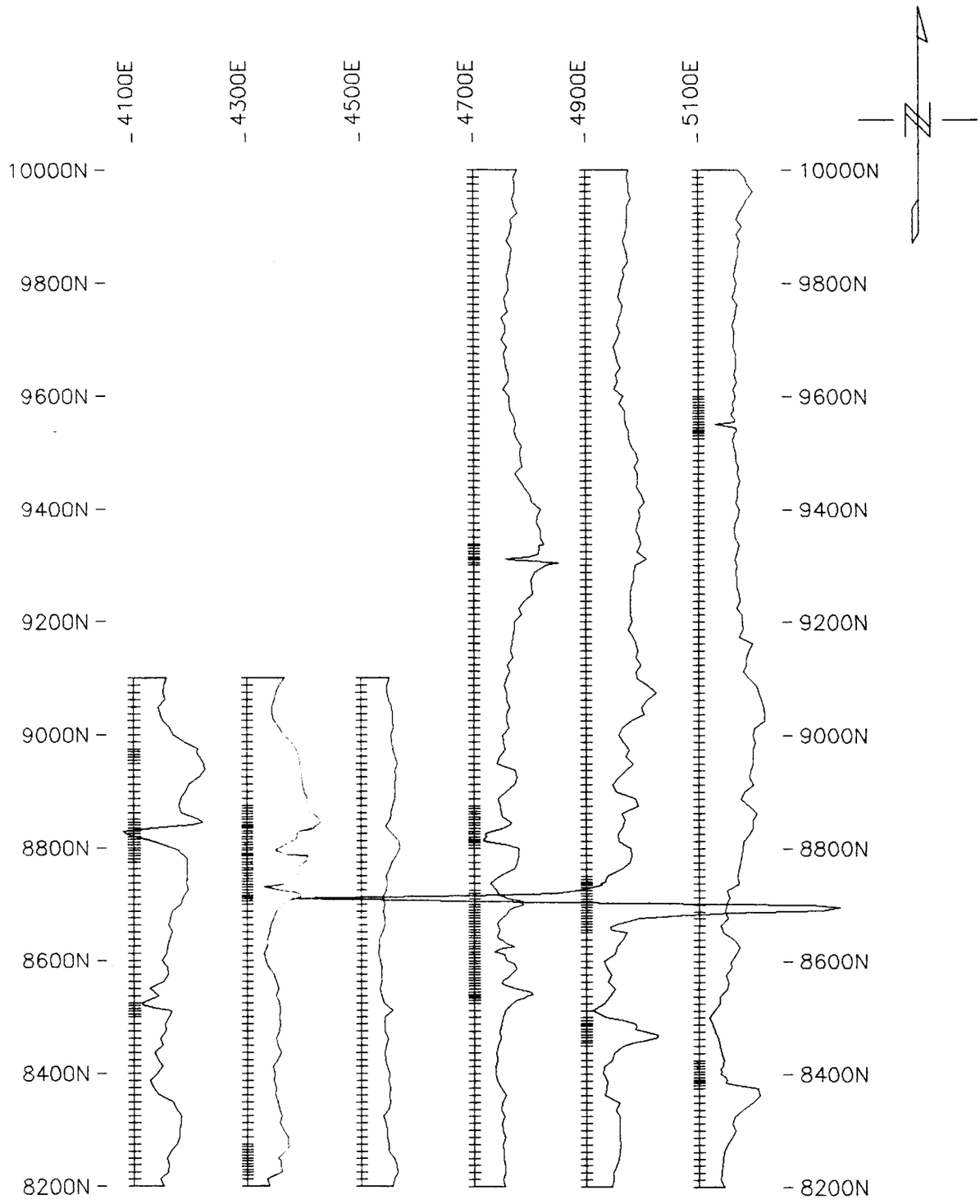
David C. Hall, B.Sc.
Geophysicist

APPENDIX E

GEOPHYSICAL PLOTS

LIST OF GEOPHYSCAL FIGURES

10000N
10000N
9400N
D.H.WC97-01
A
B
8200N
L4100E
L4300E
L4500E
L4700E
L4900E
L5100E
BL7000N
7600N
7500N
7500N
5900N
5900N
L8300E
L8500E
L8700E
L8900E
L9100E
L9300E
L9500E
L9700E
1712
1693
1298
1664
1300
1400
1600
1200
6815000
6813000
6811000
422000
425000
430000
R-16
R-16
R-15
WOLVERINE
LAKE
NORTH
RIVER
N
ON J.V. CLAIM BOUNDARY
093821
DIAND - YUKON REGION. LIBRARY
DWG 8
UTEM INTERPRETATION LEGEND
strong cross-over response
moderate
weak
strong block/contact response
(points to most conductive side)
moderate
weak
interpreted depth
s=shallow
m=moderate
d=deep
extensive conductive layer
i.e. contacts not defined
loop corner
latest anomalous channel
0 200 400 600
METRES
N.T.S. 105G/8
Watson Lake Mining District
ON JOINT VENTURE
Drawn by: DH
Traced by: APR
Revised by:
Date:
Acad file: ONWESTMIN
UTEM INTERPRETATION MAP
SCALE: 1:10,000
DATE: Dec.1997
PLATE NO: 6 - 1



MAGNETIC BASE = 58500 nT
Vert. Scale
1cm = 200 nT

Scale 1:10000
250 0
(metres)

COMINCO EXPLORATION

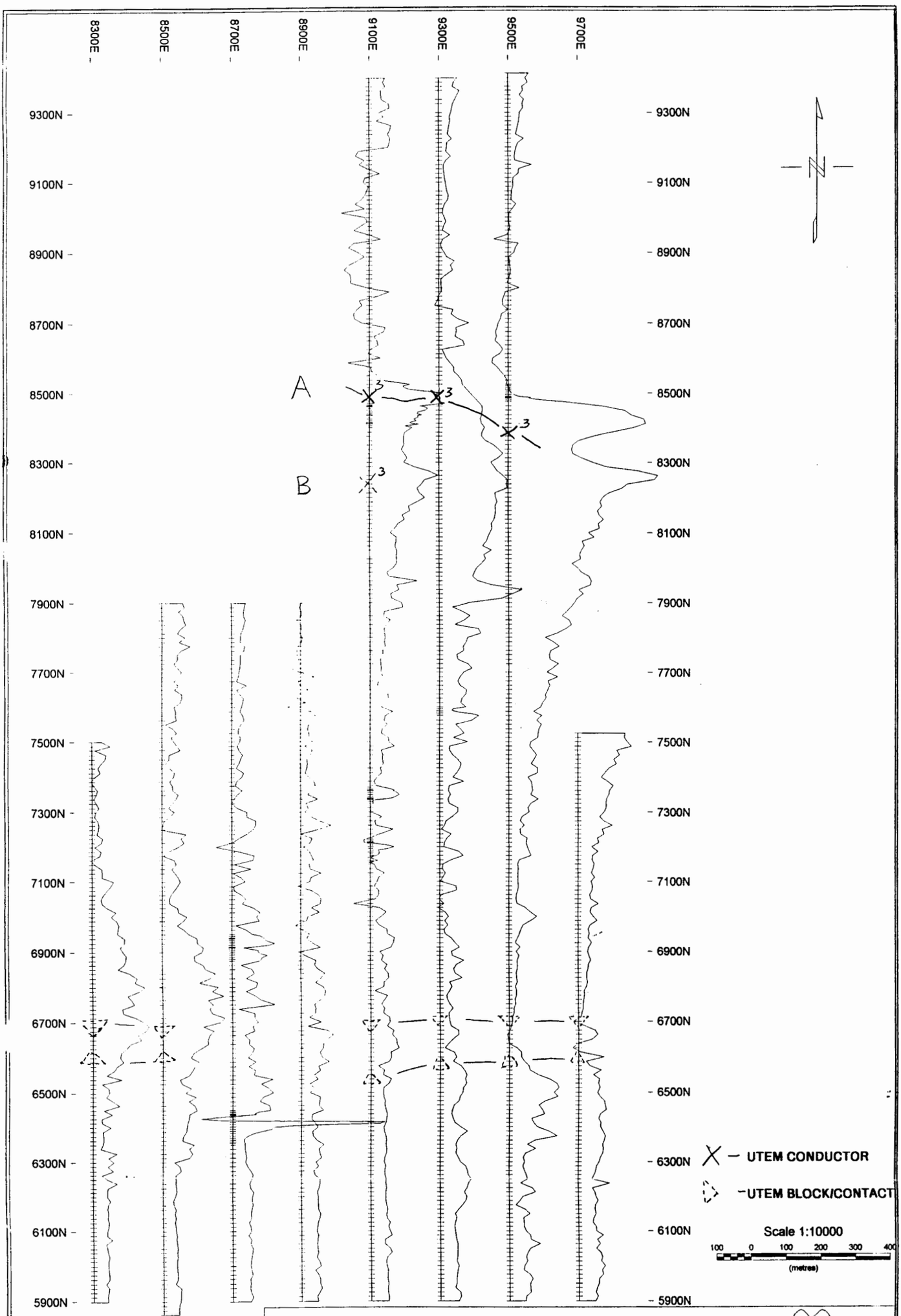
Cominco

NTS 105G

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

PELLY MTN. PROPERTIES
ON-JOINT VENTURE– LOOP 24
TOTAL FIELD MAGNETICS SURVEY

Scale:	Date: JULY 1997	Plate: 6 – 2



MAGNETIC BASE = 58400 nT

Vert. Scale
1cm = 100 nT

COMINCO EXPLORATION

Cominco

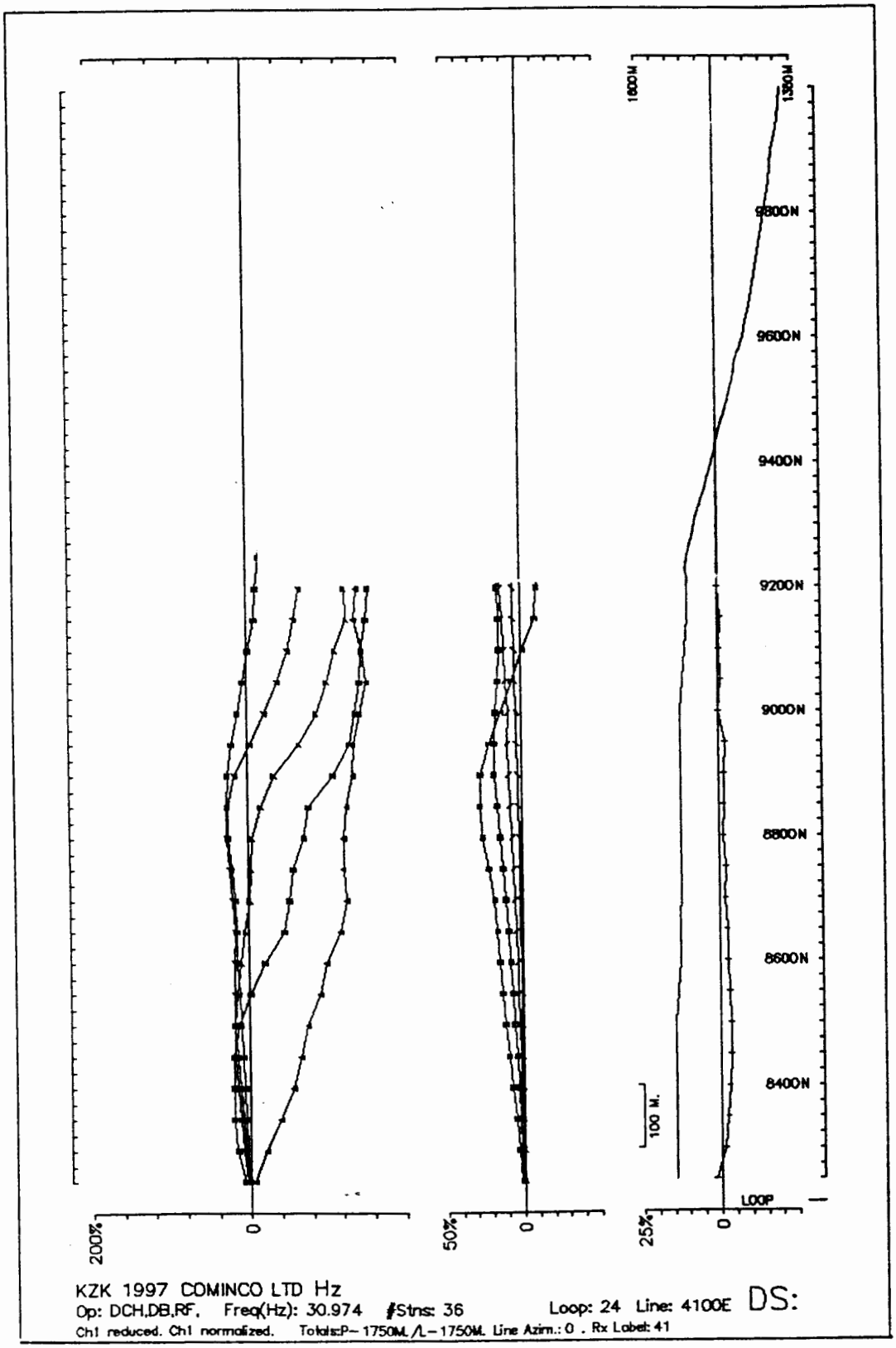
NTS 105C

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

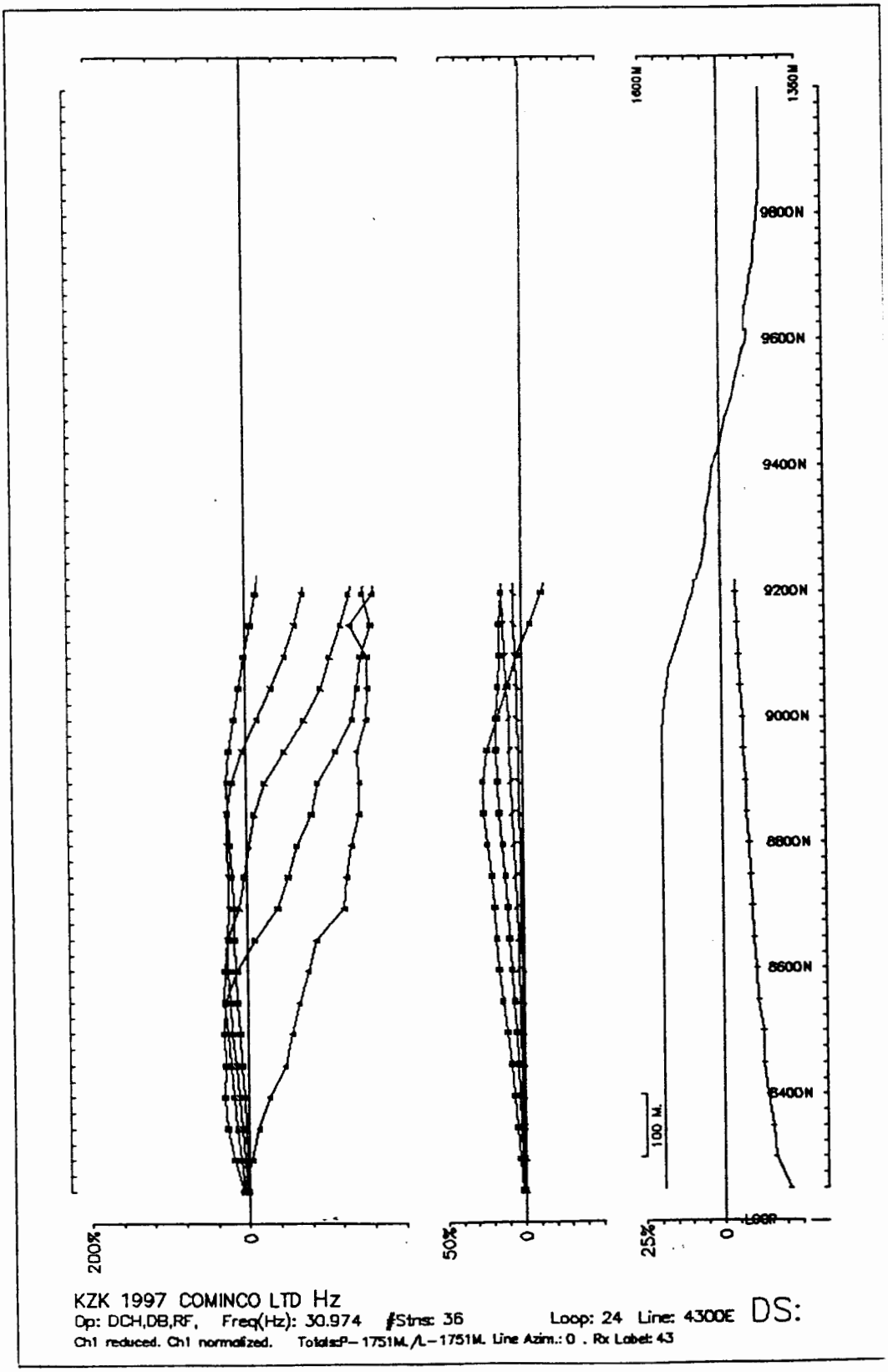
PELLY MTN PROPERTIES
ON-JOINT VENTURE- LOOPS 25,26
TOTAL FIELD MAGNETICS SURVEY

PLATE: 6 – 3

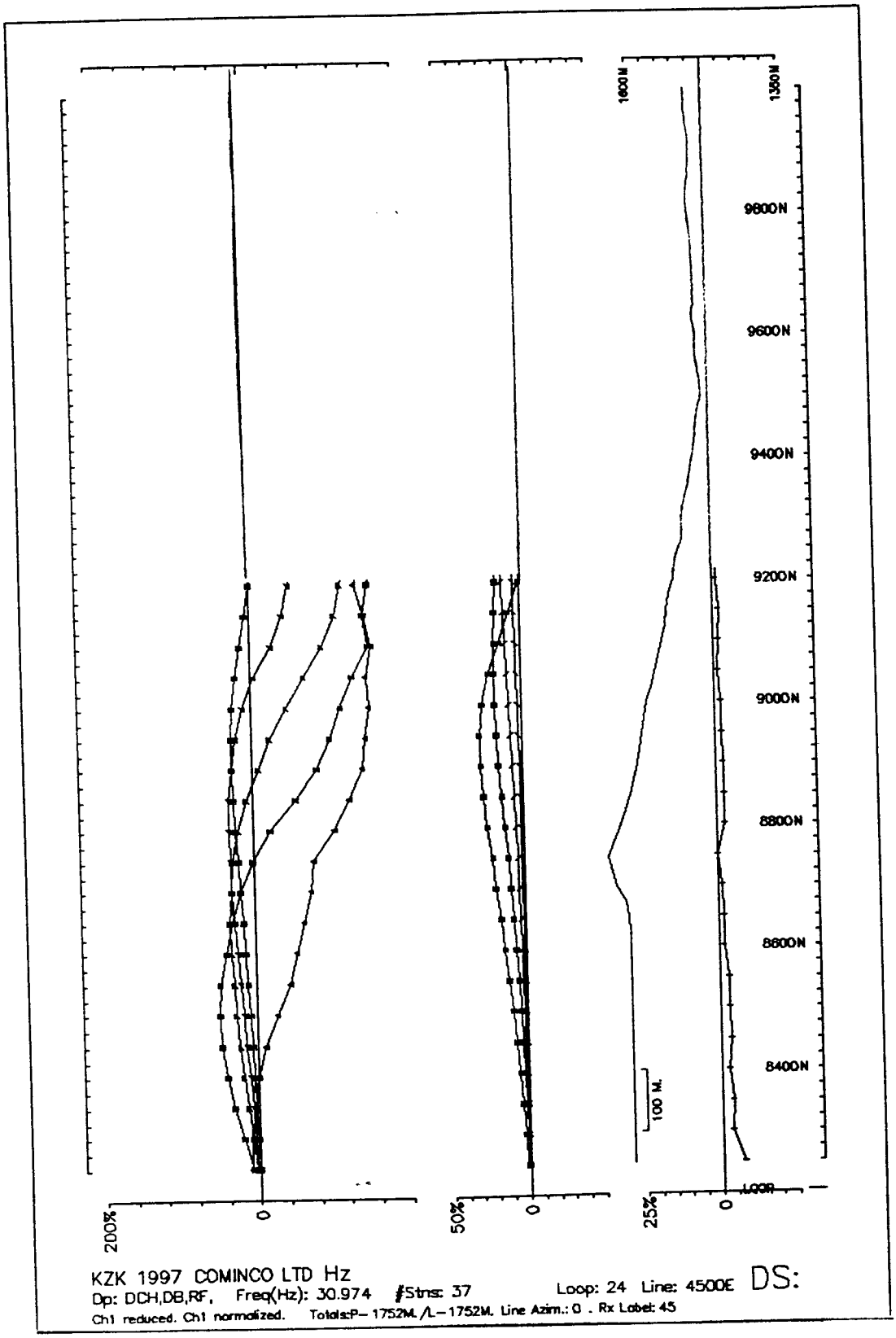
D.S.: 6 - 4


1800N
1300N
9800N
9600N
9400N
9200N
9000N
8800N
8600N
8400N
100 M.
LOOP
200%
50%
25%
0
0
0
KZK 1997 COMINCO LTD Hz
Op: DCH,DB,RF. Freq(Hz): 30.974 #Stns: 36 Loop: 24 Line: 4100E DS:
Ch1 reduced. Ch1 normalized. Totals:P-1750M /L-1750M. Line Azim.: 0 . Rx Label: 41

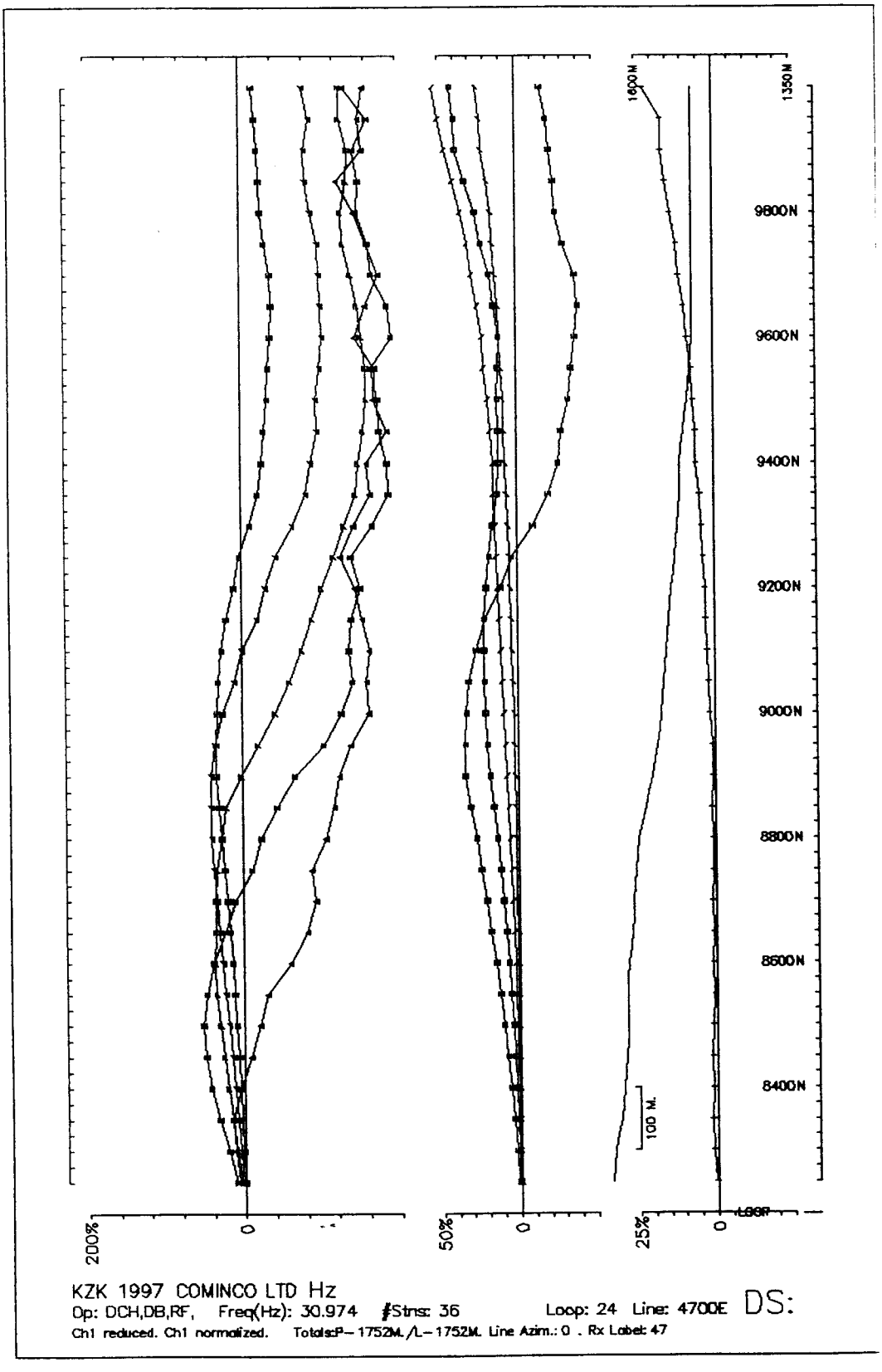
D.S.: 6 - 5


1600N
1350N
9800N
9600N
9400N
9200N
9000N
8800N
8600N
8400N
100 M.
200%
0
50%
0
25%
0
KZK 1997 COMINCO LTD Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 36 Loop: 24 Line: 4300E DS:
Ch1 reduced. Ch1 normalized. Totals:P-1751M./L-1751M. Line Azim.: 0 . Rx Label: 43

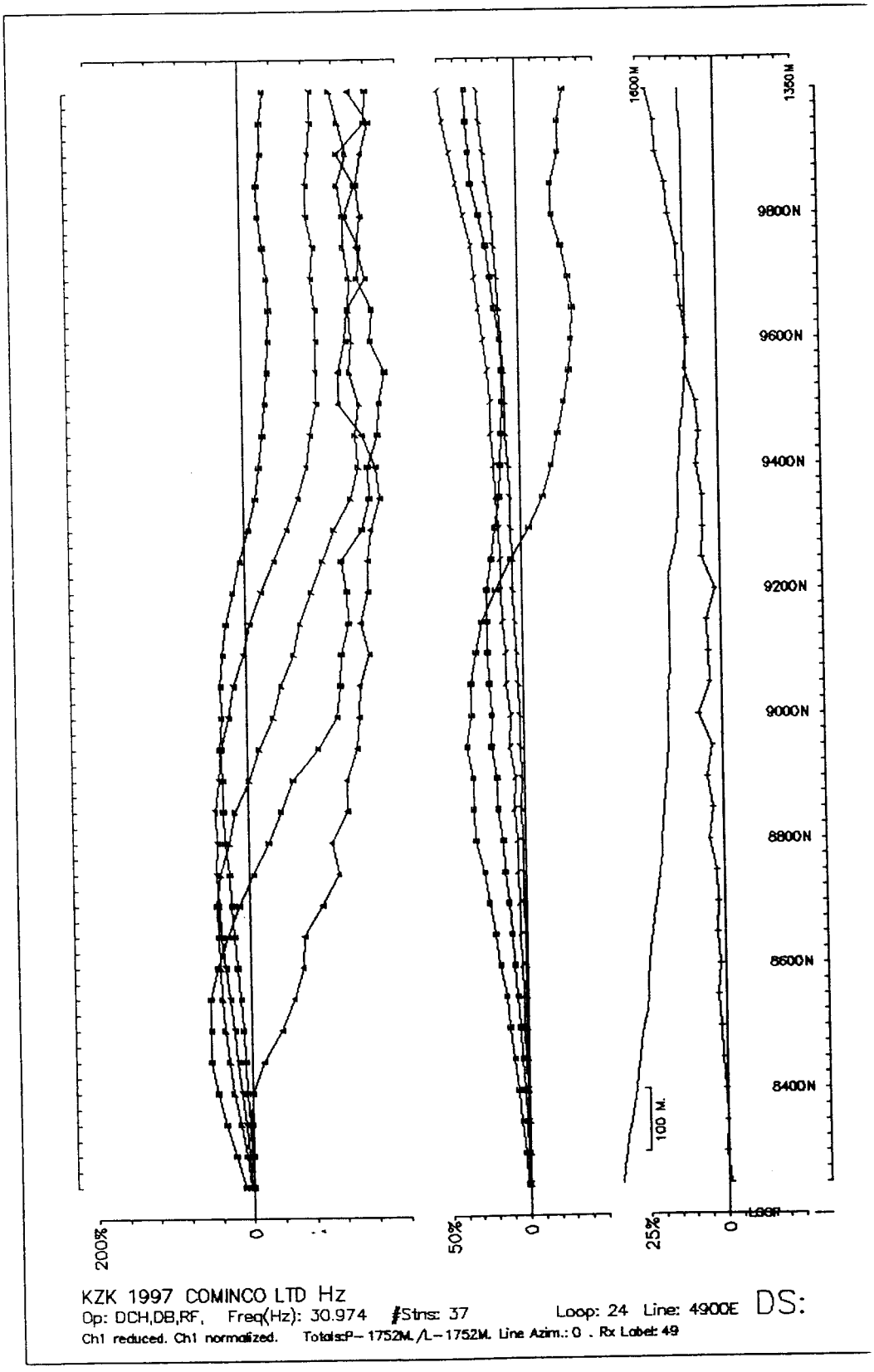
D.S.: 6 - 6


1800N
1350N
9800N
9600N
9400N
9200N
9000N
8800N
8600N
8400N
100 M.
200%
50%
25%
0
KZK 1997 COMINCO LTD Hz
Dp: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 37 Loop: 24 Line: 4500E DS:
Ch1 reduced. Ch1 normalized. Totals:P- 1752M. /L-1752M. Line Azim.: 0 . Rx Label: 45

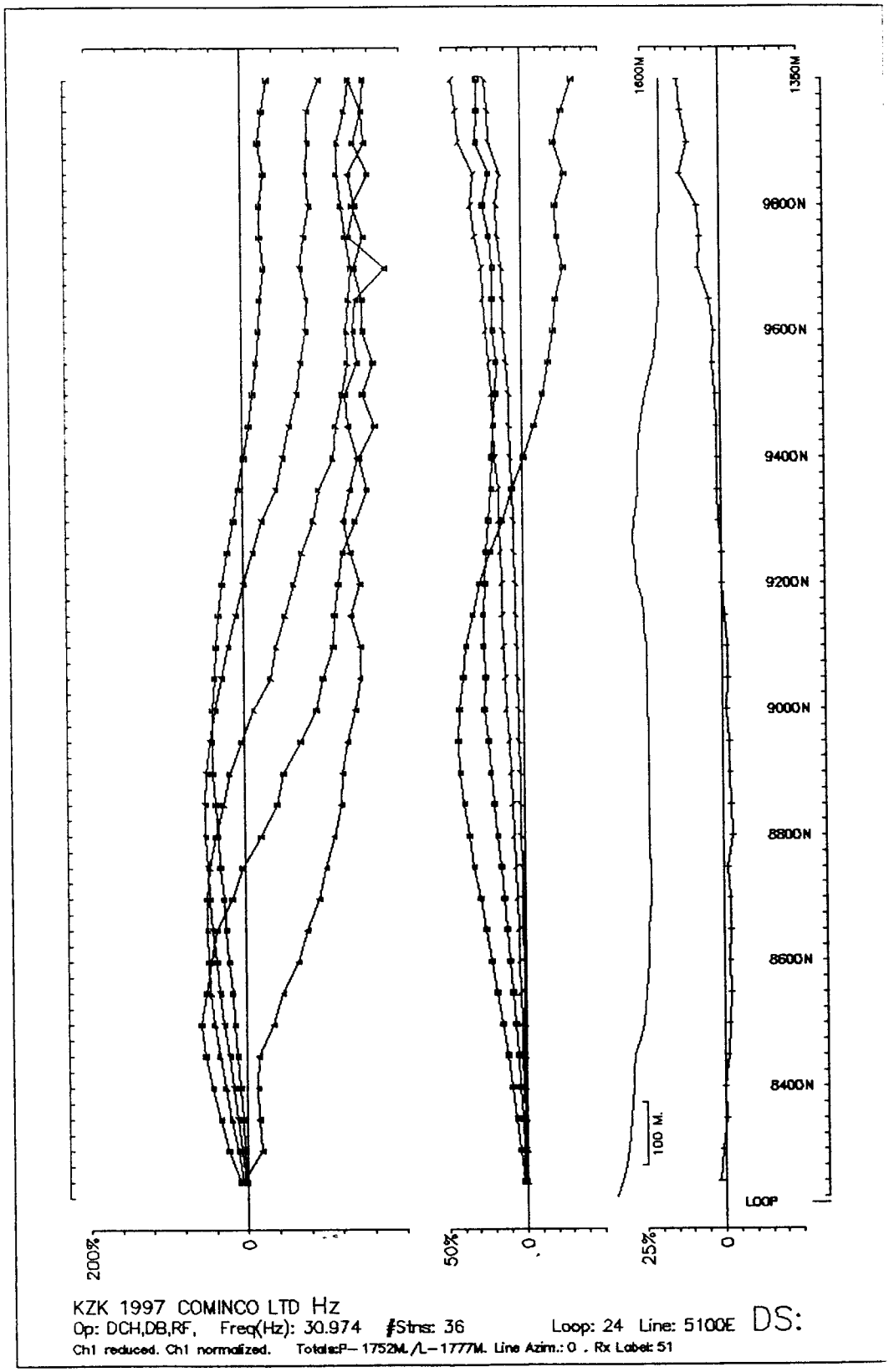
D.S.: 6 – 7


1600N
1350N
9800N
9600N
9400N
9200N
9000N
8800N
8600N
8400N
100 M.
200%
0
50%
0
25%
0
KZK 1997 COMINCO LTD Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 36 Loop: 24 Line: 4700E DS:
Ch1 reduced. Ch1 normalized. Totals:P–1752M./L–1752M. Line Azim.: 0 . Rx Label: 47

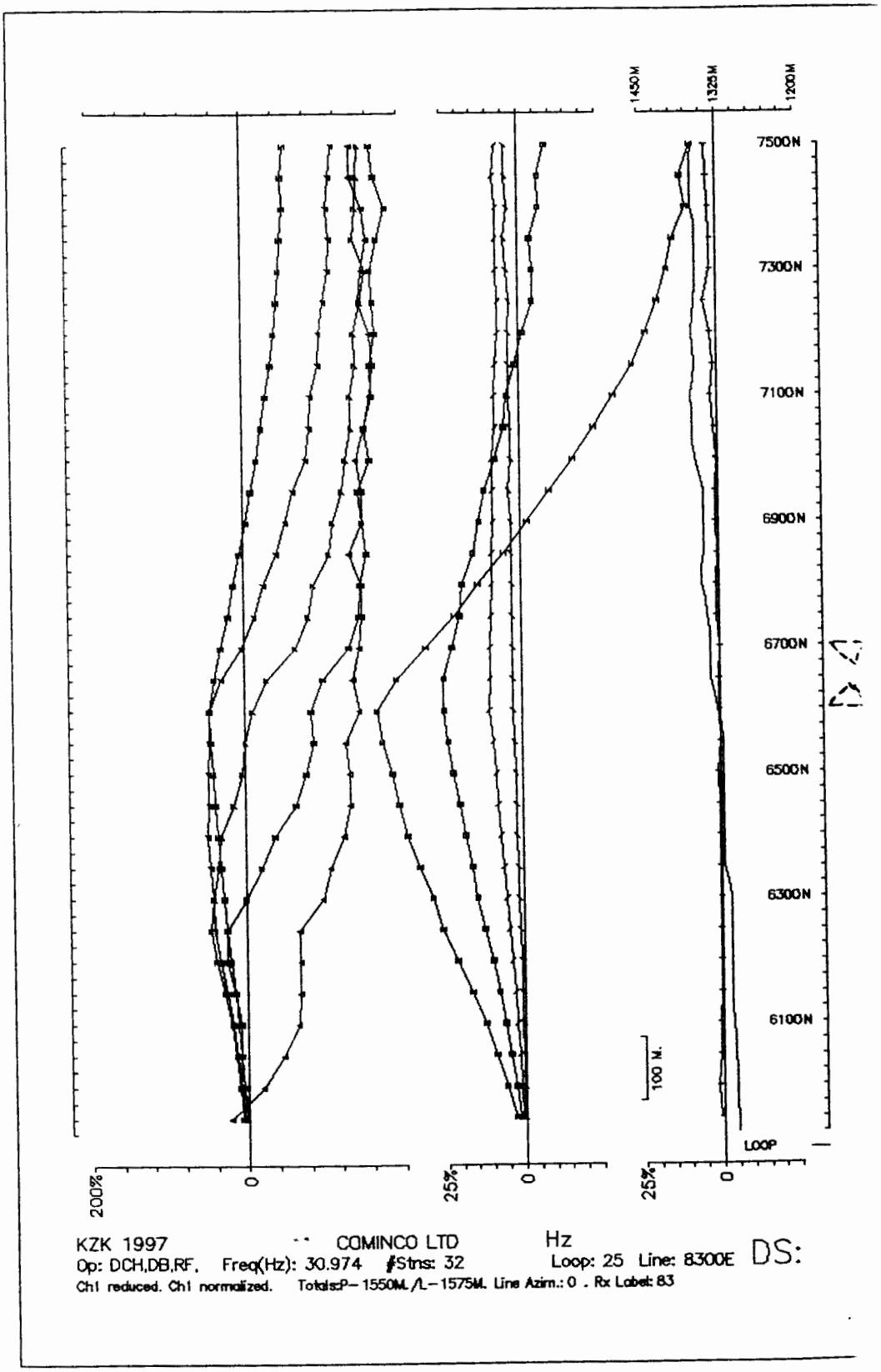
D.S.: 6 - 8


1600N
1350N
9800N
9600N
9400N
9200N
9000N
8800N
8600N
8400N
100 M.
200%
50%
25%
0
KZK 1997 COMINCO LTD Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 37 Loop: 24 Line: 4900E DS:
Ch1 reduced. Ch1 normalized. Totals:P-1752M./L-1752M. Line Azim.: 0 . Rx Label: 49

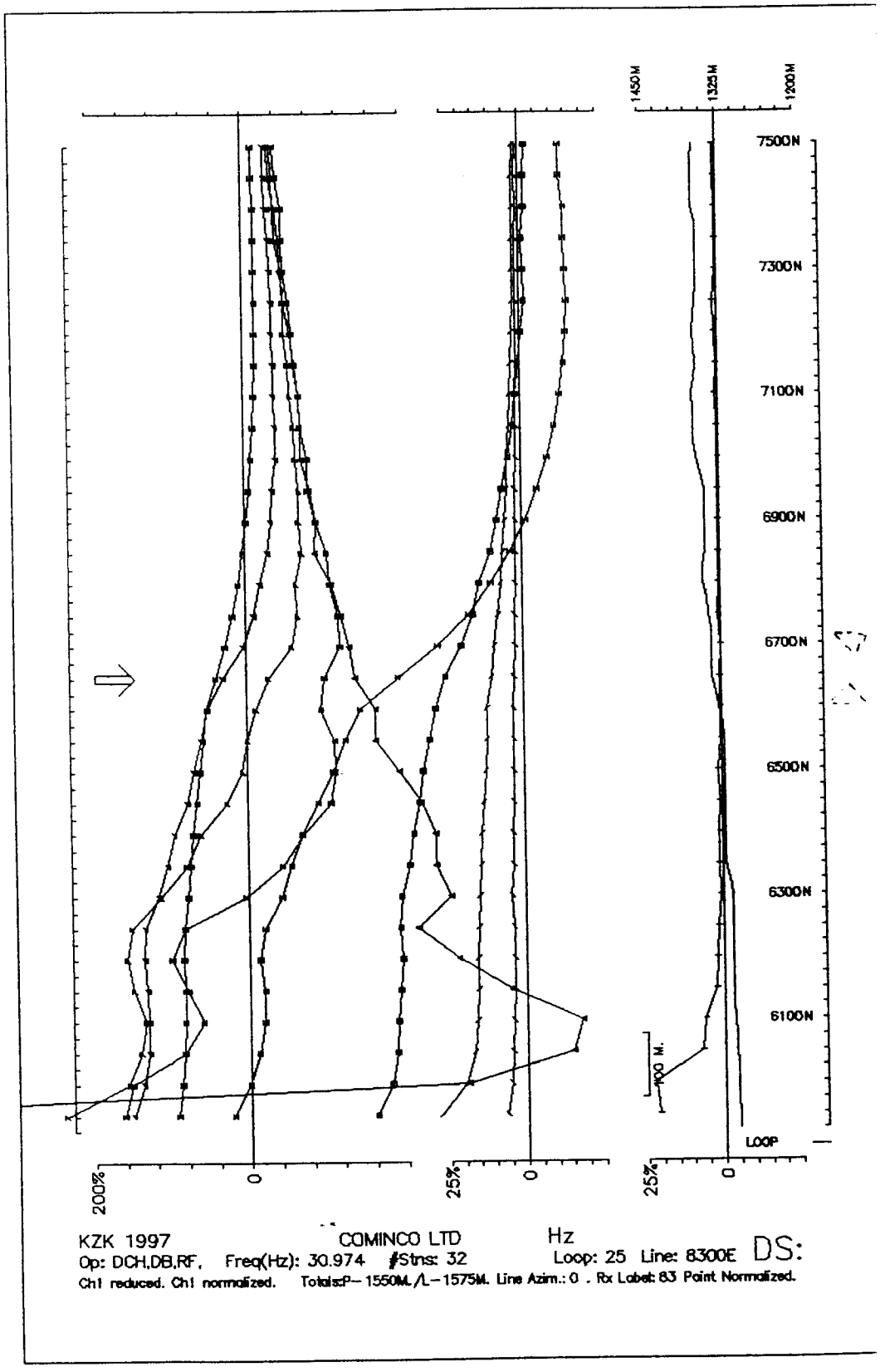
D.S.: 6 - 9


1600M
1350M
9800N
9600N
9400N
9200N
9000N
8800N
8600N
8400N
100 M.
LOOP
200%
0
50%
0
25%
0
KZK 1997 COMINCO LTD Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 36 Loop: 24 Line: 5100E DS:
Ch1 reduced. Ch1 normalized. Totals:P-1752M./L-1777M. Line Azim.: 0 . Rx Label: 51

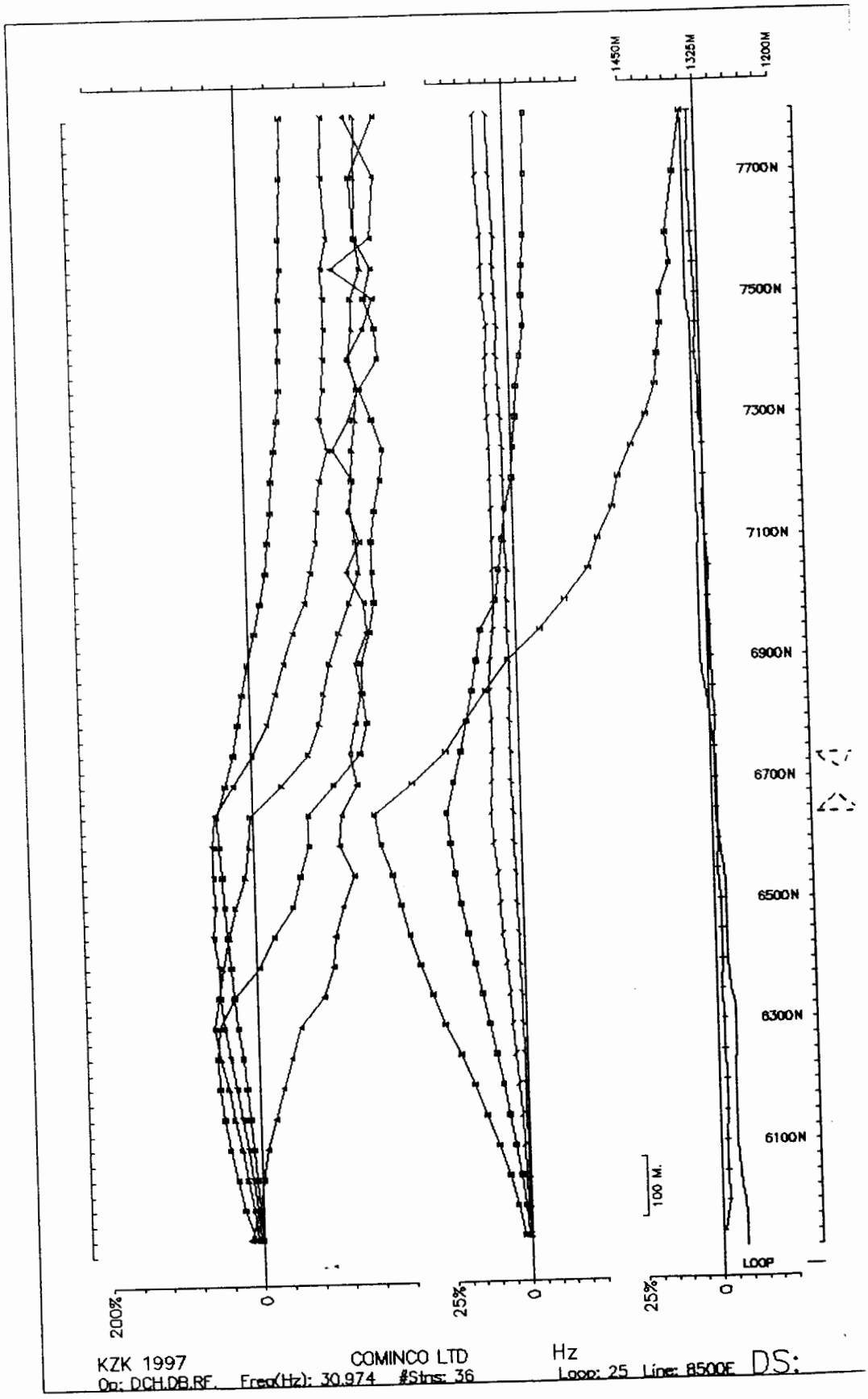
D.S.: 6 – 10a


1450M
1325M
1200M
7500N
7300N
7100N
6900N
6700N
6500N
6300N
6100N
100 M.
LOOP
200%
25%
25%
0
0
0
KZK 1997 COMINCO LTD Hz
Op: DCH,DB,RF. Freq(Hz): 30.974 #Stns: 32 Loop: 25 Line: 8300E DS:
Ch1 reduced. Ch1 normalized. Totals:P-1550M./L-1575M. Line Azim.: 0 . Rx Label: 83

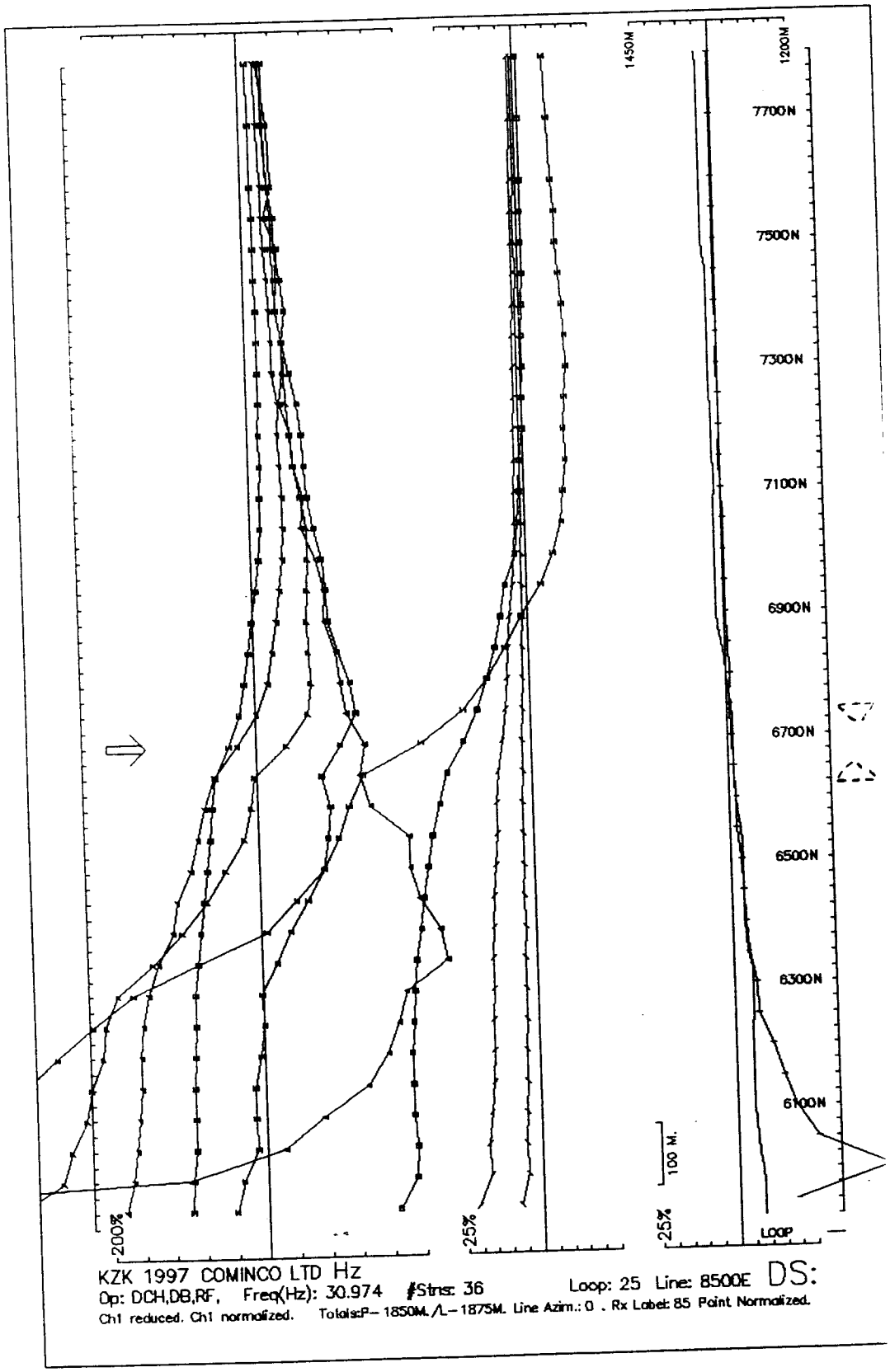
D.S.: 6 – 10b


1450M
1325M
1200M
7500N
7300N
7100N
6900N
6700N
6500N
6300N
6100N
100 M.
LOOP
200%
0
25%
0
25%
0
KZK 1997
COMINCO LTD
Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 32
Loop: 25 Line: 8300E
DS:
Ch1 reduced. Ch1 normalized. Totals:P-1550M./L-1575M. Line Azim.: 0 . Rx Label: 83 Point Normalized.

D.S.: 6 – 11a


1450M
1325M
1200M
7700N
7500N
7300N
7100N
6900N
6700N
6500N
6300N
6100N
100 M.
LOOP
200%
0
25%
0
25%
0
KZK 1997
COMINCO LTD
Hz
Op: DCH.DB.RF. Freq(Hz): 30.974 #Stns: 36
Loop: 25 Line: 8500E
DS:

D.S.: 6 – 11b


1450M
1200M
7700N
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7300N
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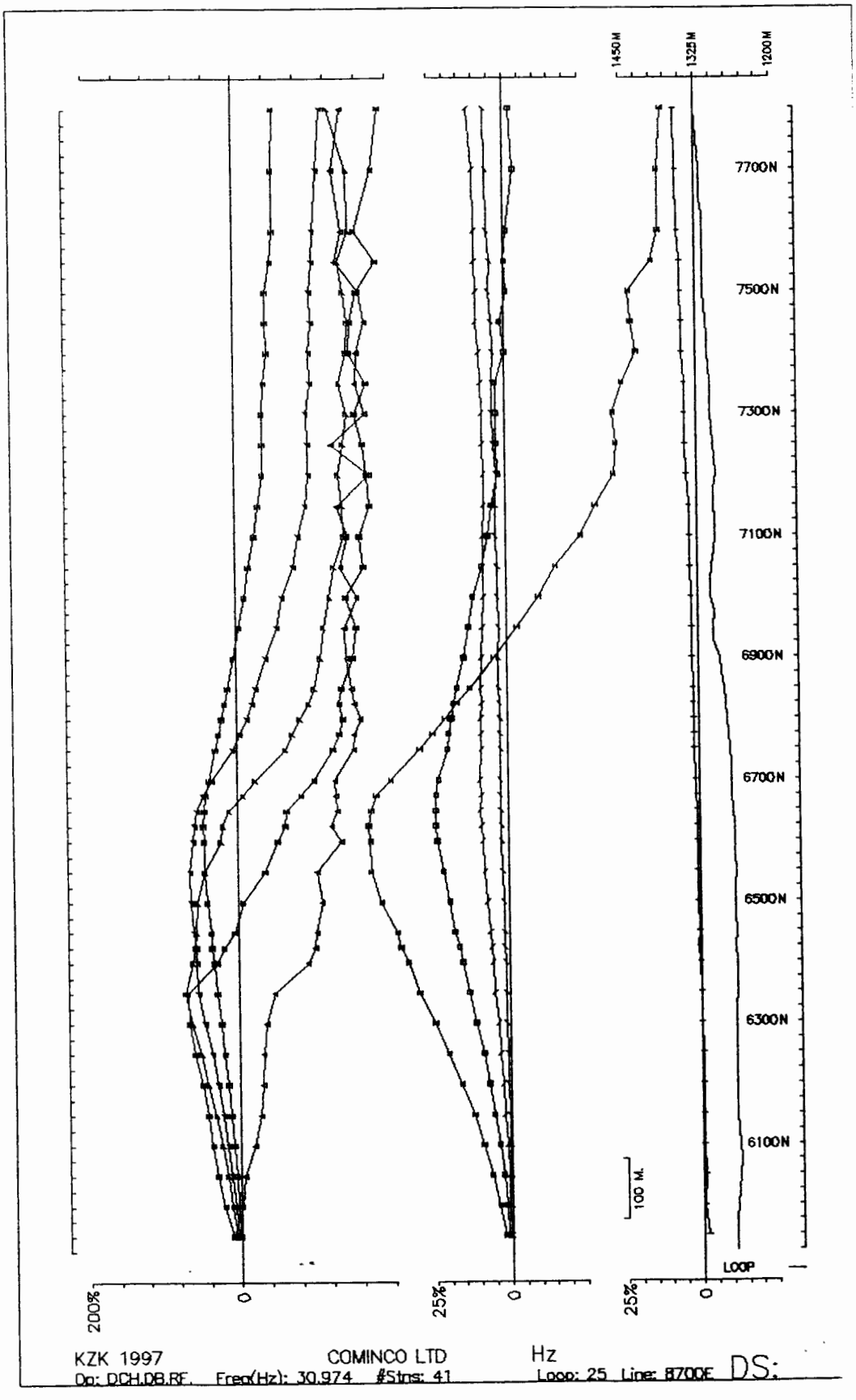
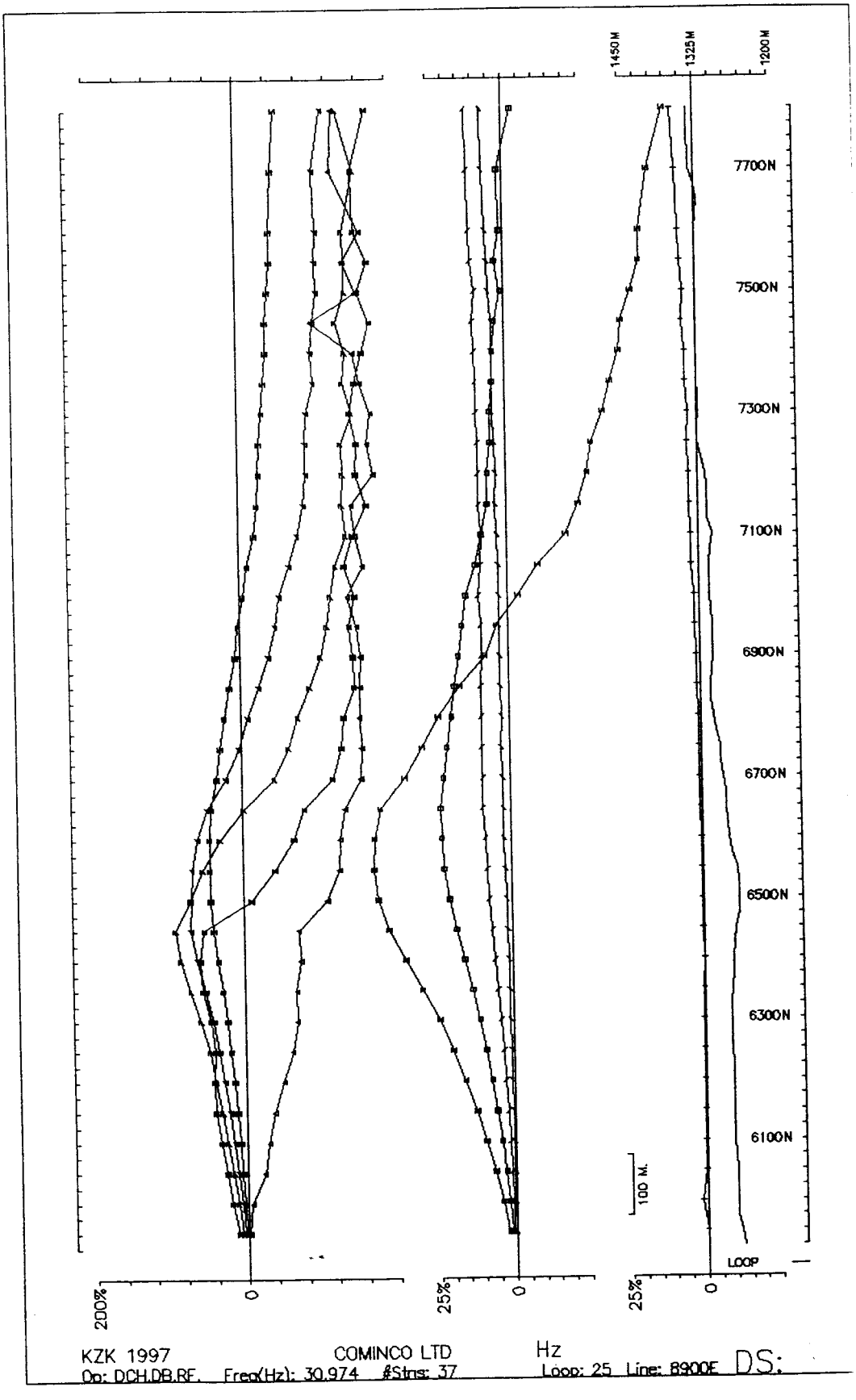
6900N
6700N
6500N
6300N
6100N
100 M.
-200%
25%
25%
LOOP
KZK 1997 COMINCO LTD Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 36 Loop: 25 Line: 8500E DS:
Ch1 reduced. Ch1 normalized. Totals:P– 1850M. /L– 1875M. Line Azim.: 0 . Rx Label: 85 Point Normalized.

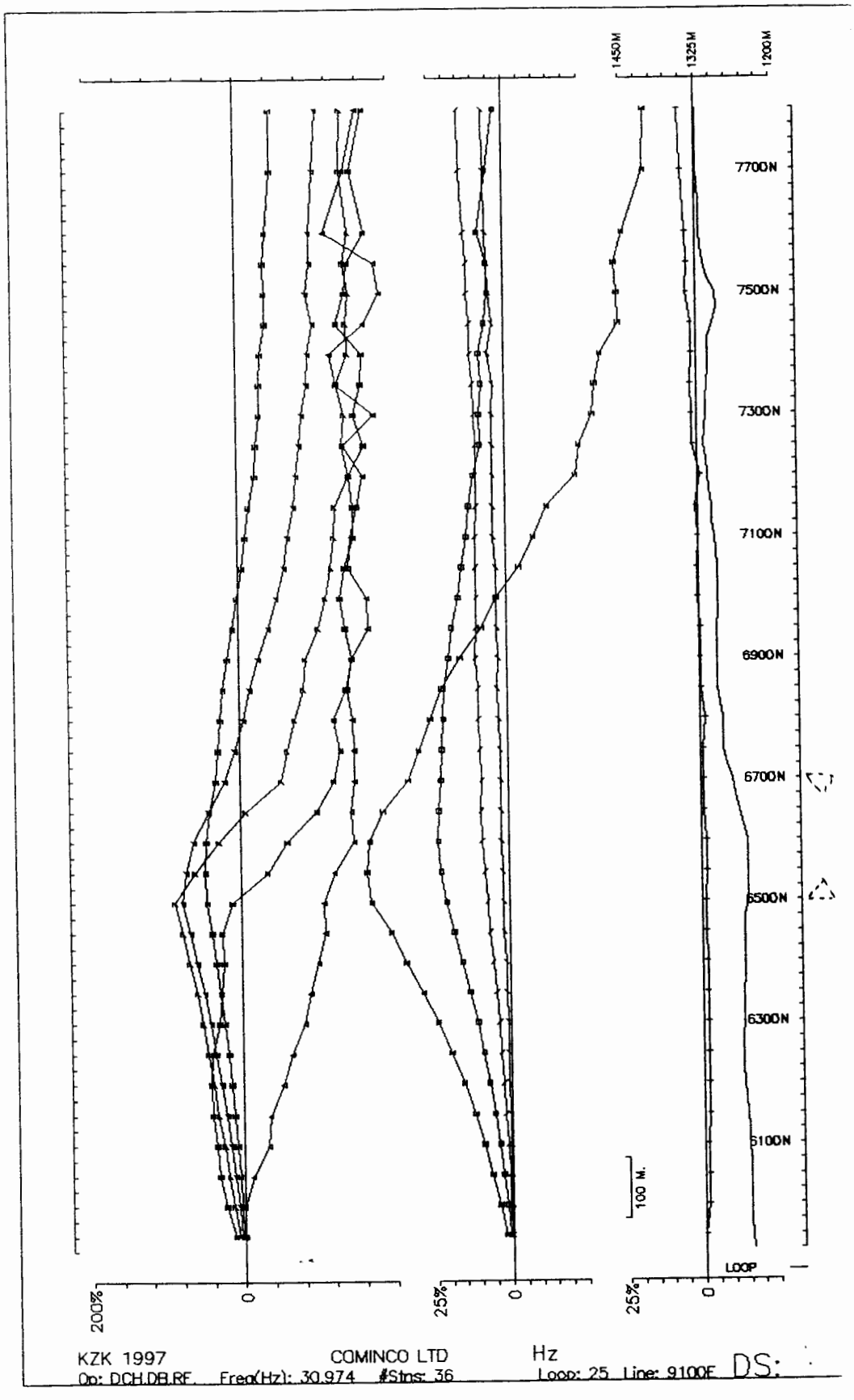
D.S.: 6 – 12


1450M
1325M
1200M
7700N
7500N
7300N
7100N
6900N
6700N
6500N
6300N
6100N
100 M.
LOOP
200%
0
25%
0
25%
0
KZK 1997
COMINCO LTD
Hz
Dp: DCH.DB.RF
Freq(Hz): 30.974
#Stns: 41
Loop: 25
Line: 8700E
DS:

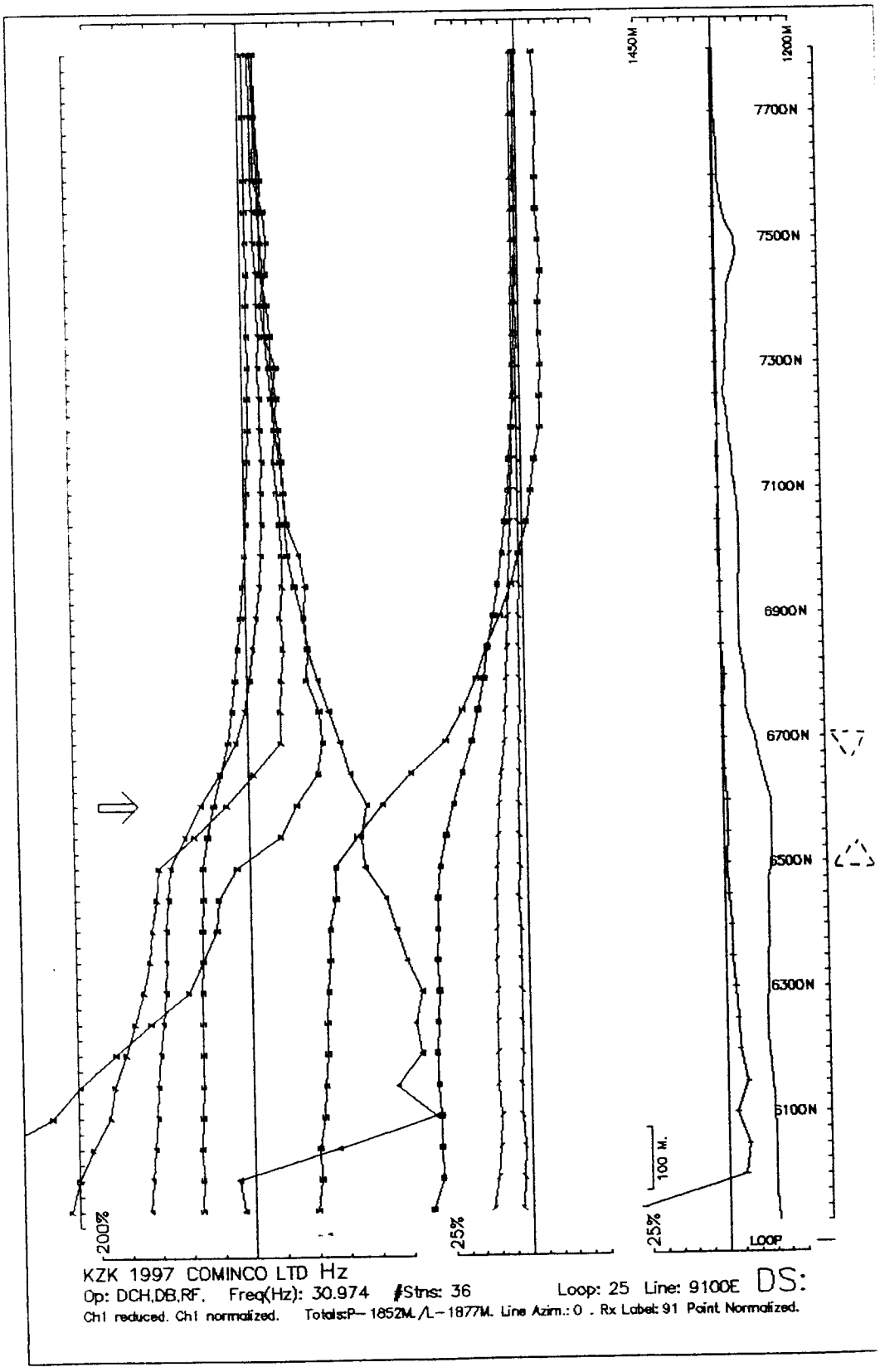
D.S.: 6 – 13


1450 M
1325 M
1200 M
7700N
7500N
7300N
7100N
6900N
6700N
6500N
6300N
6100N
100 M.
LOOP
200%
0
25%
0
25%
0
KZK 1997
COMINCO LTD
Hz
Op: DCH,DB,RF. Freq(Hz): 30.974 #Stns: 37
Loop: 25 Line: 8900E
DS:

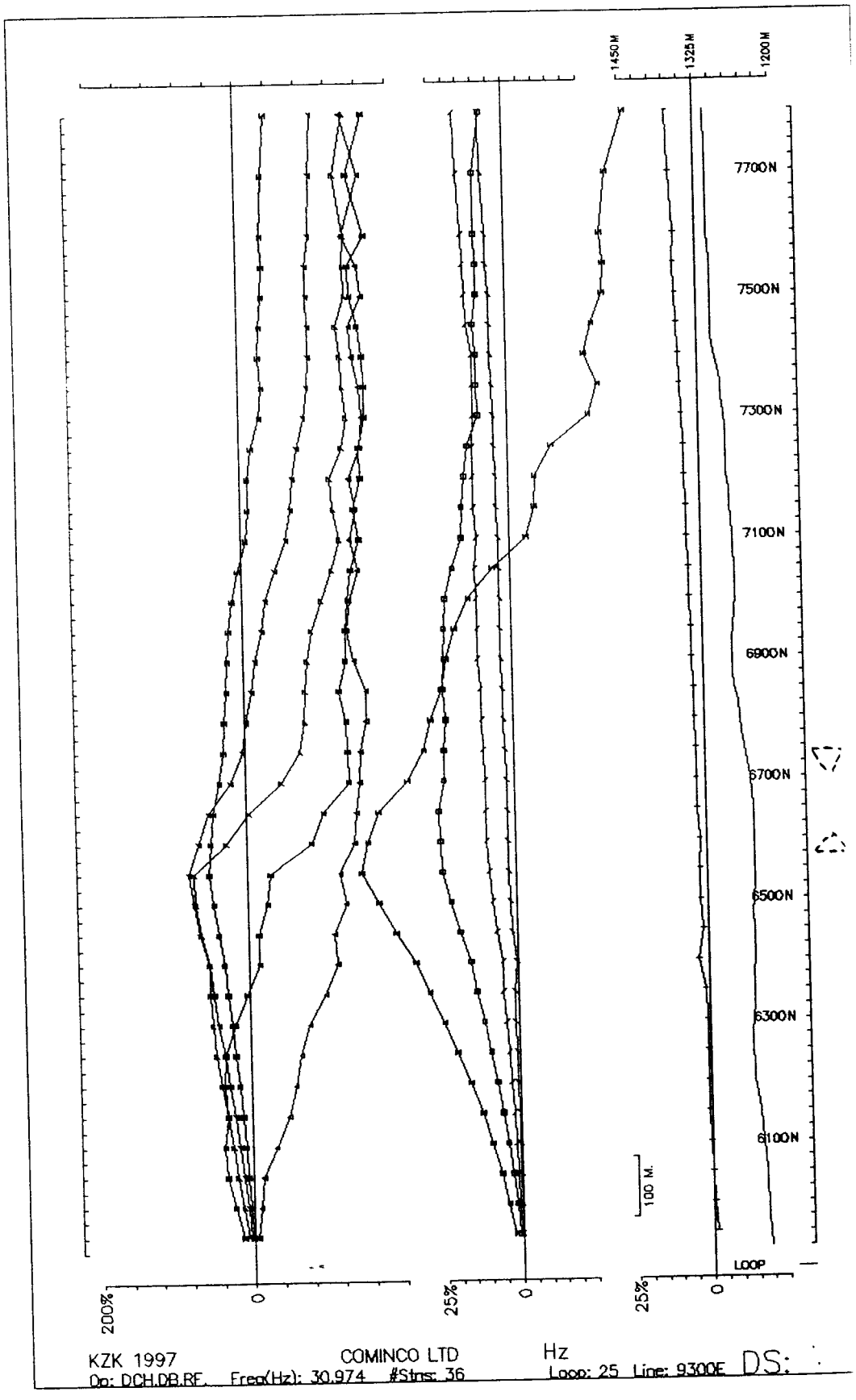
D.S.: 6 – 14a


1450M
1325M
1200M
7700N
7500N
7300N
7100N
6900N
6700N
6500N
6300N
6100N
100 M.
LOOP
200%
25%
25%
0
0
0
KZK 1997
COMINCO LTD
Hz
Op: DCH,DBLRF
Freq(Hz): 30.974
#Stns: 36
Loop: 25
Line: 9100E
DS:

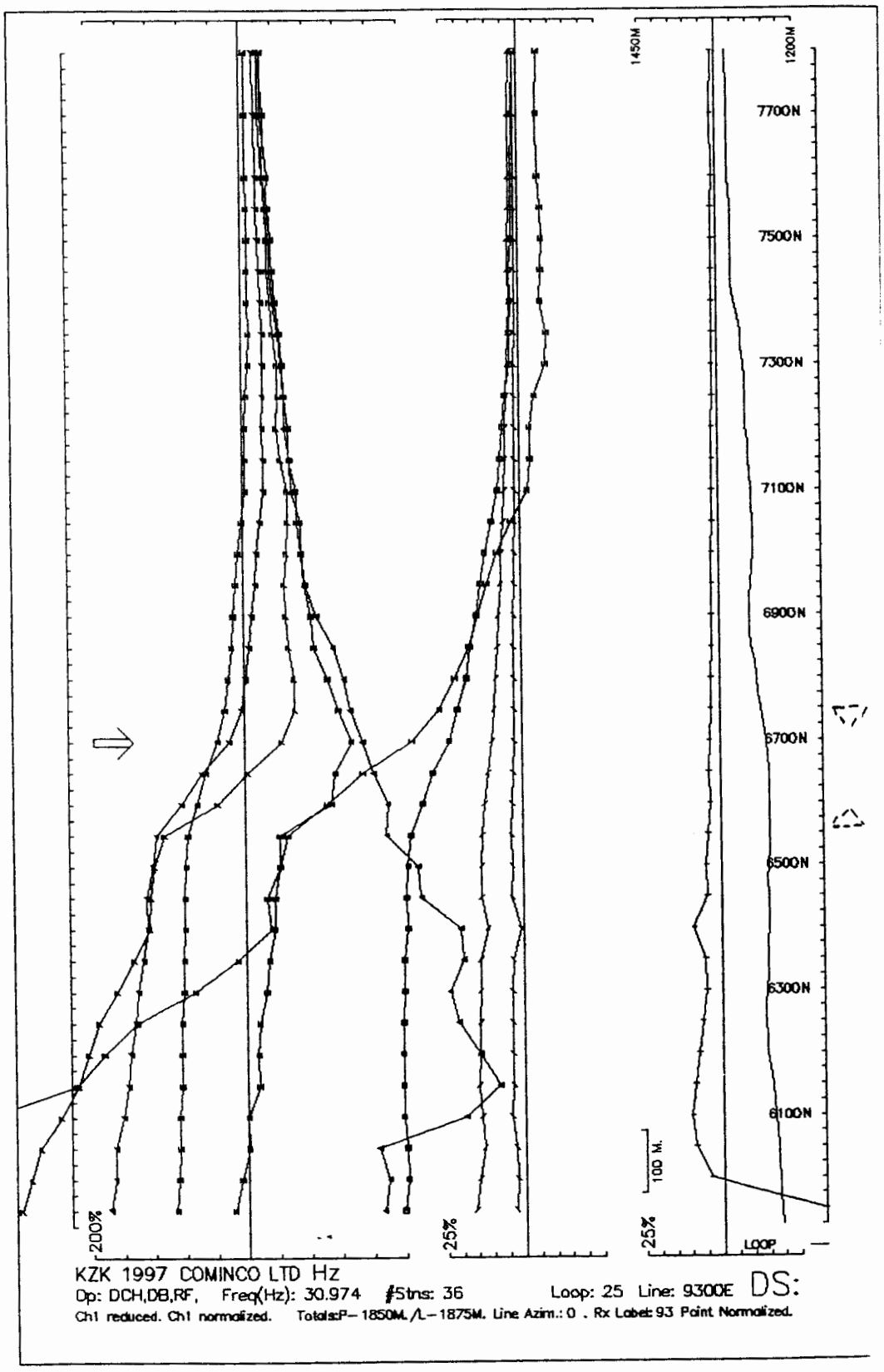
D.S.: 6 - 14b


1450M
1200M
7700N
7500N
7300N
7100N
6900N
6700N
6500N
6300N
6100N
100 M.
200%
25%
25%
LOOP
KZK 1997 COMINCO LTD Hz
Op: DCH,DB,RF. Freq(Hz): 30.974 #Stns: 36 Loop: 25 Line: 9100E DS:
Ch1 reduced. Ch1 normalized. Totals:P-1852M./L-1877M. Line Azim.: 0 . Rx Label: 91 Point Normalized.

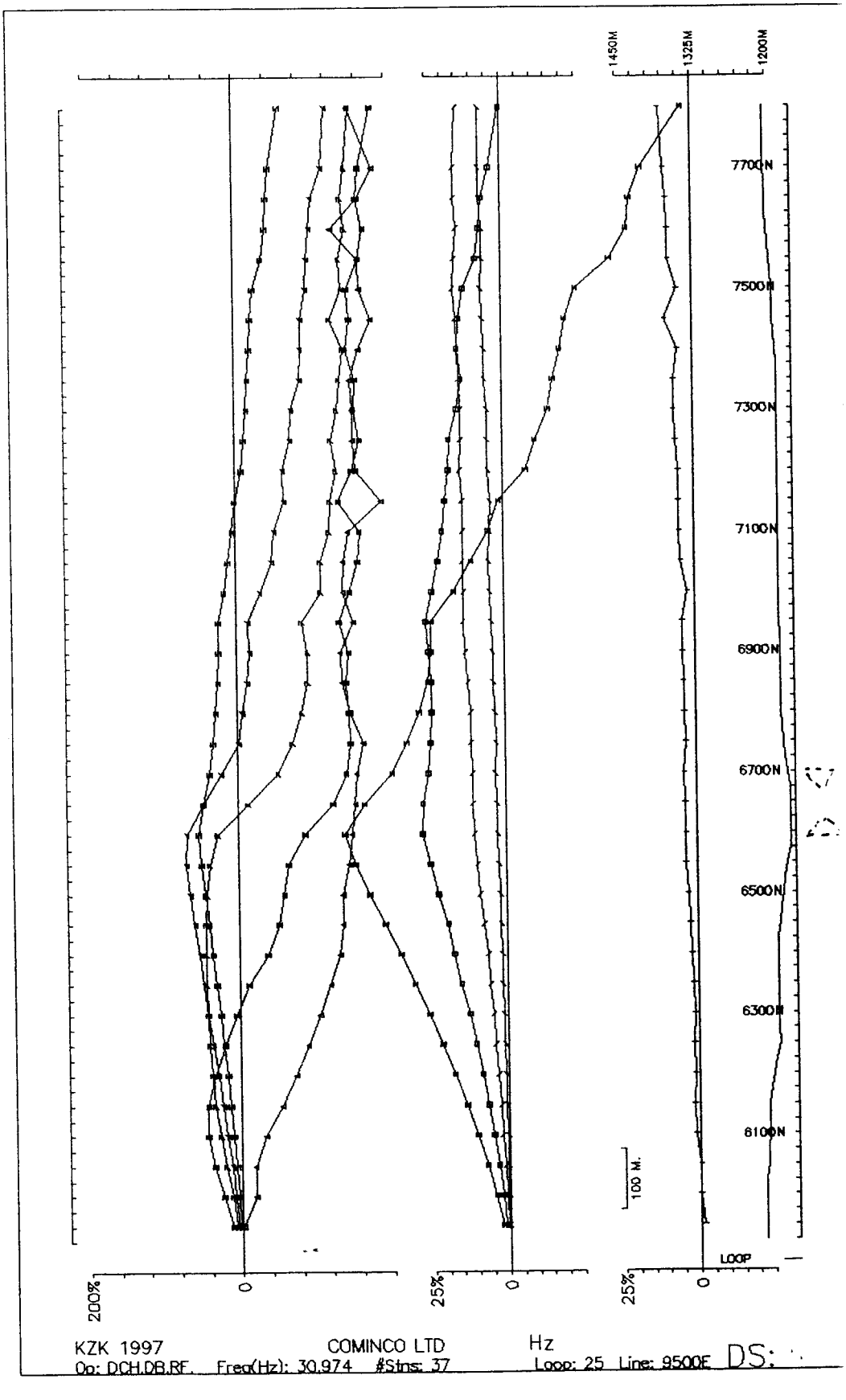
D.S.: 6 – 15a


1450 M
1325 M
1200 M
7700N
7500N
7300N
7100N
6900N
6700N
6500N
6300N
6100N
100 M.
LOOP
200%
0
25%
0
25%
0
KZK 1997
COMINCO LTD
Hz
Op: DCH.DB.RF Freq(Hz): 30.974 #Stns: 36
Loop: 25 Line: 9300E
DS:

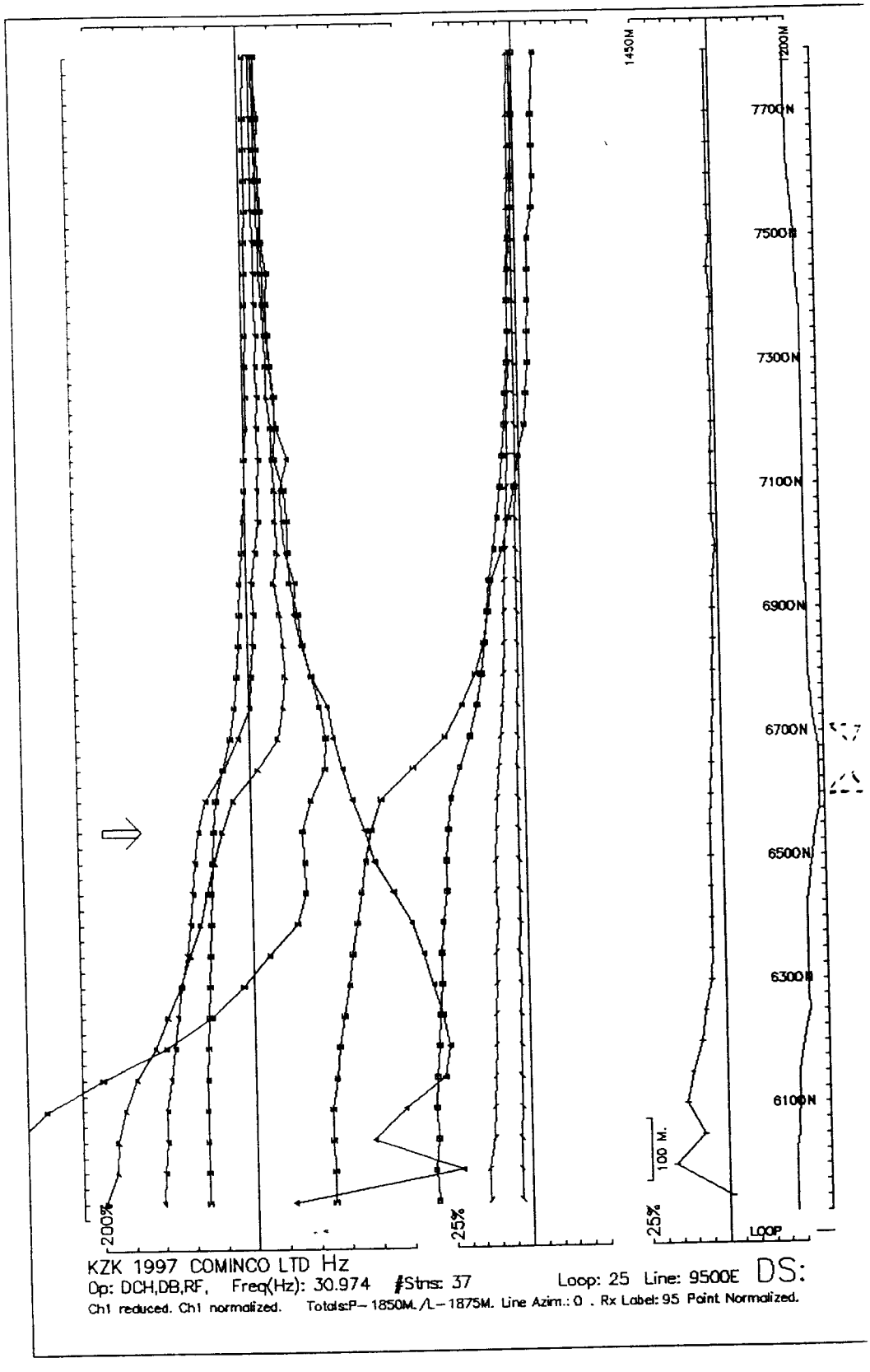
D.S.: 6 – 15b


1450M
1200M
7700N
7500N
7300N
7100N
6900N
6700N
6500N
6300N
6100N
100 M.
200%
25%
25%
LOOP
KZK 1997 COMINCO LTD Hz
Dp: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 36 Loop: 25 Line: 9300E DS:
Ch1 reduced. Ch1 normalized. Totals:P-1850M./L-1875M. Line Azim.: 0 . Rx Label: 93 Point Normalized.

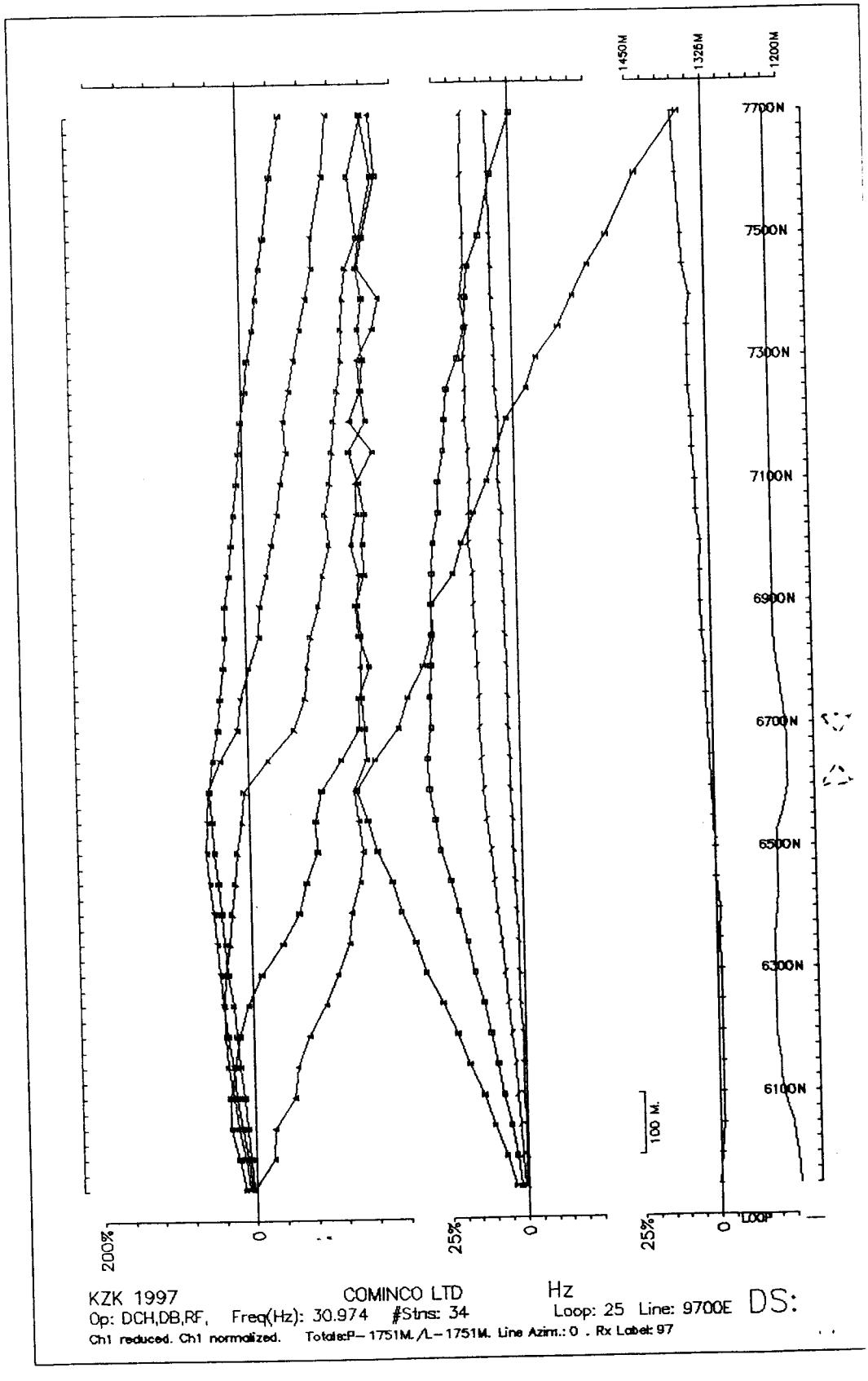
D.S.: 6 – 16a


1450M
1325M
1200M
7700N
7500N
7300N
7100N
6900N
6700N
6500N
6300N
6100N
100 M.
LOOP
200%
0
25%
0
25%
0
KZK 1997
COMINCO LTD
Hz
Op: DCH,DB,RF Freq(Hz): 30.974 #Stns: 37
Loop: 25 Line: 9500E
DS:

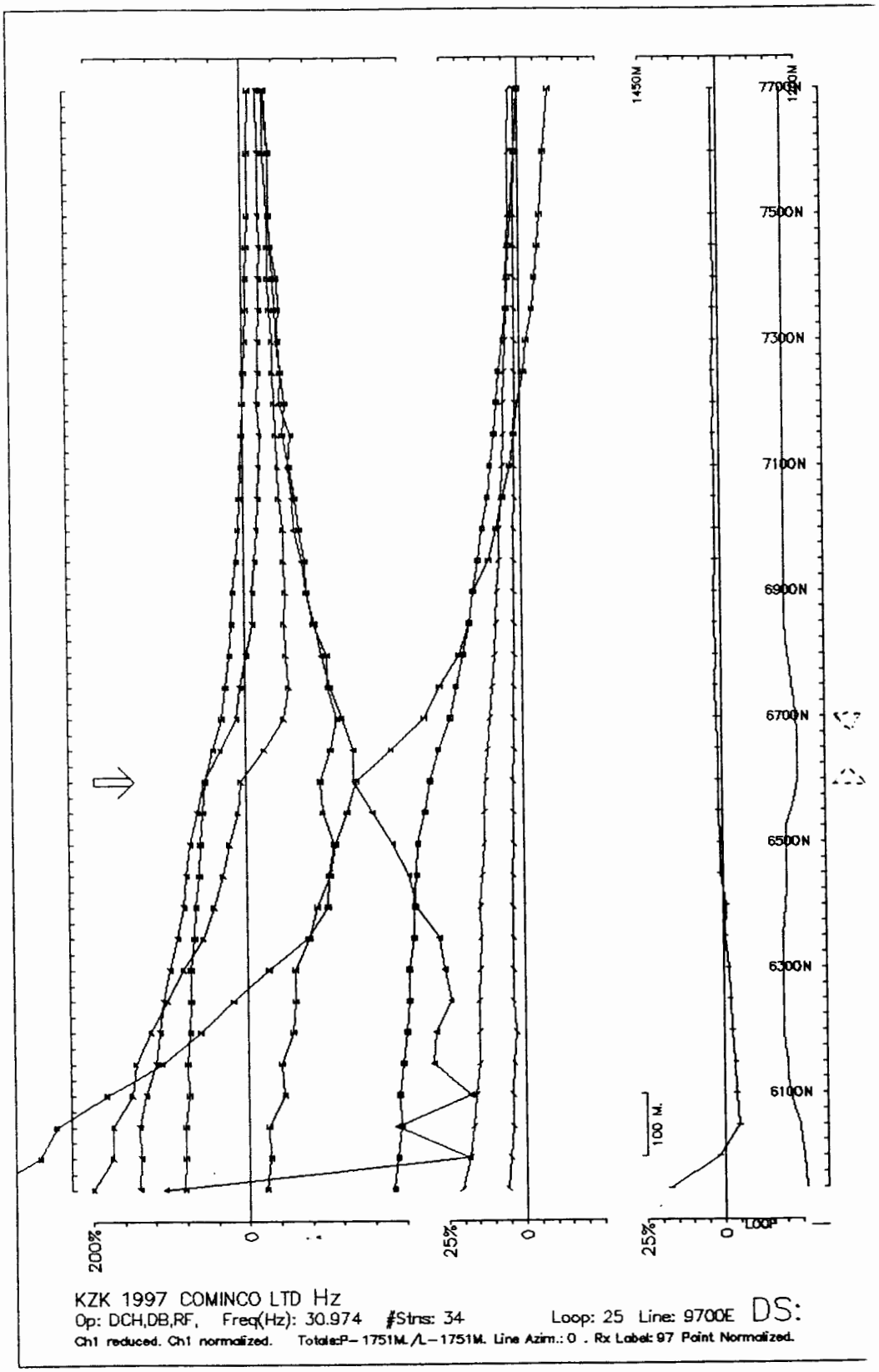
D.S.: 6 – 16b


1450M
7200N
7700N
7500N
7300N
7100N
6900N
6700N
6500N
6300N
6100N
200%
25%
100 M.
25%
LOOP
KZK 1997 COMINCO LTD Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 37 Loop: 25 Line: 9500E DS:
Ch1 reduced. Ch1 normalized. Totals:P–1850M./L–1875M. Line Azim.: 0 . Rx Label: 95 Point Normalized.

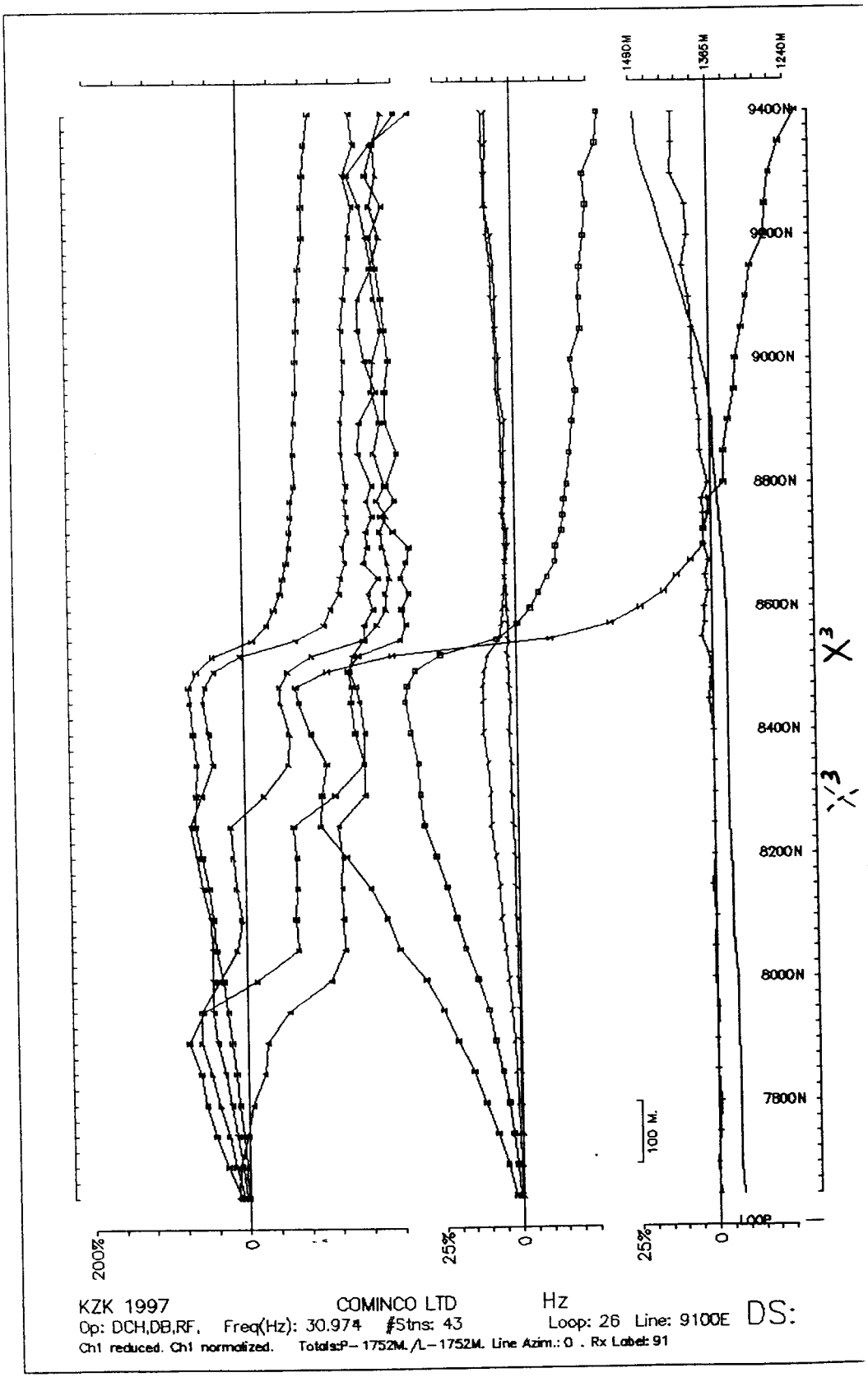
D.S.: 6 – 17a


1450M
1325M
1200M
7700N
7500N
7300N
7100N
6900N
6700N
6500N
6300N
6100N
100 M.
200%
25%
25%
0
0
0
LOOP
KZK 1997
COMINCO LTD
Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 34
Loop: 25 Line: 9700E
DS:
Ch1 reduced. Ch1 normalized. Totals:P-1751M./L-1751M. Line Azim.: 0 . Rx Label: 97

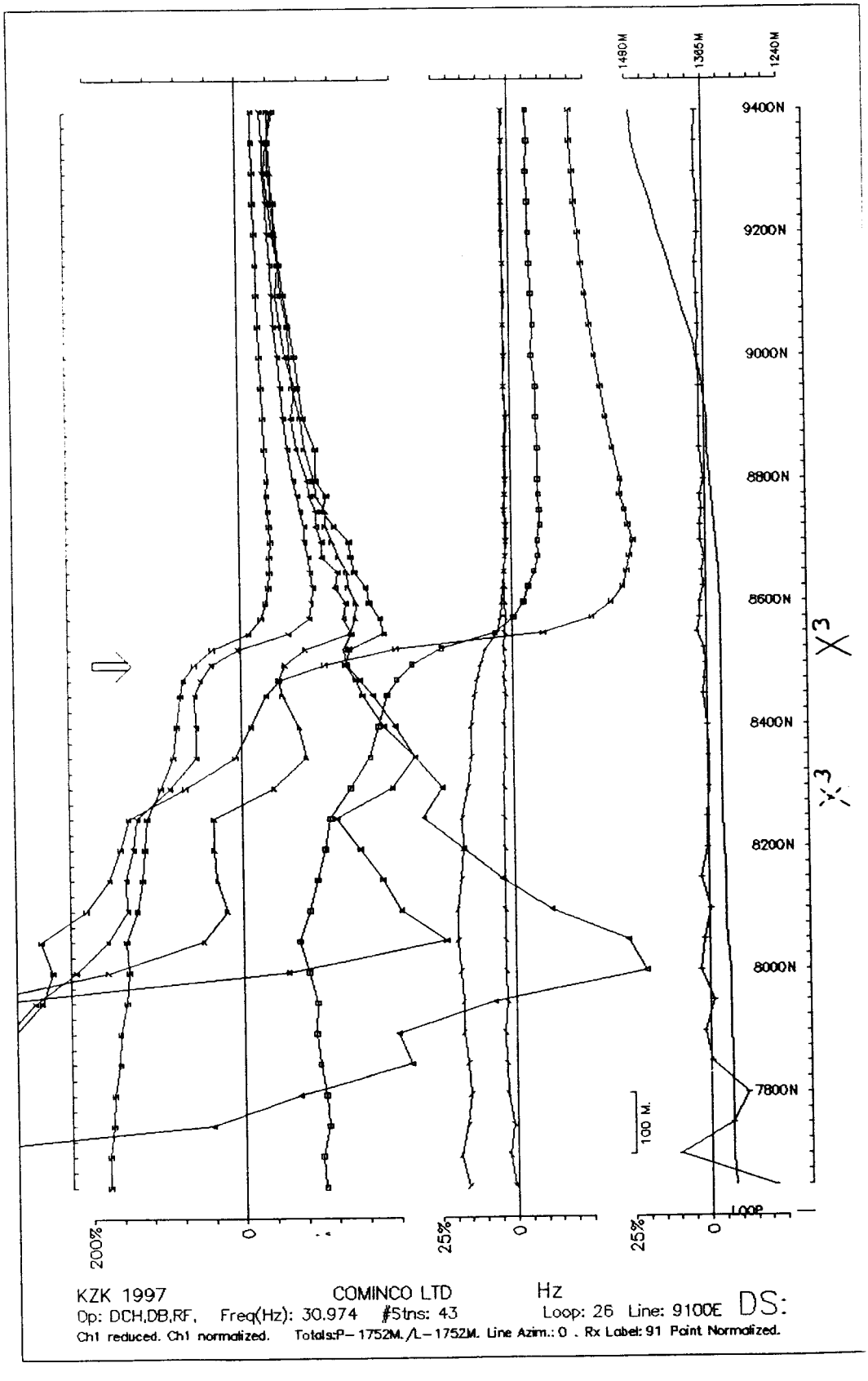
D.S.: 6 – 17b


1450M
7700N
7500N
7300N
7100N
6900N
6700N
6500N
6300N
6100N
100 M.
200%
25%
0
25%
0
LOOP
KZK 1997 COMINCO LTD Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 34 Loop: 25 Line: 9700E DS:
Ch1 reduced. Ch1 normalized. Totals:P– 1751M./L– 1751M. Line Azim.: 0 . Rx Label: 97 Point Normalized.

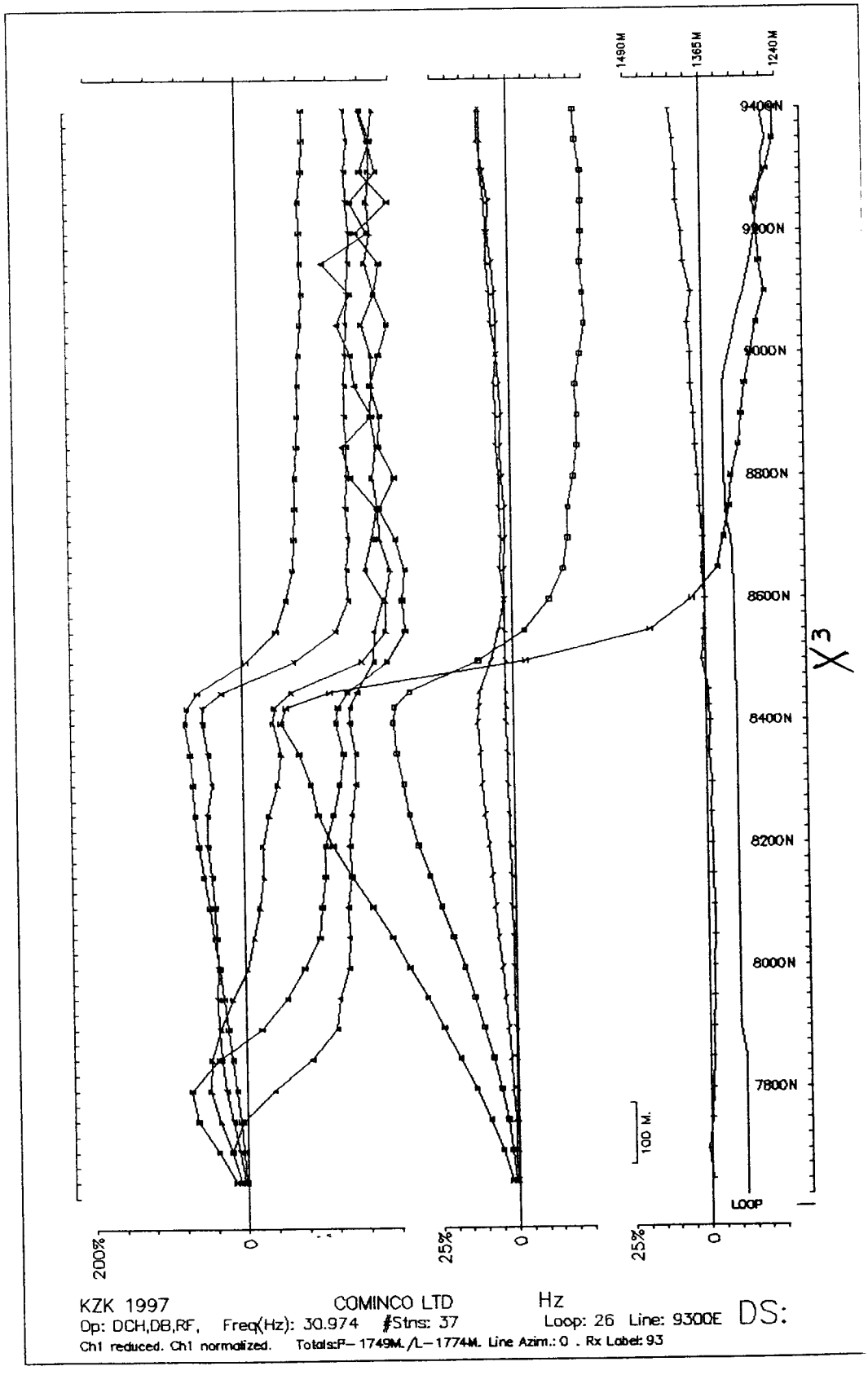
D.S.: 6 – 18a


1490M
1365M
1240M
9400N
9200N
9000N
8800N
8600N
8400N
8200N
8000N
7800N
100 M.
200%
0
25%
0
25%
0
KZK 1997
COMINCO LTD
Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 43
Loop: 26 Line: 9100E
DS:
Ch1 reduced. Ch1 normalized. Totals:P-1752M. /L-1752M. Line Azim.: 0 . Rx Label: 91

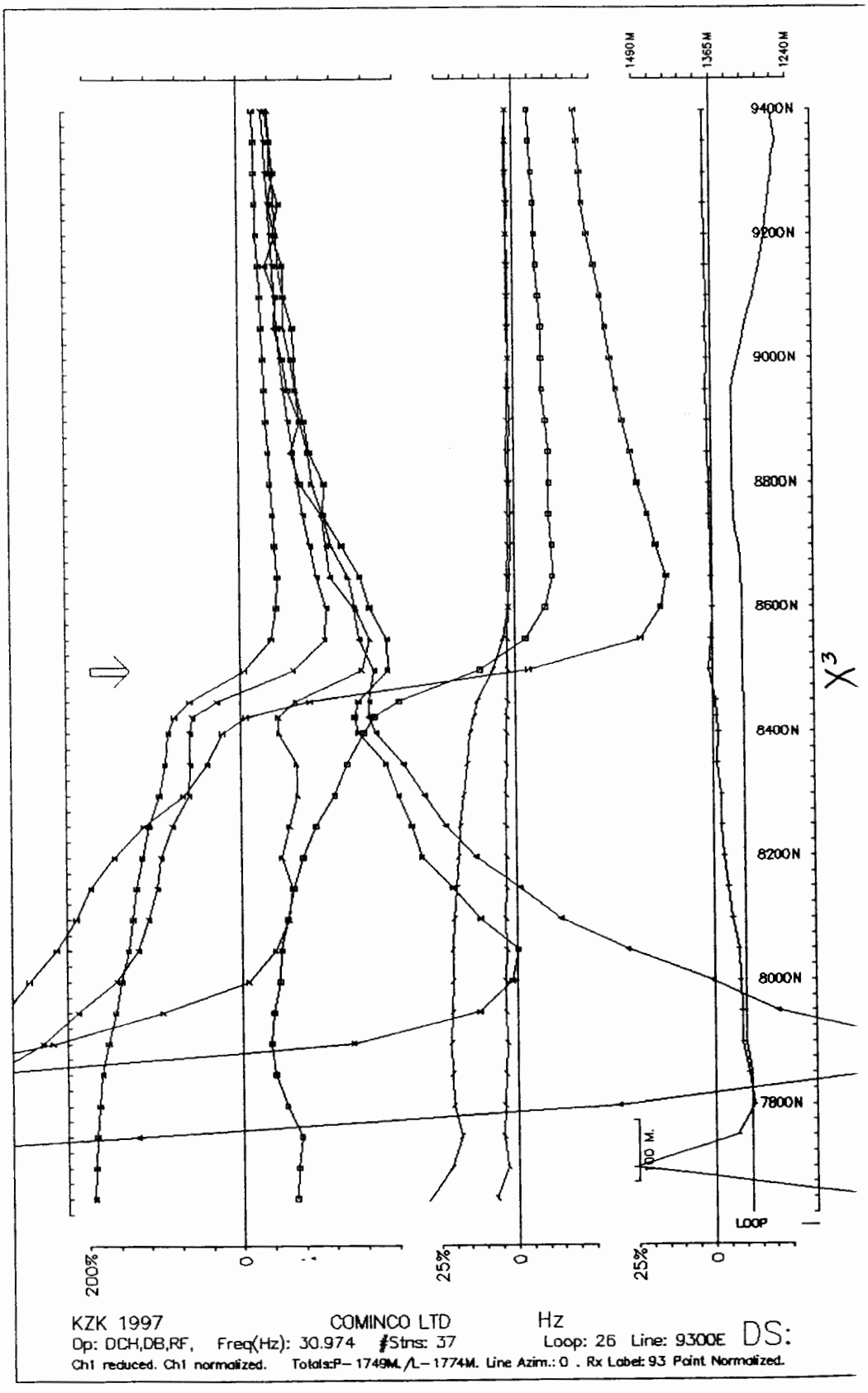
D.S.: 6 – 18b


1480M
1365M
1240M
9400N
9200N
9000N
8800N
8600N
8400N
8200N
8000N
7800N
100 M.
200%
25%
25%
0
0
0
KZK 1997
COMINCO LTD
Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 43
Loop: 26 Line: 9100E
DS:
Ch1 reduced. Ch1 normalized. Totals:P-1752M./L-1752M. Line Azim.: 0 . Rx Label: 91 Point Normalized.

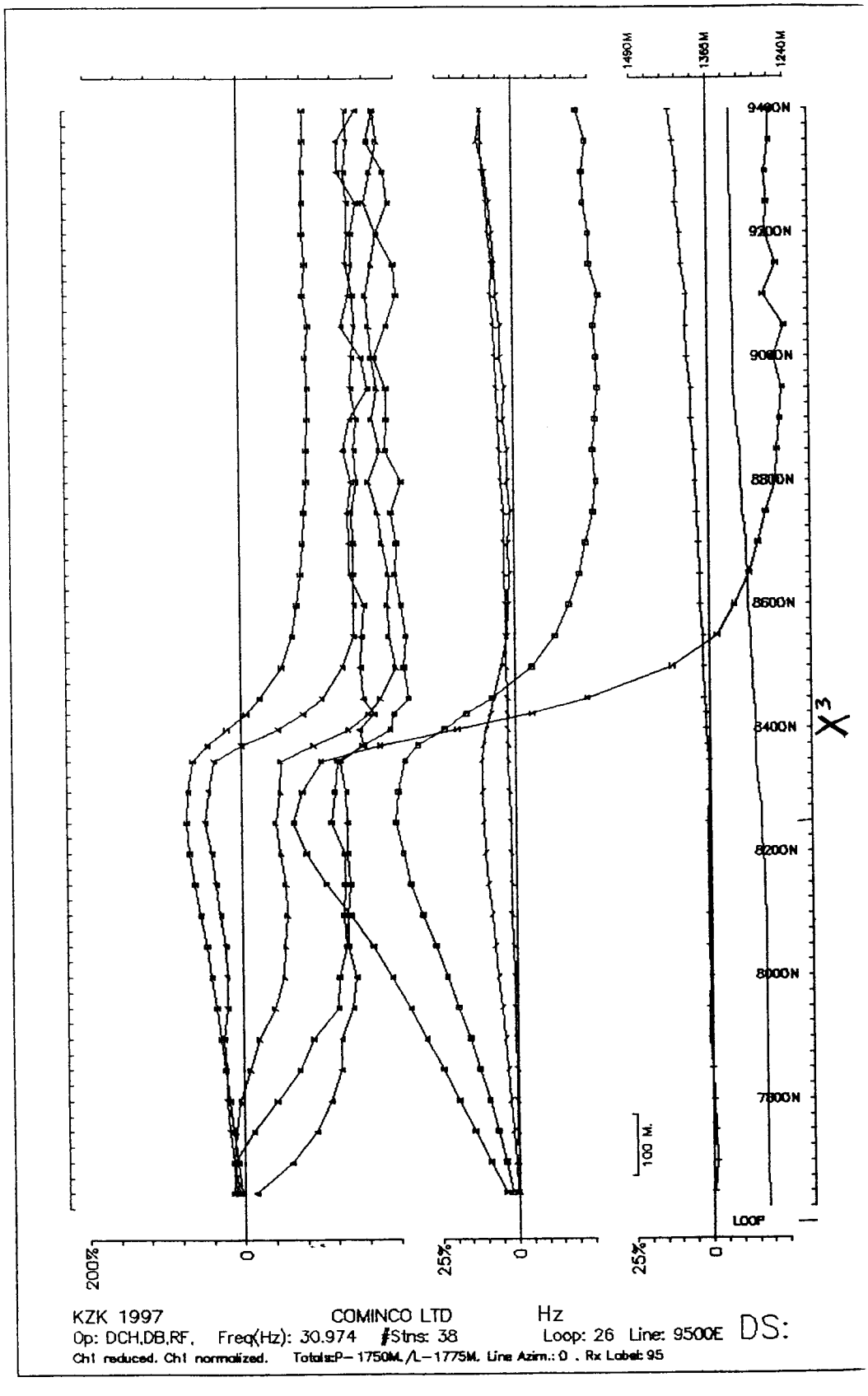
D.S.: 6 - 19a


1490M
1365M
1240M
9400N
9200N
9000N
8800N
8600N
8400N
8200N
8000N
7800N
X3
100 M.
LOOP
200%
0
25%
0
25%
0
KZK 1997
COMINCO LTD
Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 37
Loop: 26 Line: 9300E
DS:
Ch1 reduced. Ch1 normalized. Totals:P- 1749M./L-1774M. Line Azim.: 0 . Rx Label: 93

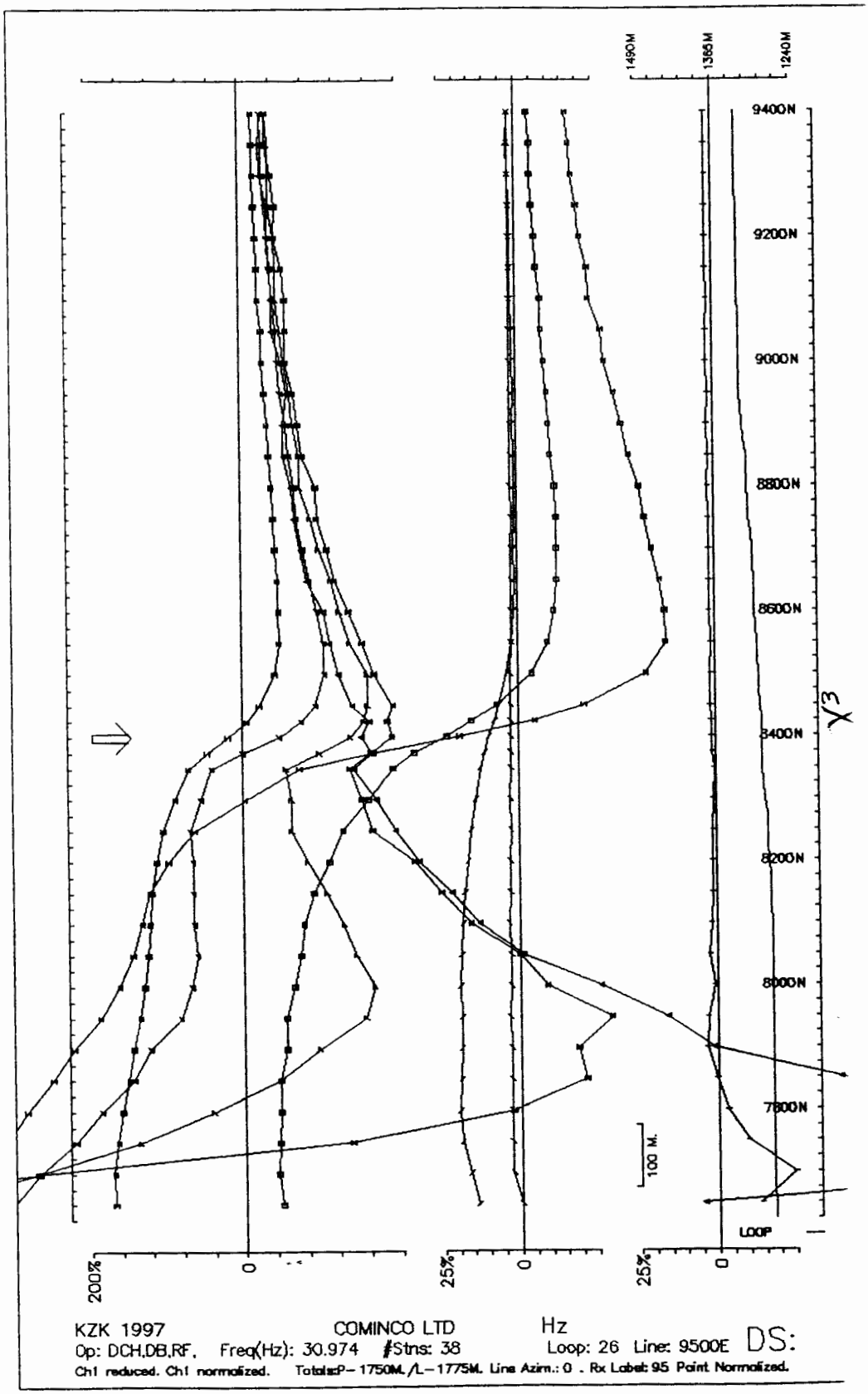
D.S.: 6 – 19b


1490 M
1365 M
1240 M
9400N
9200N
9000N
8800N
8600N
8400N
8200N
8000N
7800N
X3
100 M.
LOOP
200%
0
25%
0
25%
0
KZK 1997
COMINCO LTD
Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 37
Loop: 26 Line: 9300E
DS:
Ch1 reduced. Ch1 normalized. Totals:P– 1749M. /L– 1774M. Line Azim.: 0 . Rx Label: 93 Point Normalized.

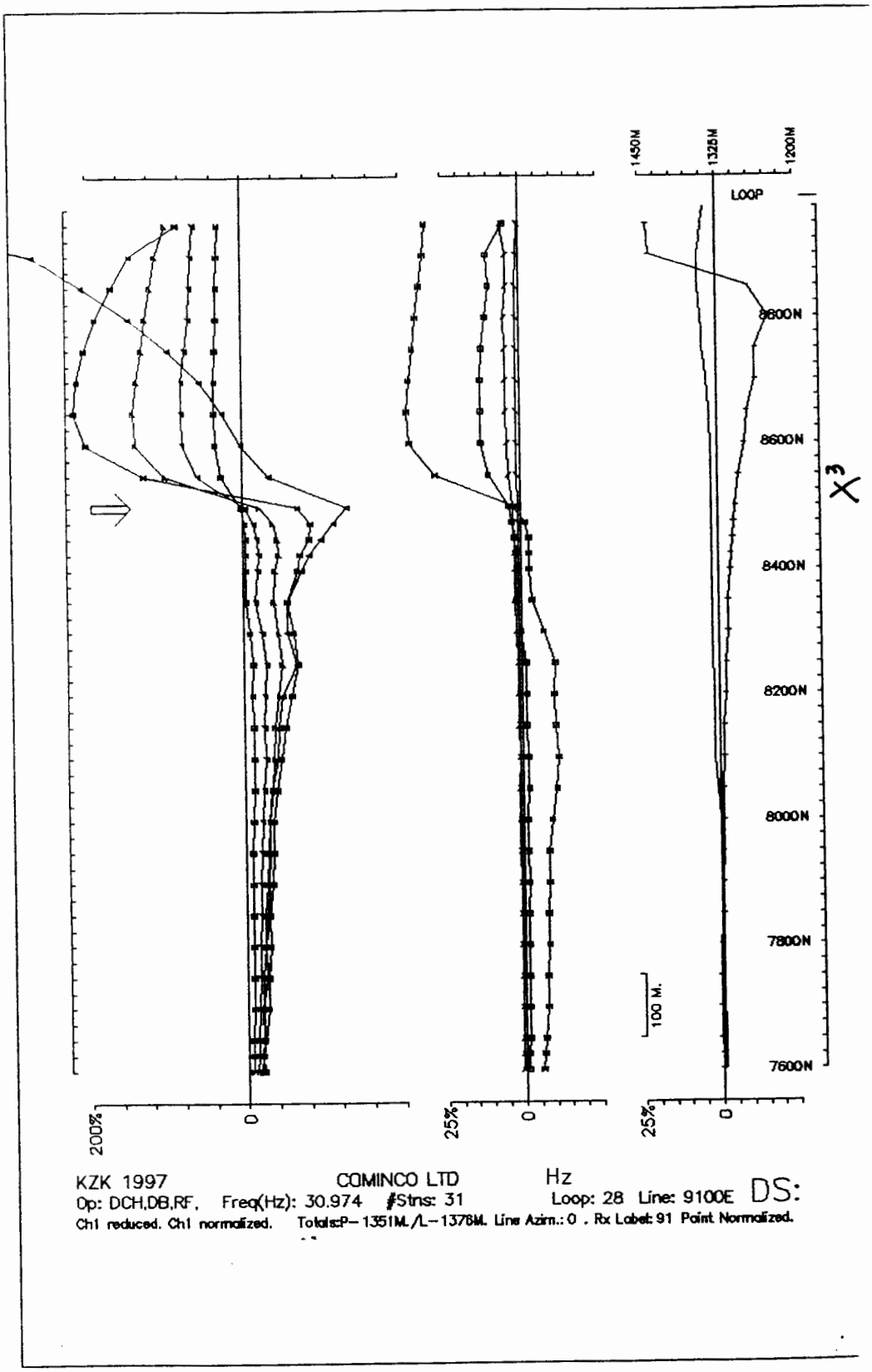
D.S.: 6 – 20a


1490M
1365M
1240M
9400N
9200N
9000N
8800N
8600N
8400N
8200N
8000N
7800N
X3
100 M.
LOOP
200%
0
25%
0
25%
0
KZK 1997
COMINCO LTD
Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 38
Loop: 26 Line: 9500E
DS:
Ch1 reduced. Ch1 normalized. Totals:P-1750M./L-1775M. Line Azim.: 0 . Rx Label: 95

D.S.: 6 – 20b


1490M
1365M
1240M
9400N
9200N
9000N
8800N
8600N
8400N
8200N
8000N
7800N
100 M.
LOOP
200%
25%
25%
0
0
0
KZK 1997
COMINCO LTD
Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 38
Loop: 26 Line: 9500E
DS:
Ch1 reduced. Ch1 normalized. Totals:P-1750M, /L-1775M. Line Azim.: 0 . Rx Label: 95 Point Normalized.

D.S.: 6 - 21a

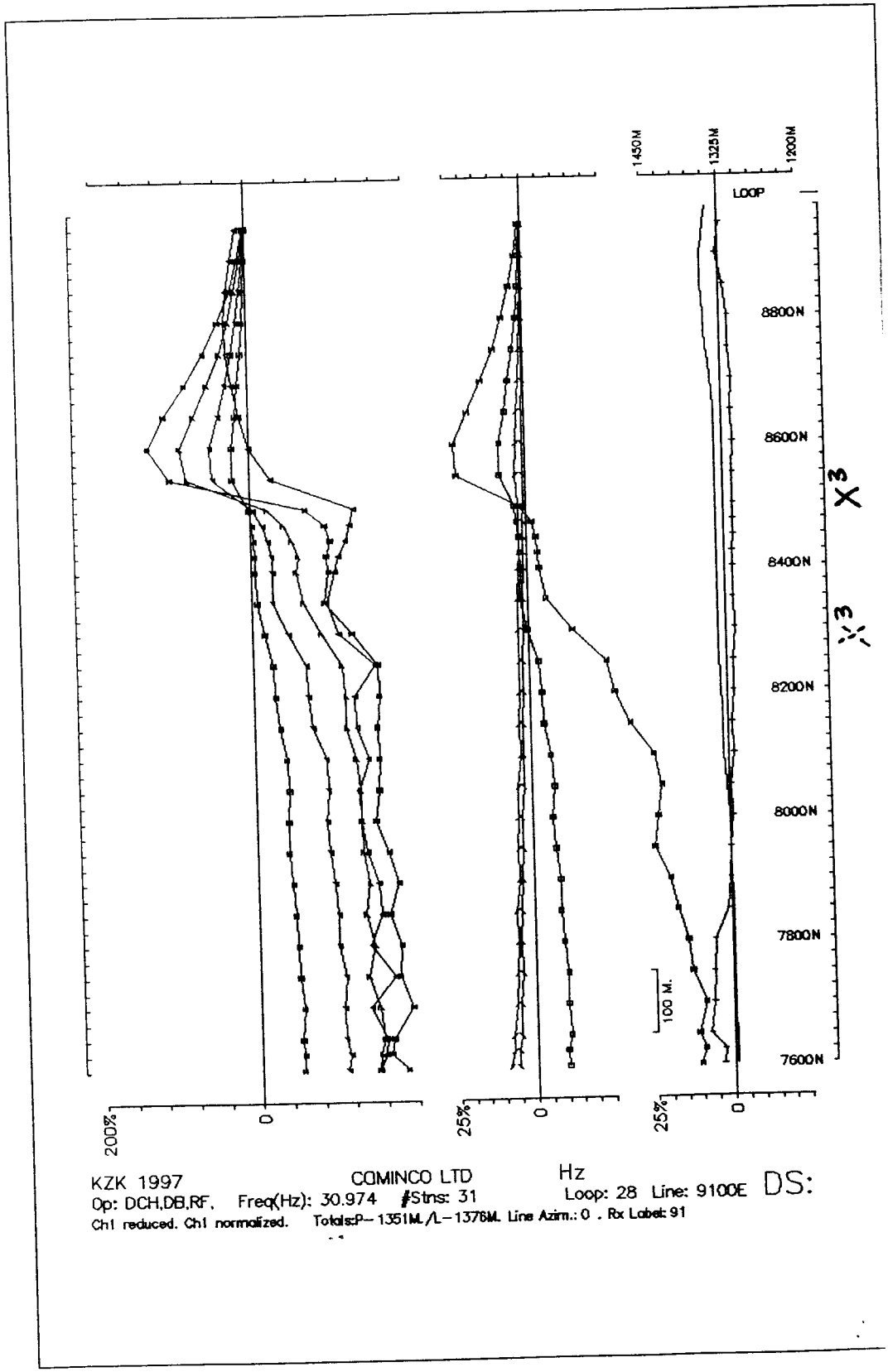


KZK 1997 COMINCO LTD Hz

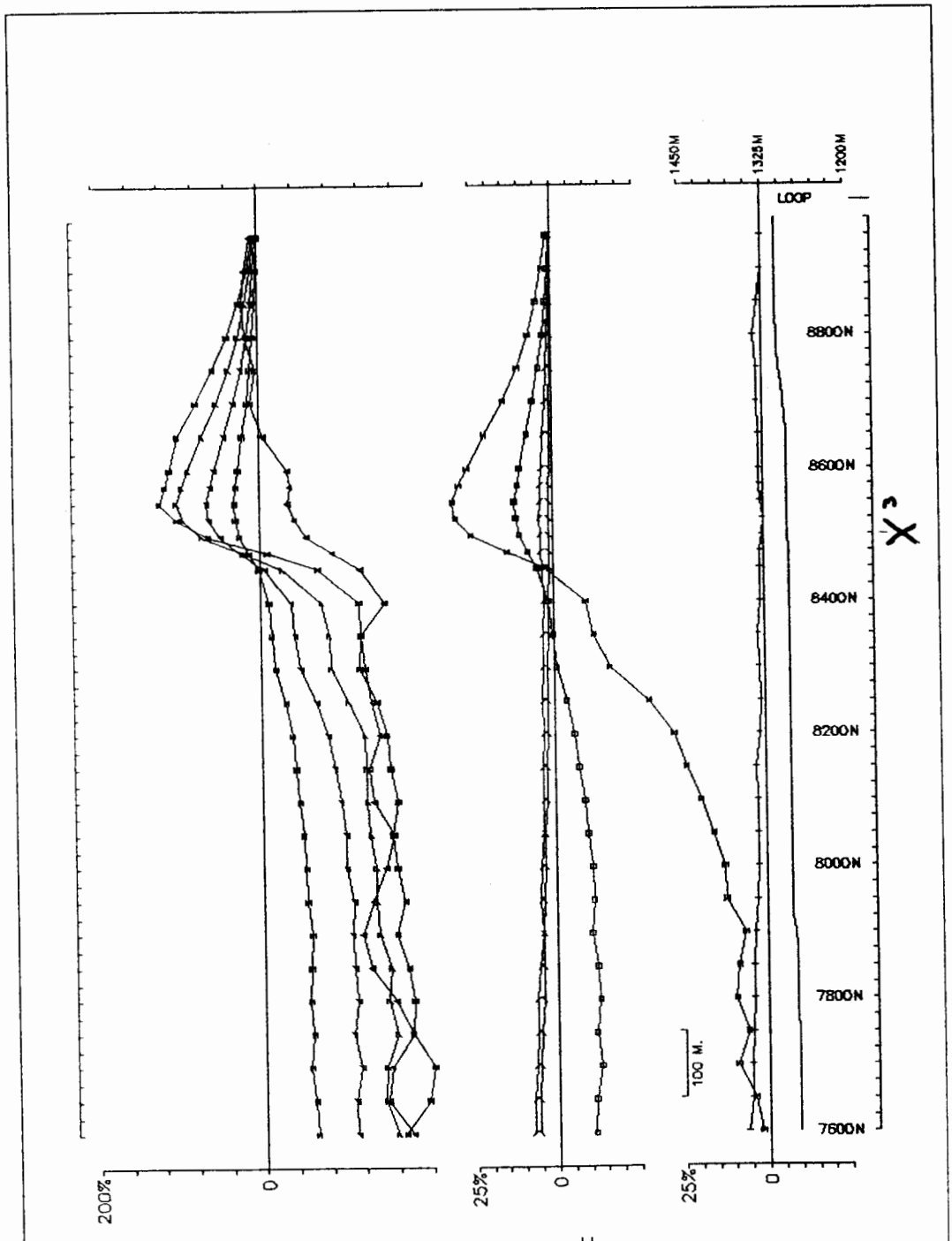
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 31 Loop: 28 Line: 9100E DS:

Ch1 reduced. Ch1 normalized. Totals:P-1351M./L-1376M. Line Azim.: 0 . Rx Label: 91 Point Normalized.

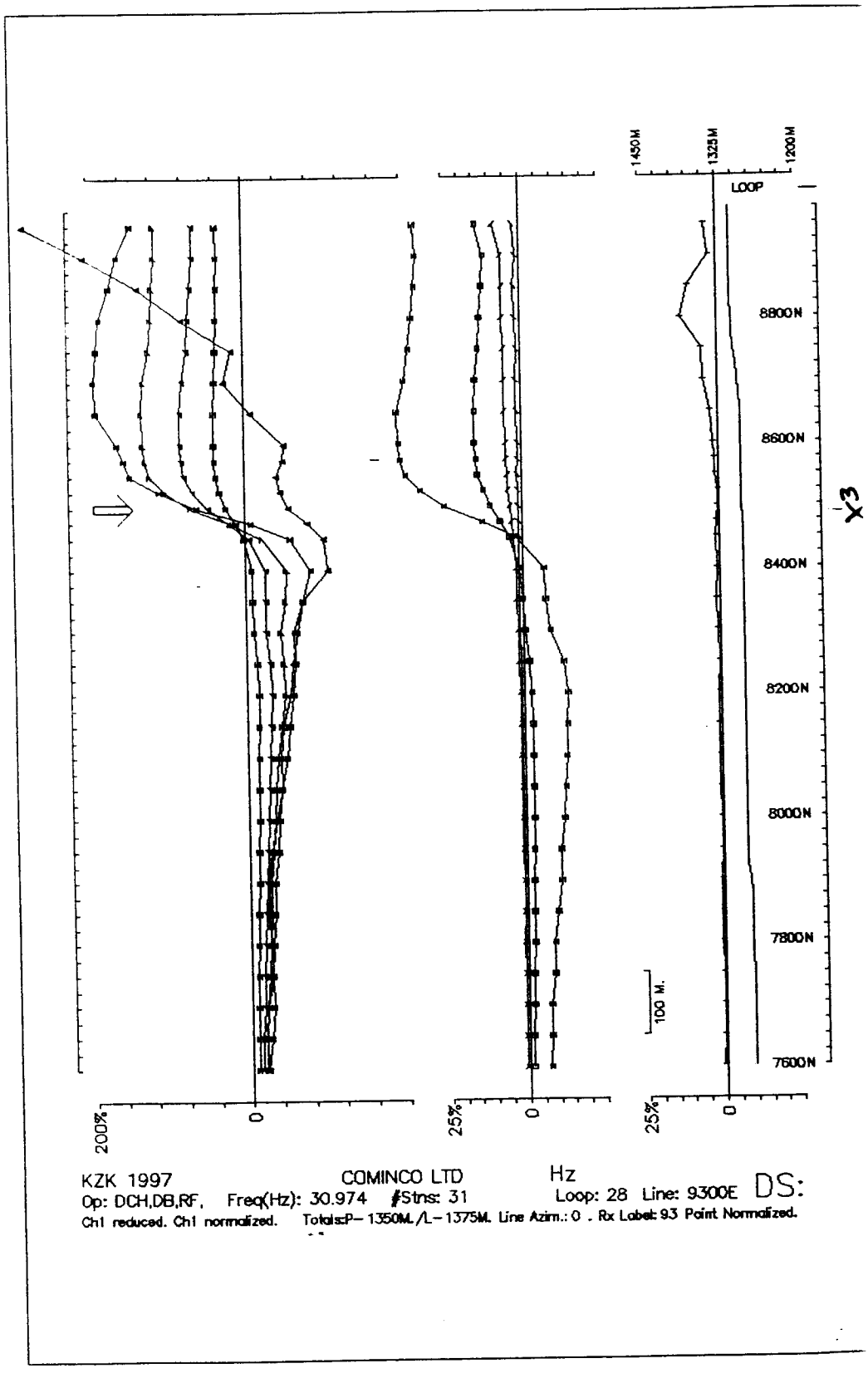
D.S.: 6 – 21b

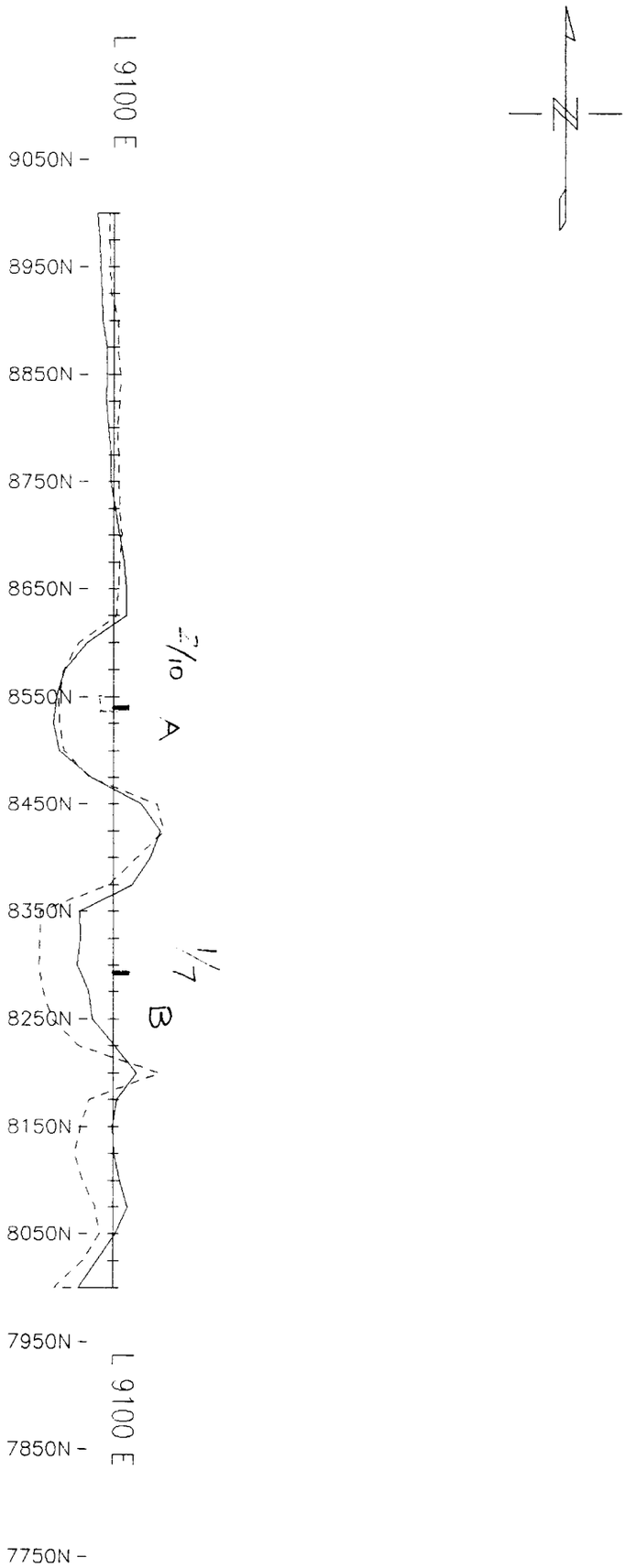

1450M
1325M
1200M
LOOP
8800N
8600N
8400N
8200N
8000N
7800N
7600N
X3
X3
100 M.
200%
0
25%
0
25%
0
KZK 1997
COMINCO LTD
Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 31
Loop: 28 Line: 9100E
DS:
Ch1 reduced. Ch1 normalized. Totals:P-1351M./L-1376M. Line Azim.: 0 . Rx Label: 91

D.S.: 6 – 22a


1450M
1325M
1200M
LOOP
8800N
8600N
8400N
8200N
8000N
7800N
7600N
100 M.
200%
25%
25%
0
0
0
KZK 1997
COMINCO LTD
Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 31
Loop: 28 Line: 9300E
DS:
Chi reduced. Chi normalized. Totals:P-1350M./L-1375M. Line Azim.: 0 . Rx Label: 93

D.S.: 6 – 22b


1450M
1325M
1200M
LOOP
8800N
8600N
8400N
8200N
8000N
7800N
7600N
100 M.
X3
200%
0
25%
0
25%
0
KZK 1997
COMINCO LTD
Hz
Op: DCH,DB,RF, Freq(Hz): 30.974 #Stns: 31
Loop: 28 Line: 9300E
DS:
Ch1 reduced. Ch1 normalized. Totals:P-1350M./L-1375M. Line Azim.: 0 . Rx Label: 93 Point Normalized.



VERTICAL SCALE:
1cm = 20%

OUT OF PHASE ---------
IN PHASE———————

Scale 1:5000
100 0
(metres)

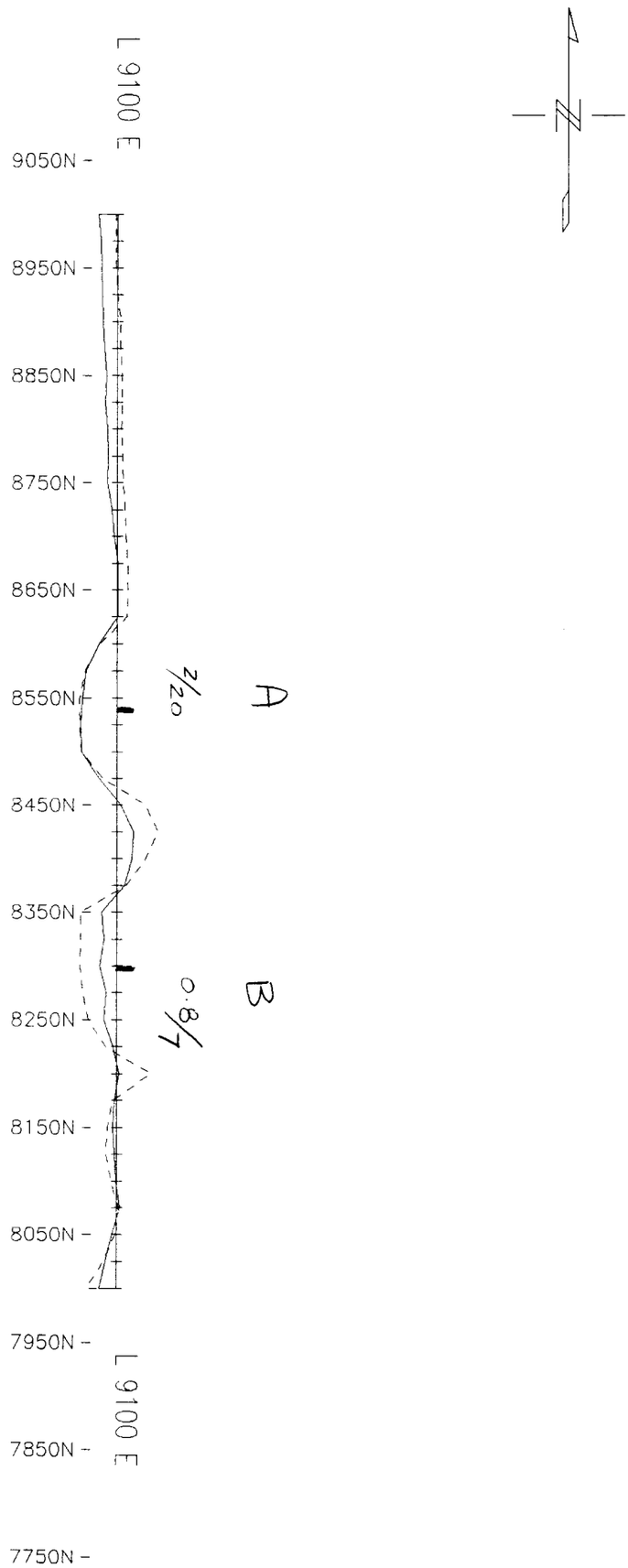
COMINCO EXPLORATION

NTS 105G

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

PELLY MOUNTAIN PROPERTIES
ON J. V. GRID-L9100E
HORIZONTAL LOOP EM SURVEY: 3520 HZ
150 metre coil spacing

Scale: as shown | Date: JULY 1997 | Plate: **6 – 23a**



VERTICAL SCALE:
1cm = 20%

OUT OF PHASE --------
IN PHASE ————————

Scale 1:5000
100 0
(metres)

COMINCO EXPLORATION

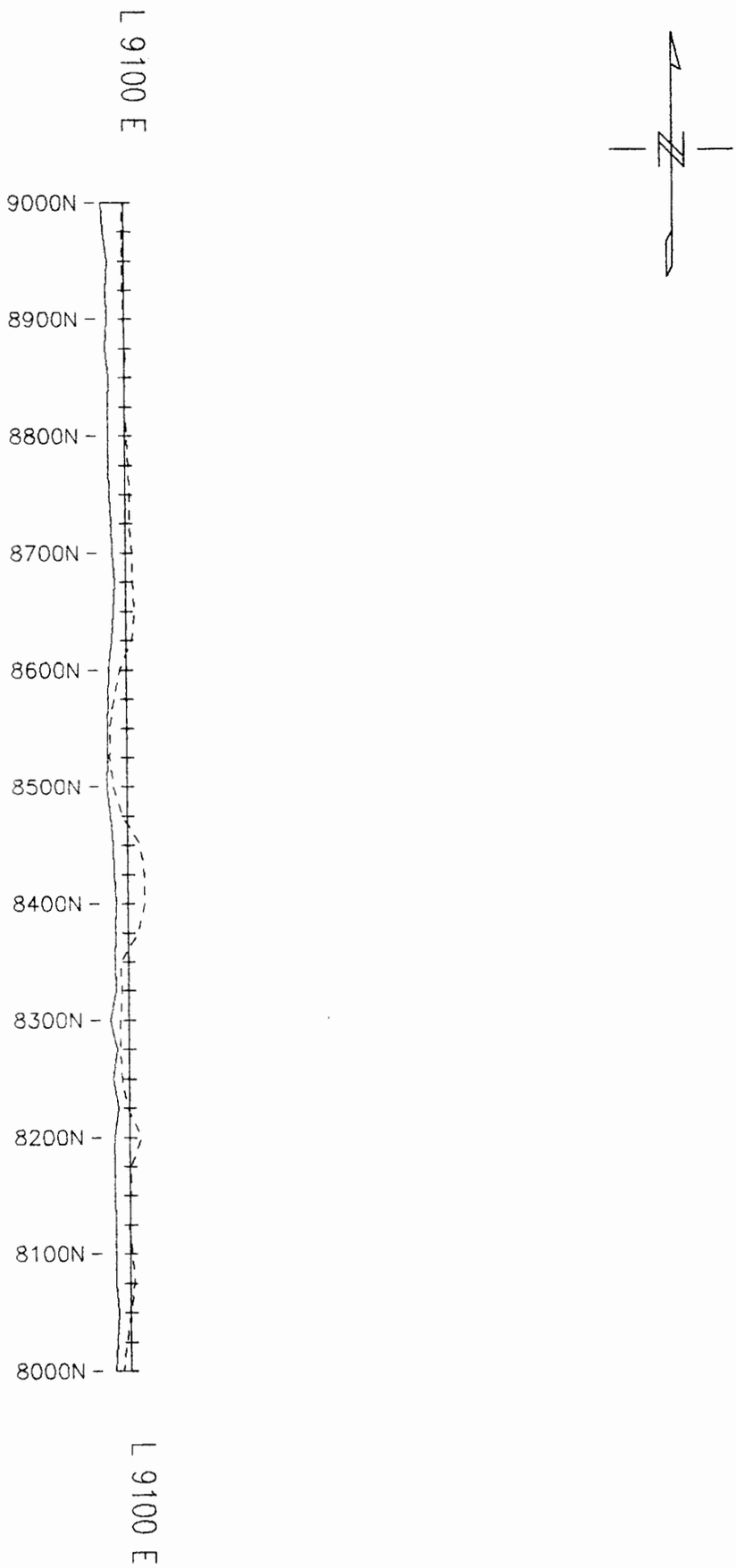
Cominco

NTS 105G

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

PELLY MOUNTAIN PROPERTIES
ON J. V. GRID-L9100E
HORIZONTAL LOOP EM SURVEY: 1760 HZ
150 metre coil spacing

Scale: as shown	Date: JULY 1997	Plate: **6 – 23b**



VERTICAL SCALE:
1cm = 20%

OUT OF PHASE ---------
IN PHASE ————————

Scale 1:5000
100 0
(metres)

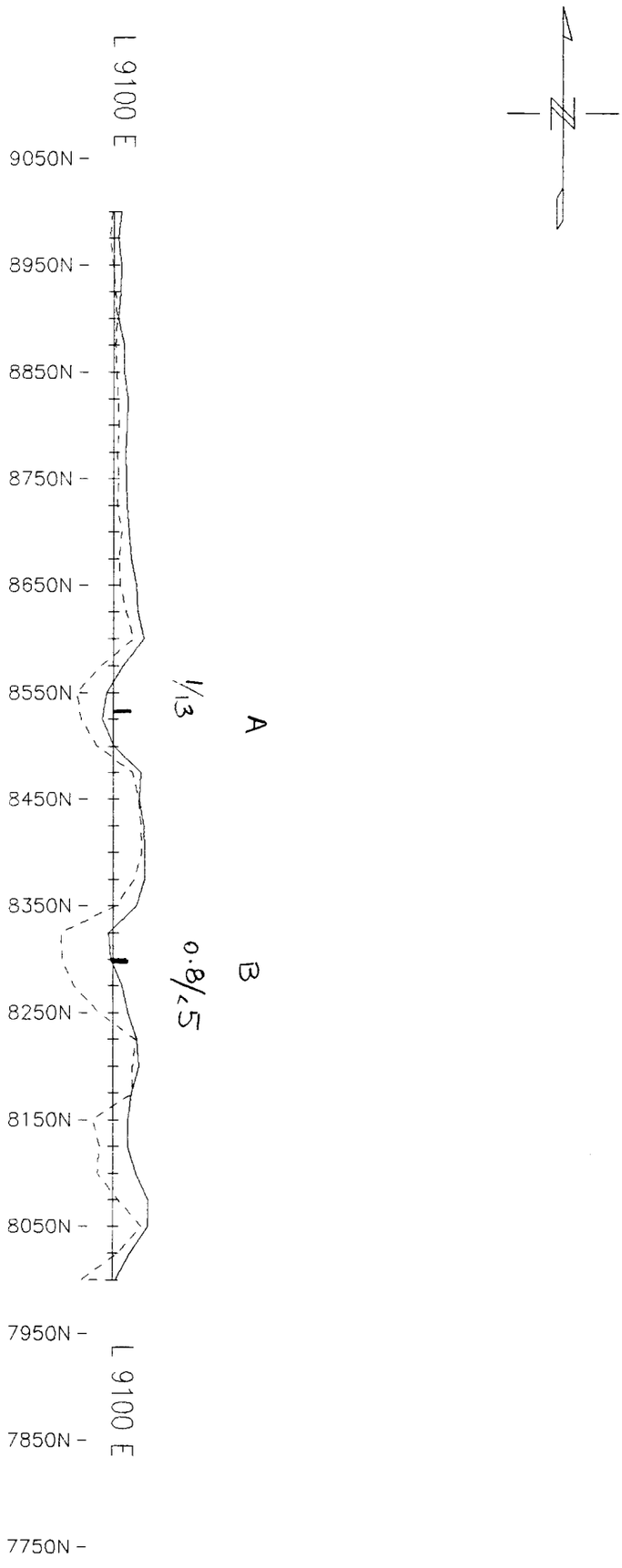
COMINCO EXPLORATION

NTS 105G

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

PELLY MOUNTAIN PROPERTIES
ON J. V. GRID–L9100E
HORIZONTAL LOOP EM SURVEY: 440 HZ
150 metre coil spacing

Scale: as shown | Date: JULY 1997 | Plate: **6 – 23c**



VERTICAL SCALE:
1cm = 20%

OUT OF PHASE ---------
IN PHASE ————————

Scale 1:5000
100 0
(metres)

COMINCO EXPLORATION

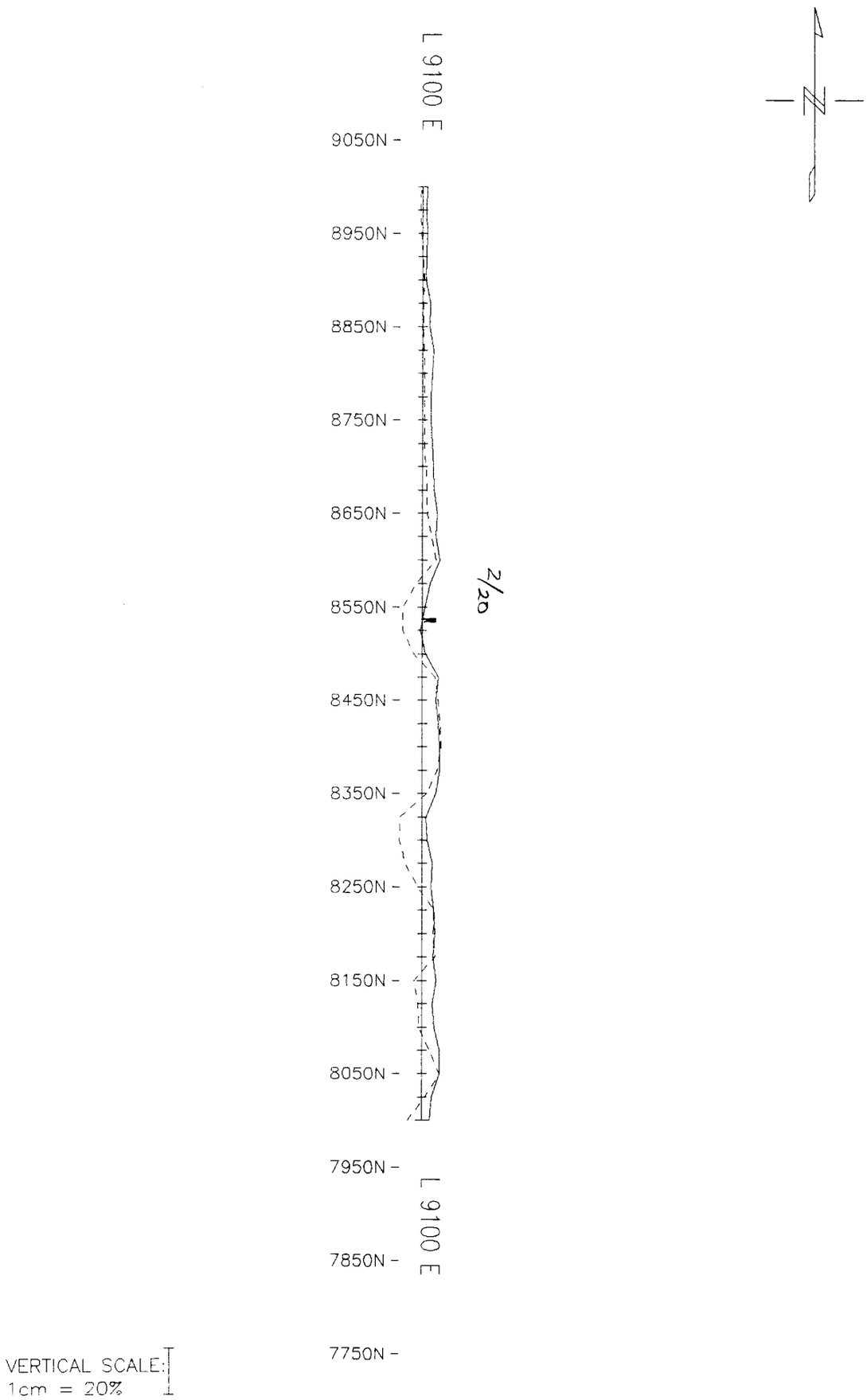
Cominco

NTS 105G

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

PELLY MOUNTAIN PROPERTIES
ON J. V. GRID-L9100E
HORIZONTAL LOOP EM SURVEY: 3520 HZ.
100 metre coil spacing

Scale: as shown	Date: JULY 1997	Plate: **6 – 24a**



VERTICAL SCALE:
1cm = 20%

OUT OF PHASE ---------
IN PHASE ————————

Scale 1:5000
100 0
(metres)

COMINCO EXPLORATION

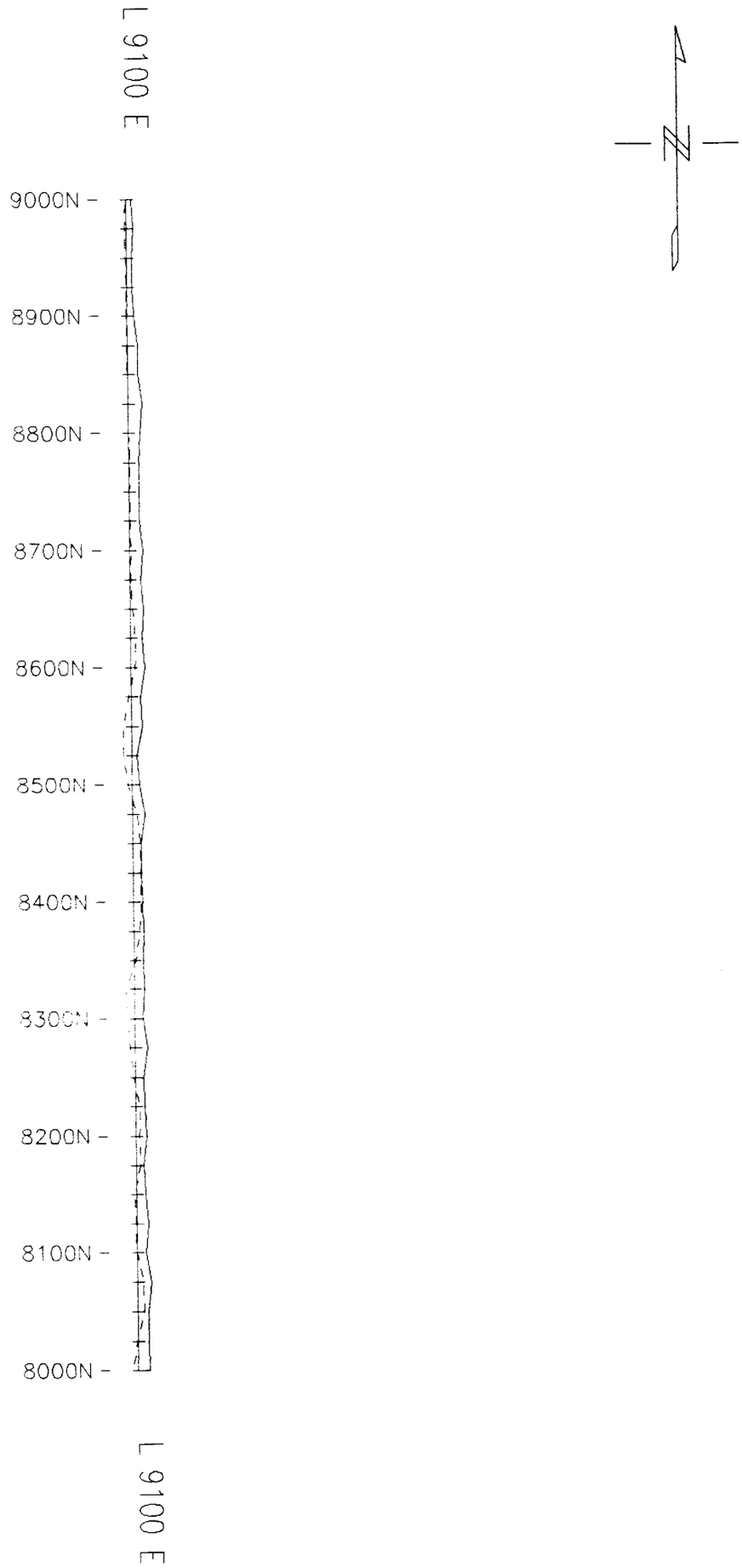
Cominco

NTS 105G

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

PELLY MOUNTAIN PROPERTIES
ON J. V. GRID-L9100E
HORIZONTAL LOOP EM SURVEY: 1760 HZ
100 metre coil spacing

Scale: as shown | Date: JULY 1997 | Plate: **6 – 24b**



VERTICAL SCALE:
1cm = 20%

OUT OF PHASE ---------
IN PHASE———————

Scale 1:5000
100 0
(metres)

COMINCO EXPLORATION

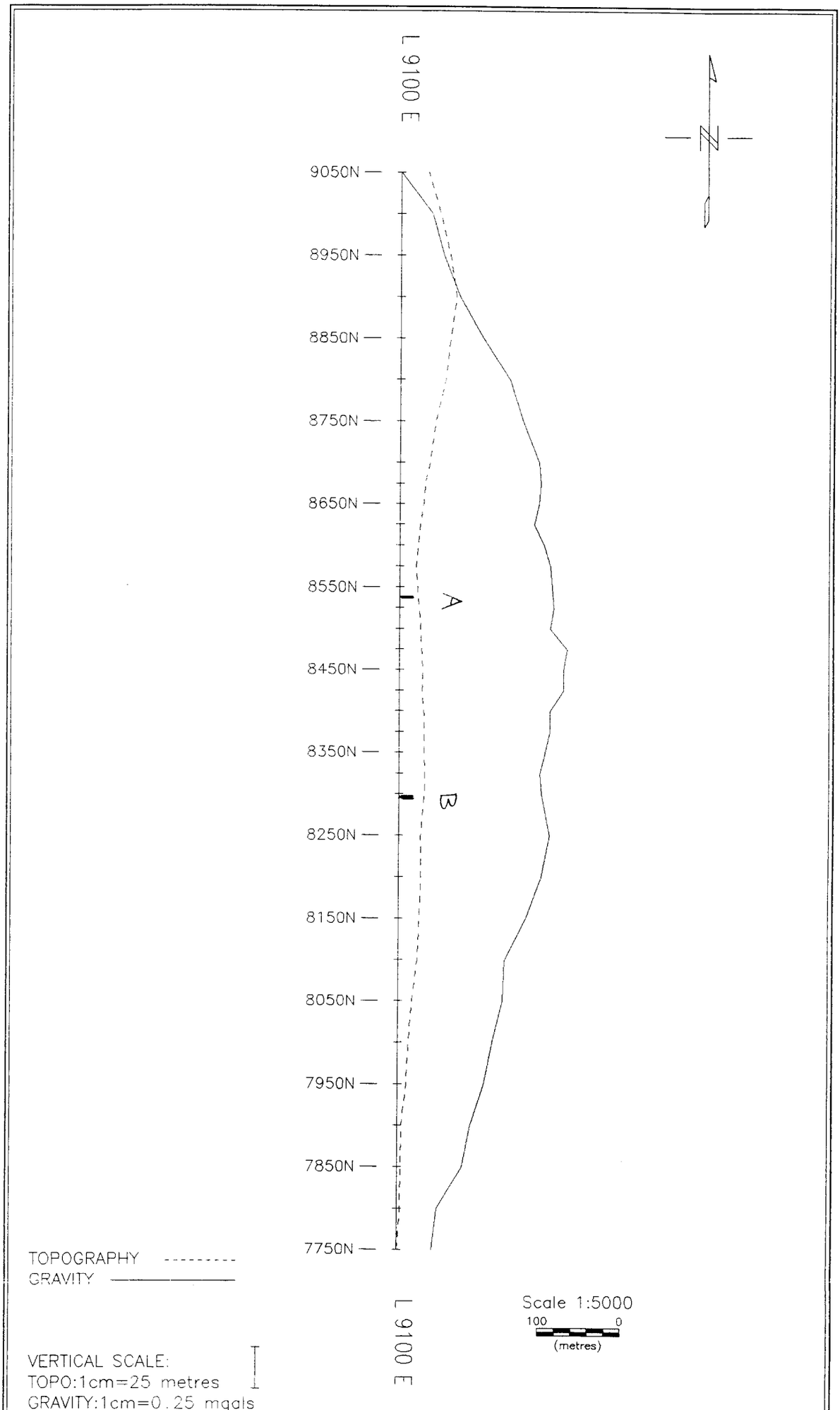
Cominco

NTS 105G

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

PELLY MOUNTAIN PROPERTIES
ON J: V. GRID–L9100E
HORIZONTAL LOOP EM SURVEY: 440 HZ
100 metre coil spacing

Scale: as shown | Date: JULY 1997 | Plate: **6 – 24c**



COMINCO EXPLORATION

Cominco

NTS

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

ON J. V. GRID
L9100E
BOUGUER GRAVITY SURVEY
(Density = 2.67 gm/cc)

Scale: as shown | Date: JULY 1997 | Plate: **6 – 25**

APPENDIX F

GEOPHYSICAL TECHNIQUES

GEOPHYSICAL EQUIPMENT AND PROCEDURES

UTEM SURVEY

A description of the equipment used in the program, field surveying and data processing procedures are given below.

"UTEM" is an acronym for "University of Toronto Electromagnetometer". The system was developed by Dr. Y. Lamontagne while he was a graduate student at the University of Toronto.

The field procedure consists of first laying out a large loop of single strand insulated wire and energizing it with current from a transmitter loop which is powered by a 2 kW motor generator. Survey lines were oriented perpendicular to one side of the loop and surveying performed outside the loop

The transmitter loop is energized with a precise triangular waveform at a carefully controlled frequency (30.974 Hz for this survey). The receiver system includes a sensor coil and backpack portable receiver which has an internal recording facility. The time synchronization between transmitter and receiver is achieved through quartz crystal clocks in both units, which must be accurate to within about one second in fifty years.

The receiver sensor typically measures the vertical component of the electromagnetic field and responds to its time derivative. Since the transmitter current waveform is triangular, the receiver coil will sense a perfect square wave in the absence of geological conductors. Deviations from the perfect square wave are caused by electrical conductors which may be geologic or cultural in origin. The receiver stacks any pre-set number of cycles in order to increase the signal to noise ratio.

The UTEM receivers were configured to gather and record 10 channels of information at each station. The higher number channels (7,8,9) correspond to short time or high frequency while the lower number channels (1,2,3) correspond to long time or low frequency. Therefore, poor or weak conductors will respond on channels 10,9,8,7, and 6, while better conductors will produce anomalous responses on progressively lower number channels. For example, massive, highly conducting sulphides or graphite will produce a response on all channels.

The digitally recorded data from the receiver's memory is dumped to a computer at the base camp, processed, and, after initial screen previewing, hard copy plots are produced. Data are presented on data sections as profiles of each of the nine channels, one section for each survey line, though in some cases several normalizing schemes may be utilized to further analyse the data,

resulting in two or more profile plots per line.

The results of the UTEM surveys are presented on the UTEM INTERPRETATION MAP at a scale of 1:10,000. As well, data sections of the Hz component are plotted for each line surveyed (at 1:10,000). The symbols utilized to describe the UTEM responses on the compilation map and data sections are listed in the map legend..

The magnetic field amplitudes from both the transmitter loop (primary field) and from those induced in the ground (secondary field) vary considerably with distance from the loop. To present such data, a normalizing scheme must be used. In this survey, the calculated primary field from the transmitter loop is used to normalize the data according to the following schemes:

1. Continuously normalized plots-

The standard normalization scheme is:

a) For channel 1:

$$\%\text{Ch.1 anomaly} = \frac{\text{Ch.1} - P}{P} \times 100\%$$

where P is the primary field from the loop at the station and Ch.1 is the observed amplitude for channel 1.

b) The remaining channels (n = 2 to 9) are channel 1 reduced and channel 1 normalized:

$$\%\text{Ch.n anomaly} = \frac{\text{Ch.n} - \text{Ch.1}}{\text{Ch.1}} \times 100\%$$

where Ch.n is the observed amplitude of channel n (n = 2 to 9).

2. Point normalized plots-

These plots display an arrow at the top of the section indicating the station to which all data on the line is normalized.

a) For channel 1:

$$\%\text{Ch.1 anomaly} = \frac{\text{Ch.1} - P_{pn}}{P_{pn}} \times 100\%$$

where P_{pn} is the primary field from the loop at the station of normalization, i.e., point normalized station, and Ch.1 is the observed amplitude for Channel 1.

b) The remaining channels (n = 2 to 9) are channel 1 reduced and channel 1 normalized:

$$\%Ch.n\ anomaly = \frac{Ch.1 - Ch.1_{pn}}{Ch.1_{pn}} \times 100\%$$

where Ch.n is the observed amplitude of Channel n and $Ch.1_{pn}$ is the observed channel 1 amplitude at the point normalized station.

MAGNETIC SURVEY

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

The total field magnetic data is presented in stacked profile form at a scale of 1:10,000. UTEM conductor locations are traced on the magnetic profile map.

GRAVITY SURVEY

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

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

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

The gravity data are also plotted in profile form, along with the topographic profile, at a horizontal scale of 1:5,000. 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 mgals, and topography at a scale of 1 cm = 25 m.

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY

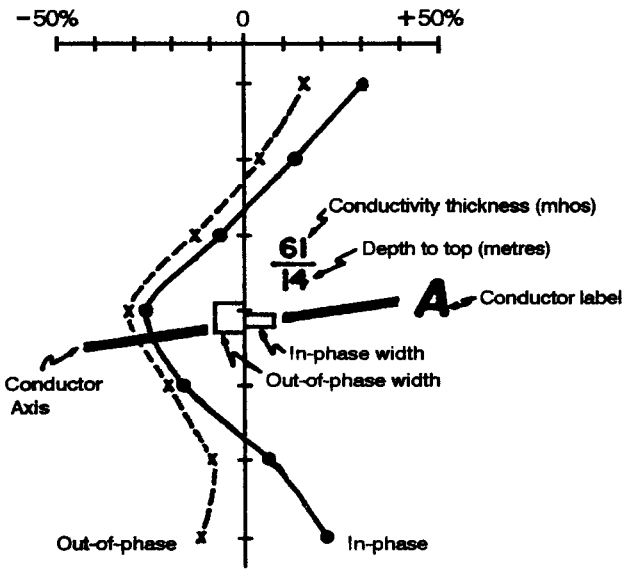
The HLEM system used was a Max-Min I-10 and a MMC data logger, manufactured by Apex Parametrics Ltd. The survey employed two different coil spacings (100 and 150 metres). Three frequencies: 440, 1760, and 3520 Hz, were read at a 25 metre station interval.

For data collection, the receiver (Rx) and transmitter (Tx) were simultaneously tilted in a coplanar orientation paralleling the topographic slope (horizontal loop mode). The Rx-Tx separation was kept constant by using the interconnecting reference cable as a chain.

The HLEM results are presented in profile form at 1:5000, one plot for each frequency. Data points are plotted half way between the Tx-Rx location. In-Phase (IP) data points are indicated by dots joined by a solid line; Out-of-Phase (OP) data is indicated by a dashed line. The conductor width, conductivity-thickness, and depth to top are discussed using the lowest frequency that adequately defines the conductor. An interpretation legend which describes these features is shown below.

A conductor will show a negative IP and/or OP trough of width (with respect to background values) equal to that of the conductor width plus the length of the coil separation. The IP and OP widths due to a conductive source are shown, respectively, above and below the zero line. The shallower a conductor is from the surface, the higher will be the amplitude of the IP and OP responses. Better conductors will respond on progressively lower frequencies whereas poor conductors are seen only on the higher frequencies. A higher IP/OP response amplitude ratio is also indicative of better conductance.

HLEM INTERPRETATION LEGEND



APPENDIX G

DIAMOND DRILL LOGS

Westmin Resources

DRILL LOG

PROJECT: Toe-On Westmin-Cominco Joint Venture	GROUND ELEV.: 1344m
HOLE NO.: WC-97-01	BEARING: 180°
LOCATION: Grid 9100E 8600N; UTM 427481 E 6816854 N	DIP: -60
	TOTAL LENGTH: 307.53
LOGGED BY: Dave Gale	HORIZONTAL PROJECT
DATE: Sept 14th	VERTICAL PROJECT
CONTRACTOR: Boisvenu Drilling Ltd.	
CORE SIZE: NQ	
DATE STARTED: Sept 16	
DATE COMPLETED: Sept 22	
DIP TESTS: 153m: 55.5 (etched angle on tube: 62.5); 305m: 50° (etched angle on tube: 58.5)	

ALTERATION SCALE

absent
slight
moderate
intense

TOTAL SULPHIDE SCALE

traces only
< 1%
1% – 3%
3% – 10%
> 10%

COMMENTS

Geological Description

- Entire hole consists mostly of siliceous material
- 3-137: Alternating units of aphyric cherty rhyolite and siliceous material
- 137-213: Alternating units of aphyric cherty rhyolite and siliceous argillite with tuffaceous rhyolite material forming both distinct bands and distinct units
- 213-236: Interbanded grey green aphyric rhyolite, siliceous argillite and tuffaceous andesite. Andesite consists of calcite xtls, altered from feldspars.
- 236-307: Rhyolite lapilli tuff, tuffaceous rhyolite, aphyric rhyolite and cherts.

Mineralization Description

Pyrite occurs throughout interval 0-215. Varies from trace to 2%.

Pyrr occurs beginning ~127m and continues until 215m. Typically only trace amounts but increases to 2% over some intervals

Sph occurs as a single 1cm wide band at 183.9

Alteration Description

No alteration observed

LEGEND

PAGE 1 OF 28 | PROJECT: | HOLE NO. WC-97-01

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION		ALTERATION A Chl	B Ser	C Ep	D Carb	E	FRACTURE INTENSITY	% VEIN QTZ.
0–3.05		DHCS		0-3.05 DHCS	Drill casing							
3.05–3.25		DHOB		3.05-3.25 DHOB	Overburden consisting of siliceous rock + argillite							
3.25–20.8		RHFS	80° (5 m); 65° (15 m)	3.25-20.8 RHFS	Grey [illegible] aphyric cherty-rhyolite - Interval composed entirely of siliceous material which is weak [illegible] moderately foliated. - A [illegible] orange-brown oxidation is observed over [illegible] weathering processes - [illegible] vugs or pit-like cavities ~ [illegible] are all empty - Very fine grained aphanitic siliceous rock (rhy? chert). - Breccia [illegible] work with fractures that both // and X-cut the [illegible]. - [illegible] with some of the foliation planes - Core angle 5m: 80°, 15m 65°							
20.8–24.7		ARCB		20.8-24.7 ARCB	Black fine grained carbonaceous argillite - Moderately foliated. - Orange-brown surficial oxidative weathering weakly developed. - Upper contact with RHFS is a sharp break. Appears to be conformable - Thin (0.2-0.4cm thick) siliceous bands occur throughout interval. Bands are parallel to foliation - Core angle: 24m: 70° - 2, 5cm wide qtz veins occur on lowermost 20cm of interval.							

Westmin Resources

PAGE 2 OF 28	PROJECT:	HOLE NO. WC-97-01

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS			
RHBS (3.25m): Trace fine grd. py aligned in fractures + in discontinuous bands // to foliation plane. Py is a silvery yellow colour.									

PAGE 3 OF 28 | PROJECT: | HOLE NO. WC-97-01

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A (Chl)	B (Ser)	C (Ep)	D (Carb)	E	FRACTURE INTENSITY	% VEIN QTZ
24	ARGB		70°								
25											
26				24.7 - 32.4 RHFS	Greyish-white aphyric cherty rhyolite						
27					- Same as above						
28					Mod. - Orange-brown weathering is present throughout interval						
29	RHFS				- Moderately developed foliation for this siliceous rock.						
30					- A fragmental texture is developed over portions of interval. Difficult to determine if fragments are original or are due to ductile/brittle deformation.						
31											
32											
33											
34				32.4 - 45.4 ARSI	Black siliceous argillite						
35			75°		- Subtle fragmental texture developed. Defined by slightly lighter colored (greyish black) fragments in a siliceous black argillite matrix.						
36					- Rock composed of ~ 80-90 siliceous argillite frags in a siliceous argillite matrix						
37					- 3% of interval consists of 2-5cm wide qtz veins. Qtz veins are both synthetic + barren (wrt. sx)						
38					- Qtz veins show tight to isoclinal folds. Folding also shown by the lighter colored siliceous fragments. A consistent symmetry is not observed						
39					- Carbonaceous argillite occurs within the foliation planes that are spaced 0.3cm-2cm apart						
40	ARSI				- Core angle 35m : 75°						
41					45m : 75°						
42											
43											
44											
45			75°								
46	RHB										

Westmin Resources

PAGE 4 OF 28	PROJECT:	HOLE NO. WC-97-01

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS				
24										
25 RHBS(24.7) T. fn. to med grd py aligned in the fractures + foliation plane.										
26										
27										
28										
29										
30										
31										
32 ARSI (32.4): 1-2% fn. grd. py forming bands + wisps // to fol. Also within fractures										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										
46										

 | PROJECT: | HOLE NO. WC-97-01

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A Chl	B Se	C Fp	D Carb	E	FRACTURE INTENSITY	% VEIN QTZ.
45.4- 56.6m RHFS		RHFS	70 (55 m)	Greyish-white Aphyric cherty-rhyolite - Same as above but no orange brown staining - Upper contact is gradational over 50 cm. - Small (0.5-2cm long) microfractures are ubiquitous through interval. - Aphyric siliceous rock with a fragmental-like texture developed over some sections Most likely due to deformation. - Rock has been extensively deformed (i.e. folded) but difficult to determine because of Absence of layering. - A yellow-brown soft (hardness ±2) mineral is infilling fractures within interval. Most likely a clay. - Core angle 55m: 70°							
56.6- 60.1 ARSI		ARSI		Greyish black siliceous argillite to fragmental siliceous Argillite - Same rock as above 32.4m - Upper contact with RHFS is gradational over 20-30cm.							
60.1- 68.8 RHFS		RHFS	70 (65 m)	Greyish-white Aphyric cherty-rhyolite - Same as Above - 67.3-67.9: Concentration of veins + fractures filled with pyrite + black argillaceous (?) material. - Core angle 65m: 70°							
68.8-		ARSI									

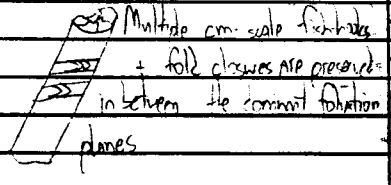
Depth scale: 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69

Westmin Resources

PAGE 6 OF 28	PROJECT:	HOLE NO. WG-97-01

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
47 RHFS(45.4): 2% fn. grd. pyr filling fractures and discontinuous wisps + bands // to foliation.						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57 ARST(56.6): 1% fn. grd. py.						
58						
59						
60 RHFS(60.1): 2% py disseminated throughout interval						
61 within fractures + along foliation plane. 67.3-67.9: 15% py in a concentrated stock work						
62 of veins + fractures.						
63						
64						
65						
66						
67						
68						
69						

PAGE 7 OF 28 | PROJECT: | HOLE NO: WC-97-01

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A (Chl)	ALTERATION B (Ser)	ALTERATION C (Ep)	ALTERATION D (Cb)	ALTERATION E	FRACTURE INTENSITY	% VEIN QTZ.
70	ARSI			68.8 - 127.0 ARSI Greyish black siliceous argillite - A pseudo fragmental texture is present throughout interval and is defined by grey black siliceous argillite fragments + bands, surrounded by a black carbonaceous (softer) argillite. - The siliceous arg comprises ~90-95% of interval. Portions show a well defined fragmental texture, while other sections show a pseudo-fragmental texture related to strong deformation. - 75.0-75.3 + 75.4-75.6: Fault breccia that has been recemented into coherent rock. Section is composed of 1-2cm dia fragments in a qtz, chlorite, clay matrix. Interval is a light beige colour compared to grey black argillite - QTZV 1-2% of interval consists of 1-3cm wide qtz veins (never wider than 20cm). Veins typically contain trace to rare purple, massive white qtz, ± a brown mica (phlogopite or sericite)							
71											
72											
73											
74											
75			75								
76											
77											
78											
79											
80				Structure Two fabrics are observed throughout core							
81				 Multiple cm-scale fractures + fold closures are preserved in between the dominant foliation planes							
82											
83											
84				 View of core looking due east. (Core is oriented using assumption that regional foliation is 290/30 + core angle + -60 due south). Folds are verging updip therefore it can be concluded that a synform lies to the north (up the whole) + antiform down hole.							
85			70								
86											
87											
88	ARSI			2 folds looking east. Folds are tight + 2-3cm in size.							
89				Core Angles 75: 75° 95: 70° 115: 75° 85: 70° 105: 75° 125: 75°							
90											
91											
92											

Westmin Resources

 PROJECT: HOLE NO. WC-97-01

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS			
70 ARSI (68.8). 2% py throughout. All fn. gr. golden brown forming veins + bands									
Also see discs + pods.									
71 Py also forms massive to semi-massive									
1-4 cm bands									
72									
73									
74									
75									
76									
77									
78									
79									
80									
81									
82									
83									
84									
85									
86									
87									
88									
89									
90									
91									
92									

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A (Chl)	ALTERATION B (Ser)	ALTERATION C (Ep)	ALTERATION D (Cpx)	ALTERATION E	FRACTURE INTENSITY	% VEIN QTZ.
93											
94											
95			70								
96	ARSJ										
97											
98											
99											
100											
101											
102											
103											
104											
105			75								
106											
107											
108											
109											
110	ARST										
111											
112											
113											
114											
115			75								

Westmin Resources

PAGE 10 OF 28	PROJECT:	HOLE NO. WC-97-0

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH						

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A	ALTERATION B	ALTERATION C	ALTERATION D	ALTERATION E	FRACTURE INTENSITY	% VEIN QTZ.
116					Cl	Ser	Ep	Gnb			
117											
118											
119											
120											
121	ARSI										
122											
123											
124											
125			75°								
126											
127				D7.0 - 137.3 ARSI/RHFS	Interlayered greyish-black siliceous argillite and greyish-white aphyric cherty rhyolite						
128					- Both rock types are identical to above lithologies. Variation occurs on the 10-50cm scale and all contacts are gradational over 10's of cm. (Arg: 60%; Rhy: 40%).						
129					- Core angle 135m 70°						
130					- Very minor qtz veining ~ 1-3cm wide						
131											
132	ARSI/RHFS										
133											
134											
135			70°								
136											
137											
138											

Westmin Resources

PAGE 12 OF 28	PROJECT:	HOLE NO: WC-97-01

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS				
~~116~~										
~~117~~										
~~118~~										
~~119~~										
~~120~~										
~~121~~										
~~122~~										
~~123~~										
~~124~~										
~~125~~										
~~126~~										
~~127~~ ARST/KFITS (270) 2% py throughout interval										
~~128~~ Py is all v. fn. grs. + golden brown										
~~129~~ in colour. The py typically occurs										
as wisps, bands or pods. Also occ.										
~~130~~ seen between the siliceous domains										
in association with the carbonaceous										
Argillite (Note: rarely seen within the										
~~131~~ siliceous parts that form the pseudo										
fragments + comprise ~90% of rock)										
~~132~~ Wisps are typically 0.1-0.2 cm wide +										
1-2cm long // to foliation										
~~133~~ Tr pyrr in same form as py										
~~134~~										
~~135~~										
~~136~~										
~~137~~										
~~138~~										

PAGE 13 OF 28 | PROJECT: | HOLE NO. WC-97-01

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A (Chl)	ALTERATION B (Ser)	ALTERATION C (Si)	ALTERATION D (Carb)	ALTERATION E	FRACTURE INTENSITY	% VEIN QTZ.
139	RHFS / RHTT			137.3 - 162.5 RHFS/RHTT Massive Aphyric cherty rhyolite and tuffaceous rhyolite - This is a highly variable unit consisting of massive silica zones + fragments in a tuffaceous to lapilli tuff matrix. The tuffaceous matrix is a mixture of chlorite + silica.							
140											
141				- This "mixed bag" is strongly folded, showing mm to cm fold closures between the typically spaced foliation.							
142											
143				- Interval consists of 60-70% massive silica (chert? rhyolite?) and the rest is tuffaceous material.							
144				- Biotite occurs in trace amounts on the foliation planes. Trace dark (greenish-black) chlorite occurs in 2-3cm bands. Chl occurs in 0.1-0.2 spots which are oval + form a weak banding							
145			80								
146				- Rare qtz veins are 1-5cm wide + flatten.							
147				- Core Angles: 145: 80° 155: 80°							
148											
149											
150											
151											
152											
153											
154											
155	RHFS/RHTT		80								
156											
157											
158											
159											
160											
161											

Westmin Resources

PAGE 14 OF 28	PROJECT:	HOLE NO. WX-97-01

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
139 PHFS/PHTT (137.3):						
2% py occurs throughout tuffaceous matrix						
140						
1% pyrr occurs throughout tuffaceous matrix.						
141						
142 → Both minerals form continuous (mm. + wisps // to foliation						
143						
144						
145						
146						
147						
148						
149						
150						
151						
152						
153						
154						
155						
156						
157						
158						
159						
160						
161						

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DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION A (Chl)	B (Ser)	C (Ep)	D (Carb)	E	FRACTURE INTENSITY	% VEIN QTZ.
162				162.5 - 177.6 Greyish black siliceous argillite							
163				ARSI - Same rock as above (68.8m)							
164				- Core angle 175m 70°							
165											
166											
167											
168											
169											
170											
171											
172											
173											
174											
175			70								
176											
177				177.6 - 181.4 Light grey tuffaceous rhyolite with bands of massive silica. RHTT							
178				- 70% of interval consists of fine grained tuffaceous rhyolite with sericite on the foliation planes.							
179				- 0.3-1cm siliceous bands are folded throughout tuffaceous matrix. Deformation has resulted in a fragmented texture shown by the sil. bands							
180				- Over 2, 10-30cm wide intervals there is a black mineral which is disseminated, forming 0.1cm dia. eyes. It is both chlorite + magnetite (difficult to determine if it is magnetic because of abundant pyrr.							
181				- QTVN: 179.5 - 179.7							
182											
183											
184											

ARSI

RHTT

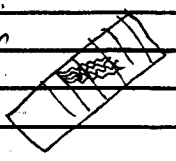
ARSI

Westmin Resources

PAGE 16 OF 28	PROJECT:	HOLE NO. WC-97-01

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS				
162										
163 ARSI (162.5) 12% fn. grd. golden-brown py forming bands + wisps // to foliation										
164 fr. pyrr occurring same as py.										
165										
166										
167										
168										
169										
170										
171										
172										
173										
174										
175										
176										
177										
178 RHYT (177.6): 2-3% pyrr diss. throughout interval. Very fine grained, bronze colour										
179 + forms wisps 0.3-2cm long										
Trace fn. grd. py.										
180										
181 ARSI (181.4): 1% fn. grd. py forming wisps										
182 0.5-1cm long + flattened in foliation										
1% pyrr occurring same as py										
183										
184 1839: Tr sph forming 1.0cm wide diss band.										
Sph is a dark red colour										

PAGE 17 OF 28 | PROJECT: | HOLE NO: WC-97-01

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A (Chl)	B (Ser)	C (Ep)	D (Grt)	E	FRACTURE INTENSITY	% VEIN QTZ.
185		RHLT	80	181.4 - 184.1	Black siliceous argillite							
				ARSI	- Same as above (68.8)							
186					- The same fragmented texture exists, defined by slightly greyer massive silica domains surrounded by carbonaceous argillite. Most likely due to deformation.							
187					- Weak chloritic alteration. Chl forms 0.1-0.2cm blebs throughout interval.							
188		ARSI										
189				184.1 - 187.4	Light grey rhyolite lapilli tuff							
190				RHLT	- massive siliceous bands + lapilli size fragments (0.3-1cm) in a tuffaceous matrix							
191		RHLT			- weak sericite developed on foliation planes + 2-5-10cm sericitically altered fissile zones.							
192					- Blebs of carbonate also occur throughout interval							
193					- Minor Bt occurs along foliation planes							
194		ARSI			- Interval - strongly folded. 0.5-1cm scale fold closures occur between foliation planes. Folds are defined by the siliceous bands + fragments							
195		RHLT	70		- Core angle 185m: 80°							
196				187.4 - 188.8	Black siliceous argillite							
		ARSI		ARSI	- Same as Above (68.8m)							
197												
198				188.8 - 193.7	Grey to black to light grey rhyolite lapilli tuff							
		RHLT		RHLT	- Same rock as Above (RHLT) but there is a greater argillaceous component							
199					- Very siliceous rock; lapilli frags ~0.5-1cm + strongly folded.							
200		ARSI			- Bt + Chl occur on the foliation planes. Chl is present in three amounts + occurs as blebs throughout core (~2-3% + 0.1-0.3cm dia blebs).							
201		RHLT			Very deformed rock between foliation planes							
202												
203		RHLT										
204				193.7 - 194.7	Black siliceous argillite							
				ARSI	- Same as Above (68.8)							
205			75									
206		RHYS (dyke?)										
207												

Westmin Resources

PAGE 18 OF 28	PROJECT:	HOLE NO. WC-97-01

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS
185						
186						
187						
189						
189 RHLT (188.8): 1-2% py fn grd + occurs as wisps (figure) // to foliation						
190 trace pyrr occurring same as py						
191						
192						
193						
194						
195						
196 ARSI (195.8): Trace fn grd py occurring as .05-1cm long wisps // to foliation						
197						
198 RHLT (197.8): 3% fn grd py.						
199						
200 ARSI (199.7): 3-4% fn grd py						
201						
202						
203						
204						
205 RHBS (204.9): T. fn grd py						
206						
207						

PROJECT:

HOLE NO. WC-97-01

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A Chl	B Ser	C Ep	D Carb	E	FRACTURE INTENSITY	% VEIN QTZ.
208		RHFS (chert?)		194.7-195.8 RHLT	Light grey rhyolite lapilli tuff							
					- Same as above (184.1m)							
209					- Weak sericite alteration heterogeneously developed ave 30-40%. Light coloured whitish green.							
210												
211				195.8-197.8 ARST	Black siliceous argillite							
					- Same as above (ARSI 68.8)							
212					- Tuffaceous to fragmented texture still present.							
					- Core angle 195m: 70°							
213				197.8-199.7 RHLT	Light grey rhyolite lapilli tuff							
214					- Same as above (184.1m)							
215		ARSI/RHFS	70°	199.7-200.5 ARST	Black siliceous argillite							
					- Same as above							
216				200.5-201.5 RHLT	Light grey rhyolite lapilli tuff							
217					Same as above							
218				201.5-204.9 RHTT	Light grey tuffaceous rhyolite with bands of massive silica.							
219					- Rock variable between tuffaceous rhyolite + thin lapilli tuff. Massive siliceous bands comprise ~ 15-20% of interval.							
220					- 3-5% Chl + 1-2% Bt growing on foliation planes							
221		ADTT			- Upper contact with RHLT is gradational over 10-30 cm							
222		RHFS/ADTT			- Trace 0.2-0.4 cm wide bands of carbonaceous argillite occur within interval							
223					- 60-70% interval composed of RHTT + remaining mostly RHLT.							
224					- Very siliceous rock							
225		ADTT		204.9-213.1 RHFS (chert?)	Massive siliceous rock (cherty rhyolite) with bands of tuffaceous to lapilli tuff material							
226					- Entire interval is very siliceous 60-70% composed of massive aphyric silica that grades into 30% tuffaceous material + 10 RHLT							
227		RHFS			- The tuffaceous portions have a weakly green colouration due to chl content. Not a pervasive chl alteration							
228			70									
229		RHFS			- Bt showing 3-5% and occurs in bands or disseminated concentrations							
230					- QTVN: 212.5-212.6							
					- Core angle: 75° at 205							

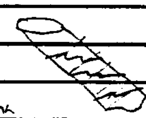
Westmin Resources

PAGE 20 OF 28	PROJECT:	HOLE NO. WC-97-01

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH						

PROJECT:

HOLE NO. WC-97-01

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	INTERVAL	GEOLOGICAL DESCRIPTION	ALTERATION A Chl	B Ser	C Fe	D Carb	E	FRACTURE INTENSITY	% VEIN QTZ.
				213.1 - 220.9 ARSI/RHFS	Alternating bands of siliceous Argillite + rhyolite							
					- Very distinctive rock because of banded dark green + grey + black							
					- 60-70% of interval consists of 0.5-2cm wide bands of interlayered black siliceous argillite + massive greenish-grey silica.							
					- Remainder of interval consists of characteristic rhyolite lapilli tuff with Argillite bands							
					- Well developed folds							
					view looking due east. 							
					[illegible] is still vague [illegible] dip [illegible] folds on [illegible] 2 cm scale							
					- Highly variable core Angle due to folding [illegible] 15m [illegible] 70°							
					- [illegible]: 215.[illegible] - 21[illegible]; 216.6 - 217.2							
				220.9 - 222.2 ADTT	Dark green fine grained andesitic tuff with crystals of calcite							
					- Interval consists of chlorite schist. Weak carbonate [illegible] matrix. Fine grained [illegible] surrounds cal. xtls							
					- [illegible] anhedral to euhedral crystals of calcite occurs homogeneously throughout. Most likely represent replacements of original feldspars.							
					- Calcite [illegible] strongly + matrix only weakly.							
					- The calcite [illegible] comprise ~ 15-20% of interval.							
					- Upper contact with siliceous rocks is broken core Appears to be a sharp contact.							
					-							
				222.2 - 223.1 ARSI/RHFS	Alternating bands of black to grey silica + green tuffaceous chloritic material (andesite tuff?)							
					- Same rock as above (212.1) but there is chloritic tuff forming ~30% of bands							
					- Chaotic folding throughout interval							
				223.1 - 227.0 ADTT	Dark green fine grained andesitic tuff with crystals of calcite							
					- Same rock as above (220.9)							
					- Core is very broken and forms 1-3 cm dia angular blocks. No fault gouge developed but broken core compared to rest of hole suggest a fault zone.							

Westmin Resources

PAGE 22 OF 28	PROJECT:	HOLE NO. WC-97-01

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH						

PROJECT:

HOLE NO. WC97-01

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A Chl	B Se	C Ep	D Carb	E	FRACTURE INTENSITY	% VEIN QTZ.
254				227.0-227.60 RHFS	Medium grey massive siliceous rock							
					- aphanitic + poorly foliated							
255					- Core is badly broken. Fault?							
256				227.60-228.0 STGG	A greenish grey chloritic fault gouge							
257				228.0-231.8 RHFS	Grey to greyish black aphyric siliceous rock							
258	RHFS				- Chert? Rhyolite.							
					- Rock is banded on 1-2 cm scale and texture defined by alternating black + grey silica layers							
259					- 10-15% tuffaceous layers within the massive silica.							
260					- Rock varies from grey to grey black depending on argillaceous component in the rock							
261					- Core angle: 228m: 70°							
262				231.8-232.9 STGG	Fault gouge in massive siliceous rock							
					- No graphite							
263				232.9-236.2 ADTT	Dark green fine grained andesitic tuff with crystals of calcite							
264					- Same as above (220.9)							
265					- Only difference is that crystals are up to 1cm in. Comprise 5-20% of rock							
266					- 1-2 mm 0.5 cm thick calcite veins dissect rock							
267					- Upper contact with RHFS is faulted.							
268					- Lower contact with RHLT is gradational. Banded siliceous rock with fragments appears to grade into ADTT over 10 cm.							
269					- Core angle 235m: No obvious layering or measurable foliation developed							
270	EXSP - chert											
271				236.2-245.2 RHLT	Greenish grey to blackish grey rhyolite lapilli tuff with massive rhyolite (?) + tuffaceous rhyolite bands.							
272					- Very siliceous rock							
273					- Lapilli size (0.2-1cm) fragments in a siliceous matrix. Fragments comprise 55-65% of interval.							
274					- Also see massive siliceous bands contorted + distorted in folding							
275			70		- Rock varies in colour depending on St and siliceous argillite content. Both sericite + St developed on foliation plane.							
276					- Lowermost 70 cm consists of white siliceous fragments in a black, biotitic + argillaceous matrix							
277	RHLT				- Core angle 237m: 70° 245m 65°							

Westmin Resources

PAGE 24 OF 28	PROJECT:	HOLE NO. WC97-01

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH						

 PROJECT: HOLE NO. WC-97-01

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION		ALTERATION A (Chl)	B (Ser)	C (Ep)	D (Carb)	E	FRACTURE INTENSITY	% VEIN QTZ.
278		RHLT		245.2-249.9 RHTT	Brownish-grey very fine grained rhyolite tuff							
					- 30% light grey siliceous bands 0.2-0.3cm wide + spaced 0.4cm apart. Brownish grey tuffaceous siliceous material [illegible] throughout interval.							
279-280					- 70% brown-grey fine grained tuffaceous rhyolite							
					- 2-5% siliceous lapilli size (0.5-1cm) fragments							
281					- Entire interval [illegible] folded							
					- Bt developed throughout interval							
282-283				249.9-251.7 ARSI	Black chert / siliceous Argillite							
					- [illegible] simply of massive black silica!							
284					- [illegible] fragmented texture that exists in ARSI [illegible]							
285			65		- Lower contact [illegible] gradational into the massive [illegible] rock Consists of a PHLT over 30cm							
286					[illegible] → PHLT → RHFS.							
287				251.7-266.4 RHFS/Chert	Massive weakly foliated, well banded light grey [illegible]							
288					- [illegible]. Variation occurs in colour [illegible] varying shades of grey with trace reddish [illegible]							
289-290					- [illegible] appears [illegible] compared with higher in the hole where massive silica looked volcanic.							
291					- Complex folding throughout interval but not well defined because of homogeneous grey silica.							
					- Weakly developed foliation defined by chlorite + biotite							
292					- Core angle Everything is chaotically folded							
293-294		ARSI		266.4-276.6 EXSP	Banded black + grey chert							
					- Chaotically folded bands of black siliceous Argillite and light grey chert (massive silica)							
295					- Banding is totally variable. Argillite forms 0.4-5cm bands 50-50 Arg + grey chert							
296					- Portion of massive chert look tuffaceous and could be reworked siliceous sediments							
297					- Core angle 275m: 70°							
298				276.6-292.7 RHLT	Grey to brownish black rhyolite lapilli tuff.							
299					- Extensive colour variation within interval but consistent 1-2cm siliceous fragments in a fine grained matrix							
300					- Matrix changes from grey to dark brownish-black depending on siliceous to biotite content (respectively)							
					- Fragments could have been continuous bands that							

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PAGE 26 OF 28	PROJECT:	HOLE NO. WL-97-01

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH						

PAGE 27 OF 28 | PROJECT: | HOLE NO. WC-970

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE		GEOLOGICAL DESCRIPTION	ALTERATION A (Chl)	B (Ser)	C (Ep)	D (Carb)	E	FRACTURE INTENSITY	% VEIN QTZ.
					could have been boudinaged in the intense deformation							
					- Foliation is sub-parallel and a strong foliation is evident							
					- Biotite seriate defining foliation planes							
					- Core angle: 285° - 65°							
					- QTVN: 286.8 - 287.0							
				292.7 - 296.9	Black siliceous argillite with interlayered siliceous-biotite							
				ARST	rich units							
					- 60-65% dark argillite interlayered with 25cm							
					wide siliceous rich bands							
					- Chaotic folding throughout interval							
				296.9 - 307.53	Grey to greenish black rhyolite lapilli tuff							
				RHLT	- Same rock as above							
					- Biotite ~10-15% of rock							
					- A light green colour is present within a tuffaceous portions of interval Due to chlorite growth.							
					- Intense folding throughout.							
					- QTVN: 306.6 - 306.9							

APPENDIX H

ASSAY CERTIFICATES

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9737037

Comments: ATTN:DAVID TERRY-VANCOUVER OFFICE

CERTIFICATE A9737037

(GP) - WESTMIN RESOURCES LTD.

Project: 6407
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 20-AUG-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	202	Dry, sieve to -80 mesh
202	202	save reject
285	202	ICP - HF digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	202	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	202	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	202	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	202	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	202	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	202	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	202	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	202	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	202	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	202	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	202	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	202	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	202	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	202	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	202	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	202	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	202	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	202	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	202	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	202	Pb ppm: 24 element, rock & core	AAS	2	10000
582	202	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	202	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	202	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	202	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	202	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6407
Comments: ATTN:DAVID TERRY-VANCOUVER OFFICE

Page Number :1-A
Total Pages :6
Certificate Date: 20-AUG-97
Invoice No. :I9737037
P.O. Number :
Account :GP

CERTIFICATE OF ANALYSIS A9737037

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
9400E 5900N	201	202	< 5	< 0.2	5.56	770	2.5	< 2	1.45	< 0.5	11	69	40	2.70	2.21	0.99
9400E 5925N	201	202	< 5	< 0.2	6.15	790	3.0	6	1.03	< 0.5	8	75	17	2.91	2.29	1.01
9400E 5950N	201	202	< 5	< 0.2	5.57	760	3.0	< 2	1.51	< 0.5	7	72	23	2.66	2.08	0.95
9400E 5975N	201	202	< 5	< 0.2	6.45	860	3.5	< 2	1.19	< 0.5	7	69	31	3.27	2.70	1.28
9400E 6000N	201	202	< 5	< 0.2	5.78	580	2.5	< 2	1.27	< 0.5	13	37	37	3.47	1.91	0.96
9400E 6025N	201	202	< 5	< 0.2	5.62	730	3.0	< 2	1.04	< 0.5	5	68	10	2.38	2.09	0.75
9400E 6050N	201	202	< 5	< 0.2	5.33	760	2.5	< 2	1.03	< 0.5	2	56	16	1.47	2.17	0.53
9400E 6075N	201	202	< 5	< 0.2	5.24	700	2.0	< 2	1.87	< 0.5	6	51	54	2.54	1.88	1.02
9400E 6100N	201	202	< 5	< 0.2	6.75	860	2.5	< 2	1.20	< 0.5	9	50	39	3.08	2.48	1.34
9400E 6125N	201	202	< 5	< 0.2	5.43	760	2.5	< 2	1.81	1.5	8	53	82	2.86	1.85	1.25
9400E 6150N	201	202	< 5	< 0.2	9.17	1900	4.0	4	0.97	3.0	11	59	91	4.90	2.66	3.05
9400E 6175N	201	202	< 5	< 0.2	7.23	1140	2.5	< 2	1.33	< 0.5	6	63	45	2.57	2.27	0.94
9400E 6200N	201	202	< 5	< 0.2	8.90	2440	3.5	< 2	0.77	< 0.5	1	109	166	4.73	3.24	2.14
9400E 6225N	201	202	< 5	< 0.2	8.67	1380	3.0	< 2	1.46	< 0.5	9	42	26	3.30	2.54	1.57
9400E 6250N	201	202	< 5	< 0.2	7.97	1240	2.5	2	1.11	< 0.5	8	63	22	3.87	2.06	1.76
9400E 6275N	201	202	< 5	< 0.2	5.92	910	2.5	8	0.79	< 0.5	2	67	9	3.24	2.01	1.09
9400E 6300N	201	202	< 5	< 0.2	6.79	1000	2.5	6	1.37	< 0.5	6	76	7	3.18	1.80	1.33
9400E 6325N	201	202	< 5	< 0.2	7.27	780	3.0	< 2	1.90	< 0.5	8	73	8	3.84	1.30	1.75
9400E 6350N	201	202	< 5	< 0.2	7.52	520	2.0	< 2	3.07	1.0	16	73	5	4.82	0.63	2.39
9400E 6375N	201	202	< 5	< 0.2	7.45	910	3.0	10	1.85	< 0.5	13	75	6	2.97	1.71	1.39
9400E 6400N	201	202	< 5	< 0.2	6.27	900	2.5	10	1.10	< 0.5	2	64	6	2.29	1.81	0.84
9400E 6425N	201	202	< 5	< 0.2	7.99	1320	3.0	< 2	0.90	< 0.5	6	81	9	3.95	2.52	1.59
9400E 6450N	201	202	< 5	< 0.2	6.10	940	2.5	< 2	0.95	< 0.5	6	68	6	2.53	2.06	0.91
9400E 6475N	201	202	< 5	< 0.2	7.92	780	3.5	< 2	2.02	< 0.5	6	58	6	2.48	1.60	1.37
9400E 6500N	201	202	< 5	< 0.2	8.44	1350	4.5	6	2.70	< 0.5	14	110	50	5.59	1.34	3.67
9400E 6525N	201	202	< 5	< 0.2	5.40	780	1.0	6	2.44	< 0.5	5	6	22	1.16	1.59	0.41
9400E 6550N	201	202	< 5	< 0.2	7.53	1060	3.0	2	1.11	< 0.5	5	65	9	3.26	2.52	1.18
9400E 6575N	201	202	< 5	< 0.2	7.82	1490	3.0	< 2	1.36	< 0.5	13	80	30	4.22	2.65	2.22
9400E 6600N	201	202	< 5	< 0.2	7.28	1110	2.5	2	2.35	0.5	17	84	51	4.83	1.65	2.68
9400E 6650N	201	202	< 5	< 0.2	6.90	1000	3.5	2	1.31	< 0.5	12	69	38	3.53	2.62	1.52
9400E 6675N	201	202	< 5	< 0.2	6.69	1260	3.5	2	1.37	< 0.5	4	48	27	2.75	1.78	1.02
9400E 6700N	201	202	< 5	< 0.2	6.83	930	3.0	< 2	1.47	< 0.5	8	76	11	3.17	2.27	1.15
9400E 7700N	201	202	< 5	< 0.2	6.23	1030	2.0	2	0.95	< 0.5	< 1	85	5	0.98	1.53	0.69
9400E 7725N	201	202	< 5	0.8	5.22	1180	2.5	4	2.25	6.0	12	95	249	2.28	1.45	1.38
9400E 7750N	201	202	< 5	< 0.2	5.67	750	1.0	< 2	1.33	2.0	1	11	51	1.17	1.66	0.39
9400E 7775N	201	202	< 5	< 0.2	4.29	710	0.5	< 2	2.54	4.0	5	11	166	1.01	1.06	0.34
9400E 7800N	201	202	< 5	< 0.2	3.78	760	1.0	< 2	3.13	2.5	4	19	210	1.07	0.99	0.50
9400E 7825N	201	202	< 5	< 0.2	4.57	1330	2.0	2	2.36	1.5	5	66	176	1.73	1.11	1.65
9400E 7850N	201	202	< 5	< 0.2	5.04	1060	1.5	2	0.78	< 0.5	3	72	36	1.47	1.45	0.57
9400E 7875N	201	202	< 5	< 0.2	5.43	1860	2.0	6	0.64	< 0.5	< 1	109	43	1.03	1.77	0.39

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6407
Comments: ATTN:DAVID TERRY-VANCOUVER OFFICE

Page Number :1-B
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Certificate Date: 20-AUG-97
Invoice No. :I9737037
P.O. Number :
Account :GP

CERTIFICATE OF ANALYSIS A9737037

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
9400E 5900N	201	202	585	< 1	1.41	22	720	24	146	0.37	73	10	74			
9400E 5925N	201	202	505	1	1.77	22	490	22	129	0.36	74	10	72			
9400E 5950N	201	202	425	< 1	1.66	19	1010	20	139	0.34	63	10	106			
9400E 5975N	201	202	520	< 1	1.63	24	1070	28	146	0.40	76	10	122			
9400E 6000N	201	202	880	1	1.17	26	1240	30	221	0.25	60	10	124			
9400E 6025N	201	202	405	< 1	1.81	15	280	26	127	0.37	64	20	60			
9400E 6050N	201	202	280	< 1	1.86	10	250	24	129	0.34	51	10	38			
9400E 6075N	201	202	775	< 1	1.36	24	1150	14	154	0.26	64	10	102			
9400E 6100N	201	202	415	< 1	1.76	25	730	18	134	0.34	111	10	112			
9400E 6125N	201	202	500	< 1	1.31	33	1270	20	114	0.28	80	< 10	244			
9400E 6150N	201	202	925	7	1.33	38	1450	402	100	0.29	105	< 10	1965			
9400E 6175N	201	202	395	6	2.04	15	440	100	281	0.29	81	< 10	432			
9400E 6200N	201	202	485	9	1.15	23	660	634	141	0.35	238	10	320			
9400E 6225N	201	202	495	6	2.30	14	450	60	360	0.31	76	< 10	210			
9400E 6250N	201	202	680	4	1.96	17	290	102	217	0.35	101	< 10	274			
9400E 6275N	201	202	385	< 1	1.56	17	200	48	135	0.37	86	< 10	124			
9400E 6300N	201	202	470	2	1.75	19	290	66	213	0.41	98	< 10	114			
9400E 6325N	201	202	605	3	2.05	23	320	32	218	0.38	102	10	122			
9400E 6350N	201	202	1765	< 1	1.99	27	580	14	339	0.36	80	< 10	316			
9400E 6375N	201	202	515	6	2.22	14	270	36	235	0.44	108	10	84			
9400E 6400N	201	202	390	3	1.84	11	220	62	157	0.35	79	< 10	64			
9400E 6425N	201	202	520	5	1.80	23	280	30	124	0.43	108	< 10	130			
9400E 6450N	201	202	325	3	1.68	16	430	26	146	0.35	96	10	64			
9400E 6475N	201	202	550	4	2.74	14	270	14	319	0.38	77	10	82			
9400E 6500N	201	202	1290	< 1	2.36	24	580	20	179	0.46	132	< 10	192			
9400E 6525N	201	202	710	3	2.11	4	560	6	447	0.14	27	< 10	46			
9400E 6550N	201	202	515	1	2.08	23	600	32	172	0.43	86	< 10	128			
9400E 6575N	201	202	945	7	1.52	33	1060	60	142	0.40	116	< 10	246			
9400E 6600N	201	202	1110	< 1	1.51	50	910	54	223	0.36	114	10	328			
9400E 6650N	201	202	705	6	1.57	41	800	44	133	0.37	92	< 10	180			
9400E 6675N	201	202	500	7	1.52	29	660	18	126	0.25	91	< 10	100			
9400E 6700N	201	202	675	7	1.84	18	390	24	196	0.37	76	< 10	100			
9400E 7700N	201	202	150	3	2.56	17	210	14	153	0.34	142	< 10	32			
9400E 7725N	201	202	1175	7	0.85	217	1250	10	153	0.20	193	< 10	324			
9400E 7750N	201	202	270	2	2.24	11	300	12	428	0.17	34	< 10	46			
9400E 7775N	201	202	235	< 1	1.47	64	530	10	366	0.13	24	< 10	92			
9400E 7800N	201	202	295	< 1	1.20	136	890	8	319	0.11	53	< 10	180			
9400E 7825N	201	202	210	1	0.93	129	1060	8	144	0.18	165	< 10	150			
9400E 7850N	201	202	235	24	1.28	34	600	30	249	0.27	734	< 10	142			
9400E 7875N	201	202	160	13	1.46	23	230	8	229	0.24	2310	10	50			

CERTIFICATION: Ian K Bradley

Chemex Labs Ltd.

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To: WESTMIN RESOURCES LTD.

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VANCOUVER, BC
V7X 1C4

Project : 6407
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Total Pages :6
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CERTIFICATE OF ANALYSIS A9737037

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
9400E 7900N	201	202	< 5	< 0.2	2.82	1310	1.5	< 2	2.80	2.5	3	41	220	1.15	0.74	0.60
9400E 7925N	201	202	< 5	< 0.2	5.66	1090	1.5	< 2	1.03	< 0.5	< 1	37	72	1.64	1.58	0.53
9400E 7950N	201	202	< 5	0.6	2.24	810	1.0	< 2	2.33	3.5	3	33	167	0.83	0.60	0.43
9400E 7975N	201	202	< 5	< 0.2	5.09	1540	2.0	< 2	1.59	< 0.5	7	96	120	1.92	1.41	1.23
9400E 8000N	201	202	< 5	0.4	4.26	1100	1.5	4	2.23	2.5	5	57	241	1.69	1.24	0.90
9400E 8025N	201	202	< 5	< 0.2	5.30	1130	1.5	< 2	1.91	0.5	4	53	229	2.02	1.68	0.88
9400E 8050N	201	202	< 5	< 0.2	5.27	1670	2.0	< 2	0.49	< 0.5	3	79	29	2.09	1.82	1.35
9400E 8075N	201	202	< 5	< 0.2	5.66	1430	2.0	2	1.30	< 0.5	9	81	91	2.12	1.71	1.41
9400E 8100N	201	202	< 5	< 0.2	6.39	1970	2.5	< 2	0.48	< 0.5	1	106	28	2.11	2.14	1.02
9400E 8125N	201	202	< 5	< 0.2	4.64	1080	1.5	2	1.27	1.5	1	41	109	1.22	1.44	0.60
9400E 8150N	201	202	15	< 0.2	4.50	740	1.5	< 2	2.31	3.0	8	27	220	1.65	1.12	0.58
9400E 8200N	201	202	< 5	< 0.2	4.26	590	0.5	2	2.55	8.0	2	9	146	1.04	1.18	0.42
9400E 8225N	201	202	< 5	< 0.2	4.26	730	1.0	2	2.48	0.5	6	22	147	1.31	1.11	0.60
9400E 8300N	201	202	< 5	< 0.2	4.60	1040	2.0	2	2.11	3.0	5	72	229	1.87	1.49	0.94
9400E 8325N	201	202	< 5	< 0.2	5.30	1380	2.0	4	1.51	2.5	6	106	121	2.23	1.61	1.27
9400E 8350N	201	202	< 5	< 0.2	5.73	1180	1.5	2	1.50	< 0.5	7	68	42	2.26	1.75	1.10
9400E 8450N	201	202	< 5	< 0.2	5.60	1070	2.0	2	0.94	< 0.5	7	108	19	2.28	1.64	1.09
9400E 8475N	201	202	< 5	1.2	5.68	1140	1.5	< 2	0.76	< 0.5	15	118	84	3.88	1.37	0.93
9400E 8500N	201	202	< 5	0.6	5.51	1000	1.5	< 2	0.99	< 0.5	5	68	34	1.90	1.70	0.75
9500E 7700N	201	202	< 5	< 0.2	5.03	1030	1.5	2	2.21	1.5	7	38	115	1.63	1.45	1.09
9500E 7725N	201	202	< 5	< 0.2	4.26	820	2.0	< 2	2.54	1.5	6	59	149	1.74	1.23	0.96
9500E 7775N	201	202	< 5	< 0.2	6.21	870	2.0	< 2	1.40	1.5	5	33	106	1.68	1.69	0.60
9500E 7800N	201	202	< 5	< 0.2	5.99	840	1.0	< 2	2.29	< 0.5	4	13	54	1.43	1.60	0.56
9500E 7850N	201	202	< 5	< 0.2	5.36	1140	2.0	< 2	1.21	1.5	6	81	172	2.18	1.71	1.14
9500E 7875N	201	202	< 5	< 0.2	4.51	1120	2.0	< 2	2.19	7.0	11	58	603	1.93	1.40	1.08
9500E 7900N	201	202	< 5	< 0.2	4.73	920	1.5	6	2.08	0.5	7	55	107	1.71	1.23	0.94
9500E 7925N	201	202	20	< 0.2	5.25	950	1.0	< 2	2.55	< 0.5	< 1	14	126	1.28	1.24	0.56
9500E 7950N	201	202	< 5	< 0.2	3.77	1130	1.5	2	2.46	3.0	3	44	182	1.38	0.85	0.78
9500E 7975N	201	202	< 5	< 0.2	6.12	1440	2.5	< 2	2.07	1.5	8	78	167	2.57	1.42	1.39
9500E 8000N	201	202	< 5	< 0.2	7.15	990	1.5	< 2	1.79	< 0.5	4	19	35	1.51	2.11	0.57
9500E 8025N	201	202	< 5	< 0.2	6.27	1020	1.5	< 2	1.82	< 0.5	6	29	92	1.74	1.71	0.80
9500E 8075N	201	202	< 5	< 0.2	4.44	1280	2.0	< 2	1.92	3.5	7	71	214	2.09	1.41	1.13
9500E 8100N	201	202	< 5	< 0.2	3.16	670	1.0	< 2	2.47	0.5	4	23	119	1.04	0.91	0.50
9500E 8125N	201	202	< 5	< 0.2	2.33	680	1.0	< 2	2.96	< 0.5	1	14	266	0.75	0.56	0.33
9500E 8150N	201	202	< 5	< 0.2	6.48	1020	1.5	4	1.26	< 0.5	2	30	64	1.65	2.21	0.59
9500E 8175N	201	202	< 5	< 0.2	5.32	840	1.5	< 2	0.72	< 0.5	4	68	31	2.19	1.23	2.16
9500E 8200N	201	202	< 5	< 0.2	5.53	1250	2.0	6	1.50	< 0.5	8	68	66	1.95	1.76	1.18
9500E 8225N	201	202	< 5	< 0.2	4.87	1060	2.0	2	1.56	4.0	14	80	130	2.35	1.55	1.22
9500E 8275N	201	202	< 5	< 0.2	5.74	1340	2.0	8	1.96	1.5	8	73	150	2.22	1.70	1.12
9500E 8300N	201	202	< 5	< 0.2	4.66	1220	2.0	6	1.35	1.0	10	81	124	2.07	1.50	1.00

CERTIFICATION: Ian A Bickle

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9400E 7900N	201 202	120	8	0.51	139	1450	8	162	0.10	123	< 10	112
9400E 7925N	201 202	225	10	1.59	33	880	10	311	0.19	99	< 10	78
9400E 7950N	201 202	205	7	0.38	116	1130	4	139	0.07	104	< 10	152
9400E 7975N	201 202	330	9	1.05	91	1250	8	150	0.21	273	< 10	150
9400E 8000N	201 202	285	5	0.89	157	1510	12	191	0.15	168	< 10	186
9400E 8025N	201 202	425	13	1.36	99	1290	10	292	0.17	155	< 10	138
9400E 8050N	201 202	170	9	0.75	37	890	6	66	0.24	191	< 10	58
9400E 8075N	201 202	335	11	1.22	81	1140	10	150	0.22	195	< 10	90
9400E 8100N	201 202	195	7	1.39	28	530	10	105	0.33	305	< 10	68
9400E 8125N	201 202	180	6	1.23	52	1220	12	245	0.16	81	< 10	92
9400E 8150N	201 202	1060	11	1.24	82	1180	8	335	0.16	92	< 10	150
9400E 8200N	201 202	375	3	1.58	72	660	10	390	0.13	30	< 10	596
9400E 8225N	201 202	740	12	1.26	102	1100	10	333	0.14	62	< 10	98
9400E 8300N	201 202	290	14	0.97	211	1330	16	198	0.16	199	< 10	358
9400E 8325N	201 202	320	10	0.90	151	970	14	126	0.22	327	< 10	384
9400E 8350N	201 202	455	23	1.43	49	1200	12	240	0.23	184	< 10	172
9400E 8450N	201 202	385	15	1.53	44	1120	16	131	0.27	158	< 10	146
9400E 8475N	201 202	610	17	1.08	95	1620	20	167	0.23	144	< 10	326
9400E 8500N	201 202	285	15	1.52	37	1240	16	232	0.21	106	10	122
9500E 7700N	201 202	330	5	1.57	68	530	12	271	0.19	65	< 10	120
9500E 7725N	201 202	380	3	1.07	120	960	10	181	0.18	122	< 10	158
9500E 7775N	201 202	530	4	2.18	37	610	12	412	0.20	69	< 10	96
9500E 7800N	201 202	505	1	2.05	33	650	8	491	0.17	46	< 10	64
9500E 7850N	201 202	300	6	1.37	198	490	14	125	0.27	129	< 10	332
9500E 7875N	201 202	785	15	0.89	591	990	16	147	0.18	147	< 10	464
9500E 7900N	201 202	740	8	1.39	90	1230	12	280	0.20	159	< 10	84
9500E 7925N	201 202	340	3	1.56	67	800	10	427	0.15	41	< 10	74
9500E 7950N	201 202	485	3	0.85	158	1110	10	210	0.14	97	< 10	104
9500E 7975N	201 202	420	5	1.16	105	1400	12	226	0.27	182	< 10	238
9500E 8000N	201 202	345	< 1	2.56	13	280	10	568	0.21	79	< 10	64
9500E 8025N	201 202	435	5	1.95	42	760	10	445	0.19	86	< 10	80
9500E 8075N	201 202	755	11	0.68	162	1310	14	132	0.17	187	< 10	222
9500E 8100N	201 202	420	4	0.85	65	1320	10	226	0.10	52	< 10	66
9500E 8125N	201 202	455	3	0.44	120	730	8	198	0.06	23	< 10	56
9500E 8150N	201 202	320	5	2.28	12	410	10	432	0.21	107	< 10	72
9500E 8175N	201 202	205	8	1.32	30	510	4	88	0.29	101	< 10	88
9500E 8200N	201 202	500	8	1.17	47	1050	8	200	0.23	180	< 10	108
9500E 8225N	201 202	1300	18	0.85	130	1460	10	159	0.19	226	< 10	556
9500E 8275N	201 202	530	10	1.14	107	1550	10	275	0.19	255	< 10	178
9500E 8300N	201 202	380	9	0.90	124	1770	6	127	0.18	275	< 10	218

CERTIFICATION: David Bradley

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SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
9500E 8325N	201	202	< 5	< 0.2	5.57	1330	2.0	< 2	1.39	2.0	8	101	113	2.59	1.82	1.26
9500E 8375N	201	202	< 5	< 0.2	5.07	1170	2.0	2	1.29	1.5	9	91	55	2.20	1.47	1.09
9500E 8400N	201	202	< 5	< 0.2	5.89	1320	2.5	2	1.05	0.5	8	98	21	2.43	1.94	1.18
9500E 8425N	201	202	< 5	0.6	5.71	1150	2.0	< 2	1.72	4.0	16	80	68	2.98	1.60	1.05
9500E 8475N	201	202	< 5	< 0.2	4.99	940	2.0	2	1.41	1.0	7	71	33	1.80	1.48	0.86
9500E 8500N	201	202	< 5	< 0.2	5.51	1060	2.0	2	1.25	0.5	9	78	23	2.13	1.51	0.93
9500E 8525N	201	202	< 5	< 0.2	5.52	1060	2.0	< 2	0.75	1.5	29	114	36	5.17	1.46	0.91
9500E 8550N	201	202	< 5	< 0.2	5.49	1030	2.0	< 2	0.91	0.5	11	125	23	2.43	1.47	0.99
9500E 8575N	201	202	< 5	0.6	5.41	1220	2.0	2	0.92	2.0	10	80	35	2.13	1.44	0.90
9500E 8600N	201	202	< 5	< 0.2	5.68	990	2.0	< 2	1.57	1.5	14	94	33	2.46	1.68	1.04
9600E 5900N	201	202	< 5	< 0.2	7.59	870	4.0	4	0.89	0.5	11	81	39	4.49	2.97	1.56
9600E 5925N	201	202	< 5	< 0.2	7.14	800	1.5	< 2	2.12	< 0.5	5	9	21	1.61	1.51	0.56
9600E 5950N	201	202	< 5	< 0.2	6.60	740	3.5	4	1.54	0.5	10	79	36	3.73	2.23	1.22
9600E 5975N	201	202	< 5	< 0.2	6.11	740	3.0	< 2	1.62	2.0	11	63	54	3.37	2.00	1.06
9600E 6000N	201	202	< 5	< 0.2	5.72	670	2.5	2	2.11	1.0	8	63	64	2.75	1.62	0.87
9600E 6025N	201	202	< 5	< 0.2	6.42	820	3.0	4	1.20	< 0.5	7	72	14	2.65	2.08	1.03
9600E 6050N	201	202	< 5	< 0.2	6.22	800	3.0	2	1.25	0.5	9	84	24	2.81	1.89	0.96
9600E 6075N	201	202	< 5	< 0.2	8.82	1370	3.5	2	0.94	< 0.5	13	56	25	4.86	2.20	2.75
9600E 6100N	201	202	< 5	< 0.2	5.83	830	2.5	< 2	1.08	< 0.5	4	80	6	1.90	1.79	0.61
9600E 6125N	201	202	< 5	< 0.2	7.26	980	3.0	2	0.97	< 0.5	9	59	5	3.26	2.24	1.55
9600E 6150N	201	202	< 5	< 0.2	7.28	860	2.5	4	1.84	< 0.5	9	56	10	2.73	1.86	1.21
9600E 6175N	201	202	< 5	< 0.2	7.82	830	3.0	4	3.16	< 0.5	9	59	8	2.75	0.95	1.89
9600E 6200N	201	202	< 5	< 0.2	8.15	610	2.5	6	2.84	< 0.5	12	86	6	4.21	0.98	1.84
9600E 6225N	201	202	< 5	< 0.2	8.91	750	3.0	2	4.22	< 0.5	17	75	7	4.47	0.73	2.69
9600E 6250N	201	202	< 5	< 0.2	7.38	700	2.0	< 2	2.48	< 0.5	9	62	8	3.03	1.39	1.34
9600E 6275N	201	202	< 5	< 0.2	7.82	690	2.5	4	2.45	< 0.5	9	72	6	4.25	1.38	1.69
9600E 6300N	201	202	< 5	< 0.2	7.82	650	2.0	2	2.72	< 0.5	8	52	6	2.37	0.97	1.38
9600E 6325N	201	202	< 5	< 0.2	8.94	1200	3.0	< 2	0.87	< 0.5	5	34	6	3.44	2.28	1.45
9600E 6350N	201	202	< 5	< 0.2	6.98	730	2.0	< 2	1.93	< 0.5	4	66	4	1.96	1.37	1.03
9600E 6375N	201	202	< 5	< 0.2	6.75	950	2.0	2	2.13	1.0	9	70	21	2.86	1.42	1.36
9600E 6400N	201	202	< 5	< 0.2	8.71	90	0.5	6	2.29	< 0.5	3	68	1	3.13	0.17	1.55
9600E 6425N	201	202	< 5	< 0.2	8.78	380	1.5	< 2	2.00	< 0.5	1	51	4	2.32	0.50	0.91
9600E 6450N	201	202	< 5	< 0.2	8.32	1050	2.0	2	2.07	< 0.5	4	43	15	2.13	2.13	0.91
9600E 6475N	201	202	< 5	< 0.2	6.17	1000	3.0	2	1.64	< 0.5	9	56	161	2.78	1.33	0.88
9600E 6500N	201	202	< 5	< 0.2	7.41	670	2.5	2	2.42	0.5	10	67	9	3.48	1.27	1.76
9600E 6525N	201	202	< 5	< 0.2	8.63	460	6.5	< 2	5.30	< 0.5	12	92	3	4.33	0.40	3.85
9600E 6550N	201	202	< 5	< 0.2	8.84	610	1.5	2	5.45	< 0.5	10	77	5	5.16	0.93	1.71
9600E 6575N	201	202	< 5	< 0.2	7.37	710	2.0	< 2	2.74	< 0.5	9	70	8	3.75	1.33	1.54
9600E 6600N	201	202	< 5	< 0.2	6.44	750	2.0	2	2.74	< 0.5	12	84	30	4.09	1.19	2.18
9600E 6625N	201	202	< 5	< 0.2	6.19	780	2.5	2	2.15	< 0.5	9	67	19	2.65	1.82	1.22

CERTIFICATION: 

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6407
Comments: ATTN:DAVID TERRY-VANCOUVER OFFICE

Page Number :3-B
Total Pages :6
Certificate Date: 20-AUG-97
Invoice No. :I9737037
P.O. Number :
Account :GP

CERTIFICATE OF ANALYSIS A9737037

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
9500E 8325N	201	202	290	10	1.03	134	1790	10	122	0.23	341	< 10	282			
9500E 8375N	201	202	360	10	1.13	107	1600	6	121	0.21	259	< 10	288			
9500E 8400N	201	202	290	12	1.44	52	1360	10	110	0.29	212	< 10	126			
9500E 8425N	201	202	985	22	1.16	80	1080	38	183	0.24	162	< 10	404			
9500E 8475N	201	202	300	4	1.36	50	1250	10	131	0.22	128	< 10	180			
9500E 8500N	201	202	375	8	1.46	41	1260	8	163	0.25	148	< 10	148			
9500E 8525N	201	202	960	20	1.21	81	1640	12	118	0.24	151	< 10	366			
9500E 8550N	201	202	495	21	1.31	56	1390	18	114	0.26	157	< 10	174			
9500E 8575N	201	202	440	15	1.25	50	1620	16	127	0.21	201	< 10	228			
9500E 8600N	201	202	595	5	1.49	67	940	6	170	0.29	113	< 10	218			
9600E 5900N	201	202	690	1	1.35	49	700	32	96	0.42	94	< 10	274			
9600E 5925N	201	202	375	1	2.80	8	460	8	547	0.19	37	< 10	60			
9600E 5950N	201	202	525	2	1.43	41	890	16	131	0.36	70	< 10	316			
9600E 5975N	201	202	705	4	1.36	35	980	26	136	0.30	60	< 10	574			
9600E 6000N	201	202	650	1	1.45	44	650	18	220	0.28	55	< 10	222			
9600E 6025N	201	202	450	1	1.84	26	830	24	136	0.37	65	< 10	106			
9600E 6050N	201	202	515	3	1.75	27	720	22	141	0.38	70	< 10	154			
9600E 6075N	201	202	575	7	1.42	26	990	28	95	0.32	79	< 10	156			
9600E 6100N	201	202	385	1	1.85	16	250	18	170	0.37	63	< 10	48			
9600E 6125N	201	202	470	1	1.80	17	380	20	112	0.37	69	< 10	92			
9600E 6150N	201	202	725	< 1	2.35	18	310	16	297	0.35	65	< 10	64			
9600E 6175N	201	202	720	< 1	3.61	22	290	8	337	0.39	73	< 10	108			
9600E 6200N	201	202	890	1	2.87	26	220	10	299	0.47	104	< 10	108			
9600E 6225N	201	202	1350	2	2.17	25	400	8	524	0.43	81	< 10	150			
9600E 6250N	201	202	525	3	2.71	17	160	16	318	0.54	110	< 10	60			
9600E 6275N	201	202	595	1	2.25	21	290	20	264	0.45	88	< 10	78			
9600E 6300N	201	202	785	< 1	3.69	15	140	6	304	0.35	73	< 10	56			
9600E 6325N	201	202	330	4	2.00	11	390	10	106	0.28	50	< 10	52			
9600E 6350N	201	202	340	1	3.08	14	160	16	195	0.43	86	< 10	38			
9600E 6375N	201	202	545	3	2.23	18	670	28	225	0.36	103	< 10	114			
9600E 6400N	201	202	180	4	5.50	20	10	2	200	0.37	83	< 10	18			
9600E 6425N	201	202	290	1	4.93	11	100	6	298	0.37	92	< 10	38			
9600E 6450N	201	202	430	4	2.80	8	200	10	405	0.36	98	< 10	58			
9600E 6475N	201	202	670	4	1.56	56	1190	16	158	0.30	80	< 10	66			
9600E 6500N	201	202	795	< 1	2.44	24	150	6	249	0.40	98	< 10	92			
9600E 6525N	201	202	740	1	2.95	37	140	< 2	505	0.56	110	< 10	82			
9600E 6550N	201	202	990	2	1.37	24	300	4	697	0.36	95	< 10	76			
9600E 6575N	201	202	670	1	2.08	24	320	10	327	0.38	135	< 10	66			
9600E 6600N	201	202	575	3	1.58	53	790	4	230	0.34	204	< 10	102			
9600E 6625N	201	202	495	1	1.87	28	950	10	191	0.32	76	< 10	70			

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6407
Comments: ATTN:DAVID TERRY-VANCOUVER OFFICE

Page Number :4-A
Total Pages :6
Certificate Date: 20-AUG-97
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Account :GP

CERTIFICATE OF ANALYSIS A9737037

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
9600E 6700N	201	202	< 5	< 0.2	5.85	1140	2.0	< 2	2.44	1.5	9	86	33	2.96	1.43	1.80
9600E 7700N	201	202	< 5	< 0.2	6.00	960	2.0	2	2.17	1.5	7	52	110	2.28	1.64	1.04
9600E 7725N	201	202	< 5	< 0.2	5.95	1020	2.0	4	1.46	0.5	11	53	135	2.35	1.61	1.09
9600E 7750N	201	202	< 5	< 0.2	6.94	900	1.5	2	1.49	0.5	5	77	20	2.09	1.98	0.95
9600E 7775N	201	202	< 5	< 0.2	6.70	860	2.5	4	1.29	< 0.5	7	93	9	2.48	1.69	1.27
9600E 7800N	201	202	< 5	< 0.2	5.33	920	1.5	2	2.20	1.5	8	40	72	2.06	1.45	0.88
9600E 7825N	201	202	< 5	< 0.2	6.74	1040	2.5	2	1.55	0.5	10	74	60	2.95	1.90	1.44
9600E 7850N	201	202	< 5	< 0.2	6.43	960	2.5	2	1.34	0.5	7	65	28	2.44	1.81	1.18
9600E 7875N	201	202	< 5	< 0.2	6.61	1040	2.5	2	1.28	< 0.5	8	68	75	2.97	1.91	1.18
9600E 7900N	201	202	< 5	< 0.2	6.31	1120	2.0	2	1.78	1.5	11	65	100	2.84	1.82	1.29
9600E 7925N	201	202	< 5	< 0.2	6.17	1060	1.5	2	1.93	1.5	6	53	125	2.09	1.70	0.90
9600E 7950N	201	202	< 5	< 0.2	4.62	880	1.5	2	2.29	2.0	6	41	90	1.64	1.27	0.75
9600E 7975N	201	202	< 5	< 0.2	6.45	1150	2.5	2	1.23	0.5	8	71	38	2.14	2.17	1.08
9600E 8000N	201	202	< 5	< 0.2	6.93	1370	2.5	2	1.43	1.5	6	78	102	2.40	2.19	1.27
9600E 8025N	201	202	< 5	< 0.2	6.10	980	2.5	4	1.28	0.5	10	108	40	2.66	1.99	1.41
9600E 8075N	201	202	< 5	< 0.2	8.15	860	1.0	< 2	2.15	< 0.5	6	10	19	1.90	2.18	0.73
9600E 8100N	201	202	< 5	< 0.2	5.45	1090	1.5	< 2	0.81	< 0.5	3	61	25	1.59	1.55	0.56
9600E 8125N	201	202	< 5	< 0.2	5.64	1220	2.0	2	0.59	< 0.5	< 1	67	6	0.73	1.91	0.29
9600E 8150N	201	202	< 5	< 0.2	5.29	840	1.5	< 2	1.95	5.0	14	43	168	2.09	1.37	0.89
9600E 8175N	201	202	< 5	< 0.2	7.70	930	1.5	2	1.73	0.5	4	11	30	1.55	2.24	0.49
9600E 8200N	201	202	< 5	< 0.2	5.95	1360	2.0	2	0.80	< 0.5	4	86	10	2.64	1.91	0.90
9600E 8225N	201	202	< 5	< 0.2	4.66	650	1.0	< 2	2.42	4.5	5	26	111	1.61	1.21	0.58
9600E 8250N	201	202	< 5	< 0.2	5.76	790	1.5	< 2	1.91	2.5	7	29	76	1.78	1.50	0.78
9600E 8350N	201	202	< 5	< 0.2	4.89	1110	2.0	2	1.57	2.0	9	76	104	2.15	1.45	1.01
9600E 8375N	201	202	< 5	< 0.2	3.80	1080	1.5	< 2	2.35	6.5	15	56	173	2.14	1.03	0.82
9600E 8400N	201	202	< 5	< 0.2	5.03	1150	2.0	< 2	1.49	3.5	14	70	85	2.32	1.49	1.02
9600E 8425N	201	202	< 5	< 0.2	6.14	1540	2.0	< 2	1.21	1.5	12	86	53	2.51	1.85	1.31
9600E 8450N	201	202	< 5	< 0.2	5.72	1320	2.0	2	1.48	2.0	12	70	69	2.34	1.58	1.06
9600E 8475N	201	202	< 5	< 0.2	5.36	870	1.5	< 2	2.70	3.0	16	35	64	1.89	1.40	0.67
9600E 8525N	201	202	< 5	< 0.2	5.21	1110	2.0	4	0.94	4.0	20	71	30	2.08	1.51	0.87
9600E 8550N	201	202	< 5	< 0.2	4.76	840	1.5	2	1.02	1.5	5	63	17	1.31	1.27	0.66
9600E 8575N	201	202	< 5	< 0.2	6.09	1290	2.0	2	0.98	2.5	10	98	43	2.25	1.80	1.06
9600E 8600N	201	202	< 5	< 0.2	4.59	960	1.5	2	1.15	5.5	67	71	61	4.44	1.22	0.78
9800E 5950N	201	202	< 5	< 0.2	6.61	820	2.5	2	1.50	0.5	10	62	25	2.89	1.91	0.99
9800E 6000N	201	202	< 5	< 0.2	5.80	770	2.5	2	1.22	< 0.5	6	101	6	2.22	1.94	0.84
9800E 6025N	201	202	< 5	< 0.2	6.24	770	3.0	< 2	1.50	< 0.5	11	83	20	2.49	1.98	0.94
9800E 6050N	201	202	< 5	< 0.2	6.54	840	2.0	< 2	1.22	< 0.5	3	31	11	1.30	1.99	0.45
9800E 6075N	201	202	< 5	< 0.2	6.80	960	3.0	2	1.03	< 0.5	7	81	11	3.11	2.30	0.99
9800E 6100N	201	202	< 5	< 0.2	6.13	880	2.5	2	1.09	< 0.5	3	67	8	1.61	2.11	0.57
9800E 6125N	201	202	< 5	< 0.2	6.68	910	3.0	< 2	0.73	< 0.5	8	81	9	3.06	2.54	1.11

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6407
Comments: ATTN:DAVID TERRY-VANCOUVER OFFICE

Certificate Date: 20-AUG-97
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SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
9600E 6700N	201 202	515	13	1.23	64	1930	6	196	0.25	323	< 10	98			
9600E 7700N	201 202	330	3	1.51	83	790	6	192	0.23	98	< 10	162			
9600E 7725N	201 202	410	8	1.41	83	1160	10	197	0.22	123	< 10	122			
9600E 7750N	201 202	320	4	2.24	28	500	6	439	0.33	93	< 10	70			
9600E 7775N	201 202	385	6	2.17	35	290	10	196	0.44	110	< 10	76			
9600E 7800N	201 202	380	7	1.51	99	820	8	244	0.20	83	< 10	128			
9600E 7825N	201 202	415	15	1.77	98	880	8	157	0.31	120	< 10	106			
9600E 7850N	201 202	335	9	1.85	69	690	10	143	0.27	97	< 10	90			
9600E 7875N	201 202	410	23	1.52	72	940	14	137	0.27	132	< 10	106			
9600E 7900N	201 202	460	10	1.51	73	730	10	201	0.33	129	< 10	166			
9600E 7925N	201 202	455	6	1.72	75	710	12	306	0.21	90	< 10	162			
9600E 7950N	201 202	445	5	1.24	66	1090	8	223	0.19	73	< 10	102			
9600E 7975N	201 202	295	5	1.74	54	940	12	143	0.28	109	< 10	100			
9600E 8000N	201 202	285	6	1.41	96	1170	8	184	0.26	173	< 10	186			
9600E 8025N	201 202	440	8	1.62	70	800	14	136	0.34	115	< 10	104			
9600E 8075N	201 202	395	3	3.00	6	220	6	661	0.24	53	< 10	54			
9600E 8100N	201 202	180	21	1.59	43	460	12	219	0.21	431	< 10	90			
9600E 8125N	201 202	115	2	1.61	9	170	10	135	0.23	225	< 10	32			
9600E 8150N	201 202	555	11	1.33	142	1280	6	267	0.19	121	< 10	530			
9600E 8175N	201 202	345	3	2.82	7	390	4	569	0.20	44	< 10	56			
9600E 8200N	201 202	245	5	1.30	29	700	12	116	0.36	117	< 10	70			
9600E 8225N	201 202	280	5	1.27	90	920	4	310	0.13	54	< 10	238			
9600E 8250N	201 202	395	6	1.81	48	800	2	344	0.19	71	< 10	144			
9600E 8350N	201 202	345	9	1.02	119	1400	6	132	0.20	205	< 10	252			
9600E 8375N	201 202	3320	32	0.65	328	1150	6	139	0.13	153	< 10	316			
9600E 8400N	201 202	645	12	0.98	110	1320	20	137	0.19	184	< 10	310			
9600E 8425N	201 202	450	12	1.16	58	1520	16	131	0.26	230	< 10	286			
9600E 8450N	201 202	320	11	1.22	60	1640	12	178	0.23	177	< 10	260			
9600E 8475N	201 202	1330	10	1.57	77	1070	8	354	0.17	71	< 10	232			
9600E 8525N	201 202	2550	12	1.29	56	1320	12	114	0.23	138	< 10	284			
9600E 8550N	201 202	290	3	1.43	29	1270	8	124	0.22	97	< 10	146			
9600E 8575N	201 202	305	4	1.21	65	1230	16	113	0.29	170	< 10	262			
9600E 8600N	201 202	4110	55	0.96	71	1520	14	122	0.20	146	< 10	272			
9800E 5950N	201 202	855	2	1.59	49	1030	14	224	0.32	62	< 10	124			
9800E 6000N	201 202	555	< 1	1.79	34	310	16	151	0.44	67	< 10	84			
9800E 6025N	201 202	495	1	1.81	35	850	18	168	0.40	70	< 10	72			
9800E 6050N	201 202	325	1	2.10	7	170	12	300	0.28	44	< 10	36			
9800E 6075N	201 202	360	1	1.61	29	320	14	142	0.39	79	< 10	68			
9800E 6100N	201 202	360	1	1.73	13	140	20	147	0.38	58	< 10	34			
9800E 6125N	201 202	430	2	1.44	23	380	14	105	0.40	71	< 10	58			

CERTIFICATION:

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9800E 6150N	201 202	< 5	< 0.2	7.20	880	1.5	< 2	1.82	< 0.5	5	19	18	1.77	2.04	0.59
9800E 6175N	201 202	< 5	< 0.2	6.59	730	2.0	2	1.57	0.5	7	62	7	2.49	2.00	1.03
9800E 6200N	201 202	< 5	< 0.2	6.27	570	2.5	< 2	2.12	< 0.5	4	61	4	1.92	1.44	1.13
9800E 6225N	201 202	< 5	< 0.2	7.08	700	2.5	6	3.17	< 0.5	25	75	33	4.69	1.34	1.68
9800E 6250N	201 202	< 5	< 0.2	5.51	580	2.5	2	2.12	< 0.5	8	97	7	2.87	1.75	1.56
9800E 6275N	201 202	< 5	< 0.2	4.65	590	1.5	< 2	3.97	0.5	11	28	30	2.83	0.86	1.13
9800E 6300N	201 202	< 5	< 0.2	5.33	720	1.5	< 2	2.91	< 0.5	6	36	26	1.85	1.24	0.77
9800E 6325N	201 202	< 5	< 0.2	6.27	790	2.0	2	3.29	< 0.5	14	79	12	3.34	1.40	2.06
9800E 6350N	201 202	< 5	< 0.2	6.19	980	2.5	2	2.90	< 0.5	11	68	52	3.00	1.38	1.90
9800E 6375N	201 202	< 5	< 0.2	6.03	610	2.0	2	1.85	< 0.5	6	72	6	2.30	1.45	0.92
9800E 6400N	201 202	< 5	< 0.2	6.27	840	2.5	2	2.08	< 0.5	4	66	3	1.64	1.33	0.89
9800E 6425N	201 202	< 5	< 0.2	7.18	770	3.0	2	3.84	< 0.5	14	87	9	3.78	1.28	2.91
9800E 6450N	201 202	< 5	< 0.2	9.40	1000	3.0	6	1.48	< 0.5	8	23	9	3.50	3.29	1.00
9800E 6475N	201 202	< 5	< 0.2	6.04	750	2.5	2	1.22	< 0.5	7	54	10	2.11	1.87	0.85
9800E 6500N	201 202	< 5	< 0.2	7.38	950	2.5	4	1.80	0.5	12	65	29	3.93	1.61	1.89
9800E 6525N	201 202	< 5	< 0.2	6.41	940	2.5	2	1.41	< 0.5	8	64	9	2.36	2.20	1.05
9800E 6550N	201 202	< 5	< 0.2	5.98	890	2.0	2	2.16	0.5	8	44	46	2.17	1.77	0.87
9800E 6575N	201 202	< 5	< 0.2	7.54	1000	2.5	6	1.95	< 0.5	7	76	7	3.39	1.44	1.48
9800E 6600N	201 202	< 5	< 0.2	7.94	1250	3.0	2	1.23	< 0.5	11	89	18	3.72	2.06	1.75
9800E 6625N	201 202	< 5	< 0.2	8.44	1700	3.0	2	1.70	0.5	15	85	36	4.26	2.33	1.92
9800E 6700N	201 202	< 5	< 0.2	7.14	1320	3.0	8	2.05	0.5	12	82	50	3.87	2.13	1.65
10000E 6050N	201 202	< 5	< 0.2	5.77	720	2.0	6	2.75	< 0.5	7	28	33	2.43	1.48	0.70
10000E 6075N	201 202	< 5	< 0.2	6.79	590	2.0	< 2	2.25	< 0.5	11	36	15	3.44	1.46	2.81
10000E 6100N	201 202	< 5	< 0.2	6.21	850	3.0	6	1.49	< 0.5	8	104	10	2.44	1.93	1.02
10000E 6125N	201 202	< 5	< 0.2	7.91	960	2.0	2	1.64	< 0.5	5	36	17	1.94	2.30	0.69
10000E 6150N	201 202	< 5	< 0.2	6.95	800	3.0	2	2.12	< 0.5	12	85	14	3.42	1.95	1.78
10000E 6175N	201 202	< 5	< 0.2	6.24	870	3.0	2	1.78	< 0.5	9	84	16	2.45	1.95	1.08
10000E 6200N	201 202	< 5	< 0.2	6.85	1040	3.0	2	1.51	< 0.5	12	102	26	2.84	2.13	1.20
10000E 6225N	201 202	< 5	< 0.2	9.70	3340	3.0	4	1.21	0.5	5	105	20	3.43	3.72	1.13
10000E 6250N	201 202	< 5	< 0.2	12.35	4030	3.5	6	0.40	< 0.5	< 1	140	20	3.57	5.07	1.11
10000E 6275N	201 202	< 5	< 0.2	8.66	2900	3.0	2	0.91	< 0.5	4	95	18	2.74	2.99	0.90
10000E 6300N	201 202	< 5	< 0.2	7.95	910	1.5	< 2	1.84	< 0.5	4	7	17	1.62	2.25	0.54
10000E 6325N	201 202	< 5	< 0.2	8.71	1230	2.5	< 2	1.97	< 0.5	15	63	23	4.81	2.13	2.62
10000E 6425N	201 202	< 5	< 0.2	6.60	930	2.5	2	1.64	< 0.5	10	85	13	3.16	1.98	1.08
10000E 6450N	201 202	< 5	< 0.2	7.94	1000	2.5	< 2	2.06	< 0.5	19	75	11	4.59	2.01	2.47
10000E 6475N	201 202	< 5	< 0.2	7.58	850	2.0	2	3.09	0.5	13	83	9	2.51	0.85	1.85
10000E 6500N	201 202	< 5	< 0.2	8.10	1190	2.5	2	1.82	< 0.5	10	67	8	3.73	1.95	1.72
10000E 6525N	201 202	< 5	< 0.2	7.96	670	1.5	2	3.58	0.5	12	70	12	3.49	1.01	1.83
10000E 6550N	201 202	< 5	< 0.2	6.91	1040	2.5	< 2	1.97	0.5	9	70	27	3.15	1.36	1.46
10000E 6650N	201 202	< 5	< 0.2	7.05	1180	2.5	2	1.74	0.5	9	79	22	2.84	1.97	1.26

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6407
Comments: ATTN:DAVID TERRY-VANCOUVER OFFICE

Page Number :5-B
Total Pages :6
Certificate Date: 20-AUG-97
Invoice No. :I9737037
P.O. Number :
Account :GP

CERTIFICATE OF ANALYSIS A9737037

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
9800E 6150N	201	202	425	1	2.55	7	280	6	504	0.28	48	< 10	48			
9800E 6175N	201	202	540	1	2.19	15	190	12	225	0.48	86	< 10	54			
9800E 6200N	201	202	440	< 1	2.54	13	80	10	190	0.38	62	< 10	52			
9800E 6225N	201	202	685	2	1.47	70	500	8	280	0.38	75	< 10	88			
9800E 6250N	201	202	620	< 1	1.62	24	150	10	175	0.41	60	< 10	98			
9800E 6275N	201	202	1310	3	1.10	22	890	4	331	0.18	40	< 10	110			
9800E 6300N	201	202	495	3	1.67	16	740	6	325	0.22	46	< 10	66			
9800E 6325N	201	202	945	1	1.67	27	940	8	213	0.41	80	< 10	86			
9800E 6350N	201	202	770	1	1.72	43	960	8	216	0.30	81	< 10	64			
9800E 6375N	201	202	405	1	2.10	18	330	14	206	0.37	66	< 10	62			
9800E 6400N	201	202	395	1	2.56	11	70	6	200	0.38	63	< 10	34			
9800E 6425N	201	202	910	< 1	2.08	35	460	12	337	0.46	86	< 10	100			
9800E 6450N	201	202	680	4	2.20	5	290	6	329	0.34	64	< 10	72			
9800E 6475N	201	202	430	< 1	1.96	20	590	14	150	0.29	51	< 10	52			
9800E 6500N	201	202	800	3	1.78	39	670	14	238	0.34	77	< 10	138			
9800E 6525N	201	202	385	4	1.81	19	980	16	142	0.33	68	< 10	88			
9800E 6550N	201	202	430	4	1.64	29	810	12	246	0.26	60	< 10	130			
9800E 6575N	201	202	405	4	2.09	28	130	12	219	0.41	152	< 10	70			
9800E 6600N	201	202	490	5	1.81	37	400	16	152	0.39	131	< 10	108			
9800E 6625N	201	202	560	8	1.53	50	840	18	180	0.39	146	< 10	162			
9800E 6700N	201	202	555	4	1.14	52	1270	14	134	0.40	159	< 10	154			
10000E 6050N	201	202	550	3	1.49	37	780	12	338	0.17	50	< 10	64			
10000E 6075N	201	202	640	3	1.55	22	820	6	147	0.27	42	< 10	76			
10000E 6100N	201	202	485	1	1.71	36	630	16	155	0.40	72	< 10	54			
10000E 6125N	201	202	365	3	2.67	12	290	10	462	0.29	55	< 10	50			
10000E 6150N	201	202	625	< 1	1.73	35	820	12	225	0.44	84	< 10	86			
10000E 6175N	201	202	515	< 1	1.77	42	930	14	177	0.36	70	< 10	60			
10000E 6200N	201	202	415	4	1.75	62	770	16	162	0.39	89	< 10	146			
10000E 6225N	201	202	345	8	1.32	19	390	14	161	0.36	198	< 10	180			
10000E 6250N	201	202	230	11	0.98	8	290	16	81	0.44	322	< 10	100			
10000E 6275N	201	202	270	8	1.46	22	200	14	131	0.43	168	< 10	66			
10000E 6300N	201	202	365	1	2.97	3	300	8	602	0.20	37	< 10	48			
10000E 6325N	201	202	730	4	1.64	35	450	10	297	0.35	97	< 10	102			
10000E 6425N	201	202	895	3	1.77	38	560	14	228	0.36	75	< 10	68			
10000E 6450N	201	202	1185	1	1.41	32	280	12	289	0.41	93	< 10	122			
10000E 6475N	201	202	800	2	3.62	28	720	8	358	0.38	77	< 10	64			
10000E 6500N	201	202	525	2	2.01	23	260	10	260	0.41	99	< 10	68			
10000E 6525N	201	202	1015	3	2.41	20	300	8	449	0.37	93	< 10	96			
10000E 6550N	201	202	560	7	1.67	45	820	14	235	0.32	86	< 10	190			
10000E 6650N	201	202	465	8	1.62	48	1190	12	202	0.32	125	< 10	100			

CERTIFICATION: Stuart Bickle

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6407
Comments: ATTN:DAVID TERRY-VANCOUVER OFFICE

Page Number :6-A
Total Pages :6
Certificate Date: 20-AUG-97
Invoice No. :I9737037
P.O. Number :
Account :GP

CERTIFICATE OF ANALYSIS A9737037

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
10000E 6675N	201	202	< 5	< 0.2	6.89	1090	2.0	2	1.69	< 0.5	9	86	12	2.40	1.88	1.21
10000E 6700N	201	202	< 5	< 0.2	6.30	1090	2.0	2	1.94	0.5	8	74	14	2.35	1.74	1.15

CERTIFICATION: _____

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CERTIFICATE OF ANALYSIS A9737037

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
10000E 6675N	201	202	405	5	1.84	43	1250	14	221	0.31	118	< 10	98			
10000E 6700N	201	202	465	9	1.61	41	1190	12	202	0.28	123	< 10	90			

CERTIFICATION:

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9737062

Comments: ATTN:DAVID TERRY-VANCOUVER OFFICE

CERTIFICATE A9737062

(GP) - WESTMIN RESOURCES LTD.

Project: 6407
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 21-AUG-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	166	Dry, sieve to -80 mesh
202	166	save reject
285	166	ICP - HF digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	166	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
578	166	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	166	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	166	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	166	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	166	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	166	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	166	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	166	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	166	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	166	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	166	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	166	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	166	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	166	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	166	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	166	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	166	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	166	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	166	Pb ppm: 24 element, rock & core	AAS	2	10000
582	166	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	166	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	166	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	166	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	166	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

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Project : 6407
Comments: ATTN:DAVID TERRY-VANCOUVER OFFICE

Page Number :1-A
Total Pages :5
Certificate Date: 21-AUG-97
Invoice No. :I9737062
P.O. Number :
Account :GP

CERTIFICATE OF ANALYSIS A9737062

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
9000E 5900N	201	202	< 5	< 0.2	7.00	890	2.0	< 2	1.16	< 0.5	5	103	9	3.22	2.59	1.19
9000E 5925N	201	202	< 5	< 0.2	6.15	910	2.5	< 2	0.92	< 0.5	7	82	14	3.01	2.40	1.08
9000E 5950N	201	202	< 5	< 0.2	6.39	780	2.5	< 2	1.76	< 0.5	18	132	15	4.54	2.53	2.26
9000E 5975N	201	202	< 5	< 0.2	5.97	770	2.5	< 2	1.72	< 0.5	7	62	23	2.67	2.29	1.10
9000E 6000N	201	202	< 5	< 0.2	4.84	630	1.5	< 2	2.40	< 0.5	5	17	27	1.81	1.49	0.65
9000E 6100N	201	202	< 5	< 0.2	5.22	680	2.5	< 2	1.65	< 0.5	5	54	22	2.65	1.96	0.87
9000E 6125N	201	202	< 5	< 0.2	6.08	820	3.0	< 2	1.18	< 0.5	6	75	17	2.89	2.31	1.12
9000E 6150N	201	202	< 5	< 0.2	7.10	1010	3.0	< 2	0.88	< 0.5	7	81	12	3.85	2.74	1.30
9000E 6175N	201	202	< 5	< 0.2	6.29	920	3.0	< 2	0.88	< 0.5	5	83	6	2.64	2.40	1.04
9000E 6200N	201	202	< 5	< 0.2	6.36	880	2.0	< 2	1.19	< 0.5	7	62	8	4.93	1.96	1.17
9000E 6225N	201	202	< 5	< 0.2	6.89	800	2.5	< 2	0.91	< 0.5	4	85	8	2.24	2.43	1.15
9000E 6250N	201	202	< 5	< 0.2	6.46	810	2.0	< 2	1.14	< 0.5	8	112	11	3.25	2.70	1.54
9000E 6275N	201	202	< 5	< 0.2	5.38	640	3.5	< 2	1.05	0.5	14	91	76	4.67	1.87	1.23
9000E 6325N	201	202	< 5	< 0.2	6.28	850	3.0	< 2	1.24	< 0.5	5	222	6	3.09	2.42	1.45
9000E 6350N	201	202	< 5	< 0.2	5.32	720	2.5	< 2	1.73	< 0.5	9	138	18	2.72	1.96	1.26
9000E 6375N	201	202	< 5	< 0.2	5.45	790	2.5	< 2	1.47	< 0.5	13	145	15	2.64	2.18	1.17
9000E 6400N	201	202	< 5	< 0.2	6.15	900	2.5	< 2	0.89	< 0.5	3	133	6	1.93	2.42	0.93
9000E 6425N	201	202	< 5	< 0.2	6.53	860	3.5	< 2	1.27	< 0.5	12	123	18	3.62	2.37	1.47
9000E 6450N	201	202	< 5	< 0.2	6.75	910	2.5	< 2	1.45	< 0.5	6	86	17	2.74	2.36	1.15
9000E 6475N	201	202	< 5	< 0.2	6.99	890	3.5	< 2	1.04	< 0.5	11	209	8	5.19	2.33	1.89
9000E 6500N	201	202	< 5	< 0.2	6.04	940	3.0	< 2	0.99	< 0.5	3	204	5	2.33	2.22	0.83
9000E 6525N	201	202	< 5	< 0.2	5.62	720	3.5	< 2	1.48	< 0.5	9	158	11	2.27	1.77	1.05
9000E 6550N	201	202	< 5	< 0.2	6.26	890	3.0	< 2	1.20	< 0.5	6	92	10	2.39	2.19	1.12
9000E 6575N	201	202	< 5	< 0.2	6.37	900	3.0	< 2	1.11	< 0.5	6	87	8	2.29	2.18	1.02
9000E 6600N	201	202	< 5	< 0.2	5.99	840	3.0	< 2	1.16	< 0.5	6	93	6	2.27	2.08	1.07
9000E 6625N	201	202	< 5	< 0.2	6.74	990	3.0	< 2	1.09	< 0.5	10	109	11	2.85	2.30	1.07
9000E 6650N	201	202	< 5	< 0.2	6.50	900	3.5	< 2	1.15	< 0.5	13	224	8	3.65	2.20	1.70
9000E 6675N	201	202	< 5	< 0.2	5.72	880	2.5	< 2	0.92	< 0.5	5	207	3	2.40	2.09	1.44
9000E 6700N	201	202	< 5	< 0.2	6.14	890	2.5	< 2	1.18	< 0.5	4	146	6	2.17	2.21	1.02
9100E 7700N	201	202	< 5	< 0.2	5.60	980	2.0	< 2	1.07	< 0.5	2	58	13	1.48	1.71	0.66
9100E 7725N	201	202	< 5	< 0.2	5.99	930	2.0	< 2	1.37	< 0.5	4	67	11	1.55	2.09	0.65
9100E 7750N	201	202	< 5	< 0.2	6.76	970	2.0	< 2	0.92	< 0.5	4	49	18	2.19	1.82	0.81
9100E 7775N	201	202	< 5	< 0.2	5.52	880	2.0	< 2	0.59	< 0.5	1	73	6	1.32	1.62	0.68
9100E 7800N	201	202	< 5	< 0.2	5.47	920	2.0	< 2	0.80	< 0.5	3	74	16	1.65	1.63	0.83
9100E 7825N	201	202	< 5	< 0.2	5.57	1060	2.5	< 2	0.92	< 0.5	4	79	16	1.61	1.65	1.12
9100E 7850N	201	202	< 5	< 0.2	5.63	950	2.5	< 2	1.64	< 0.5	3	37	20	1.53	1.70	0.75
9100E 7875N	201	202	< 5	< 0.2	3.56	800	2.0	< 2	2.35	0.5	4	54	74	1.33	0.94	0.86
9100E 7900N	201	202	< 5	< 0.2	3.91	780	2.0	< 2	2.96	2.5	4	36	112	1.46	0.90	0.85
9100E 7925N	201	202	< 5	< 0.2	4.21	790	2.0	< 2	2.27	1.5	9	54	114	1.81	0.91	1.08
9100E 7950N	201	202	< 5	< 0.2	4.55	1130	2.0	< 2	1.66	< 0.5	5	69	62	1.53	0.77	1.76

CERTIFICATION: Ian Bucklen

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6407
Comments: ATTN:DAVID TERRY-VANCOUVER OFFICE

Certificate Date: 21-AUG-97
Invoice No. : I9737062
P.O. Number :
Account : GP

CERTIFICATE OF ANALYSIS A9737062

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
9000E 5900N	201	202	500	1	2.01	19	200	24	209	0.67	135	< 10	98			
9000E 5925N	201	202	525	2	1.62	24	500	20	131	0.49	97	< 10	72			
9000E 5950N	201	202	830	1	0.92	41	550	22	125	0.67	151	< 10	92			
9000E 5975N	201	202	520	1	1.64	26	650	20	215	0.36	77	< 10	74			
9000E 6000N	201	202	910	5	1.60	10	870	10	323	0.27	50	< 10	58			
9000E 6100N	201	202	340	3	1.40	26	1410	18	178	0.31	66	< 10	98			
9000E 6125N	201	202	465	1	1.72	40	850	18	151	0.39	78	< 10	96			
9000E 6150N	201	202	535	1	1.88	23	190	22	128	0.60	91	< 10	122			
9000E 6175N	201	202	360	1	1.94	27	130	12	130	0.44	80	10	56			
9000E 6200N	201	202	615	2	1.61	16	330	36	134	0.96	182	< 10	88			
9000E 6225N	201	202	325	2	2.24	22	150	10	207	0.54	91	< 10	54			
9000E 6250N	201	202	490	1	1.84	40	260	4	235	0.69	106	< 10	74			
9000E 6275N	201	202	900	4	0.77	107	1570	74	105	0.37	98	< 10	276			
9000E 6325N	201	202	585	< 1	1.83	62	190	14	165	0.59	83	< 10	68			
9000E 6350N	201	202	620	< 1	1.48	76	740	12	160	0.43	74	< 10	68			
9000E 6375N	201	202	985	3	1.45	63	430	14	141	0.47	85	< 10	76			
9000E 6400N	201	202	345	< 1	1.92	24	150	10	160	0.58	76	< 10	52			
9000E 6425N	201	202	735	1	1.60	73	670	24	146	0.50	93	< 10	152			
9000E 6450N	201	202	515	1	2.17	42	630	20	283	0.48	82	< 10	116			
9000E 6475N	201	202	620	1	1.40	67	560	12	118	0.79	141	< 10	90			
9000E 6500N	201	202	470	< 1	1.91	49	330	14	141	0.52	75	< 10	46			
9000E 6525N	201	202	595	1	1.89	77	940	18	157	0.39	56	< 10	50			
9000E 6550N	201	202	420	< 1	1.83	48	820	14	163	0.37	69	< 10	54			
9000E 6575N	201	202	420	< 1	1.95	41	630	16	164	0.38	77	< 10	52			
9000E 6600N	201	202	395	< 1	1.86	47	720	10	152	0.35	67	< 10	46			
9000E 6625N	201	202	595	< 1	1.97	47	330	12	197	0.45	89	< 10	60			
9000E 6650N	201	202	595	< 1	1.70	98	830	14	157	0.53	94	< 10	96			
9000E 6675N	201	202	340	1	1.82	82	370	10	128	0.44	72	< 10	60			
9000E 6700N	201	202	445	< 1	2.01	29	280	16	205	0.52	85	< 10	52			
9100E 7700N	201	202	250	2	1.92	24	520	2	200	0.25	101	< 10	40			
9100E 7725N	201	202	470	3	2.15	17	350	6	257	0.32	68	< 10	48			
9100E 7750N	201	202	395	5	2.29	27	460	2	234	0.27	114	< 10	72			
9100E 7775N	201	202	190	1	1.92	23	330	< 2	119	0.23	116	< 10	28			
9100E 7800N	201	202	300	3	1.58	31	700	< 2	134	0.23	129	< 10	42			
9100E 7825N	201	202	295	2	1.54	39	960	< 2	98	0.22	182	< 10	42			
9100E 7850N	201	202	405	2	1.68	29	730	< 2	245	0.17	80	< 10	42			
9100E 7875N	201	202	445	4	0.99	48	1500	< 2	148	0.17	63	< 10	58			
9100E 7900N	201	202	380	3	1.03	94	1050	< 2	231	0.14	85	< 10	182			
9100E 7925N	201	202	665	7	1.28	75	1260	< 2	197	0.24	84	< 10	74			
9100E 7950N	201	202	240	4	1.39	62	660	< 2	113	0.28	66	< 10	44			

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6407
Comments: ATTN:DAVID TERRY-VANCOUVER OFFICE

Page Number :2-A
Total Pages :5
Certificate Date: 21-AUG-97
Invoice No. :I9737062
P.O. Number :
Account :GP

CERTIFICATE OF ANALYSIS A9737062

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
9100E 7975N	201	202	< 5	< 0.2	5.27	860	2.0	< 2	2.31	2.5	4	34	212	1.61	1.37	0.79
9100E 8000N	201	202	< 5	0.4	4.39	770	1.5	< 2	2.15	1.0	5	18	197	1.35	1.12	0.45
9100E 8025N	201	202	< 5	< 0.2	4.73	800	1.5	< 2	2.16	3.5	4	24	170	1.36	1.28	0.58
9100E 8050N	201	202	< 5	0.4	3.93	980	2.0	< 2	1.92	7.0	5	60	291	1.67	0.96	0.86
9100E 8075N	201	202	< 5	< 0.2	3.57	890	1.5	< 2	2.47	5.0	4	45	189	1.20	0.95	0.82
9100E 8100N	201	202	< 5	< 0.2	3.71	730	0.5	< 2	2.38	0.5	1	21	77	0.95	1.00	0.43
9100E 8125N	201	202	< 5	< 0.2	4.34	940	2.0	< 2	2.07	0.5	2	70	224	1.48	0.80	1.07
9100E 8150N	201	202	< 5	< 0.2	5.24	1840	2.0	< 2	0.99	< 0.5	3	92	23	1.71	1.48	1.74
9100E 8175N	201	202	< 5	< 0.2	6.11	810	1.0	< 2	1.94	< 0.5	4	16	63	1.64	1.72	0.64
9100E 8200N	201	202	< 5	< 0.2	5.09	1190	1.5	< 2	0.96	5.0	1	118	162	1.26	1.27	0.54
9100E 8225N	201	202	< 25	< 0.2	4.32	1030	1.5	< 2	2.82	3.5	3	24	325	1.26	1.12	0.56
9100E 8250N	201	202	< 5	< 0.2	4.29	1210	2.0	< 2	2.41	5.5	10	47	391	2.27	1.30	1.41
9100E 8275N	201	202	< 5	< 0.2	3.97	1000	1.5	< 2	2.00	6.0	5	52	262	1.65	0.55	1.00
9100E 8300N	201	202	< 5	< 0.2	3.00	540	0.5	< 2	2.10	4.0	1	9	49	0.68	0.88	0.27
9100E 8325N	201	202	< 5	< 0.2	2.72	840	1.0	< 2	2.73	14.0	3	31	362	0.96	0.70	0.30
9100E 8350N	201	202	< 5	< 0.2	5.94	890	1.0	< 2	2.00	0.5	4	15	57	1.35	1.78	0.53
9100E 8375N	201	202	< 5	< 0.2	4.78	760	1.0	< 2	2.08	5.0	1	19	136	1.18	1.37	0.42
9100E 8400N	201	202	< 5	< 0.2	4.00	650	1.0	< 2	2.43	2.0	4	22	157	1.31	1.02	0.40
9100E 8425N	201	202	< 5	< 0.2	5.74	1380	2.0	< 2	0.85	< 0.5	< 1	78	19	1.14	2.04	0.45
9100E 8450N	201	202	< 5	< 0.2	5.29	1250	2.0	< 2	1.08	< 0.5	2	73	12	1.57	1.50	1.29
9100E 8475N	201	202	< 5	< 0.2	5.63	1790	1.5	< 2	0.91	0.5	2	71	21	1.57	1.86	1.16
9100E 8500N	201	202	< 5	< 0.2	5.21	1740	2.0	< 2	1.14	< 0.5	4	79	17	1.69	1.64	1.29
9100E 8525N	201	202	< 5	< 0.2	4.62	1250	1.5	< 2	1.68	0.5	2	56	19	1.43	1.28	1.14
9100E 8550N	201	202	< 5	0.4	6.13	810	1.0	< 2	1.88	2.0	7	17	55	1.49	1.73	0.59
9100E 8575N	201	202	< 5	6.2	6.98	1260	2.5	< 2	0.78	2.0	100	81	300	4.16	1.75	0.84
9100E 8600N	201	202	< 5	1.6	5.74	1170	1.5	< 2	1.20	3.0	15	65	78	1.89	1.60	0.73
9200E 5900N	201	202	< 5	< 0.2	5.41	610	3.0	< 2	2.48	< 0.5	8	52	59	3.50	2.21	1.29
9200E 5925N	201	202	< 5	< 0.2	6.27	860	2.5	< 2	1.65	< 0.5	8	64	18	3.17	2.90	1.33
9200E 5950N	201	202	< 5	< 0.2	6.55	890	3.0	< 2	1.60	< 0.5	9	69	19	3.43	2.95	1.41
9200E 6000N	201	202	< 5	< 0.2	5.19	670	1.5	< 2	2.51	< 0.5	4	32	42	1.90	1.71	0.68
9200E 6025N	201	202	< 5	< 0.2	5.75	830	2.0	< 2	2.07	0.5	7	50	36	2.68	2.31	1.13
9200E 6050N	201	202	< 5	< 0.2	6.10	790	3.0	< 2	1.91	0.5	10	70	39	2.87	2.26	1.30
9200E 6075N	201	202	< 5	< 0.2	6.26	900	2.5	< 2	1.59	< 0.5	6	58	8	3.19	2.84	1.38
9200E 6100N	201	202	< 5	< 0.2	4.28	690	1.5	< 2	2.94	2.0	3	22	31	1.35	1.62	0.67
9200E 6125N	201	202	< 5	< 0.2	7.29	1470	2.5	< 2	0.80	0.5	3	59	12	3.04	3.15	0.93
9200E 6150N	201	202	< 5	< 0.2	7.45	1220	2.5	< 2	0.71	< 0.5	3	44	15	3.36	3.18	1.01
9200E 6175N	201	202	< 5	< 0.2	6.99	1040	2.0	< 2	0.75	< 0.5	1	34	11	2.84	2.62	0.71
9200E 6200N	201	202	< 5	< 0.2	6.09	920	2.0	< 2	0.69	< 0.5	< 1	61	5	2.10	2.37	0.58
9200E 6225N	201	202	< 5	< 0.2	7.85	1280	3.5	< 2	0.44	< 0.5	3	52	10	3.57	3.35	1.08
9200E 6250N	201	202	< 5	< 0.2	7.49	1200	2.0	< 2	0.69	< 0.5	7	40	11	3.40	2.65	0.84

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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9100E 7975N	201	202	370	7	1.87	124	1130	6	364	0.20	75	< 10	136			
9100E 8000N	201	202	520	7	1.54	101	1480	6	343	0.15	56	< 10	96			
9100E 8025N	201	202	290	6	1.63	126	1260	4	354	0.15	79	< 10	160			
9100E 8050N	201	202	330	11	0.94	178	1710	10	169	0.15	182	< 10	266			
9100E 8075N	201	202	275	7	0.92	153	1300	6	201	0.13	108	< 10	202			
9100E 8100N	201	202	150	3	1.36	85	910	2	305	0.13	48	< 10	74			
9100E 8125N	201	202	140	9	1.44	167	1380	4	148	0.22	109	< 10	96			
9100E 8150N	201	202	185	11	1.38	41	1230	< 2	97	0.27	268	< 10	80			
9100E 8175N	201	202	345	7	2.45	58	760	6	503	0.20	53	< 10	72			
9100E 8200N	201	202	120	14	1.27	93	470	14	159	0.27	302	< 10	92			
9100E 8225N	201	202	260	3	1.36	261	1010	2	337	0.13	75	< 10	172			
9100E 8250N	201	202	275	14	0.84	282	1170	< 2	175	0.17	95	< 10	266			
9100E 8275N	201	202	205	21	0.64	281	1030	10	126	0.11	100	< 10	340			
9100E 8300N	201	202	135	32	1.18	54	450	< 2	279	0.09	20	< 10	170			
9100E 8325N	201	202	245	5	0.64	213	1300	2	205	0.12	43	< 10	388			
9100E 8350N	201	202	315	6	2.29	38	800	< 2	447	0.16	58	< 10	106			
9100E 8375N	201	202	205	2	1.79	65	760	4	384	0.15	46	< 10	70			
9100E 8400N	201	202	475	6	1.33	87	1480	6	307	0.12	55	< 10	110			
9100E 8425N	201	202	210	7	1.67	19	170	6	201	0.34	136	< 10	48			
9100E 8450N	201	202	205	4	1.84	26	490	4	146	0.29	150	< 10	66			
9100E 8475N	201	202	170	5	1.37	26	1460	4	190	0.22	228	< 10	86			
9100E 8500N	201	202	195	9	1.23	32	1900	2	161	0.23	298	< 10	106			
9100E 8525N	201	202	230	10	1.27	29	1590	2	181	0.19	130	< 10	114			
9100E 8550N	201	202	465	6	2.38	63	1390	8	505	0.19	49	< 10	230			
9100E 8575N	201	202	1660	72	1.15	112	3180	82	219	0.19	230	< 10	550			
9100E 8600N	201	202	875	12	1.38	39	2190	18	243	0.18	153	< 10	184			
9200E 5900N	201	202	615	1	1.07	30	1180	20	162	0.38	81	< 10	190			
9200E 5925N	201	202	605	3	1.39	21	620	14	133	0.45	80	< 10	82			
9200E 5950N	201	202	670	2	1.59	27	500	16	134	0.47	93	< 10	94			
9200E 6000N	201	202	495	1	1.63	29	1030	8	336	0.22	45	< 10	312			
9200E 6025N	201	202	995	1	1.42	27	820	10	155	0.48	80	< 10	134			
9200E 6050N	201	202	1080	< 1	1.54	39	770	12	159	0.41	81	< 10	178			
9200E 6075N	201	202	455	2	1.61	15	830	16	133	0.48	84	< 10	390			
9200E 6100N	201	202	245	1	1.22	10	930	8	224	0.16	25	< 10	322			
9200E 6125N	201	202	560	< 1	1.63	12	470	32	188	0.52	85	< 10	238			
9200E 6150N	201	202	745	3	2.02	12	410	20	177	0.59	77	< 10	130			
9200E 6175N	201	202	510	1	2.34	8	360	16	234	0.51	68	< 10	74			
9200E 6200N	201	202	260	1	1.83	11	100	18	128	0.49	81	< 10	38			
9200E 6225N	201	202	390	1	1.98	14	220	38	100	0.48	73	< 10	94			
9200E 6250N	201	202	685	1	2.29	10	270	32	251	0.48	103	< 10	110			

CERTIFICATION:

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9200E 6275N	201	202	< 5	< 0.2	7.71	1230	2.5	< 2	0.39	< 0.5	1	54	9	2.85	3.08	1.06
9200E 6300N	201	202	< 5	< 0.2	8.01	1150	2.0	< 2	0.35	< 0.5	< 1	40	5	3.03	2.62	0.91
9200E 6325N	201	202	< 5	< 0.2	7.78	1110	2.5	< 2	0.35	< 0.5	6	43	16	4.24	2.65	1.13
9200E 6350N	201	202	< 5	< 0.2	6.90	980	2.0	< 2	0.54	< 0.5	2	65	44	4.79	2.31	0.93
9200E 6375N	201	202	< 5	< 0.2	7.48	1070	1.5	< 2	1.52	< 0.5	2	24	20	1.62	2.56	0.53
9200E 6400N	201	202	< 5	< 0.2	6.95	1080	2.5	< 2	0.76	< 0.5	5	55	38	2.79	2.40	1.06
9200E 6425N	201	202	< 5	< 0.2	8.04	1400	3.5	< 2	0.79	< 0.5	8	63	65	3.82	3.86	1.63
9200E 6450N	201	202	< 5	< 0.2	5.41	810	3.0	< 2	1.83	2.0	8	137	42	2.75	1.82	0.98
9200E 6475N	201	202	< 5	< 0.2	6.15	930	3.5	< 2	1.39	< 0.5	8	98	15	2.96	2.17	1.13
9200E 6500N	201	202	< 5	< 0.2	7.85	1590	3.0	< 2	0.89	< 0.5	10	81	53	4.06	3.11	2.18
9200E 6525N	201	202	< 5	< 0.2	9.41	2260	3.0	< 2	1.63	< 0.5	11	94	34	4.60	3.26	3.34
9200E 6550N	201	202	< 5	< 0.2	5.89	810	2.5	< 2	1.68	< 0.5	6	116	12	2.15	1.97	0.91
9200E 6625N	201	202	< 5	< 0.2	6.54	930	3.5	< 2	1.42	< 0.5	6	84	19	2.93	2.44	1.23
9200E 6675N	201	202	< 5	< 0.2	7.05	1140	3.0	< 2	1.46	< 0.5	6	67	30	3.19	2.75	1.54
9200E 6700N	201	202	< 5	< 0.2	5.93	820	2.5	< 2	2.37	< 0.5	6	52	33	2.00	1.94	0.93
9200E 7700N	201	202	< 5	< 0.2	9.56	1340	5.5	< 2	1.00	< 0.5	1	6	8	6.00	3.99	3.58
9200E 7725N	201	202	< 5	< 0.2	5.70	980	3.5	< 2	1.27	< 0.5	6	92	41	2.41	1.81	1.03
9200E 7750N	201	202	< 5	< 0.2	6.66	870	1.0	< 2	1.85	< 0.5	4	13	20	1.36	2.06	0.50
9200E 7775N	201	202	< 5	< 0.2	4.60	870	2.0	< 2	2.45	0.5	5	38	35	1.64	1.31	0.70
9200E 7800N	201	202	< 5	< 0.2	4.86	860	2.0	< 2	2.18	0.5	10	65	94	2.06	1.13	1.70
9200E 7825N	201	202	< 5	< 0.2	5.17	920	2.0	< 2	1.43	0.5	2	82	35	1.37	1.78	0.70
9200E 7850N	201	202	< 5	< 0.2	3.92	790	2.0	< 2	2.81	4.0	4	33	155	1.27	1.04	0.59
9200E 7875N	201	202	< 5	0.4	3.06	720	2.0	< 2	2.55	2.5	4	54	207	1.60	0.78	0.75
9200E 7900N	201	202	< 5	< 0.2	3.12	720	1.5	< 2	2.42	6.5	3	29	357	1.17	0.69	0.57
9200E 7925N	201	202	< 5	< 0.2	3.25	770	1.5	< 2	2.50	6.0	3	41	150	1.32	0.60	1.27
9200E 7950N	201	202	< 5	< 0.2	4.67	1900	1.5	< 2	1.56	1.0	6	56	123	1.92	1.27	1.15
9200E 7975N	201	202	< 5	< 0.2	3.37	670	0.5	< 2	2.81	4.5	3	11	129	0.85	0.91	0.37
9200E 8000N	201	202	< 5	< 0.2	1.27	540	0.5	< 2	3.42	8.5	1	9	199	0.51	0.24	0.27
9200E 8025N	201	202	10	< 0.2	5.30	860	1.5	< 2	2.37	1.5	3	20	187	1.36	1.53	0.63
9200E 8050N	201	202	< 5	< 0.2	4.47	1180	1.5	< 2	2.41	9.5	7	81	355	1.69	1.27	1.18
9200E 8075N	201	202	< 5	< 0.2	5.86	2040	2.5	< 2	0.70	1.5	6	71	69	2.07	1.88	1.84
9200E 8100N	201	202	< 5	< 0.2	6.00	880	1.5	< 2	1.57	1.5	2	14	51	1.31	1.86	0.53
9200E 8125N	201	202	< 5	< 0.2	3.90	550	0.5	< 2	1.86	6.5	3	56	228	1.58	0.55	3.04
9200E 8150N	201	202	< 5	1.0	2.68	480	0.5	< 2	2.06	7.5	3	11	204	1.05	0.69	0.34
9200E 8175N	201	202	< 5	1.0	2.05	570	0.5	< 2	2.01	3.5	11	20	120	1.50	0.52	0.37
9200E 8200N	201	202	< 5	1.4	1.98	440	0.5	< 2	2.65	2.5	13	11	124	1.61	0.48	0.27
9200E 8225N	201	202	< 5	< 0.2	2.65	970	1.0	< 2	3.55	7.5	3	26	217	1.04	0.73	0.66
9200E 8325N	201	202	< 5	< 0.2	5.53	950	1.5	< 2	2.41	4.0	17	23	135	1.85	1.42	0.90
9200E 8350N	201	202	< 5	< 0.2	4.97	1480	2.0	< 2	2.46	2.5	5	77	159	2.00	1.56	1.39
9200E 8375N	201	202	< 5	< 0.2	4.74	1250	1.5	< 2	2.55	3.0	7	61	135	1.91	1.34	1.03

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6407
Comments: ATTN:DAVID TERRY-VANCOUVER OFFICE

Page Number :3-B
Total Pages :5
Certificate Date: 21-AUG-97
Invoice No. : I9737062
P.O. Number :
Account :GP

CERTIFICATE OF ANALYSIS A9737062

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
9200E 6275N	201	202	395	1	2.35	12	180	24	99	0.49	79	< 10	106
9200E 6300N	201	202	320	1	3.03	10	200	24	100	0.47	71	< 10	78
9200E 6325N	201	202	440	2	2.36	16	370	26	98	0.44	72	< 10	150
9200E 6350N	201	202	320	3	2.05	21	660	48	96	0.41	82	< 10	176
9200E 6375N	201	202	350	< 1	3.06	3	400	22	575	0.19	52	< 10	56
9200E 6400N	201	202	405	1	1.92	23	850	134	136	0.37	71	< 10	450
9200E 6425N	201	202	625	4	1.84	29	1010	112	102	0.49	89	< 10	302
9200E 6450N	201	202	1365	1	1.67	54	1140	38	179	0.38	61	< 10	238
9200E 6475N	201	202	490	1	1.95	49	1080	18	172	0.38	72	< 10	214
9200E 6500N	201	202	510	1	1.38	38	1070	116	110	0.48	99	< 10	512
9200E 6525N	201	202	935	< 1	1.17	35	950	30	185	0.45	114	< 10	234
9200E 6550N	201	202	655	< 1	2.13	44	1210	14	280	0.39	55	< 10	222
9200E 6625N	201	202	410	13	1.96	33	870	28	164	0.40	76	< 10	108
9200E 6675N	201	202	455	16	1.90	34	1030	88	172	0.39	95	< 10	232
9200E 6700N	201	202	700	13	1.94	48	940	28	342	0.24	68	< 10	94
9200E 7700N	201	202	1895	8	0.54	26	410	2	112	0.22	176	< 10	68
9200E 7725N	201	202	240	4	1.52	61	1120	12	123	0.24	184	< 10	50
9200E 7750N	201	202	410	3	2.80	11	440	14	546	0.18	36	< 10	44
9200E 7775N	201	202	470	4	1.40	41	1290	4	247	0.17	70	< 10	38
9200E 7800N	201	202	285	4	1.14	118	1020	2	172	0.18	136	< 10	114
9200E 7825N	201	202	310	4	1.74	26	360	10	178	0.33	89	< 10	48
9200E 7850N	201	202	415	4	1.17	92	1170	< 2	277	0.12	77	< 10	146
9200E 7875N	201	202	215	7	0.51	157	1310	2	146	0.12	109	< 10	250
9200E 7900N	201	202	375	6	0.84	243	1170	2	217	0.10	65	< 10	188
9200E 7925N	201	202	430	5	1.00	96	1520	< 2	141	0.15	67	< 10	138
9200E 7950N	201	202	295	16	1.23	110	1130	< 2	200	0.20	175	< 10	142
9200E 7975N	201	202	235	3	1.20	109	650	< 2	322	0.10	27	< 10	106
9200E 8000N	201	202	390	7	0.27	189	1080	2	170	0.03	22	< 10	238
9200E 8025N	201	202	270	4	1.97	120	1350	< 2	421	0.15	63	< 10	126
9200E 8050N	201	202	355	7	0.72	274	1410	6	184	0.17	250	< 10	384
9200E 8075N	201	202	130	8	0.90	53	800	< 2	58	0.18	81	< 10	110
9200E 8100N	201	202	270	3	2.36	24	360	4	489	0.18	51	< 10	60
9200E 8125N	201	202	195	3	0.96	200	830	4	108	0.19	69	< 10	264
9200E 8150N	201	202	345	8	0.88	156	990	8	240	0.08	31	< 10	186
9200E 8175N	201	202	765	28	0.44	139	1840	18	163	0.06	68	< 10	90
9200E 8200N	201	202	670	26	0.54	166	1620	26	196	0.05	49	< 10	98
9200E 8225N	201	202	250	6	0.45	264	1400	< 2	189	0.08	88	< 10	326
9200E 8325N	201	202	1125	25	1.85	120	1090	2	401	0.17	48	< 10	228
9200E 8350N	201	202	295	8	0.80	123	1350	4	170	0.19	242	< 10	294
9200E 8375N	201	202	555	9	0.82	120	1360	4	194	0.16	175	< 10	308

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6407
Comments: ATTN:DAVID TERRY-VANCOUVER OFFICE

Certificate Date: 21-AUG-97
Invoice No. : I9737062
P.O. Number :
Account : GP

CERTIFICATE OF ANALYSIS A9737062

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
9200E 8400N	201	202	< 5	< 0.2	5.42	730	1.0	< 2	2.38	1.5	3	15	50	1.44	1.48	0.70
9200E 8425N	201	202	< 5	< 0.2	5.97	1200	1.5	< 2	1.03	0.5	1	43	16	1.14	1.87	0.58
9200E 8450N	201	202	< 5	< 0.2	6.20	1830	2.0	< 2	0.68	< 0.5	< 1	68	11	0.87	2.31	0.47
9200E 8475N	201	202	< 5	< 0.2	6.90	1610	2.0	< 2	0.85	< 0.5	< 1	60	12	0.94	2.70	0.47
9200E 8500N	201	202	< 5	< 0.2	6.57	1790	2.0	< 2	0.98	1.5	1	76	35	1.59	2.30	0.81
9200E 8525N	201	202	< 5	0.4	5.10	1460	2.0	< 2	0.68	1.0	5	81	34	1.70	1.69	0.83
9200E 8550N	201	202	< 5	1.0	6.04	1450	2.0	< 2	0.90	2.0	18	74	58	2.58	1.78	0.90
9200E 8575N	201	202	< 5	< 0.2	4.97	1090	2.0	< 2	1.96	12.0	7	52	127	2.09	1.42	1.05
9200E 8600N	201	202	< 5	< 0.2	3.35	760	1.5	< 2	2.90	7.0	6	27	117	1.20	1.03	0.74
9300E 7700N	201	202	< 5	< 0.2	5.31	860	2.0	< 2	0.93	< 0.5	< 1	53	5	0.85	2.04	0.37
9300E 7725N	201	202	< 5	< 0.2	5.51	1020	2.5	< 2	1.84	< 0.5	8	68	51	2.17	1.62	0.99
9300E 7750N	201	202	< 5	< 0.2	4.57	790	1.5	< 2	2.61	0.5	4	50	44	1.56	1.19	1.13
9300E 7775N	201	202	< 5	< 0.2	4.11	870	2.0	< 2	2.68	2.5	6	58	128	1.67	1.10	0.98
9300E 7800N	201	202	< 5	< 0.2	5.09	1000	2.0	< 2	2.76	1.5	5	59	227	1.87	1.44	1.02
9300E 7825N	201	202	< 5	< 0.2	4.82	1040	2.0	< 2	2.47	1.5	6	64	144	1.82	1.36	1.17
9300E 7850N	201	202	< 5	< 0.2	4.51	750	1.0	< 2	2.73	0.5	2	14	78	1.09	1.29	0.49
9300E 7875N	201	202	< 5	< 0.2	5.25	1470	1.5	< 2	0.74	< 0.5	< 1	60	12	0.97	1.28	0.60
9300E 7900N	201	202	< 5	< 0.2	7.19	1220	1.5	< 2	1.70	< 0.5	2	10	19	1.54	2.30	0.57
9300E 7925N	201	202	< 5	< 0.2	1.53	430	0.5	< 2	1.46	3.0	< 1	14	63	0.41	0.31	0.13
9300E 7950N	201	202	< 5	< 0.2	5.05	1540	2.0	< 2	2.21	2.0	7	59	113	2.13	1.24	2.52
9300E 7975N	201	202	< 5	< 0.2	5.61	800	1.0	< 2	2.32	1.0	3	12	98	1.36	1.62	0.57
9300E 8000N	201	202	< 5	< 0.2	6.28	950	1.5	< 2	2.36	1.0	5	22	121	1.86	1.71	0.83
9300E 8025N	201	202	< 5	< 0.2	4.67	790	1.0	< 2	2.76	3.0	1	11	170	1.11	1.38	0.53
9300E 8050N	201	202	< 5	1.0	3.68	900	1.5	< 2	2.41	6.5	9	46	332	1.68	1.00	0.69
9300E 8075N	201	202	< 5	< 0.2	6.36	840	1.0	< 2	1.95	0.5	2	9	64	1.34	1.91	0.53
9300E 8100N	201	202	< 5	< 0.2	5.30	850	2.0	< 2	0.76	0.5	3	74	34	1.58	1.51	1.15
9300E 8125N	201	202	< 5	< 0.2	4.03	680	1.5	< 2	1.59	3.5	1	16	99	1.12	1.11	0.40
9300E 8150N	201	202	< 5	< 0.2	4.58	720	1.5	< 2	2.00	4.0	6	26	240	1.37	1.21	0.64
9300E 8175N	201	202	< 5	< 0.2	5.33	690	1.0	< 2	1.57	1.0	3	7	37	1.22	1.61	0.44
9300E 8200N	201	202	< 5	< 0.2	5.11	1180	2.0	< 2	1.00	1.0	3	69	34	1.83	1.38	1.62
9300E 8225N	201	202	< 5	< 0.2	5.23	1610	2.0	< 2	1.05	< 0.5	3	82	22	2.13	1.80	2.35
9300E 8250N	201	202	< 5	< 0.2	5.11	1670	2.0	< 2	0.97	0.5	3	80	61	1.90	1.93	1.34
9300E 8275N	201	202	< 5	< 0.2	1.95	740	0.5	< 2	3.36	6.0	1	16	391	0.76	0.48	0.27
9300E 8300N	201	202	< 5	< 0.2	3.68	810	1.0	< 2	2.66	5.0	4	24	247	1.17	1.02	0.58
9300E 8325N	201	202	< 5	< 0.2	3.63	920	1.5	< 2	2.72	6.5	3	33	267	1.41	1.07	0.77
9300E 8350N	201	202	< 5	< 0.2	5.34	1440	2.0	< 2	1.10	0.5	6	88	48	2.10	1.94	1.66
9300E 8375N	201	202	< 5	< 0.2	3.89	950	1.0	< 2	2.61	3.5	5	31	128	1.39	1.13	0.82
9300E 8400N	201	202	< 5	< 0.2	3.50	800	1.0	< 2	3.03	3.5	22	33	126	1.35	0.97	0.63
9300E 8425N	201	202	< 5	< 0.2	3.49	830	1.5	< 2	0.98	1.5	3	57	58	1.49	1.03	0.85
9300E 8450N	201	202	< 5	< 0.2	4.43	1290	2.0	< 2	1.31	0.5	4	86	36	2.06	1.35	1.25

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9200E 8400N	201	202	435	5	2.02	32	770	2	463	0.18	55	< 10	100			
9200E 8425N	201	202	225	3	2.26	15	560	2	297	0.27	104	< 10	68			
9200E 8450N	201	202	140	5	1.69	8	160	6	197	0.27	280	< 10	42			
9200E 8475N	201	202	205	3	1.79	4	280	2	302	0.29	184	< 10	32			
9200E 8500N	201	202	225	6	1.58	26	1150	10	268	0.21	250	< 10	96			
9200E 8525N	201	202	220	13	1.04	43	1710	20	100	0.20	277	< 10	238			
9200E 8550N	201	202	750	22	1.35	48	2170	16	172	0.20	207	< 10	226			
9200E 8575N	201	202	935	7	0.98	129	1220	2	176	0.15	131	< 10	428			
9200E 8600N	201	202	470	3	0.63	92	1090	< 2	175	0.10	42	< 10	222			
9300E 7700N	201	202	210	< 1	2.07	8	70	10	187	0.32	55	< 10	20			
9300E 7725N	201	202	950	6	1.50	65	1220	12	204	0.23	115	< 10	54			
9300E 7750N	201	202	315	2	1.38	46	1090	2	214	0.19	123	< 10	78			
9300E 7775N	201	202	475	4	1.03	102	1240	6	160	0.17	143	< 10	176			
9300E 7800N	201	202	320	4	1.37	152	1270	6	280	0.17	188	< 10	204			
9300E 7825N	201	202	410	5	1.35	88	1240	4	205	0.19	187	< 10	106			
9300E 7850N	201	202	300	2	1.77	46	630	2	401	0.14	48	< 10	48			
9300E 7875N	201	202	165	3	2.19	20	250	4	205	0.27	176	< 10	36			
9300E 7900N	201	202	350	4	3.05	6	260	6	613	0.21	62	< 10	52			
9300E 7925N	201	202	35	4	0.30	48	550	< 2	112	0.06	30	< 10	76			
9300E 7950N	201	202	290	7	1.35	87	770	< 2	159	0.26	96	< 10	110			
9300E 7975N	201	202	370	5	2.19	59	800	4	481	0.17	49	< 10	80			
9300E 8000N	201	202	365	6	2.31	78	1050	4	517	0.22	97	< 10	98			
9300E 8025N	201	202	295	4	1.82	142	640	2	418	0.14	42	< 10	124			
9300E 8050N	201	202	820	13	0.82	226	1840	10	222	0.11	153	< 10	212			
9300E 8075N	201	202	300	4	2.66	24	530	6	557	0.19	40	< 10	48			
9300E 8100N	201	202	200	8	1.39	36	330	6	96	0.27	91	< 10	68			
9300E 8125N	201	202	165	2	1.40	48	760	2	319	0.14	32	< 10	44			
9300E 8150N	201	202	750	14	1.73	108	1470	< 2	332	0.15	88	< 10	138			
9300E 8175N	201	202	280	5	2.19	26	580	2	460	0.15	29	< 10	54			
9300E 8200N	201	202	165	10	1.18	40	1050	< 2	141	0.25	176	< 10	98			
9300E 8225N	201	202	170	8	0.96	33	890	4	83	0.28	193	< 10	78			
9300E 8250N	201	202	170	9	0.87	63	1870	6	101	0.23	246	< 10	98			
9300E 8275N	201	202	255	5	0.46	301	1200	4	202	0.07	26	< 10	142			
9300E 8300N	201	202	275	4	1.18	244	920	4	281	0.13	64	< 10	180			
9300E 8325N	201	202	245	7	0.87	296	1470	6	225	0.13	95	< 10	322			
9300E 8350N	201	202	265	12	1.11	76	1470	8	129	0.27	255	< 10	188			
9300E 8375N	201	202	325	6	0.98	136	1570	4	259	0.14	75	< 10	302			
9300E 8400N	201	202	965	10	0.99	109	920	6	290	0.13	129	< 10	224			
9300E 8425N	201	202	215	6	0.96	51	1580	8	100	0.17	158	< 10	182			
9300E 8450N	201	202	300	10	0.91	55	1830	6	128	0.20	351	< 10	164			

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6407
Comments: ATTN:DAVID TERRY-VANCOUVER OFFICE

Certificate Date: 21-AUG-97
Invoice No. : I9737062
P.O. Number :
Account : GP

CERTIFICATE OF ANALYSIS A9737062

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
9300E 8475N	201	202	< 5	< 0.2	6.45	1990	2.5	< 2	0.49	< 0.5	< 1	89	16	1.32	2.32	0.50
9300E 8500N	201	202	< 5	1.0	8.18	2090	3.0	< 2	1.01	< 0.5	< 1	75	13	1.54	3.18	0.59
9300E 8525N	201	202	< 5	< 0.2	5.22	1440	2.0	< 2	0.70	< 0.5	< 1	79	9	1.12	1.86	0.58
9300E 8550N	201	202	< 5	0.4	6.82	2160	2.5	< 2	0.79	0.5	2	103	29	2.12	2.46	1.04
9300E 8575N	201	202	< 5	1.2	5.57	1510	2.0	< 2	0.93	3.0	9	77	69	2.01	1.75	0.84
9300E 8600N	201	202	< 5	1.8	5.57	1430	2.0	< 2	0.80	2.5	35	71	67	3.11	1.61	0.75

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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To: WESTMIN RESOURCES LTD.

P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : 6407
Comments: ATTN:DAVID TERRY-VANCOUVER OFFICE

Certificate Date: 21-AUG-97
Invoice No. : I9737062
P.O. Number :
Account : GP

CERTIFICATE OF ANALYSIS A9737062

SAMPLE	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
9300E 8475N	201	202	135	11	1.38	16	420	18	161	0.28	334	< 10	90			
9300E 8500N	201	202	245	9	1.96	6	410	30	405	0.28	355	< 10	98			
9300E 8525N	201	202	160	5	1.43	14	330	22	122	0.30	228	< 10	46			
9300E 8550N	201	202	265	13	1.21	33	1320	18	201	0.25	339	< 10	128			
9300E 8575N	201	202	305	14	1.08	70	1910	26	181	0.18	273	< 10	292			
9300E 8600N	201	202	980	49	1.12	52	2310	20	164	0.17	228	< 10	246			

CERTIFICATION: Ian R Bickle

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9745453

Comments: ATTN: ANDREW TURNER

CERTIFICATE A9745453

(GP W) - WESTMIN RESOURCES LTD.

Project: ON
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 11-OCT-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	4	Geochem ring to approx 150 mesh
226	4	0-3 Kg crush and split
3202	4	Rock - save entire reject
200	4	Whole rock fusion

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
594	4	Al2O3 %: Whole rock	ICP-AES	0.01	100.00
588	4	CaO %: Whole rock	ICP-AES	0.01	100.00
590	4	Cr2O3 %: Whole Rock	ICP-AES	0.01	100.00
586	4	Fe2O3(total) %: Whole rock	ICP-AES	0.01	100.00
821	4	K2O %: Whole rock	ICP-AES	0.01	100.00
593	4	MgO %: Whole rock	ICP-AES	0.01	100.00
596	4	MnO %: Whole rock	ICP-AES	0.01	100.00
599	4	Na2O %: Whole rock	ICP-AES	0.01	100.00
597	4	P2O5 %: Whole rock	ICP-AES	0.01	100.00
592	4	SiO2 %: Whole rock	ICP-AES	0.01	100.00
595	4	TiO2 %: Whole rock	ICP-AES	0.01	100.00
475	4	L.O.I. %: @ 1000 deg.C	FURNACE	0.01	99.99
540	4	Total %	CALCULATION	0.01	105.00

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : ON
Comments: ATTN: ANDREW TURNER

Certificate Date: 11-OCT-97
Invoice No. : I9745453
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9745453

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %	
203955	205	226	9.90	0.34	0.03	3.73	2.50	0.61	0.01	0.42	0.09	77.85	0.48	3.96	99.92	
203970	205	226	6.86	0.69	0.03	1.85	1.86	0.29	< 0.01	0.22	0.30	85.00	0.31	1.87	99.28	
203988	205	226	16.83	4.70	0.03	8.60	3.76	5.64	0.13	0.20	0.47	47.60	1.22	11.19	100.35	
203998	205	226	2.19	1.02	0.05	1.04	0.73	0.43	0.01	0.08	0.03	92.65	0.15	1.50	99.88	

CERTIFICATION: Jan Buchholz

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9745454

Comments: ATTN: ANDREW TURNER

CERTIFICATE A9745454

(GP W) - WESTMIN RESOURCES LTD.

Project: ON
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 11-OCT-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	73	Geochem ring to approx 150 mesh
226	73	0-3 Kg crush and split
3202	73	Rock - save entire reject
285	73	ICP - HF digestion charge
287	73	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	73	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	73	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	73	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	73	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	73	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	73	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	73	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	73	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	73	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	73	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	73	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	73	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	73	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	73	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	73	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	73	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	73	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	73	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	73	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	73	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	73	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	73	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	73	Pb ppm: 24 element, rock & core	AAS	2	10000
582	73	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	73	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	73	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	73	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	73	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : ON
Comments: ATTN: ANDREW TURNER

Page Number :1-A
Total Pages :2
Certificate Date: 11-OCT-97
Invoice No. :I9745454
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9745454

SAMPLE	PREP CODE		Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
204370	205	226	< 5	4	< 0.2	< 10	< 0.2	3.56	1660	1.5	< 2	0.02	< 0.5	< 1	238	19
204371	205	226	< 5	2	< 0.2	< 10	< 0.2	3.46	1560	1.5	< 2	0.02	< 0.5	< 1	241	19
204372	205	226	< 5	16	< 0.2	< 10	< 0.2	3.38	1400	1.5	< 2	0.03	< 0.5	< 1	189	39
204373	205	226	< 5	12	< 0.2	< 10	< 0.2	4.13	640	2.0	< 2	0.03	< 0.5	4	242	105
204374	205	226	< 5	4	< 0.2	< 10	< 0.2	3.75	270	1.5	< 2	0.04	0.5	7	188	133
204375	205	226	< 5	10	< 0.2	< 10	< 0.2	3.39	900	1.5	2	0.12	1.0	3	202	94
204376	205	226	< 5	10	< 0.2	< 10	< 0.2	3.05	940	1.5	< 2	0.15	1.5	4	230	113
204377	205	226	25	2	< 0.2	< 10	< 0.2	3.68	1310	1.5	< 2	0.06	5.0	7	185	128
204378	205	226	< 5	8	< 0.2	< 10	< 0.2	3.10	680	1.5	< 2	0.12	0.5	3	186	86
204379	205	226	< 5	16	< 0.2	< 10	< 0.2	6.15	1050	2.5	2	0.06	0.5	2	235	168
204380	205	226	< 5	4	0.2	< 10	< 0.2	4.52	1570	2.0	< 2	0.09	2.5	1	231	105
204381	205	226	< 5	24	< 0.2	< 10	< 0.2	2.31	460	1.5	< 2	0.22	2.5	6	182	81
204382	205	226	< 5	30	< 0.2	< 10	< 0.2	2.93	180	1.5	< 2	0.20	7.0	9	173	142
204383	205	226	< 5	74	< 0.2	< 10	< 0.2	2.39	180	1.5	< 2	0.17	7.0	5	228	172
204384	205	226	< 5	40	< 0.2	< 10	1.2	2.57	440	1.5	< 2	0.21	6.5	6	199	131
204385	205	226	< 5	12	< 0.2	< 10	< 0.2	5.11	140	2.5	< 2	0.10	1.5	8	265	109
204386	205	226	< 5	16	< 0.2	< 10	< 0.2	5.02	200	2.5	< 2	0.19	12.5	8	208	94
204387	205	226	< 5	4	< 0.2	< 10	< 0.2	5.47	220	3.0	2	0.11	21.0	9	201	272
204388	205	226	< 5	2	< 0.2	< 10	< 0.2	4.32	240	2.5	< 2	0.14	12.0	12	178	90
204389	205	226	< 5	1	0.2	< 10	< 0.2	4.64	170	2.0	< 2	0.09	17.0	10	197	69
204390	205	226	< 5	2	0.4	< 10	< 0.2	5.56	170	2.5	< 2	0.16	4.5	12	187	64
204391	205	226	< 5	10	0.2	< 10	0.2	5.70	270	2.5	2	0.15	9.0	12	176	67
204392	205	226	< 5	8	< 0.2	< 10	< 0.2	5.22	180	2.0	< 2	0.29	8.0	10	142	52
204393	205	226	< 5	6	< 0.2	< 10	< 0.2	4.15	130	1.5	< 2	0.49	4.0	11	187	74
204394	205	226	< 5	2	< 0.2	< 10	< 0.2	4.06	110	2.0	2	0.32	7.5	12	156	97
204395	205	226	< 5	2	< 0.2	< 10	< 0.2	3.97	190	2.0	< 2	0.48	2.5	9	151	79
204396	205	226	< 5	1	< 0.2	< 10	< 0.2	5.51	170	2.5	< 2	0.25	1.5	13	145	107
204397	205	226	< 5	2	< 0.2	< 10	< 0.2	4.06	130	2.0	< 2	0.16	8.0	10	205	63
204398	205	226	< 5	2	< 0.2	< 10	1.2	4.17	200	2.0	< 2	0.25	7.5	13	171	100
204399	205	226	< 5	4	< 0.2	< 10	< 0.2	3.38	190	2.0	< 2	0.44	10.0	11	154	79
204400	205	226	< 5	2	< 0.2	< 10	< 0.2	3.71	210	2.0	< 2	0.39	10.0	14	166	78
204401	205	226	< 5	2	< 0.2	< 10	< 0.2	5.68	210	2.5	2	0.20	10.5	12	164	71
204402	205	226	< 5	4	< 0.2	< 10	< 0.2	4.05	110	2.0	< 2	0.26	3.0	11	157	115
204403	205	226	< 5	2	< 0.2	< 10	< 0.2	4.79	130	2.0	2	0.19	7.0	10	210	79
204404	205	226	< 5	4	< 0.2	< 10	< 0.2	5.21	140	2.0	< 2	0.17	7.5	8	179	59
204405	205	226	< 5	42	2.6	< 10	< 0.2	4.95	130	2.5	< 2	0.20	4.5	9	245	57
204406	205	226	< 5	72	1.2	< 10	< 0.2	5.20	140	2.5	2	0.17	8.0	11	272	72
204407	205	226	< 5	16	0.6	< 10	< 0.2	4.52	210	2.5	< 2	0.17	29.0	8	220	57
204408	205	226	< 5	14	0.8	< 10	< 0.2	3.98	180	2.0	< 2	0.55	19.5	8	238	69
204409	205	226	< 5	12	0.6	< 10	< 0.2	5.25	190	2.0	< 2	0.26	14.0	8	243	47

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : ON
Comments: ATTN: ANDREW TURNER

Page Number :1-B
Total Pages :2
Certificate Date: 11-OCT-97
Invoice No. :I9745454
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9745454

SAMPLE	PREP CODE		Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
204370	205	226	1.57	1.49	0.51	80	9	0.10	7	300	< 2	28	0.09	135	< 10	62
204371	205	226	1.76	1.40	0.54	100	5	0.10	7	410	< 2	35	0.07	116	< 10	62
204372	205	226	2.20	1.27	0.55	120	9	0.09	9	480	< 2	31	0.06	101	< 10	72
204373	205	226	2.72	1.57	0.78	155	7	0.10	22	500	< 2	29	0.10	119	< 10	66
204374	205	226	3.02	1.39	0.74	160	4	0.09	28	340	< 2	23	0.09	104	< 10	76
204375	205	226	2.81	1.13	0.83	170	9	0.08	18	810	< 2	30	0.13	115	< 10	68
204376	205	226	2.47	1.16	0.57	110	3	0.08	23	860	< 2	37	0.10	111	< 10	62
204377	205	226	3.13	1.19	0.80	185	3	0.08	39	450	< 2	24	0.16	118	< 10	132
204378	205	226	2.02	1.20	0.45	115	7	0.09	17	930	20	38	0.10	118	< 10	88
204379	205	226	2.42	2.70	0.57	90	29	0.16	24	830	80	48	0.14	339	< 10	200
204380	205	226	0.81	2.06	0.33	40	22	0.12	20	740	100	45	0.12	359	< 10	182
204381	205	226	1.41	1.00	0.21	45	4	0.07	31	1200	< 2	34	0.05	93	< 10	60
204382	205	226	2.23	1.24	0.25	65	5	0.09	49	1200	6	35	0.06	110	< 10	230
204383	205	226	2.03	0.96	0.22	40	5	0.09	34	1170	4	37	0.07	92	< 10	438
204384	205	226	1.69	1.14	0.21	45	6	0.08	36	1320	14	37	0.06	119	< 10	294
204385	205	226	2.32	2.27	0.38	50	25	0.14	66	650	28	40	0.17	327	< 10	190
204386	205	226	1.75	2.26	0.35	55	18	0.14	67	910	36	41	0.15	360	< 10	1090
204387	205	226	1.74	2.47	0.38	50	26	0.15	83	630	104	39	0.16	374	< 10	1570
204388	205	226	1.90	1.96	0.33	50	39	0.14	103	620	20	31	0.14	375	< 10	502
204389	205	226	1.89	2.08	0.42	90	27	0.13	86	390	48	30	0.13	403	< 10	1320
204390	205	226	3.41	2.30	0.64	180	16	0.16	79	670	36	35	0.12	350	< 10	424
204391	205	226	3.55	2.37	0.53	125	13	0.21	66	670	52	42	0.12	291	< 10	1370
204392	205	226	3.14	2.22	0.61	140	13	0.15	56	1380	22	46	0.12	295	< 10	1250
204393	205	226	2.50	1.70	0.65	120	13	0.13	69	2330	6	57	0.08	311	< 10	546
204394	205	226	2.28	1.75	0.53	75	24	0.14	102	1590	6	46	0.11	431	< 10	722
204395	205	226	1.77	1.76	0.42	50	13	0.15	65	2300	4	55	0.08	328	< 10	254
204396	205	226	2.76	2.44	0.88	165	17	0.14	81	1110	6	45	0.11	255	< 10	212
204397	205	226	1.90	1.83	0.39	70	25	0.12	96	680	16	30	0.10	369	< 10	818
204398	205	226	2.19	1.87	0.64	130	17	0.13	100	1000	12	41	0.12	304	< 10	594
204399	205	226	2.03	1.42	0.56	130	12	0.11	78	1960	8	57	0.10	222	< 10	420
204400	205	226	1.69	1.69	0.39	90	31	0.13	159	1810	14	52	0.11	568	< 10	890
204401	205	226	2.55	2.62	0.53	145	12	0.16	79	830	6	46	0.14	326	< 10	1490
204402	205	226	3.11	1.71	0.41	95	10	0.14	66	1020	10	43	0.11	218	< 10	316
204403	205	226	2.98	2.10	0.73	230	14	0.14	77	720	18	34	0.13	298	< 10	308
204404	205	226	2.43	2.33	0.53	185	13	0.14	59	620	24	36	0.14	355	< 10	356
204405	205	226	2.90	2.16	0.61	340	15	0.13	69	730	54	35	0.12	322	< 10	390
204406	205	226	2.97	2.33	0.63	355	15	0.14	76	580	50	36	0.14	314	< 10	838
204407	205	226	1.57	1.88	0.44	145	17	0.15	56	650	26	38	0.16	342	< 10	2690
204408	205	226	2.86	1.69	0.85	355	11	0.13	55	1010	58	42	0.09	201	< 10	2380
204409	205	226	2.21	2.36	0.61	195	17	0.15	72	780	100	40	0.11	362	< 10	1700

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : ON
Comments: ATTN: ANDREW TURNER

Certificate Date: 11-OCT-97
Invoice No. : I9745454
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9745454

SAMPLE	PREP CODE		Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
204410	205	226	< 5	2	0.4	< 10	< 0.2	5.43	170	2.5	< 2	0.22	12.5	12	213	58
204411	205	226	< 5	1	0.2	< 10	< 0.2	5.37	230	2.5	4	0.20	4.0	12	210	91
204412	205	226	< 5	28	< 0.2	< 10	< 0.2	4.67	120	2.0	2	0.21	4.0	11	193	64
204413	205	226	< 5	14	0.2	< 10	< 0.2	4.66	110	2.0	2	0.19	3.0	10	234	55
204414	205	226	< 5	14	0.4	< 10	< 0.2	4.82	130	2.0	< 2	0.50	1.5	9	190	50
204415	205	226	< 5	6	0.2	< 10	0.4	5.35	130	2.0	< 2	0.18	3.0	12	221	67
204416	205	226	< 5	14	0.2	< 10	< 0.2	5.50	180	2.5	< 2	0.22	2.5	11	212	63
204417	205	226	< 5	6	< 0.2	< 10	< 0.2	5.44	240	2.0	2	0.13	2.5	15	178	65
204418	205	226	< 5	12	0.2	< 10	1.0	5.65	150	2.5	4	0.22	13.0	13	193	69
204419	205	226	< 5	4	0.2	< 10	0.2	6.08	300	2.5	< 2	0.18	3.0	14	220	83
204420	205	226	< 5	20	0.2	< 10	0.4	5.03	130	2.0	< 2	0.19	4.5	11	258	65
204421	205	226	< 5	18	0.2	< 10	< 0.2	5.27	160	2.0	2	0.24	4.5	11	231	67
204422	205	226	< 5	6	< 0.2	< 10	< 0.2	5.19	200	2.0	2	0.17	6.5	12	219	71
204423	205	226	< 5	2	< 0.2	< 10	0.4	5.51	160	2.5	< 2	0.20	4.5	12	230	97
204424	205	226	< 5	2	< 0.2	< 10	0.4	5.52	150	2.0	< 2	0.19	4.5	12	210	76
204425	205	226	< 5	1	0.2	< 10	< 0.2	2.04	170	0.5	< 2	0.08	2.5	5	98	28
204426	205	226	< 5	2	< 0.2	< 10	0.6	4.26	110	2.0	2	0.20	3.5	11	228	65
204427	205	226	< 5	1	0.2	< 10	0.4	5.00	170	2.0	< 2	0.20	2.5	11	232	67
204428	205	226	< 5	2	0.6	< 10	0.4	5.85	190	2.0	< 2	0.25	4.0	10	233	60
204429	205	226	< 5	1	0.6	< 10	0.8	4.87	150	2.0	< 2	0.20	4.5	11	238	64
204430	205	226	< 5	20	0.2	< 10	< 0.2	4.11	190	1.5	< 2	0.16	2.5	8	196	40
204431	205	226	< 5	12	0.4	< 10	< 0.2	4.75	200	1.5	< 2	0.14	6.5	11	214	47
204432	205	226	< 5	2	0.2	< 10	< 0.2	4.89	200	2.0	2	0.16	7.0	12	189	68
204433	205	226	< 5	4	1.0	10	0.6	4.73	150	2.0	< 2	0.21	4.5	11	218	65
204434	205	226	< 5	4	0.6	40	0.2	4.21	240	2.0	< 2	0.42	13.5	10	229	45
204435	205	226	< 5	2	0.4	100	0.4	4.46	250	2.0	< 2	0.87	33.0	10	244	65
204436	205	226	< 5	1	1.0	60	1.6	4.57	220	2.0	< 2	0.12	23.0	11	180	44
204437	205	226	< 5	1	0.6	10	0.6	4.55	190	2.0	2	0.14	11.5	10	181	64
204438	205	226	< 5	1	0.4	< 10	0.4	4.63	210	2.0	2	0.20	6.5	10	167	80
204439	205	226	< 5	2	0.2	< 10	< 0.2	5.09	150	2.0	< 2	0.13	3.0	9	152	65
204440	205	226	< 5	2	0.2	< 10	1.6	4.96	130	2.5	2	0.13	5.0	9	163	71
204441	205	226	< 5	1	< 0.2	< 10	0.2	6.47	170	3.0	< 2	0.13	6.0	11	170	67
204442	205	226	< 5	1	< 0.2	< 10	0.2	5.98	210	2.5	< 2	0.18	5.5	11	165	67

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : ON
Comments: ATTN: ANDREW TURNER

Certificate Date: 11-OCT-97
Invoice No. : I9745454
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9745454

SAMPLE	PREP CODE		Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
204410	205	226	2.55	2.36	0.64	170	16	0.17	87	820	88	39	0.17	366	< 10	1455
204411	205	226	3.82	2.35	0.84	250	13	0.14	84	620	30	37	0.14	313	< 10	474
204412	205	226	3.16	1.96	0.99	360	14	0.13	91	740	36	37	0.14	297	< 10	654
204413	205	226	3.02	1.94	0.80	320	14	0.13	82	730	56	35	0.14	307	< 10	408
204414	205	226	2.59	2.07	0.99	320	17	0.13	73	760	20	40	0.11	338	< 10	296
204415	205	226	2.96	2.27	0.90	200	20	0.15	99	710	100	38	0.14	389	< 10	480
204416	205	226	2.44	2.43	0.69	145	19	0.15	86	890	32	43	0.14	328	< 10	360
204417	205	226	2.60	2.41	0.51	115	36	0.16	108	430	56	36	0.14	322	< 10	342
204418	205	226	2.70	2.58	0.62	165	34	0.16	105	840	68	42	0.13	362	< 10	1390
204419	205	226	2.81	2.73	0.63	130	33	0.17	109	710	28	46	0.17	369	< 10	390
204420	205	226	2.49	2.19	0.58	150	22	0.16	96	760	26	40	0.18	371	< 10	468
204421	205	226	2.56	2.36	0.50	185	19	0.16	96	900	24	44	0.15	384	< 10	464
204422	205	226	2.58	2.27	0.46	200	19	0.17	101	610	30	40	0.14	437	< 10	594
204423	205	226	3.47	2.39	0.49	125	15	0.19	83	630	22	42	0.15	337	< 10	400
204424	205	226	2.70	2.39	0.42	105	22	0.19	83	750	12	42	0.14	333	< 10	396
204425	205	226	1.07	0.88	0.16	35	10	0.08	37	300	8	16	0.06	132	< 10	212
204426	205	226	2.81	1.75	0.64	230	23	0.12	88	690	32	32	0.11	265	< 10	358
204427	205	226	2.58	2.01	0.62	155	17	0.16	86	760	14	36	0.14	299	< 10	292
204428	205	226	2.81	2.34	0.65	145	19	0.22	80	970	20	46	0.14	361	< 10	366
204429	205	226	2.43	1.99	0.44	110	30	0.21	93	860	34	38	0.13	429	< 10	358
204430	205	226	2.77	1.55	0.91	305	15	0.11	64	580	< 2	32	0.11	280	< 10	358
204431	205	226	2.24	1.97	0.60	170	17	0.15	91	550	14	36	0.13	305	< 10	878
204432	205	226	2.24	2.08	0.48	125	18	0.16	88	600	20	38	0.12	358	< 10	964
204433	205	226	2.86	1.96	0.48	175	19	0.15	81	730	68	37	0.11	324	< 10	590
204434	205	226	1.73	1.78	0.52	230	36	0.15	78	1850	104	55	0.11	532	< 10	2790
204435	205	226	1.92	1.84	0.75	315	40	0.13	91	4090	120	79	0.10	554	< 10	6950
204436	205	226	1.57	1.94	0.38	185	18	0.15	97	420	424	41	0.10	346	< 10	4830
204437	205	226	1.83	1.92	0.36	110	22	0.16	84	560	220	41	0.11	366	< 10	2340
204438	205	226	2.40	1.87	0.66	125	15	0.16	86	760	116	42	0.11	310	< 10	1175
204439	205	226	2.21	2.10	0.60	100	27	0.19	94	430	18	39	0.12	496	< 10	450
204440	205	226	2.19	2.11	0.46	115	31	0.19	97	440	170	36	0.12	407	< 10	554
204441	205	226	2.45	2.77	0.53	115	14	0.24	87	450	64	50	0.14	333	< 10	724
204442	205	226	2.62	2.54	0.65	180	33	0.20	107	690	6	48	0.12	420	< 10	666

CERTIFICATION: David Beckham

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

A9745455

Comments: ATTN:ANDREW TURNER FAX: CHRIS ROCKINGHAM

CERTIFICATE A9745455

(GP W) - WESTMIN RESOURCES LTD.

Project: ON
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 13-OCT-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	78	Geochem ring to approx 150 mesh
294	78	4-7 Kg crush and split
3202	78	Rock - save entire reject
285	78	ICP - HF digestion charge
287	78	Special dig'n with organic ext'n

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	78	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
13	78	As ppm: HNO3-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
22	78	Sb ppm: HCl-KClO3 digest, extrac	AAS-BKGD CORR	0.2	1000
20	78	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
578	78	Ag ppm: 24 element, rock & core	AAS	0.2	100.0
573	78	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	78	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	78	Be ppm: 24 element, rock & core	ICP-AES	0.5	1000
561	78	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	78	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	78	Cd ppm: 24 element, rock & core	ICP-AES	0.5	500
563	78	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	78	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	78	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	78	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	78	K %: 24 element, rock & core	ICP-AES	0.01	10.00
570	78	Mg %: 24 element, rock & core	ICP-AES	0.01	15.00
568	78	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	78	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	78	Na %: 24 element, rock & core	ICP-AES	0.01	10.00
564	78	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	78	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	78	Pb ppm: 24 element, rock & core	AAS	2	10000
582	78	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	78	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	78	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	78	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	78	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

Chemex Labs Ltd.

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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : ON
Comments: ATTN:ANDREW TURNER FAX: CHRIS ROCKINGHAM

Page Number : 1-A
Total Pages : 3
Certificate Date: 13-OCT-97
Invoice No. : I9745455
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9745455

SAMPLE	PREP CODE		Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
203951	205	294	< 5	1	0.2	< 10	< 0.2	6.05	260	3.0	< 2	0.19	4.0	12	221	84
203952	205	294	< 5	1	0.2	< 10	< 0.2	5.63	240	2.5	< 2	0.38	3.0	13	213	64
203953	205	294	< 5	1	< 0.2	< 10	< 0.2	5.67	310	2.5	< 2	0.17	5.0	13	159	90
203954	205	294	< 5	2	< 0.2	< 10	< 0.2	4.48	480	2.0	< 2	0.23	1.5	7	181	55
203955	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
203956	205	294	< 5	2	0.2	140	0.6	6.20	2750	2.5	< 2	0.17	46.0	8	189	44
203957	205	294	< 5	2	0.2	40	0.2	5.32	520	2.0	< 2	0.28	11.5	11	171	54
203958	205	294	< 5	1	0.2	60	0.8	4.44	360	2.0	< 2	0.32	19.0	9	202	58
203959	205	294	< 5	2	0.2	< 10	< 0.2	4.80	330	2.0	< 2	0.42	6.5	8	176	73
203960	205	294	< 5	2	0.2	< 10	< 0.2	4.58	490	1.5	< 2	1.51	0.5	7	219	35
203961	205	294	< 5	16	0.2	< 10	< 0.2	3.77	220	1.5	< 2	1.99	0.5	6	210	30
203962	205	294	< 5	12	0.2	< 10	< 0.2	4.31	370	1.5	< 2	0.73	5.0	9	190	67
203963	205	294	< 5	2	0.2	< 10	< 0.2	3.72	210	1.5	< 2	1.88	0.5	7	225	32
203964	205	294	< 5	1	< 0.2	< 10	< 0.2	4.32	330	1.5	< 2	1.40	1.0	5	223	28
203965	205	294	< 5	1	< 0.2	< 10	0.2	3.87	390	1.5	< 2	0.88	2.0	9	167	84
203966	205	294	< 5	14	< 0.2	< 10	< 0.2	5.27	550	2.0	< 2	0.72	6.0	13	189	103
203967	205	294	< 5	2	< 0.2	< 10	< 0.2	3.82	350	2.0	< 2	0.72	4.5	9	206	90
203968	205	294	< 5	1	< 0.2	< 10	< 0.2	3.75	390	1.5	< 2	1.01	1.5	7	191	75
203969	205	294	< 5	1	< 0.2	10	< 0.2	4.94	710	2.0	< 2	1.93	10.0	13	220	129
203970	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
203971	205	294	< 5	4	0.2	< 10	< 0.2	4.89	600	2.0	< 2	0.91	10.0	12	200	83
203972	205	294	< 5	2	0.4	80	0.6	4.14	490	1.5	< 2	0.53	27.0	10	157	85
203973	205	294	< 5	1	0.2	< 10	< 0.2	4.08	1090	2.0	< 2	1.41	6.0	10	200	98
203974	205	294	< 5	10	< 0.2	< 10	< 0.2	2.28	1880	1.5	< 2	2.19	< 0.5	3	241	38
203975	205	294	< 5	18	0.2	< 10	< 0.2	2.65	960	1.5	< 2	2.82	< 0.5	3	325	39
203976	205	294	< 5	6	< 0.2	< 10	< 0.2	0.97	670	0.5	< 2	1.19	1.0	< 1	273	20
203977	205	294	< 5	6	0.2	< 10	< 0.2	2.53	1840	1.5	< 2	2.18	< 0.5	1	256	24
203978	205	294	< 5	16	< 0.2	< 10	< 0.2	2.56	1810	1.5	< 2	2.93	< 0.5	1	247	21
203979	205	294	< 5	2	< 0.2	< 10	< 0.2	8.46	2360	2.5	4	3.26	0.5	19	158	26
203980	205	294	< 5	76	< 0.2	< 10	< 0.2	2.86	1920	1.5	< 2	3.96	< 0.5	3	367	24
203981	205	294	< 5	2	< 0.2	< 10	< 0.2	8.56	2280	2.0	2	2.73	0.5	19	162	26
203982	205	294	< 5	4	< 0.2	< 10	< 0.2	1.90	720	0.5	< 2	2.26	< 0.5	4	333	15
203983	205	294	< 5	12	0.2	< 10	< 0.2	7.65	2030	3.0	< 2	2.91	0.5	18	192	26
203984	205	294	< 5	16	< 0.2	< 10	< 0.2	1.02	500	0.5	< 2	2.52	0.5	2	316	37
203985	205	294	< 5	2	< 0.2	< 10	< 0.2	3.35	1470	1.5	< 2	0.87	< 0.5	3	191	58
203986	205	294	< 5	4	< 0.2	< 10	< 0.2	7.86	2030	2.5	< 2	1.64	0.5	17	172	21
203987	205	294	< 5	2	< 0.2	< 10	< 0.2	8.36	2180	2.0	16	3.15	< 0.5	18	144	23
203988	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
203989	205	294	< 5	1	0.2	< 10	< 0.2	8.16	2710	2.0	< 2	2.87	0.5	19	156	27
203990	205	294	< 5	1	< 0.2	< 10	< 0.2	4.94	1530	1.5	< 2	1.52	< 0.5	7	168	25

CERTIFICATION: _____

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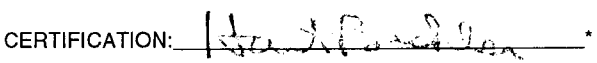
Page Number : 1-B
Total Pages : 3
Certificate Date: 13-OCT-97
Invoice No. : I9745455
P.O. Number :
Account : GP W

CERTIFICATE OF ANALYSIS A9745455

SAMPLE	PREP CODE		Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
203951	205	294	3.00	2.65	0.49	125	30	0.17	111	770	34	51	0.11	466	< 10	450
203952	205	294	3.00	2.38	0.55	210	24	0.24	93	590	12	61	0.09	284	< 10	362
203953	205	294	2.68	2.43	0.41	95	26	0.20	97	560	14	62	0.09	368	< 10	560
203954	205	294	1.86	1.84	0.27	55	26	0.20	79	780	18	62	0.08	422	< 10	180
203955	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
203956	205	294	1.63	2.58	0.33	80	65	0.28	116	660	100	85	0.12	717	< 10	5860
203957	205	294	1.98	2.23	0.29	65	51	0.24	124	650	132	75	0.09	559	< 10	1590
203958	205	294	1.72	1.81	0.28	90	25	0.17	91	880	136	65	0.08	511	< 10	2500
203959	205	294	1.72	2.04	0.32	110	28	0.16	78	760	26	67	0.07	523	< 10	736
203960	205	294	1.58	1.82	0.77	330	16	0.13	46	640	52	83	0.07	321	< 10	66
203961	205	294	1.68	1.46	0.95	395	18	0.09	32	1070	100	81	0.08	417	< 10	54
203962	205	294	1.73	1.71	0.43	150	26	0.14	47	940	80	69	0.08	408	< 10	590
203963	205	294	1.68	1.40	0.71	375	17	0.10	34	810	94	77	0.08	301	< 10	54
203964	205	294	1.32	1.62	0.68	285	27	0.12	33	930	88	78	0.10	424	< 10	104
203965	205	294	2.96	1.52	0.47	190	19	0.13	52	1580	14	71	0.09	395	< 10	244
203966	205	294	2.30	2.13	0.35	95	59	0.18	171	2600	40	83	0.11	716	< 10	662
203967	205	294	2.14	1.53	0.34	145	49	0.14	155	1360	16	63	0.09	753	< 10	536
203968	205	294	3.77	1.22	0.64	350	23	0.26	77	1870	12	71	0.13	408	< 10	234
203969	205	294	2.80	1.82	0.88	490	40	0.18	175	1480	40	83	0.10	621	< 10	1430
203970	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
203971	205	294	2.27	1.89	0.72	190	18	0.16	74	1080	12	71	0.08	295	< 10	1480
203972	205	294	1.17	1.65	0.27	80	19	0.16	65	1910	200	79	0.09	457	< 10	4930
203973	205	294	0.95	1.61	0.52	140	39	0.13	111	4290	36	102	0.10	471	< 10	934
203974	205	294	0.57	0.97	0.34	140	13	0.07	72	7640	8	109	0.07	478	< 10	24
203975	205	294	0.99	1.27	0.63	215	44	0.07	155	8600	8	118	0.09	897	< 10	56
203976	205	294	0.62	0.43	0.25	110	11	0.04	47	3630	8	45	0.04	345	< 10	94
203977	205	294	0.85	1.09	0.58	205	25	0.07	74	5950	6	98	0.09	371	< 10	26
203978	205	294	0.82	1.05	0.56	220	15	0.07	88	8950	6	131	0.09	710	< 10	30
203979	205	294	5.68	3.02	3.62	940	1	0.26	75	4610	22	158	0.66	207	< 10	78
203980	205	294	1.07	1.16	0.66	245	37	0.08	137	>10000	10	185	0.12	1970	< 10	42
203981	205	294	6.40	3.03	3.54	860	< 1	0.24	73	2280	16	125	0.69	222	< 10	64
203982	205	294	1.29	0.68	0.65	330	5	0.05	69	3350	6	76	0.11	282	< 10	30
203983	205	294	5.13	2.41	3.12	970	1	0.19	95	2140	34	165	0.68	1570	< 10	90
203984	205	294	0.84	0.34	0.45	260	14	0.04	66	6990	16	80	0.03	732	< 10	116
203985	205	294	1.00	1.41	0.55	310	21	0.11	32	1070	< 2	47	0.10	365	< 10	156
203986	205	294	4.50	2.88	2.88	665	2	0.22	67	1720	22	100	0.58	180	< 10	60
203987	205	294	5.59	3.06	3.71	935	< 1	0.25	71	2000	22	104	0.67	170	< 10	86
203988	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
203989	205	294	4.89	3.18	3.13	825	< 1	0.65	63	1940	22	152	0.65	168	< 10	76
203990	205	294	1.66	1.70	1.50	255	< 1	0.16	26	490	36	52	0.17	70	< 10	28

CERTIFICATION: 

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : ON
Comments: ATTN:ANDREW TURNER FAX: CHRIS ROCKINGHAM

Certificate Date: 13-OCT-97
Invoice No. :I9745455
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9745455

SAMPLE	PREP CODE		Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
203991	205	294	< 5	2	< 0.2	< 10	< 0.2	5.02	1690	1.5	< 2	2.09	0.5	4	227	6
203992	205	294	< 5	2	< 0.2	< 10	< 0.2	5.85	2230	2.0	< 2	1.63	0.5	3	155	2
203993	205	294	< 5	2	< 0.2	< 10	< 0.2	5.35	1320	2.0	< 2	4.64	< 0.5	5	175	7
203994	205	294	< 5	1	< 0.2	< 10	< 0.2	5.57	460	1.5	< 2	1.71	< 0.5	9	179	10
203995	205	294	< 5	2	< 0.2	< 10	< 0.2	6.58	1460	2.5	< 2	1.27	< 0.5	3	104	6
203996	205	294	< 5	36	< 0.2	< 10	< 0.2	1.80	1130	1.5	< 2	2.46	0.5	1	369	41
203997	205	294	< 5	2	< 0.2	10	< 0.2	1.59	650	0.5	< 2	0.81	< 0.5	2	276	33
203998	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
203999	205	294	< 5	2	< 0.2	< 10	< 0.2	1.59	560	0.5	< 2	0.88	< 0.5	2	227	33
204000	205	294	< 5	1	< 0.2	< 10	< 0.2	1.72	570	0.5	< 2	0.61	< 0.5	1	259	16
204443	205	294	< 5	1	< 0.2	< 10	< 0.2	6.05	400	3.0	< 2	0.23	2.5	11	230	66
204444	205	294	< 5	1	0.2	< 10	2.2	5.85	300	3.0	< 2	0.21	3.0	13	200	78
204445	205	294	< 5	1	0.2	< 10	0.8	5.95	620	3.5	2	0.25	9.0	12	212	70
204446	205	294	< 5	2	0.2	< 10	0.4	5.77	360	3.0	< 2	0.21	9.5	12	264	68
204447	205	294	< 5	1	0.2	< 10	< 0.2	6.00	300	3.5	< 2	0.21	10.5	10	223	66
204448	205	294	< 5	1	< 0.2	< 10	< 0.2	5.46	420	3.0	< 2	0.68	4.0	9	227	60
204449	205	294	< 5	2	< 0.2	< 10	< 0.2	1.29	520	0.5	< 2	0.21	0.5	2	236	41
204450	205	294	< 5	2	< 0.2	< 10	< 0.2	1.69	700	0.5	< 2	0.45	1.5	3	319	35
204451	205	294	< 5	4	< 0.2	< 10	< 0.2	5.03	220	2.5	< 2	0.20	5.5	10	249	72
204452	205	294	< 5	2	< 0.2	< 10	< 0.2	5.70	310	3.0	< 2	0.19	7.0	10	231	68
204453	205	294	< 5	2	< 0.2	< 10	< 0.2	1.83	1200	0.5	< 2	0.34	3.5	3	195	44
204454	205	294	< 5	2	< 0.2	< 10	< 0.2	1.79	1000	0.5	< 2	0.91	< 0.5	2	225	21
204455	205	294	< 5	1	< 0.2	< 10	< 0.2	1.58	860	0.5	< 2	0.70	< 0.5	1	232	17
204456	205	294	< 5	2	< 0.2	< 10	< 0.2	1.13	570	0.5	< 2	0.54	< 0.5	< 1	214	25
204457	205	294	< 5	2	< 0.2	< 10	< 0.2	1.66	830	0.5	< 2	0.50	< 0.5	1	171	27
204458	205	294	< 5	2	< 0.2	< 10	< 0.2	2.23	1090	0.5	< 2	0.25	< 0.5	< 1	224	10
204459	205	294	< 5	1	< 0.2	< 10	< 0.2	6.43	2970	2.0	< 2	1.40	0.5	4	237	135
204460	205	294	< 5	2	< 0.2	< 10	< 0.2	6.73	2150	2.0	< 2	0.64	< 0.5	7	177	47
204461	205	294	< 5	1	< 0.2	< 10	< 0.2	7.06	3050	2.5	< 2	2.73	0.5	1	203	21
204462	205	294	< 5	2	< 0.2	< 10	< 0.2	6.77	1920	2.0	< 2	1.57	< 0.5	7	163	21
204463	205	294	< 5	2	< 0.2	< 10	< 0.2	7.12	2680	2.5	< 2	2.26	0.5	7	198	53
204464	205	294	< 5	1	< 0.2	< 10	< 0.2	6.15	1520	1.5	< 2	3.17	< 0.5	8	211	28
204465	205	294	< 5	1	< 0.2	< 10	0.6	6.58	3190	2.5	< 2	1.90	< 0.5	1	160	22
204466	205	294	< 5	2	< 0.2	< 10	< 0.2	6.28	3100	2.0	< 2	1.05	< 0.5	2	134	17
204467	205	294	< 5	1	< 0.2	< 10	< 0.2	6.43	230	3.0	< 2	2.63	< 0.5	8	262	96
204468	205	294	< 5	1	< 0.2	< 10	< 0.2	6.41	350	3.0	< 2	2.09	< 0.5	9	182	75
204469	205	294	< 5	1	< 0.2	< 10	< 0.2	6.32	1780	2.5	< 2	1.64	< 0.5	7	174	36
204470	205	294	< 5	1	< 0.2	< 10	< 0.2	5.99	2080	2.0	< 2	3.35	< 0.5	11	202	79
204471	205	294	< 5	1	< 0.2	< 10	< 0.2	8.44	3720	3.0	6	2.60	0.5	5	136	9
204472	205	294	< 5	1	< 0.2	< 10	< 0.2	7.40	1160	1.5	< 2	2.48	0.5	10	145	14

CERTIFICATION: *

Chemex Labs Ltd.

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To: WESTMIN RESOURCES LTD.
PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : ON
Comments: ATTN:ANDREW TURNER FAX: CHRIS ROCKINGHAM

Page Number :2-B
Total Pages :3
Certificate Date: 13-OCT-97
Invoice No. :I9745455
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9745455

SAMPLE	PREP CODE		Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
203991	205	294	1.52	1.87	2.14	295	1	0.63	25	310	< 2	83	0.15	66	< 10	46
203992	205	294	1.29	2.40	1.70	195	< 1	0.67	19	310	< 2	84	0.16	82	< 10	24
203993	205	294	2.06	2.08	2.79	520	< 1	0.84	21	400	< 2	140	0.18	65	< 10	26
203994	205	294	2.24	1.44	2.48	230	1	2.25	27	250	< 2	73	0.18	67	< 10	36
203995	205	294	0.91	1.66	1.28	120	4	3.38	29	560	< 2	93	0.17	84	< 10	28
203996	205	294	0.43	1.01	0.32	90	22	0.06	128	8050	< 2	118	0.08	1670	< 10	32
203997	205	294	0.66	0.72	0.35	115	3	0.06	39	500	< 2	24	0.05	105	< 10	26
203998	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
203999	205	294	0.70	0.73	0.37	150	< 1	0.10	24	180	< 2	22	0.04	44	< 10	22
204000	205	294	0.76	0.74	0.38	155	1	0.08	28	950	< 2	25	0.04	79	< 10	20
204443	205	294	2.77	2.59	0.59	150	26	0.21	109	930	< 2	51	0.12	470	< 10	282
204444	205	294	2.95	2.43	0.70	225	30	0.19	113	710	12	43	0.11	420	< 10	344
204445	205	294	2.72	2.57	0.63	160	25	0.19	106	900	144	47	0.13	388	< 10	884
204446	205	294	2.32	2.58	0.47	100	32	0.20	107	870	130	49	0.14	482	< 10	1065
204447	205	294	2.56	2.69	0.54	160	25	0.19	113	820	130	49	0.15	486	< 10	1235
204448	205	294	2.61	2.27	0.67	270	23	0.16	81	820	56	49	0.17	392	< 10	414
204449	205	294	0.49	0.49	0.21	50	< 1	0.09	31	210	10	13	0.03	47	< 10	134
204450	205	294	0.67	0.74	0.35	120	< 1	0.05	27	140	12	26	0.05	48	< 10	276
204451	205	294	2.48	2.22	0.45	135	19	0.15	94	790	70	42	0.12	448	< 10	622
204452	205	294	2.58	2.52	0.46	115	37	0.18	97	710	26	46	0.15	440	< 10	774
204453	205	294	0.50	0.85	0.29	90	1	0.05	20	150	20	34	0.04	40	< 10	596
204454	205	294	0.59	0.84	0.30	185	< 1	0.05	17	100	2	24	0.05	71	< 10	32
204455	205	294	0.62	0.77	0.29	155	1	0.05	18	110	< 2	24	0.05	64	< 10	18
204456	205	294	0.42	0.52	0.17	130	< 1	0.04	11	90	< 2	18	0.03	48	< 10	10
204457	205	294	0.44	0.81	0.27	115	< 1	0.04	11	210	< 2	21	0.05	66	< 10	10
204458	205	294	0.68	1.08	0.39	155	1	0.05	11	380	< 2	25	0.07	60	< 10	12
204459	205	294	1.19	2.38	1.03	60	6	0.17	43	5920	4	85	0.21	277	< 10	38
204460	205	294	2.91	2.93	2.16	205	1	0.33	35	1640	< 2	58	0.26	121	< 10	106
204461	205	294	1.34	3.31	1.15	265	3	0.49	15	3900	4	126	0.22	196	< 10	76
204462	205	294	2.87	2.61	2.03	215	3	1.20	38	2230	< 2	127	0.24	129	< 10	78
204463	205	294	1.74	3.06	1.34	185	7	1.00	45	4350	< 2	152	0.23	247	< 10	58
204464	205	294	2.64	2.26	2.20	305	10	1.44	53	3450	< 2	225	0.22	319	< 10	90
204465	205	294	1.21	3.31	1.09	185	16	0.21	17	2770	< 2	92	0.22	332	< 10	32
204466	205	294	0.98	2.97	0.75	125	1	0.44	15	2010	< 2	81	0.21	146	< 10	32
204467	205	294	2.35	3.03	1.32	225	23	0.41	75	8040	< 2	136	0.32	449	< 10	78
204468	205	294	3.01	2.99	1.96	235	15	0.67	81	5800	< 2	140	0.27	333	< 10	96
204469	205	294	2.43	2.37	1.82	170	8	1.52	52	3100	< 2	157	0.22	232	< 10	52
204470	205	294	3.29	2.87	2.54	370	12	0.42	63	3430	< 2	207	0.26	314	< 10	114
204471	205	294	2.09	4.01	2.08	280	1	0.66	31	460	< 2	267	0.37	101	< 10	60
204472	205	294	2.87	1.84	3.01	240	< 1	2.82	32	380	< 2	185	0.33	74	< 10	52

CERTIFICATION:

Chemex Labs Ltd.

*Analytical Chemists * Geochemists * Registered Assayers*

212 Brooksbank Ave., North Vancouver
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PROJECT: WOLVERINE
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, BC
V7X 1C4

Project : ON
Comments: ATTN:ANDREW TURNER FAX: CHRIS ROCKINGHAM

Page Number :3-A
Total Pages :3
Certificate Date: 13-OCT-97
Invoice No. : I9745455
P.O. Number :
Account :GP W

CERTIFICATE OF ANALYSIS A9745455

SAMPLE	PREP CODE		Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
204473	205	294	< 5	2	< 0.2	< 10	< 0.2	4.40	2200	2.5	< 2	2.33	< 0.5	4	193	7
204474	205	294	< 5	1	0.2	< 10	< 0.2	5.35	150	3.0	< 2	0.20	6.5	8	231	59

CERTIFICATION: _____

Chemex Labs Ltd.

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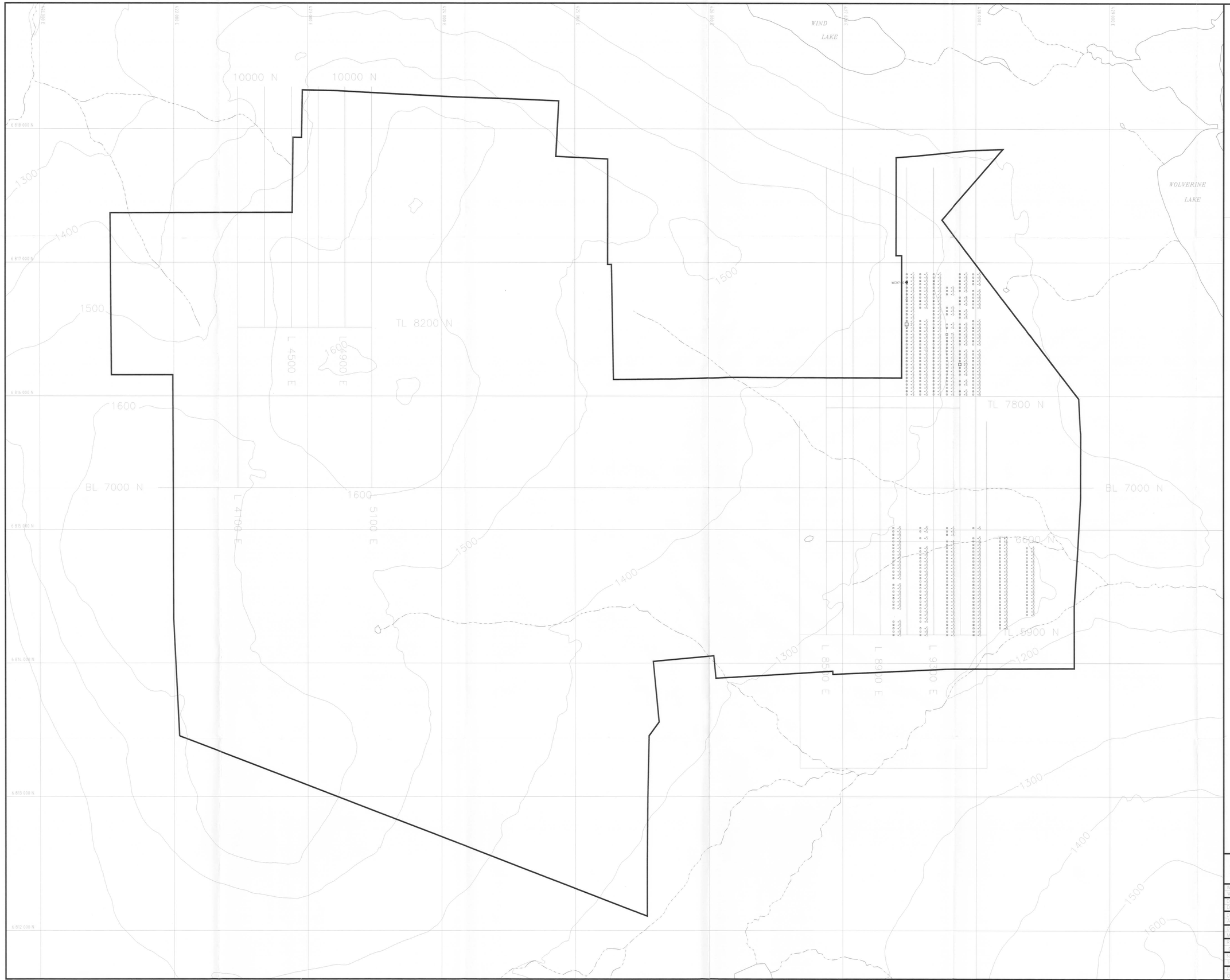
CERTIFICATE OF ANALYSIS A9745455

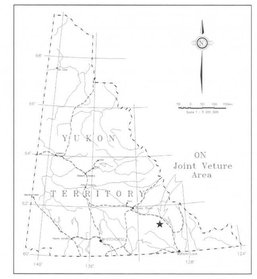
SAMPLE	PREP CODE		Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
204473	205	294	1.17	2.15	1.30	180	28	0.37	41	780	< 2	94	0.23	545	< 10	32
204474	205	294	1.96	2.29	0.46	120	24	0.18	75	780	60	47	0.18	458	< 10	754

CERTIFICATION: _____

APPENDIX I

OVERSIZE FIGURES





LOCATION MAP

WC97-01 Diamond Drill Hole

Au in Soil (in ppb)

Max □ 25

Min ▫ 2.5

WESTMIN	WESTMIN RESOURCES LIMITED
	ATNA RESOURCES LTD. / COMINCO LTD.
Work By: WESTMIN	ON JOINT VENTURE
Date Drafted: Dec. 13, 1996	Au in Soil (in ppb)
Drafted By: A.T. & J.K.	
Date Revised: Mar. 17, 1998	
Revised By: A.T. & J.K.	
N.T.S. Number: 105 O/8	20 0 20 40 60 METRES
File Name: ON_COMP.DWG	SCALE 1: 10,000
	Figure 7.1

LOCATION MAP

WIND LAKE

WOLVERINE LAKE

10000 N

TL 8200 N

TL 7800 N

TL 6900 N

BL 7000 N

L 4500 E

L 4900 E

L 4700 E

L 5100 E

L 5800 E

L 5800 E

L 6000 E

1300

1400

1500

1600

6 818 000 N

6 817 000 N

6 816 000 N

6 815 000 N

6 814 000 N

6 813 000 N

6 812 000 N

WC97-01 Diamond Drill Hole

Ag in Soil (in ppm)

Max 6.2

Min 0.1

DWG (2)

WESTMIN

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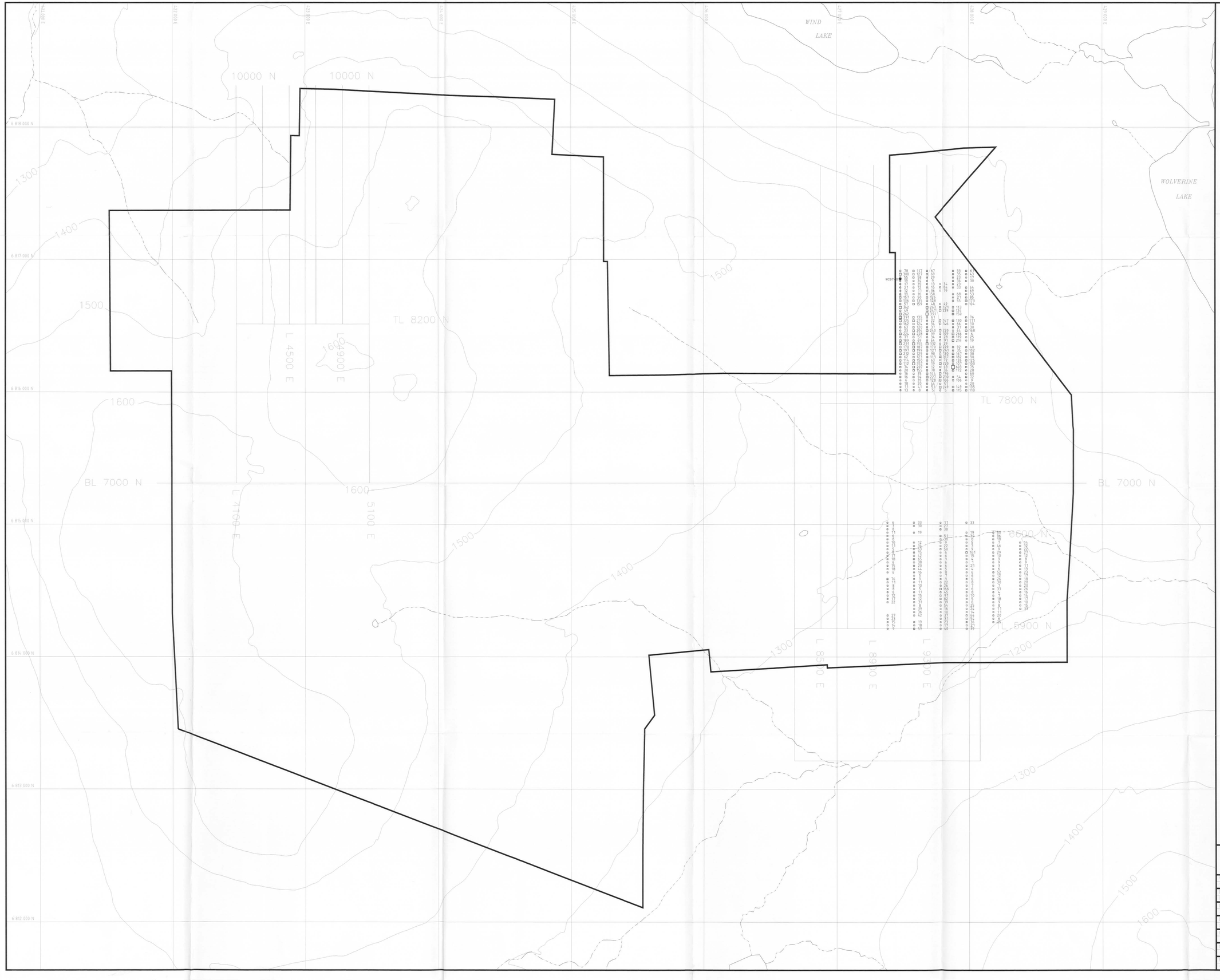
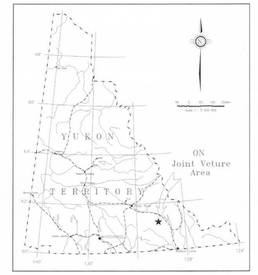
ATNA RESOURCES LTD. | COMINCO LTD.

Work By: WESTMIN	ON JOINT VENTURE
Date Drafted: Dec. 13, 1996	Ag in Soil (in ppm)
Drafted By: A.T. & J.K.	
Date Revised: Mar. 17, 1998	
Revised By: A.T. & J.K.	
N.T.S. Number: 105 O/8	SCALE 1 : 10,000
File Name: ON_COMP.DWG	Figure 7.2





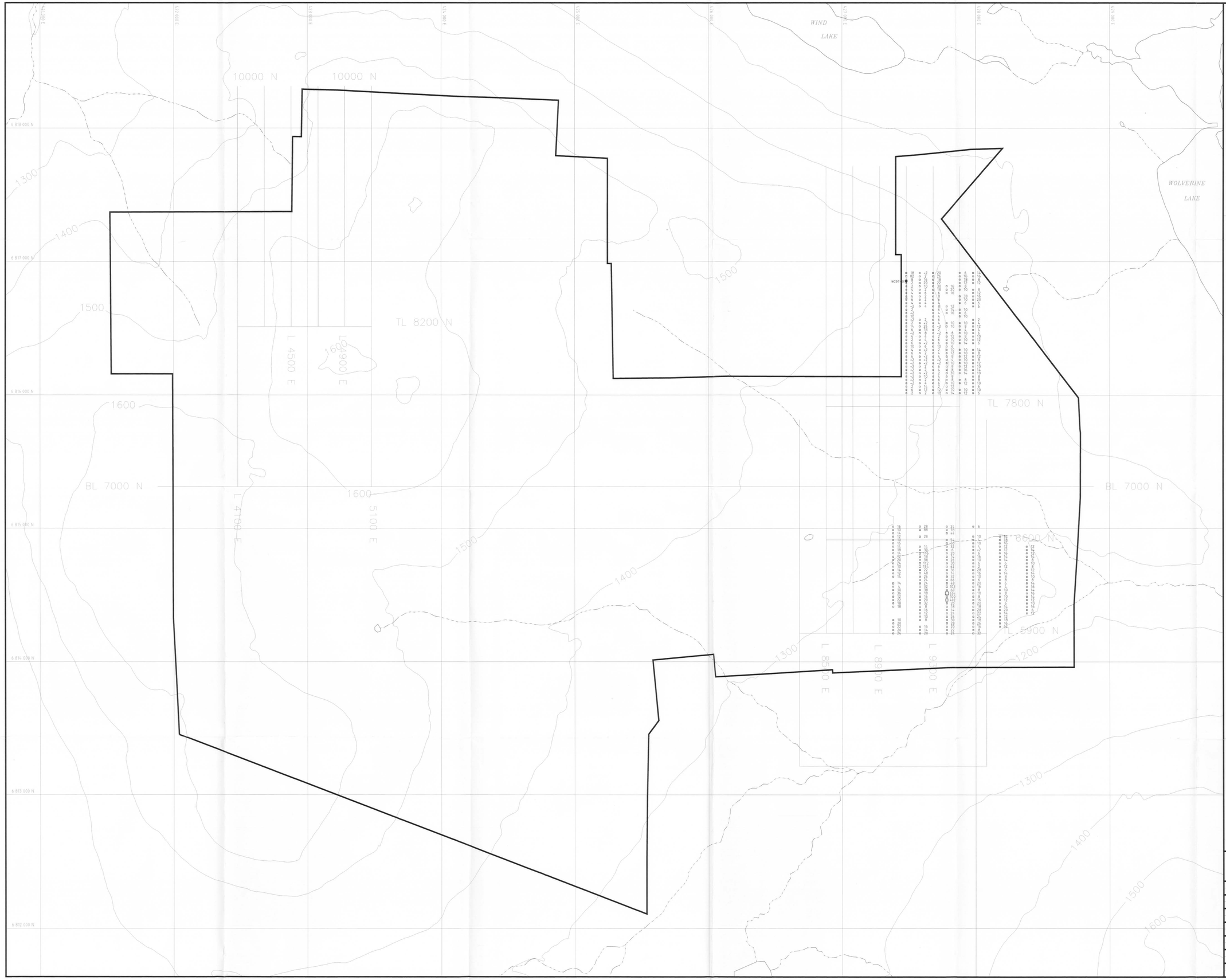
LOCATION MAP

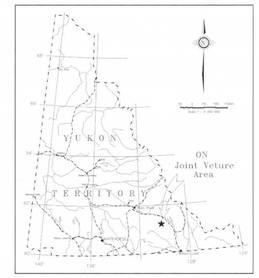
Cu in Soil (in ppm)

Max ☐ 603

Min ▫ 1 .

WESTMIN	WESTMIN RESOURCES LIMITED
	ATNA RESOURCES LTD. / COMINCO LTD.
Work By: WESTMIN	ON JOINT VENTURE
Date Drafted: Dec. 14, 1995	Cu in Soil (in ppm)
Drafted By: A.T. & J.K.	
Date Revised: May. 17, 1996	
Revised By: A.T. & J.K.	
N.T.S. Number: 105 G/8	SCALE 1 : 10,000
File Name: ON_COMP.DWG	Figure 7.3





LOCATION MAP

WC97-01 Diamond Drill Hole

Pb in Soil (in ppm)

Max 634

Min 1

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ATNA RESOURCES LTD. | COMINCO LTD.

Work By	WESTMIN
Date Drafted	Dec. 13, 1998
Drafted By	A. T. & J.K.
Date Revised	Mar. 17, 1998
Revised By	D.T. & J.K.
N.T.S. Number	105 O/8
File Name	ON_COMP.DWG

ON JOINT VENTURE

Pb in Soil (in ppm)

20 0 20 40 60

SCALE 1 : 10,000

Figure 7.4

WIND LAKE

WOLVERINE LAKE

10000 N

TL 8200 N

TL 7800 N

BL 7000 N

TL 5900 N

L 4500 E

L 4700 E

L 4900 E

L 5100 E

L 5300 E

L 5500 E

L 5700 E

L 5900 E

1300

1400

1500

1600

6 818 000 N

6 817 000 N

6 816 000 N

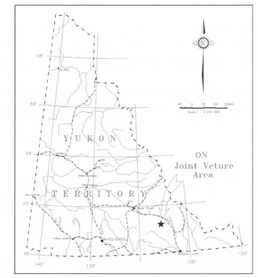
6 815 000 N

6 814 000 N

6 813 000 N

6 812 000 N

WC97-01



LOCATION MAP

WC97-01 Diamond Drill Hole

Zn in Soil (in ppm)

Max 1965

Min 18

	WESTMIN RESOURCES LIMITED
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Work By: WESTMIN	ON JOINT VENTURE
Date Drafted: Dec. 13, 1996	Zn in Soil (in ppm)
Drafted By: A.T. & J.R.	
Date Revised: Mar. 17, 1998	
Revised By: D.T. & J.R.	
N.T.S. Number: 105 G/8	SCALE 1 : 10,000
File Name: ON_COMP.DWG	Figure: 7.5

WIND LAKE

WOLVERINE LAKE

10000 N

TL 8200 N

TL 7800 N

TL 6900 N

BL 7000 N

L 4500 E

L 4700 E

L 5100 E

L 5300 E

L 5500 E

1300

1400

1500

1600

5 818 000 N

5 817 000 N

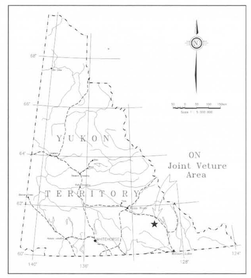
5 816 000 N

5 815 000 N

5 814 000 N

5 813 000 N

5 812 000 N



LOCATION MAP

WC97-0 Diamond Drill Hole

Ba in Soil (in ppm)

Max □ 4030

Min ▫ 90

WESTMIN

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ATNA RESOURCES LTD. | COMINCO LTD.

ON JOINT VENTURE

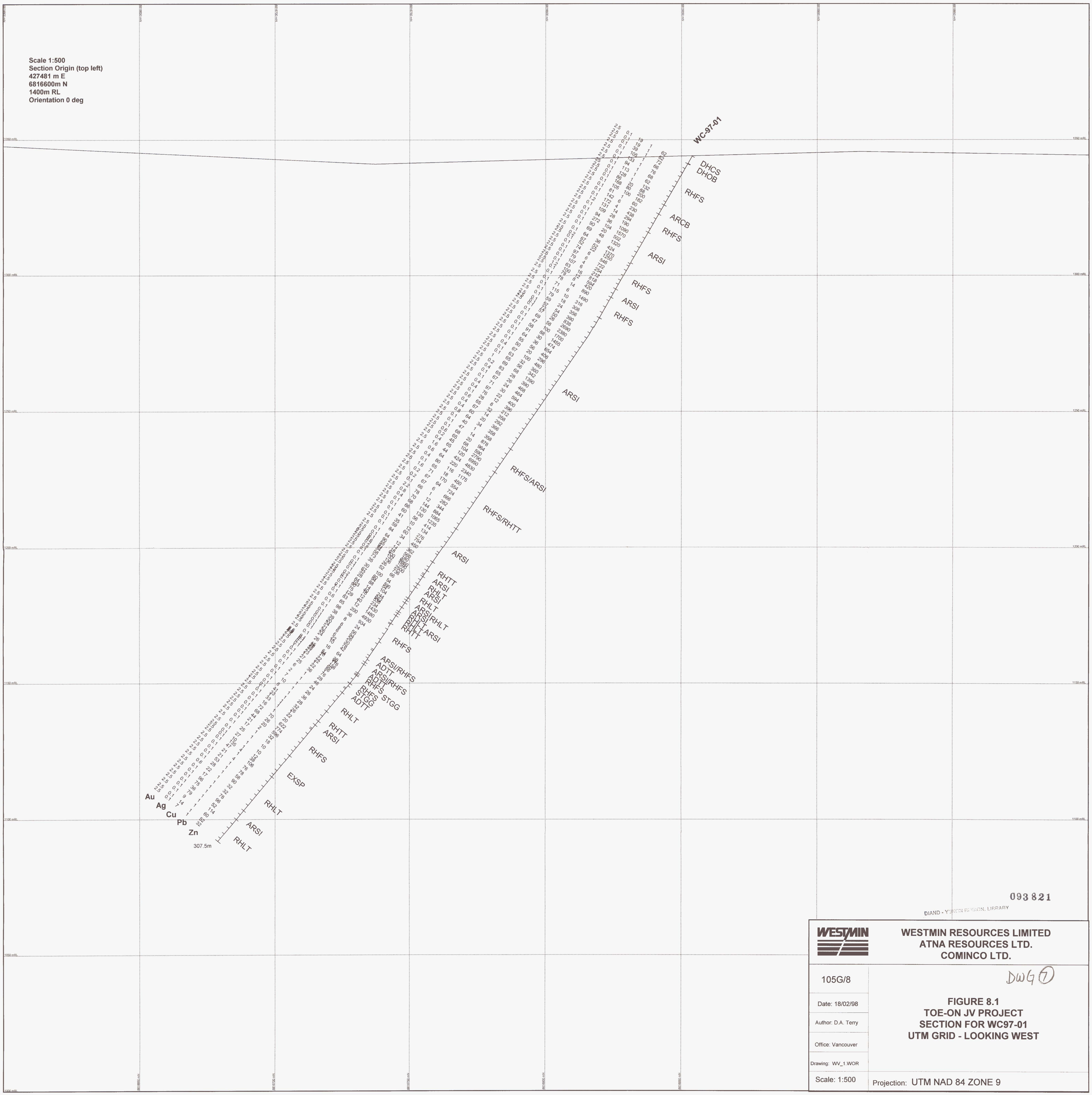
Ba in Soil (in ppm)

Work By	WESTMIN
Date Drafted	Dec. 13, 1996
Drafted By	D.T. & J.K.
Date Revised	Mar. 12, 1998
Revised By	D.T. & J.K.
UTS. Number	105 P/9
File Name	ON_COMP.DWG

SCALE 1 : 10,000

Figure 7.6

Scale 1:500
Section Origin (top left)
427481 m E
6816600m N
1400m RL
Orientation 0 deg



WESTMIN

WESTMIN RESOURCES LIMITED
ATNA RESOURCES LTD.
COMINCO LTD.

105G/8

DWG 7

Date: 18/02/98

Author: D.A. Terry

Office: Vancouver

Drawing: WV_1.WOR

Scale: 1:500

Projection: UTM NAD 84 ZONE 9

FIGURE 8.1
TOE-ON JV PROJECT
SECTION FOR WC97-01
UTM GRID - LOOKING WEST