86-860-15430

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS: 82F/8E

GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,430

GEOPHYSICAL REPORT

ON A

UTEM SURVEY ON THE

MAT 71 GROUP OF CLAIMS

FORT STEELE MINING DIVISION, B.C.

PART (2) OF (2)

- ASSESSMENT REPORT -

Latitude : 49°43'N

Longitude : 116°06'W

Work Performed by : S.J. Visser, J. Vyselaar & J.J. Lajoie
between July 24th and September 6th, 1986

Claim Owner & Operator : COMINCO LTD.

DECEMBER 1986

S. J. VISSER

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COMINCO LTD.

EXPLORATION WESTERN DISTRICT

NTS: 82F/9

GEOPHYSICAL REPORT ON A UTEM SURVEY ON THE MAT 71 GROUP OF CLAIMS FORT STEELE MINING DIVISION, B.C.

LIST OF CLAIMS

Claims as shown in accompanying report by P. W. Ransom.

INTRODUCTION

The Borehole (DDCH 6459) and UTEM grid, on the Mat 71 Group of Claims, are located approximately 7 km west of the Sullivan Mine at Kimberley, B.C. Access to the grid from Kimberley, B.C. is via St. Marys River road,to Matthew Creek, then by logging road to the grid (Plate 313-86-1).

The Mat 71 Group of Claims are underlain by the clastic sediments of the Middle and Lower Aldridge formation of Proterozoic age. The sediments of the Aldridge formation are known to host the Sullivan orebody.

The purpose of the UTEM survey, which includes a borehole survey, grid survey, and reconnaissance road survey, is to explore for massive sulphide deposits.

DESCRIPTION OF UTEM SYSTEM

UTEM is an acronym for "University of Toronto ElectroMagnetometer". The system was developed by Dr. Y. Lamontagne (1975) while he was a graduate student of that University.

The field procedure consists of first laying out a large loop of single strand insulated wire and energizing it with current from a transmitter which is powered by a 1.7 kW motor generator. Survey lines are generally oriented perpendicular to one side of the loop and surveying can be performed both inside and outside the loop. The field procedure is similar to Turam, a better known electromagnetic surveying method.

The transmitter loop is energized with a precise triangular current waveform at a carefully controlled frequency (30.974 Hz for this survey). The receiver system includes a sensor coil and backpack portable receiver module which has a digital recording facility on cassette magnetic tape. The time synchronization between transmitter and receiver is achieved through quartz crystal clocks in both units which must be accurate to about one second in 50 years.

The receiver sensor coil measures the vertical magnetic 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 geologic conductors. Deviations from a 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 receiver gathers and records 9 channels of data 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 9, 8, 7 and 6. Progressively better conductors will give responses on progressively lower number channels as well. For example, massive, highly conducting sulphides or graphite will produce a response on all nine channels.

It was mentioned above that the UTEM receiver records data digitally on a cassette. This tape is played back into a computer at the base camp. The computer processes the data and controls the plotting on an 11" x 15" graphics plotter. Data are portrayed on data sections (D.S.) as profiles of each of the nine channels, one section for each survey line.

The UTEM Borehole system uses the same transmitter, receiver and loop layout as the surface survey, and a downhole sensor probe linked by fibre optic cable to a surface controller unit. The controller unit operates the winch, for lowering and raising the borehole coil, and converts the incoming digital signal to the analog form required by the receiver. The data is plotted similar to the surface system.

FIELD WORK

A borehole survey was completed from Loop #1 (Plate 313-86-3) in late July. The borehole was surveyed from the remaining 3 loops at the end of August. The HQ drill rods were left in the borehole. down to approx. 320 m, to prevent caving of the borehole. The borehole was then surveyed down to approx. 620 m with a station spacing of 10 metres and 5 metres for detailing. Because of the high sensitivity of the borehole coil and associated electronics, many hours of surveying time was lost due to sferic noise produced by electrical storms.

A UTEM grid (Plate 313-86-2), which consists of four lines each 3 km in length, with line spacing of 500 m and station spacing of 50 m, was cut by B. Read in early August. This grid was surveyed with UTEM, from two separate loops (Plate 313-86-5) in the latter part of August and early part of September.

In addition to the Borehole and Grid surveys, approx. 11 km, using a station spacing varying from 50 m to 200m, was surveyed along roads from three separate loops (313-86-5).

DATA PRESENTATION

The results of the survey are presented on one location map, one claim, grid and borehole location map, one borehole loop location map, one borehole section, one compilation map and 32 data sections.

The maps are listed as follows:-

Plate 313-86-1	DDCH 6459 and UTEM Grid Location Map Scale 1:125,000
313-86-2	MAT 71 Group (Claims) DDCH 6459 and UTEM Grid Location Map Scale 1:24,000
313-86-3	DDCH 6459 Borehole UTEM Survey Loop Location Map Scale 1:24,000
313-86-4	DDCH 6459 Vertical Section on Azimuth 292 Scale 1:4,800
313-86-5	UTEM Survey Grid and Compilation Map Scale 1:24,000

Legends for both UTEM compilation map and the data sections are also attached.

In order to reduce the field data, the theoretical primary field of the loop is calculated at each station. The normalization of the data is as follows:-

$$\% \text{ Ch.n anomaly} = \frac{(\text{Ch.n} - \text{P})}{\text{Ni}} \times 100$$

where Ch.n = the observed amplitude of the n^{th} channel

P = I) Total Field
P = 0

II) Secondary Field

1) Channel 1 reduced:
P = Ch.1 for channels > 1
(Channel 1 is primary field reduced)

2) Primary Field reduced:

a) Surface System
P = the calculated primary field
(same component as the observed field
from the loop at the observed station)

b) Borehole System
P = the axial component of the
calculated primary field from the
loop at the observed station

N = I) Ch.1 normalized
Ni = Ch.1 for Channel > 1
(Channel 1 is primary field normalized)

II) Primary field normalized
Ni = absolute value of the total
calculated primary field

1) continuous normalized
i = observed station
(each reading normalized by a
different primary field)

2) point normalized
i = station below the arrow
on the data section
(each reading is normalized by the
primary field at that one station)

All the data normalized as above is plotted as profiles on data sections, using the symbols as shown in the legend. Profiles plotted with no symbols for:

I) Surface data:
   a) on bottom axis = elevation

II) Borehole data;
   a) on bottom axis = (Ch.1/N) x 100/5

   b) on top axis = (P/N) x 100/5

where Ch.1 = Channel 1 data
P = calculated component of primary field
N = absolute value of total calculated primary field

INTERPRETATION

Borehole

The Borehole data shows a weak conductor at a depth of approx. 595 m (D.S. 1-4 and 1a-4a). This correlates fairly closely to the weakly laminated and disseminated pyrrhotite noted at 600-607 m in the drill core (P.W. Ransom). The apparent slight difference in depth is possibly due to two different methods used in measuring this depth; one with drill rods and the other with the down-hole UTEM system.

Surface Data

There is a feature that can be correlated from line to line in the data from Loop 2 (D.S. 5-8, 5a-8a) at approx. 6500E. This feature is probably a contact or conductive fault with the west side being more conductive. A flat-lying conductor is noticed on Line 5500N between 6350E and 6650E (D.S. 8, 8a). This same feature can be seen at the beginning of the recce survey on Road 65 (D.S. 16 & 16a) and Trail R2 (D.S. 15 & 15a).

CONCLUSIONS

A weak conductor that correlates with a thin, laminated pyrrhotite zone is recognized in the borehole data.

In the surface data a lineation crosses the grid at approx. 6500E with an associated shallow, flat-lying conductor on Line 5500N.

Report by:

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Geophysicist
S.J.V. Consultants Ltd.

Approved for Release:

J. M. Hamilton, P.Eng.
Manager, Exploration
Western Canada
Cominco Ltd.

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REFERENCES

Lamontagne, Y., 1985 — Application of Wideband, Time Domain EM Measurements in Mineral Exploration: Doctoral Thesis, University of Toronto

Ransom, P.W., 1986 — Accompanying Report

APPENDIX I

LEGEND

UTEM DATA SECTIONS

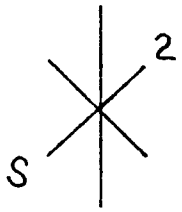
ORDINATE: Amplitude scale is given in %

ABSCISSA: Station or Picket Numbers in Hundreds of Meters

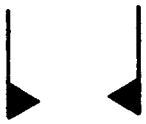
SYMBOL	CHANNEL	MEAN DELAY TIME	
		15 Hz	30 Hz
	1	25.6 ms	12.8 ms
	2	12.8	6.4
	3	6.4	3.2
	4	3.2	1.6
	5	1.6	0.8
	6	0.8	0.4
	7	0.4	0.2
	8	0.2	0.1
	9	0.1	0.05
	10	0.05	0.025

LEGEND

UTEM COMPILATION MAPS



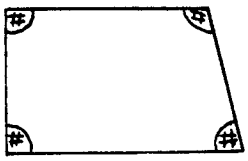
Axis of a crossover anomaly. The number indicates the latest anomalous channel.



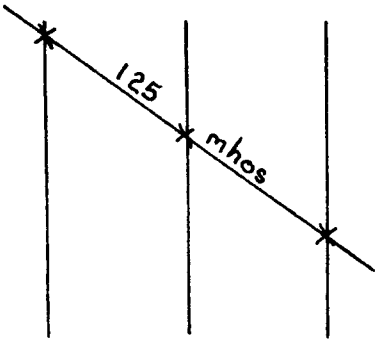
Area where conductivity is higher than average background.

Depth indicated by:

S	- Shallow	(< 50 m)
M	- Moderate	(50-100 m)
D	- Deep	(> 100 m)



Outline of a transmitter loop.

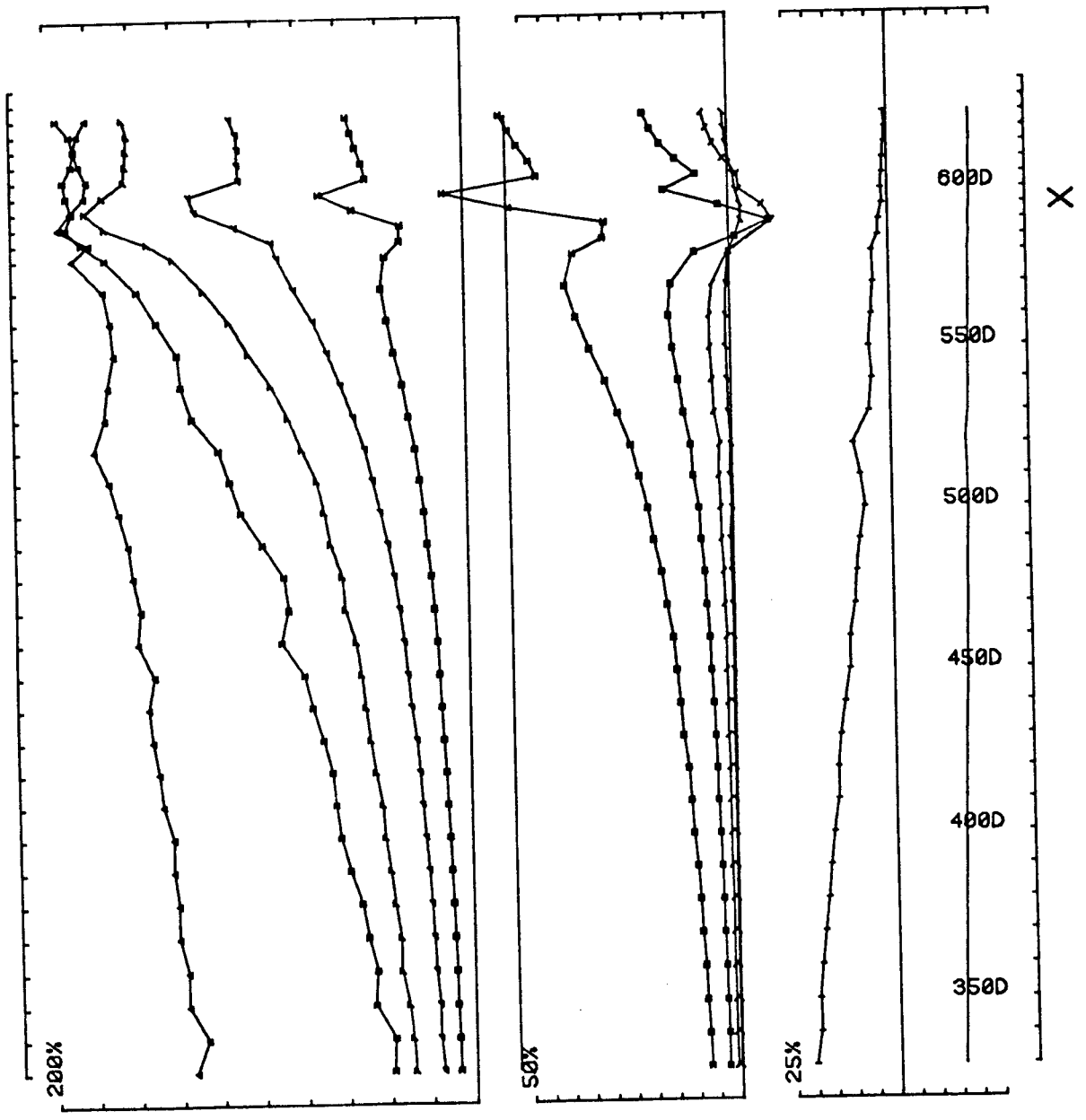


Conductor axis located by crossover anomalies with a conductance determination. The conductance is the interpreted conductivity x thickness of the conductor in mhos (same as Siemens).

Only the principal crossovers are indicated.

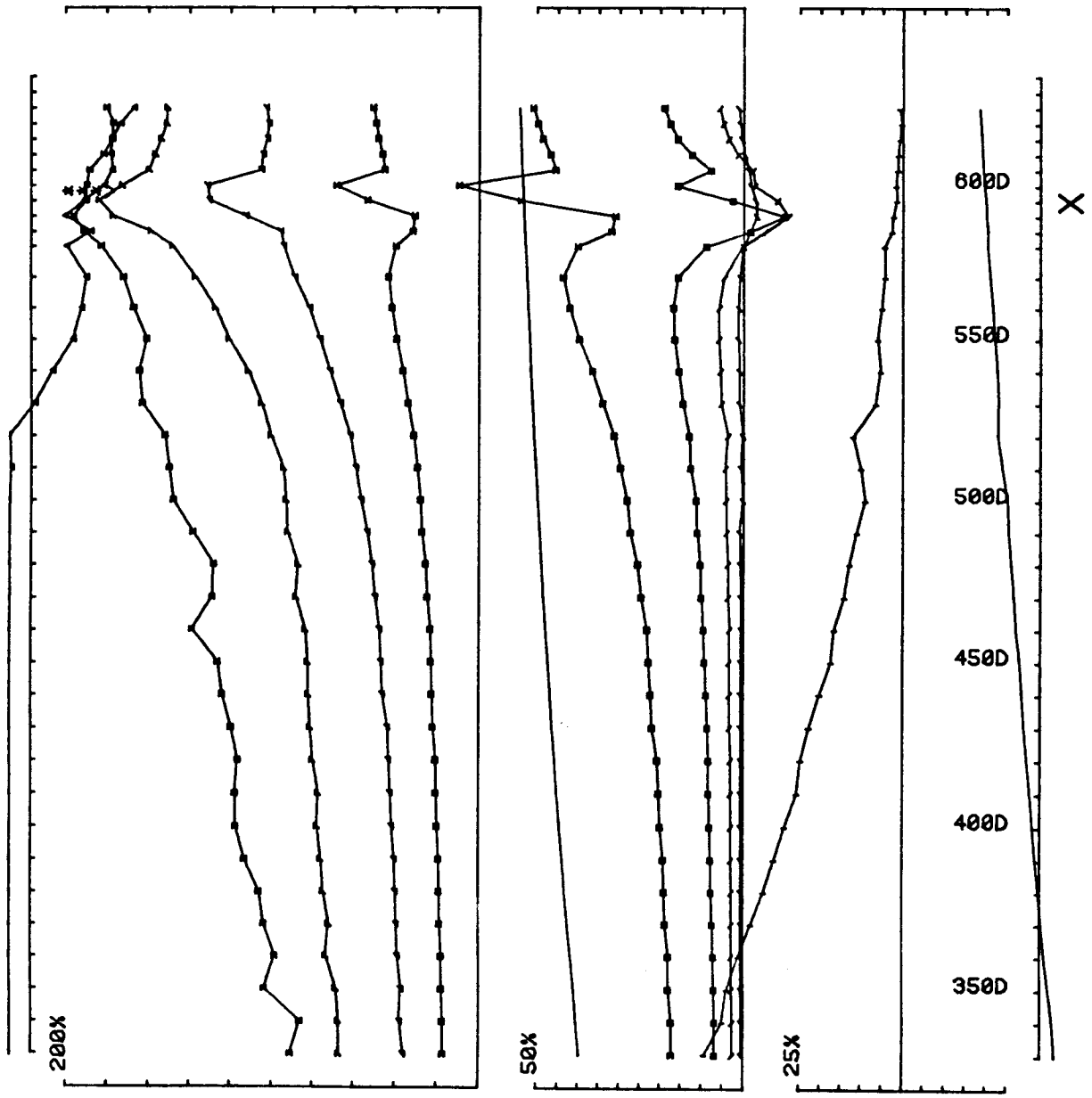
A P P E N D I X II

DATA SECTIONS



Area Matthew Ck Cominco operator JJL freq(hz) 30.974
Loopno 1 DDH 6459 component Axial secondary
ABS(total field) CONTINUOUS normalized CH 1 reduced

DS 1



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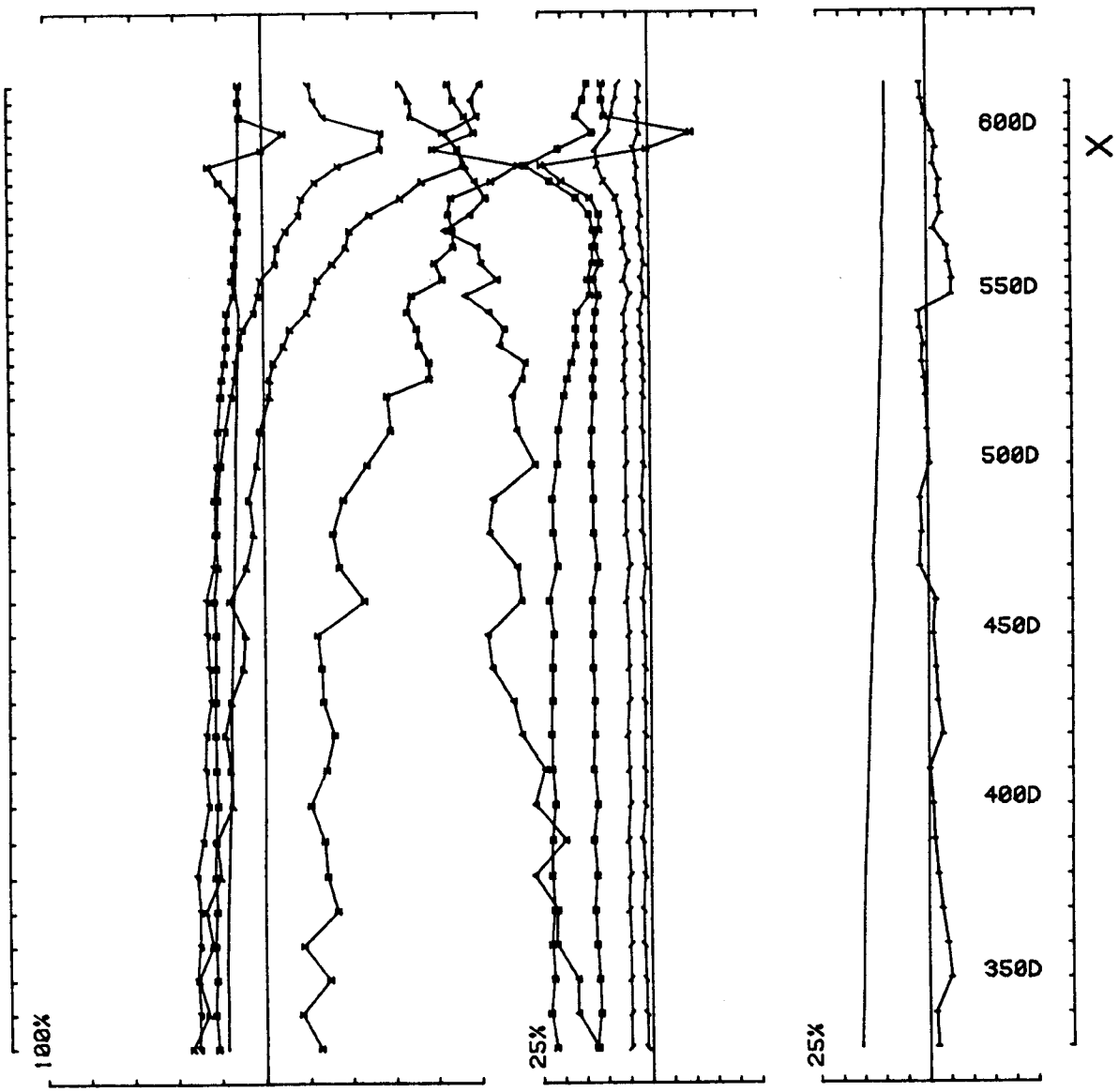
DS 1a



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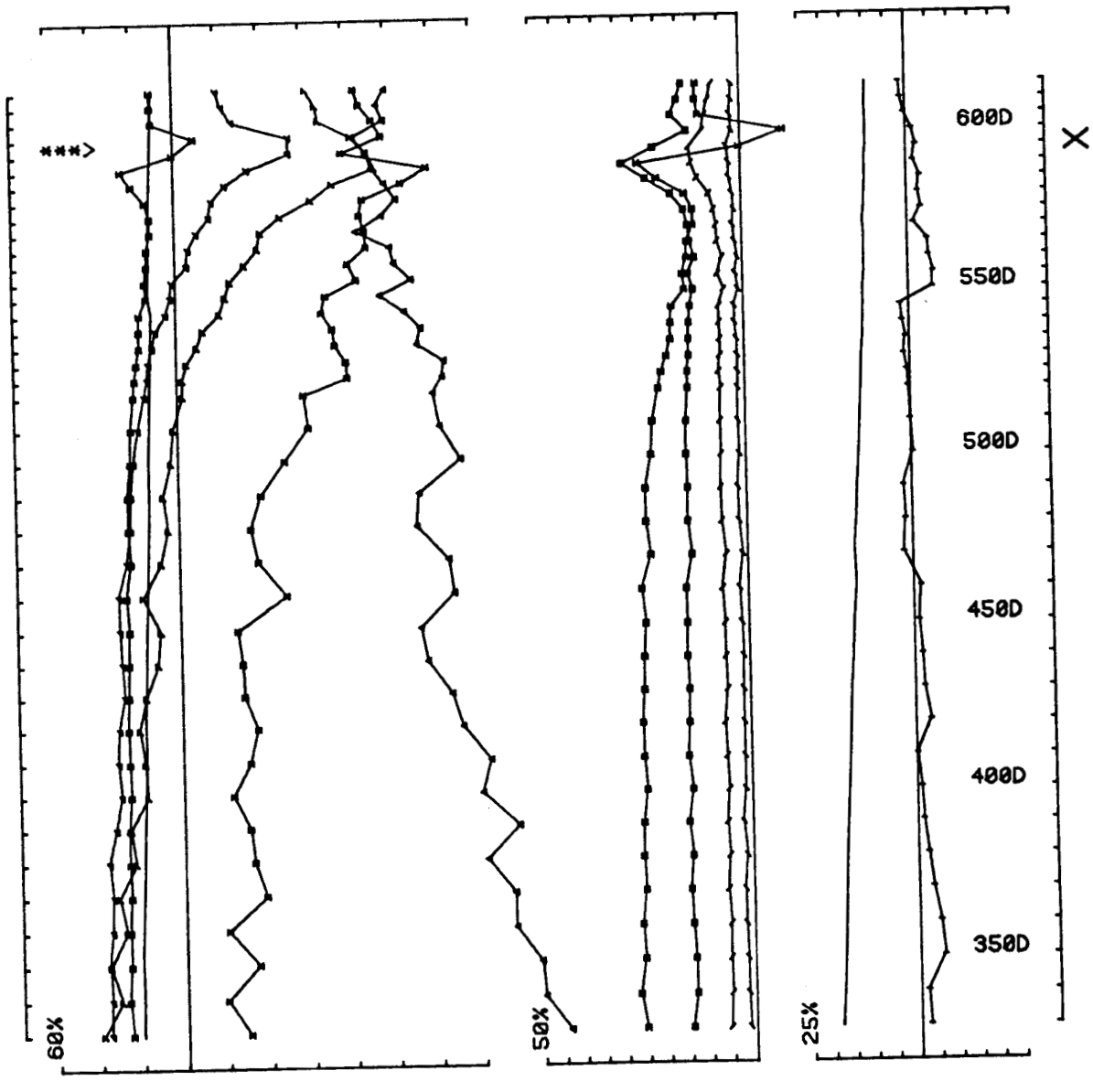
DS 2



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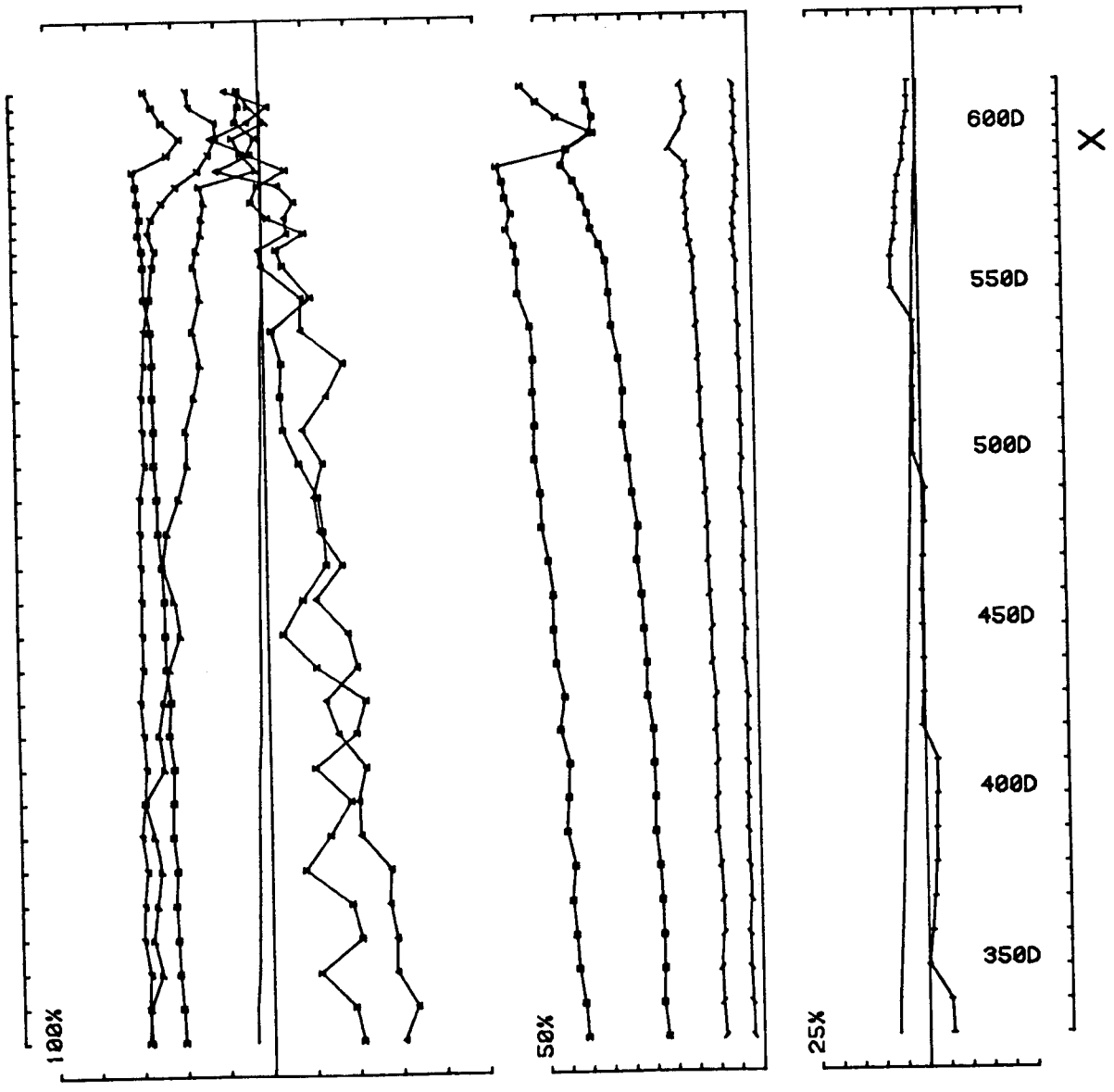
ABS(total field) POINT normalized CH 1 reduced

DS 2a



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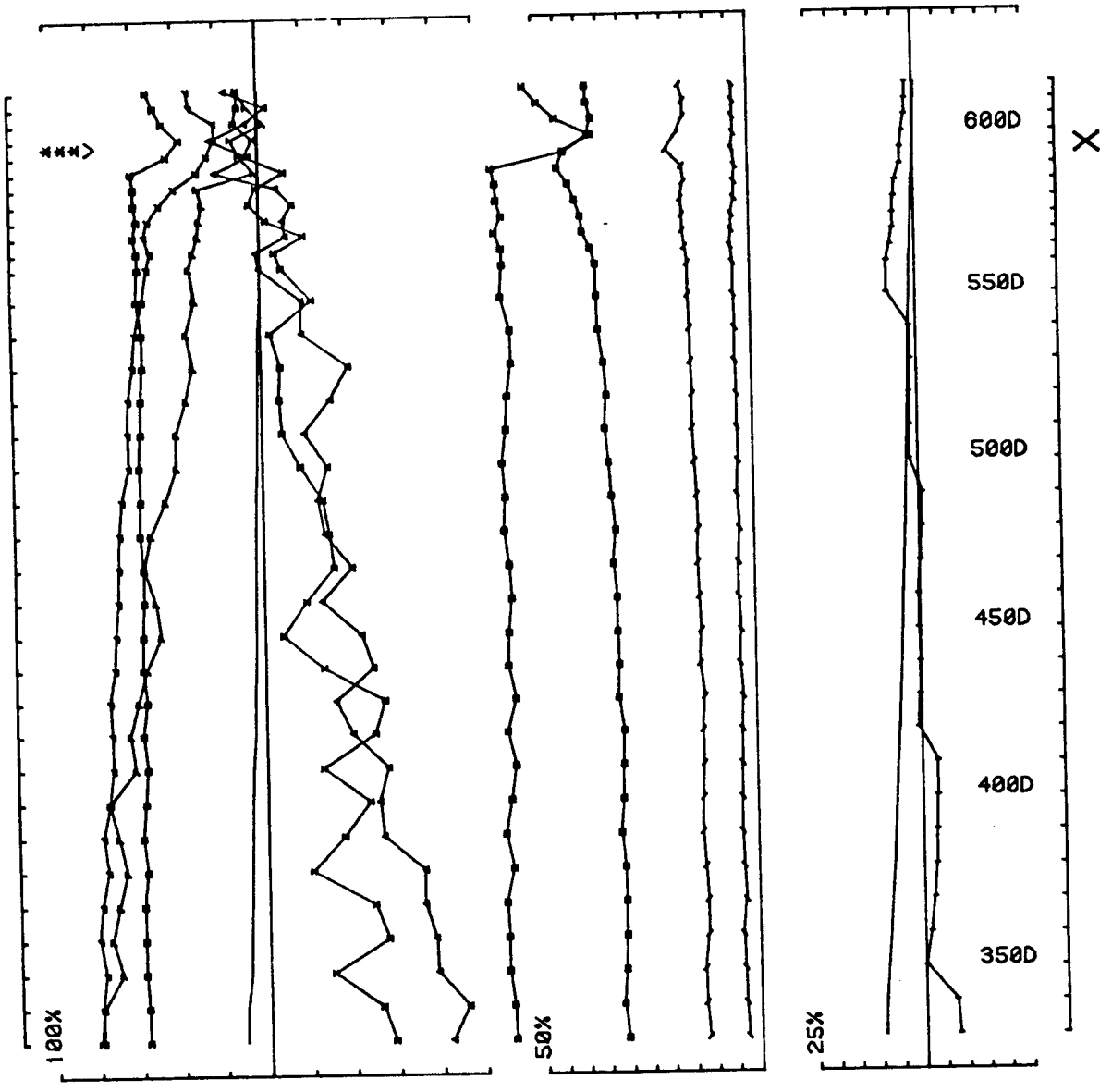
DS 3



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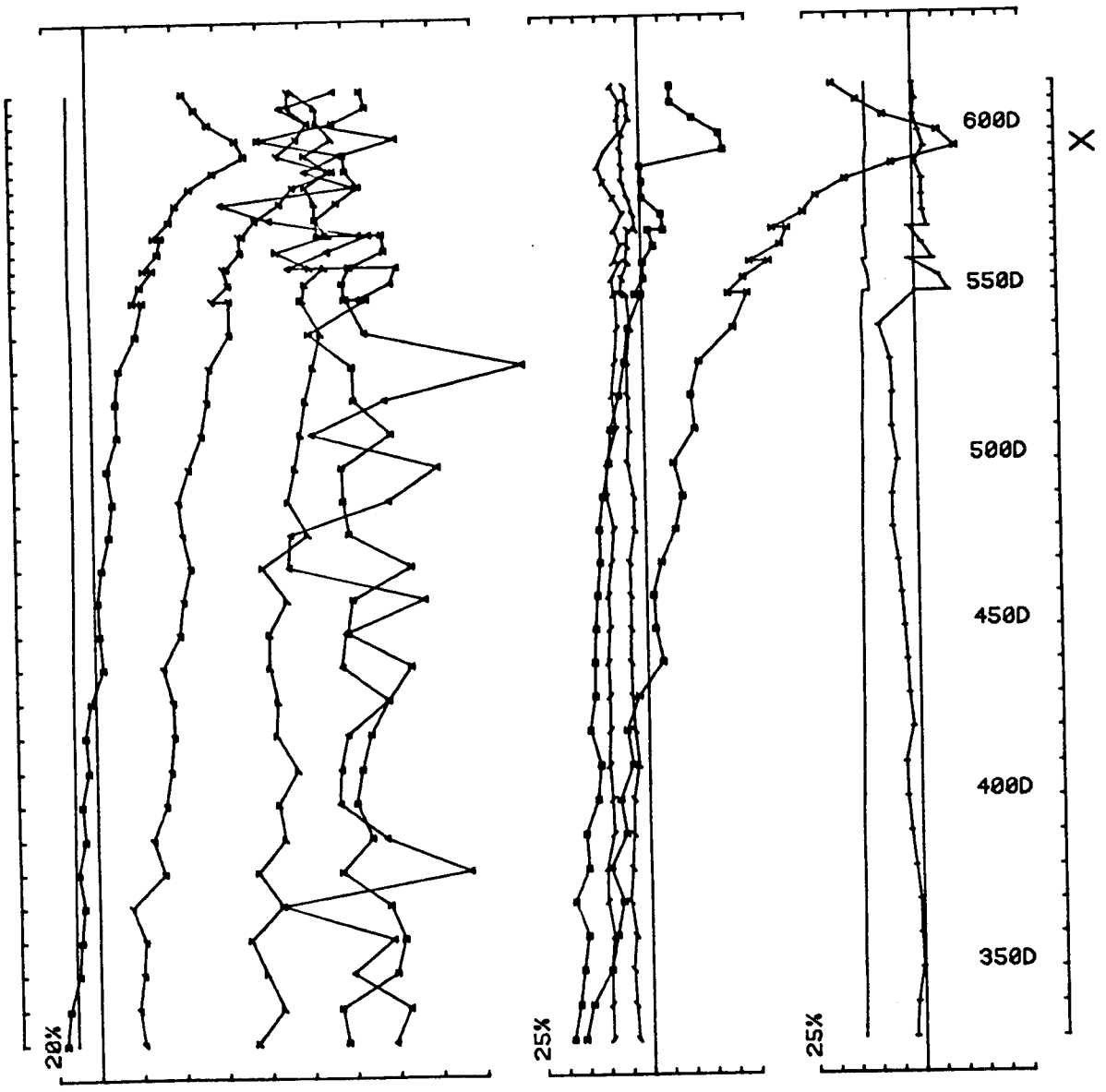
DS 3a



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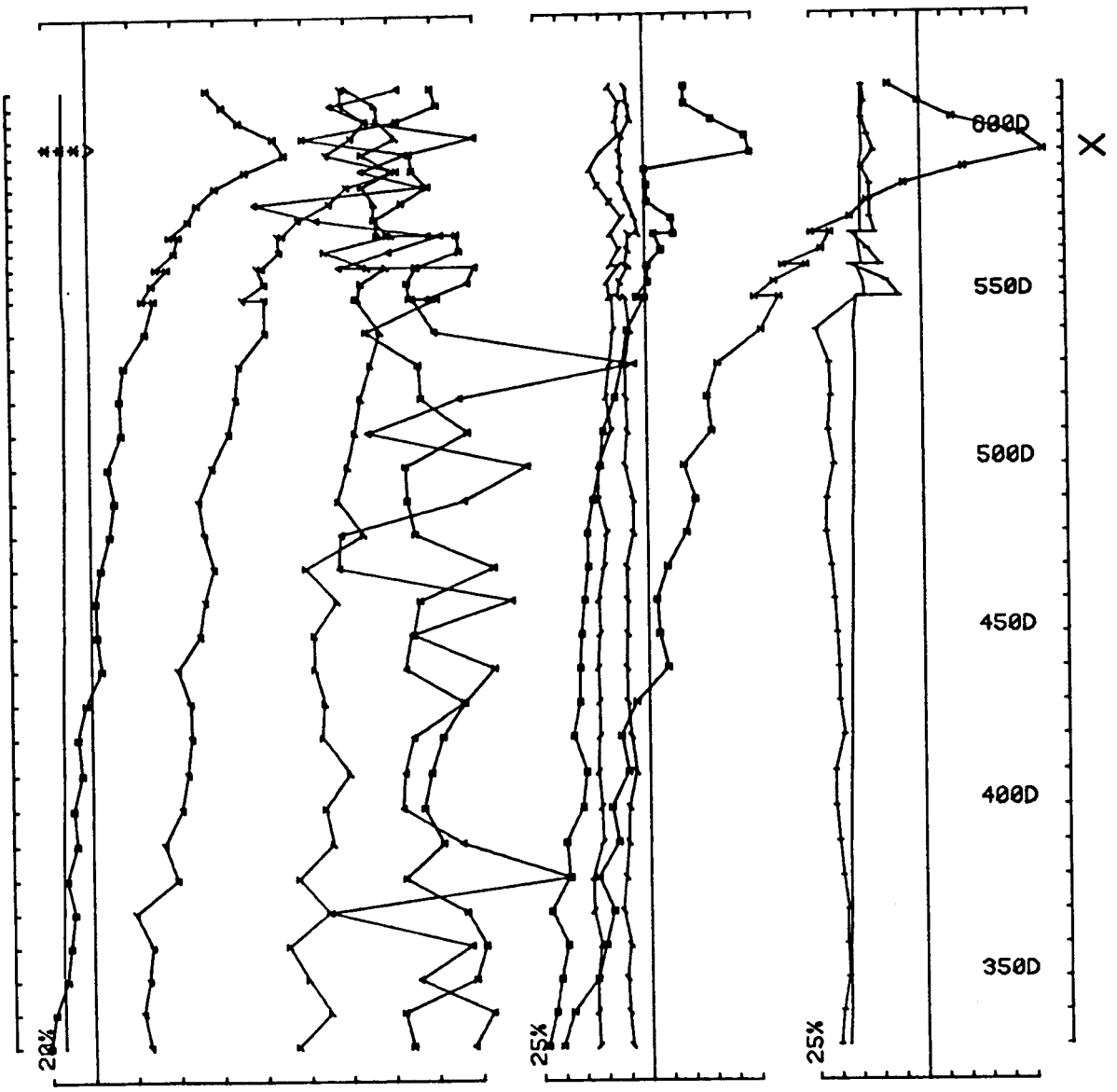
Loopno 4 DDH 6459 cosponent Axial secondary

ABS(total field) CONTINUOUS normalized CH 1 reduced

DS 4



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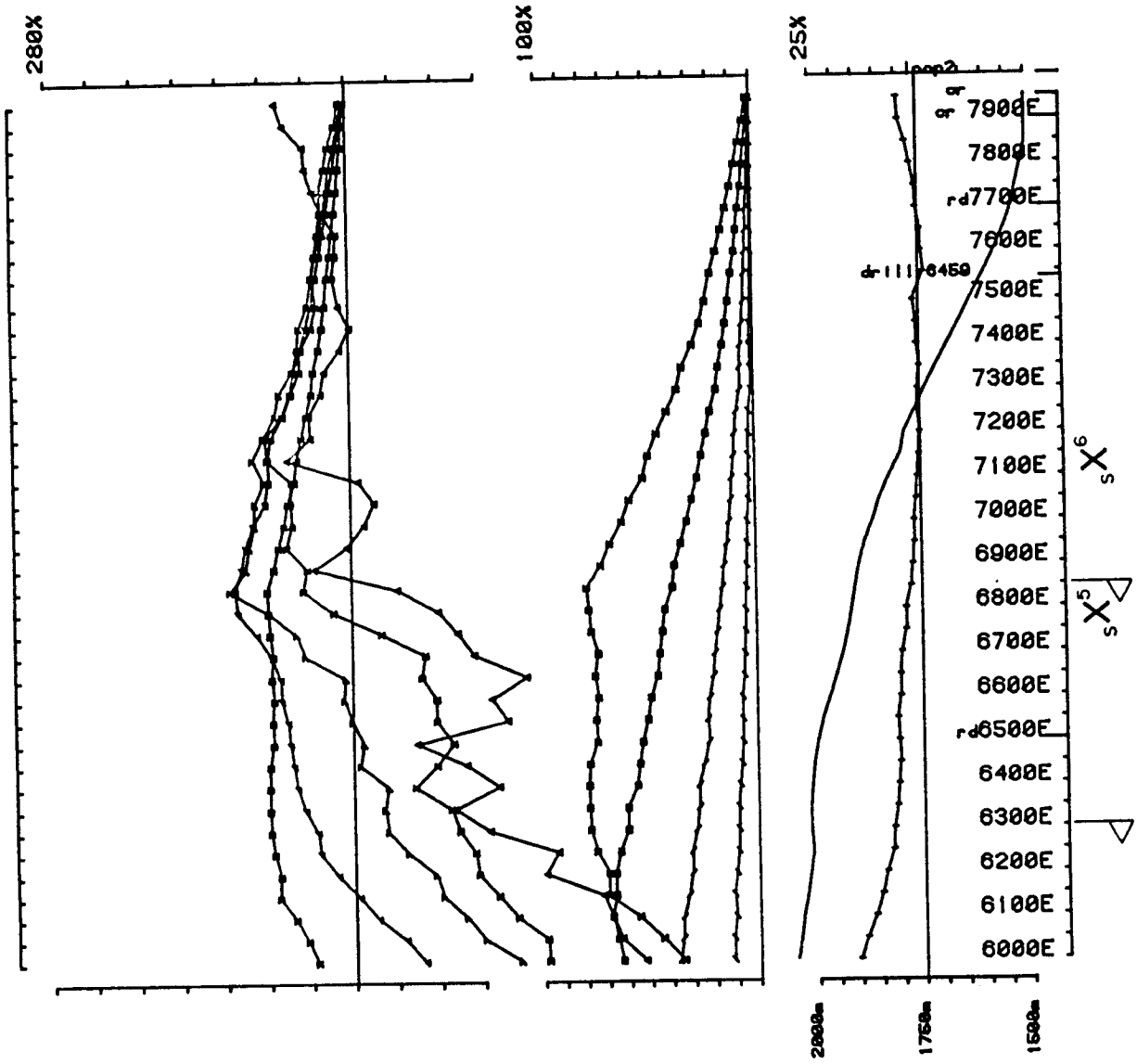
ABS(total field) POINT normalized CH 1 reduced

DS 4a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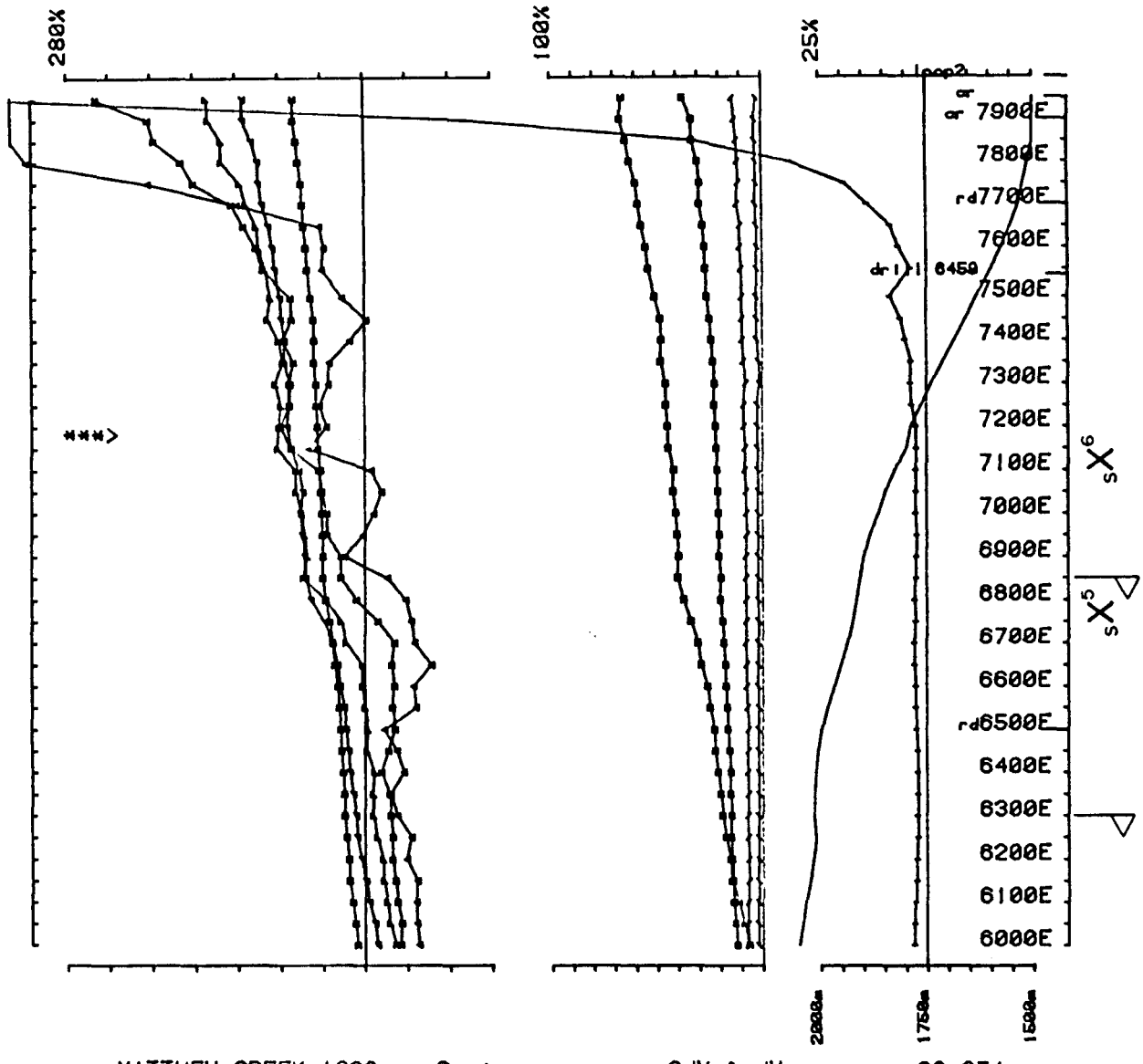
Loopno 2 Line 4000N component Hz secondary Ch 1 normalized Ch 1 reduced

DS 5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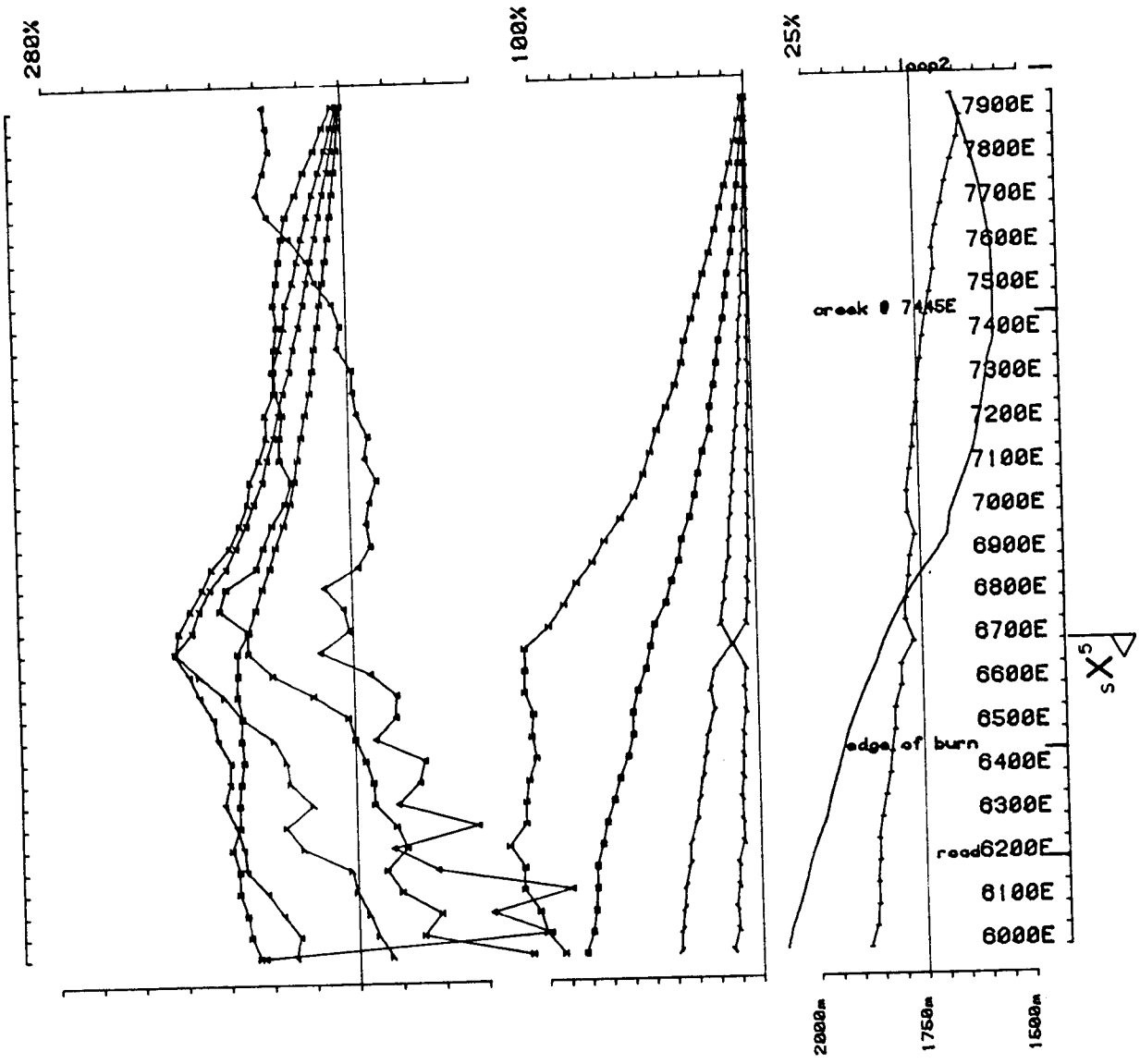
Loopno 2 Line 4000N component Hz secondary Ch 1 normalized Ch 1 reduced

DS 5a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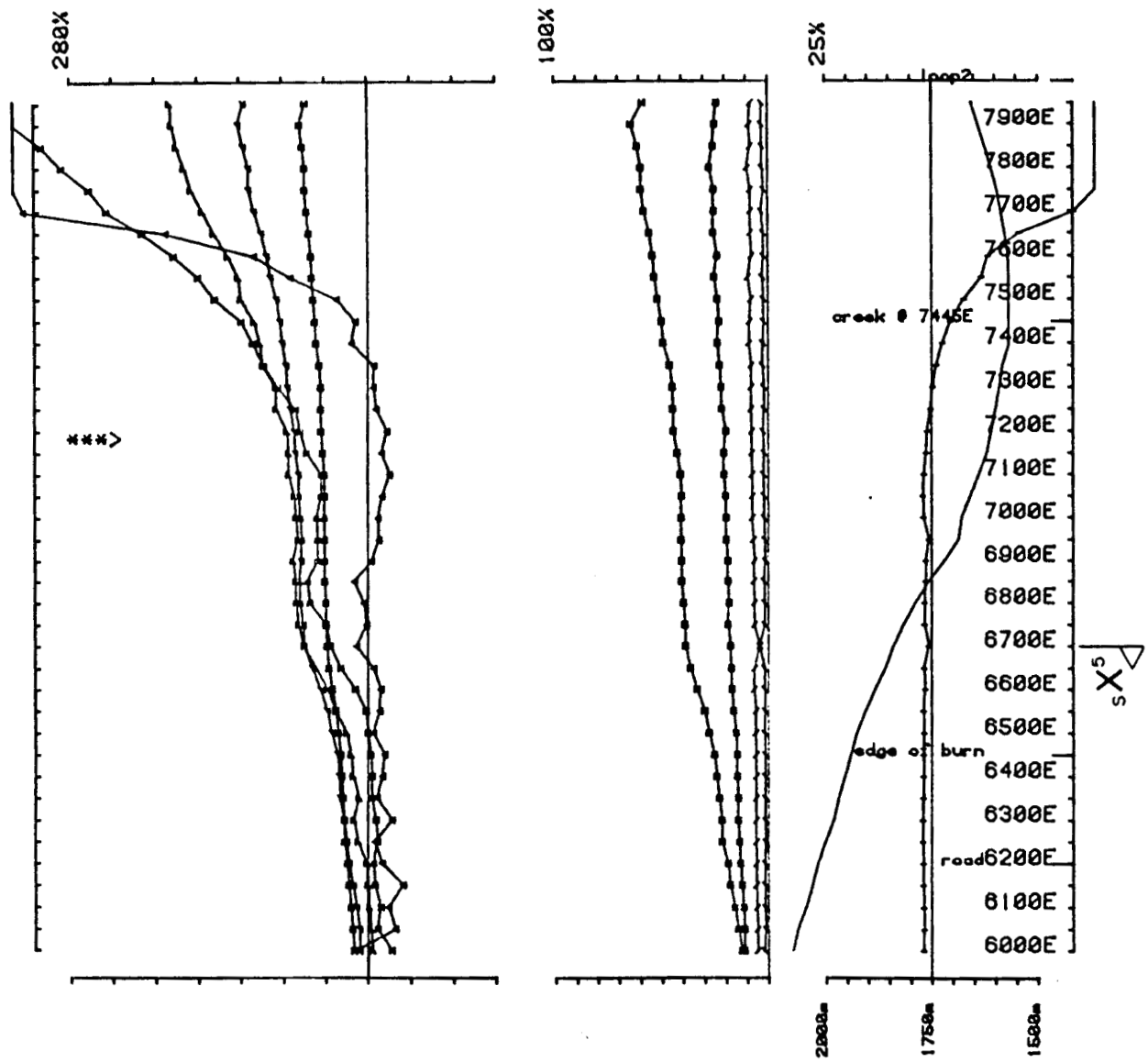
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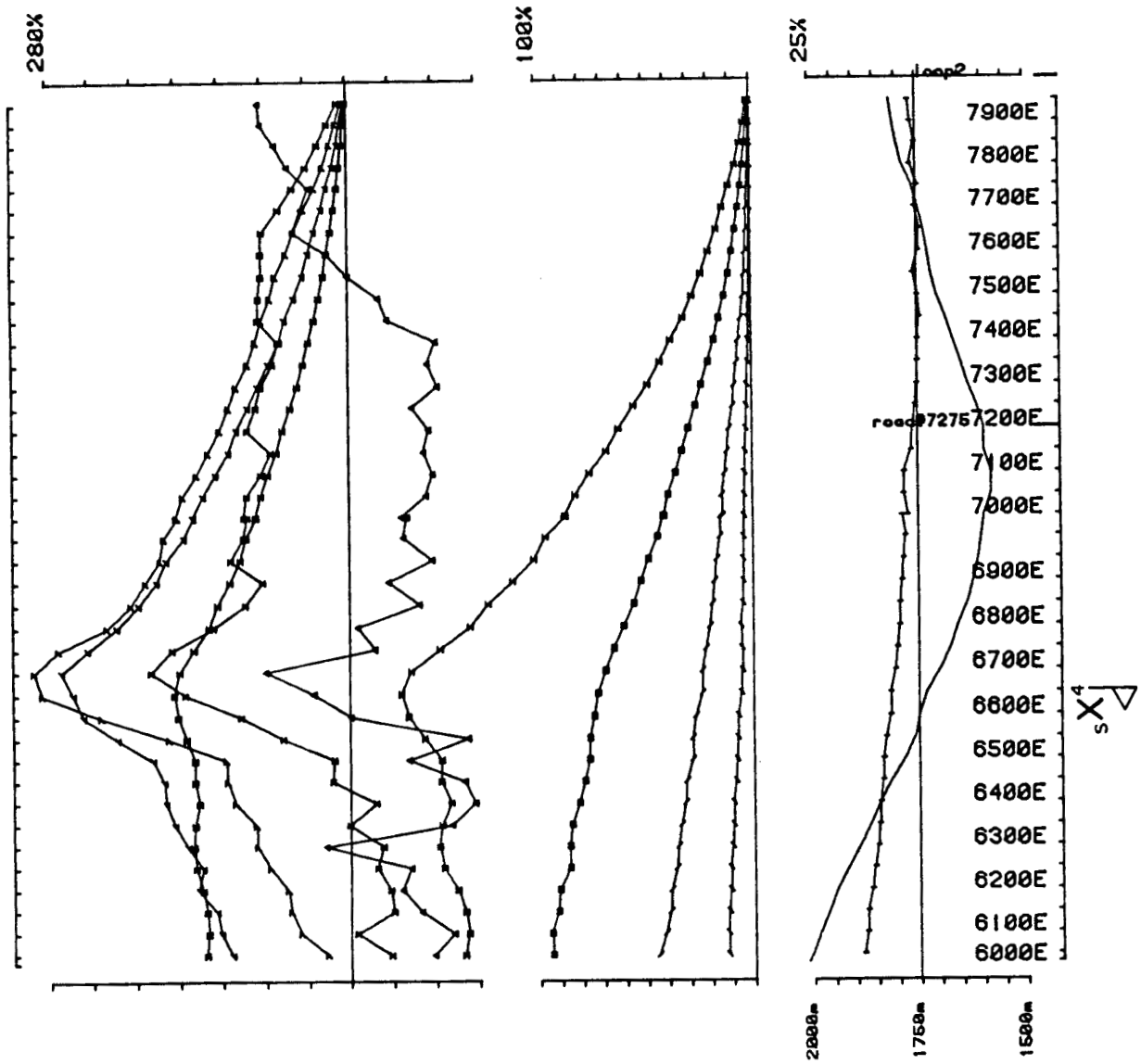
Area MATTHEW CREEK 1986 Cominco operator SJV & JV freq(hz) 30.974
Loopno 2 Line 4500N component Hz secondary Ch I normalized Ch I reduced

DS 6a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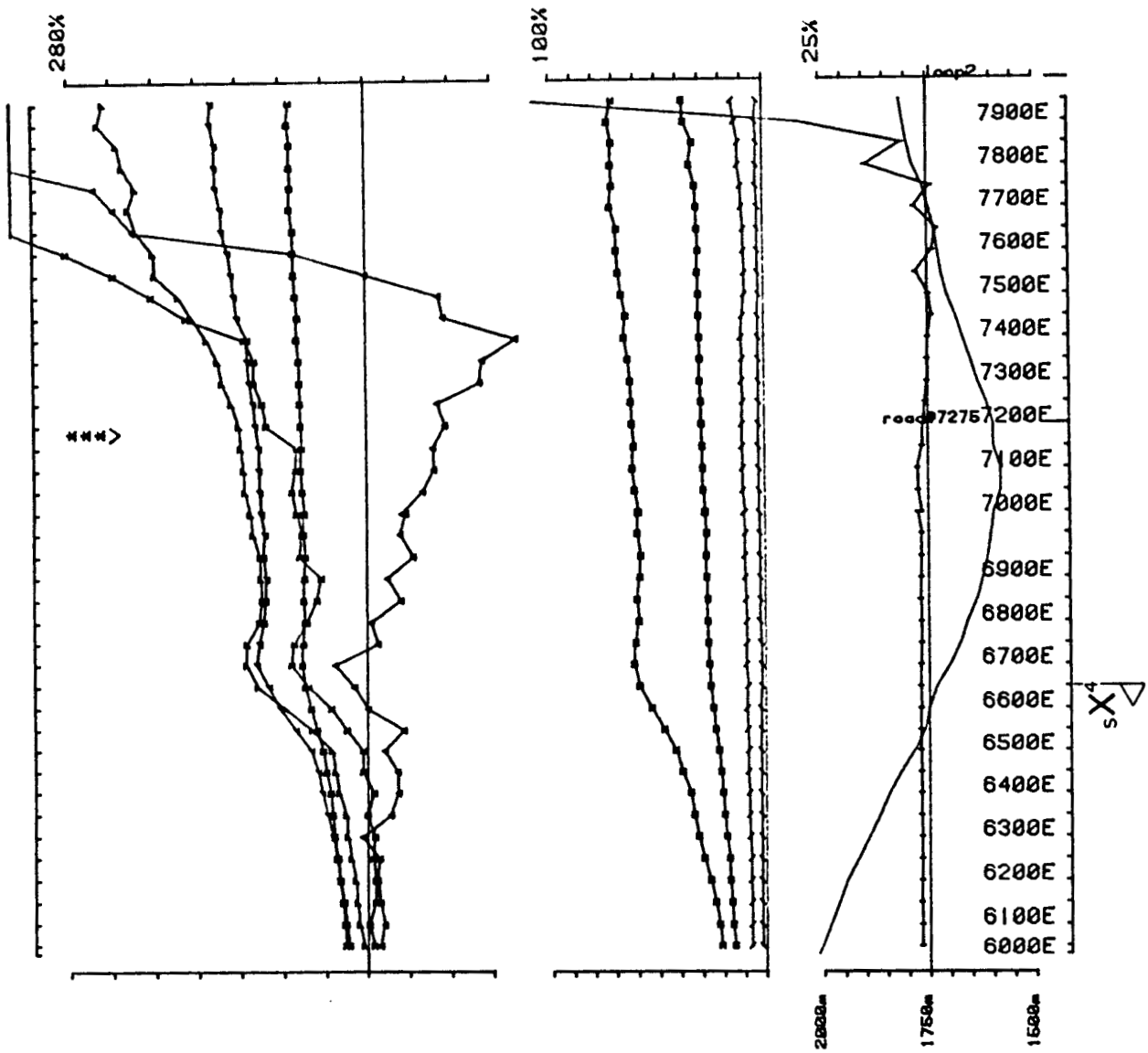
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Ch I normalized
Ch I reduced

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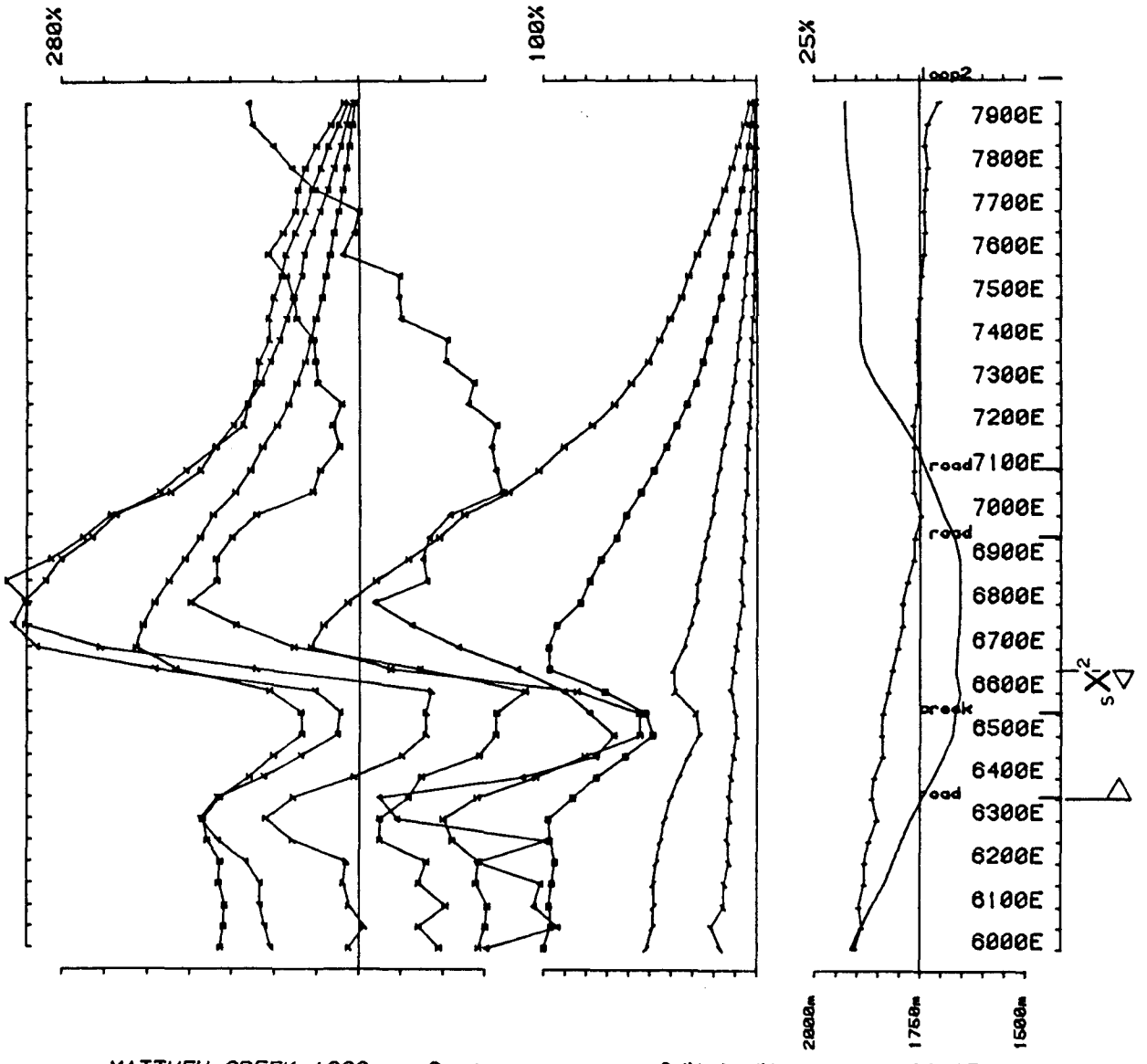
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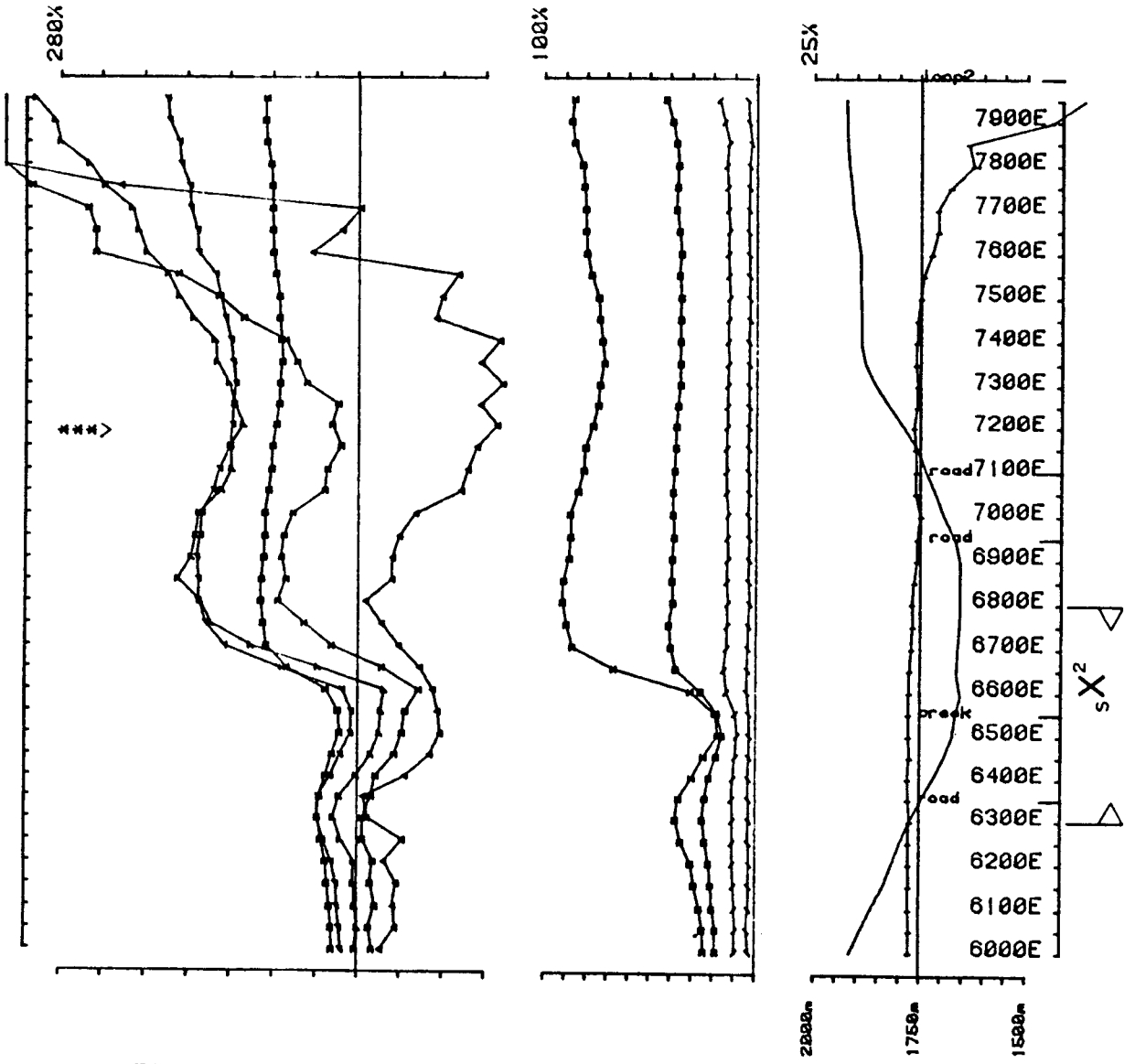
Area MATTHEW CREEK 1986 Cominco operator SJV & JV freq(hz) 30.974
Loopno 2 Line 5500N component Hz secondary Ch 1 normalized Ch 1 reduced

DS 8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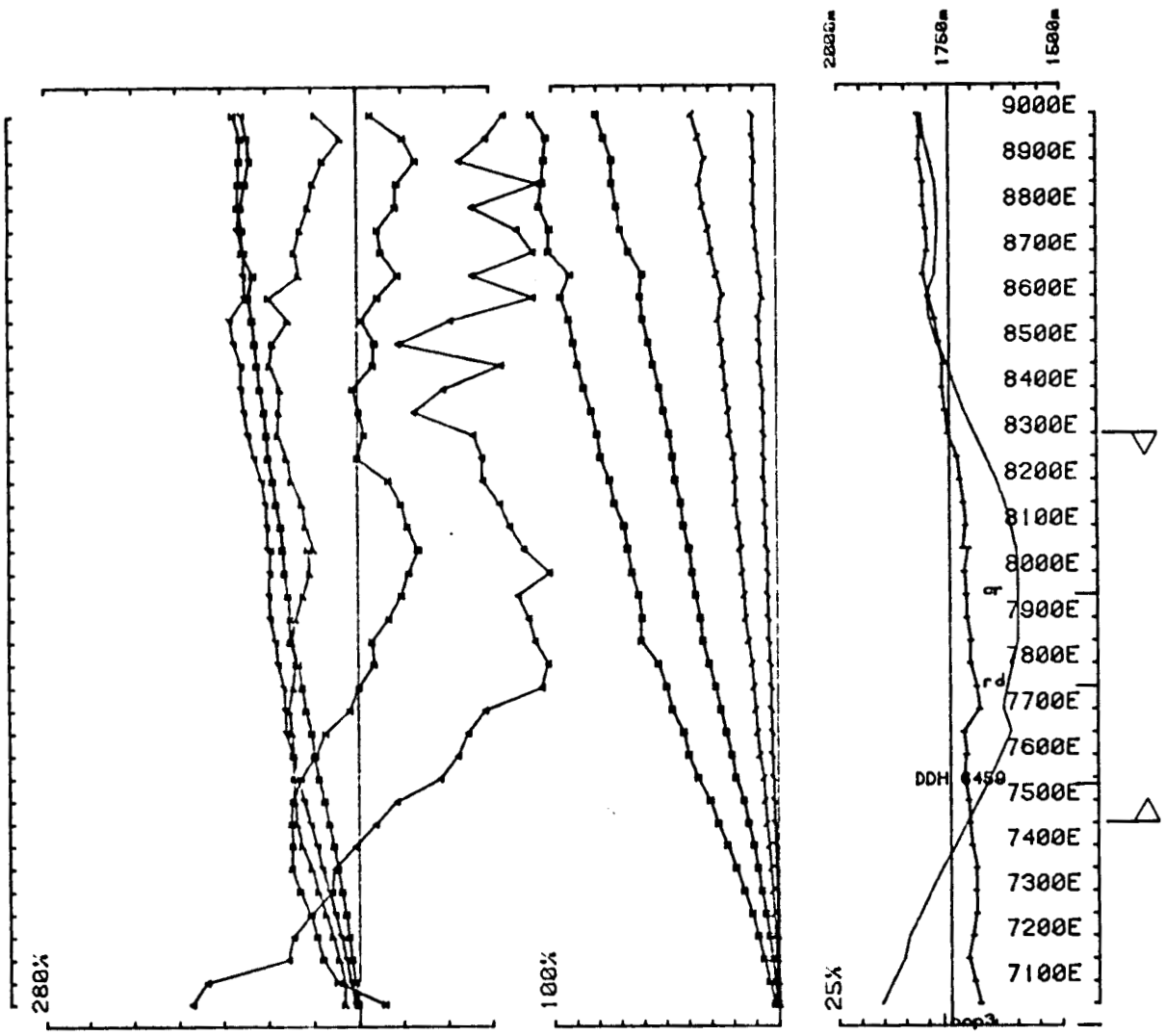
DS 8a



Area MATTHEW CREEK 1986 Cominco operator SJV & JV freq(hz) 30.974

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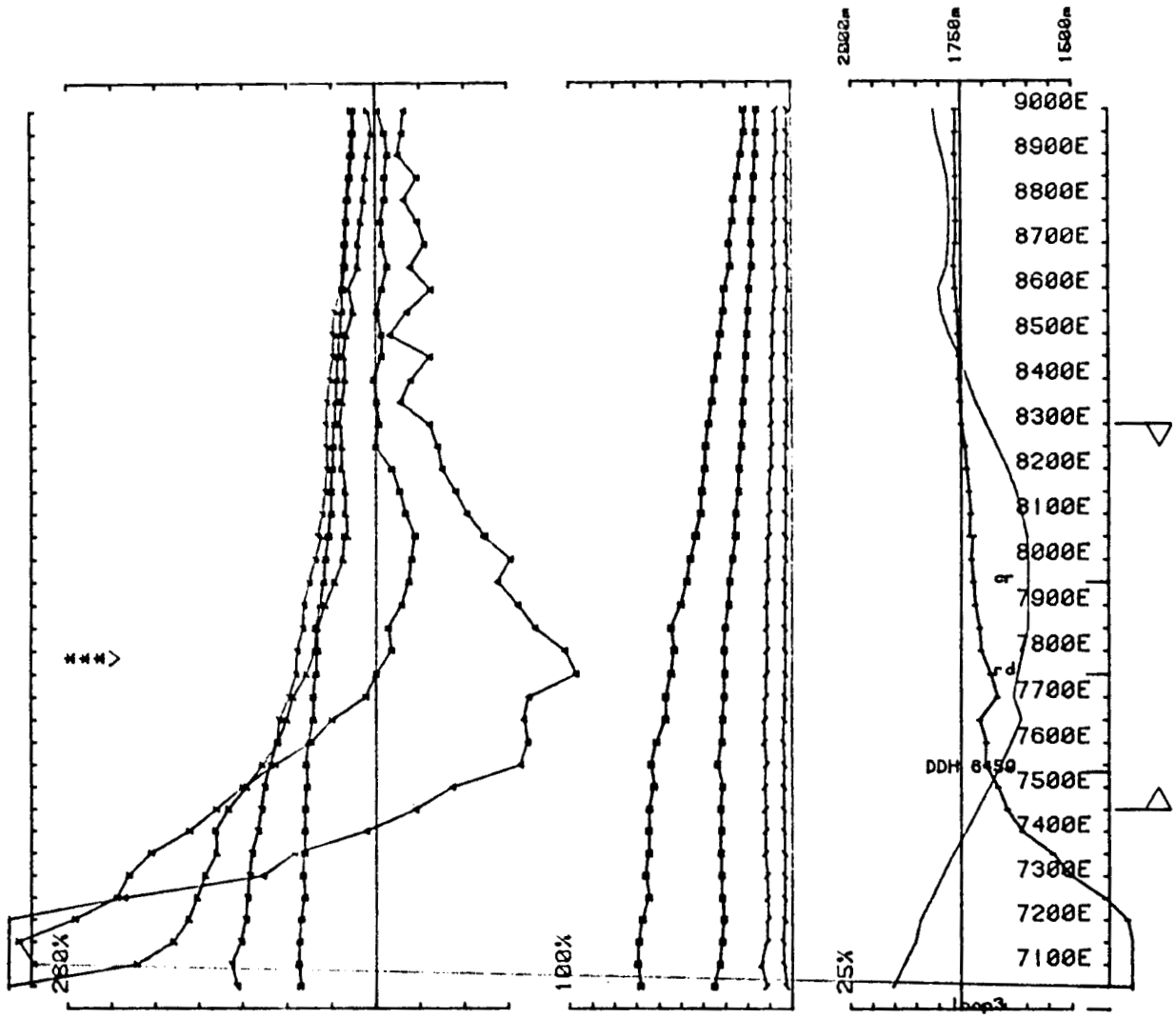

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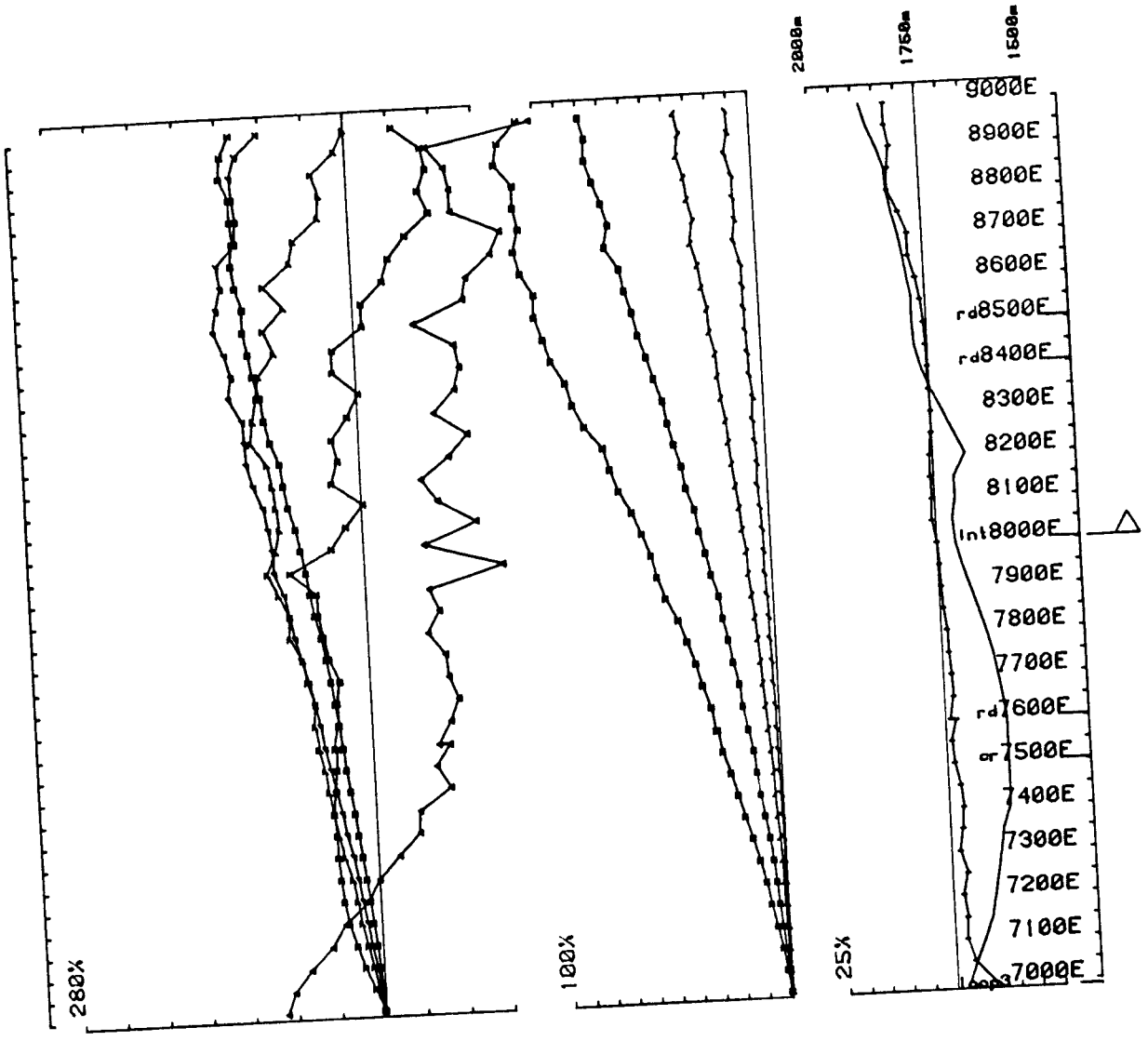

Area MATTHEW CREEK 1986 Cominco operator SJV & JV freq(hz) 30.974

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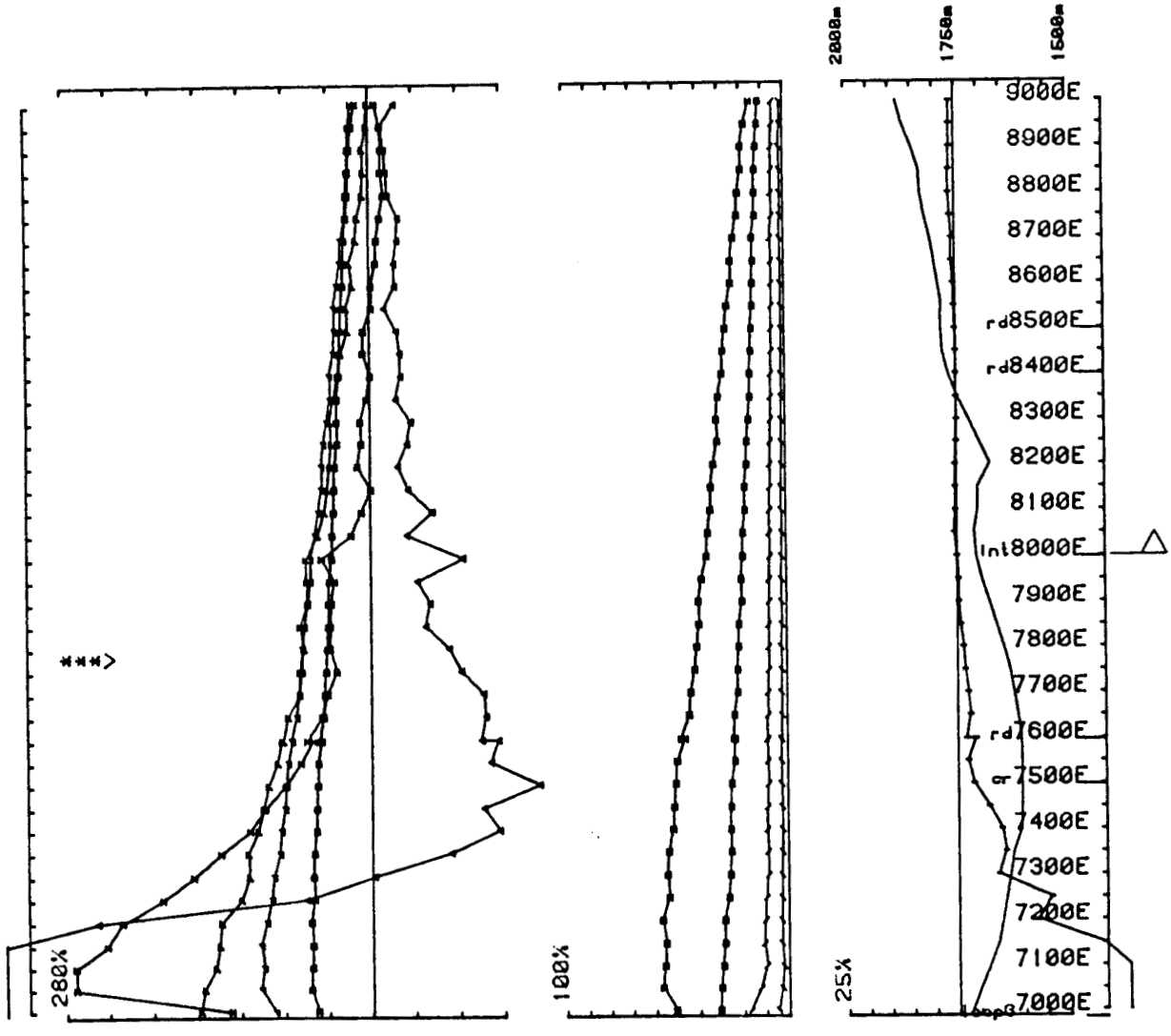
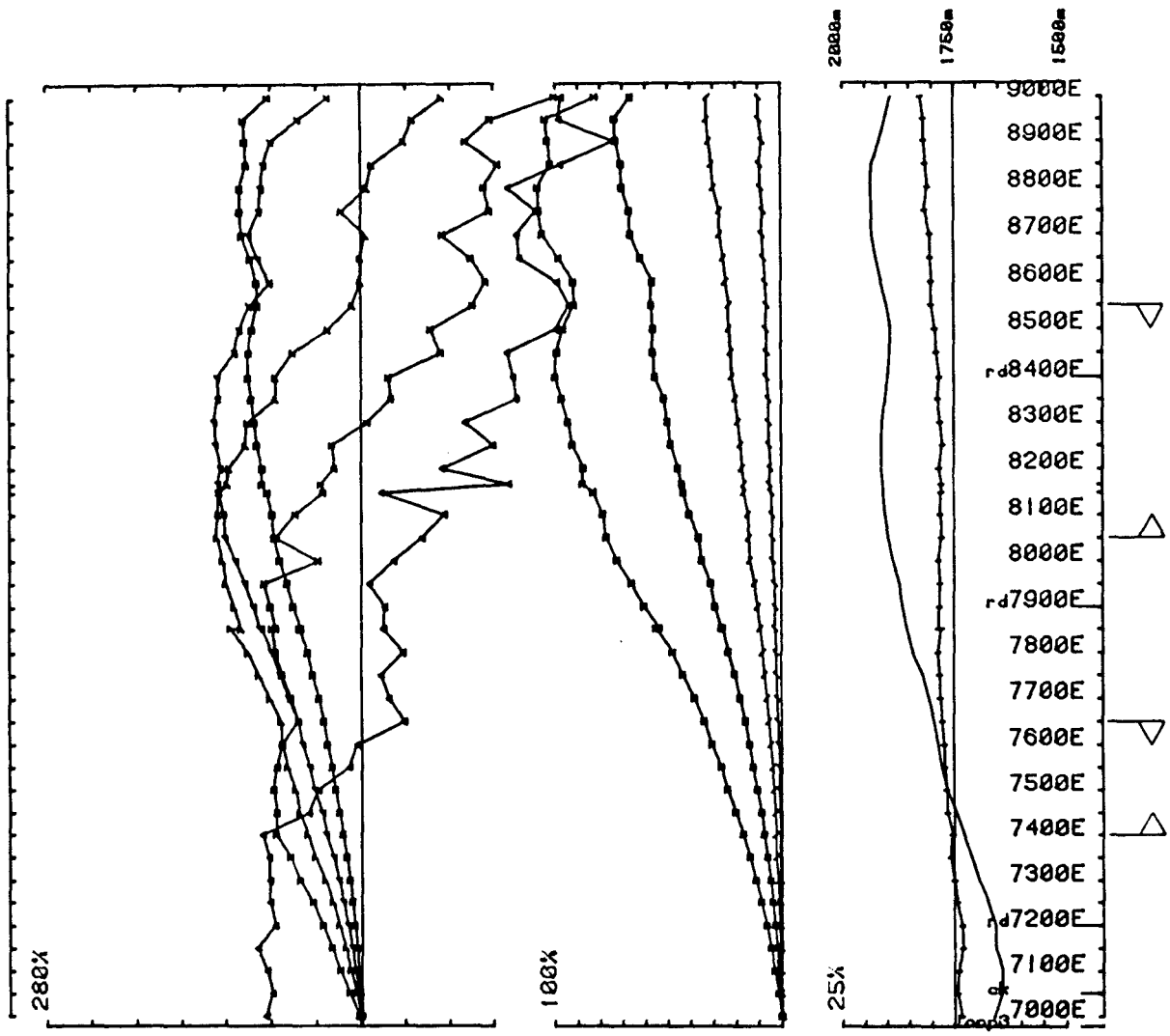


Area MATTHEW CREEK 1986 Cominco operator SJV & JV freq(hz) 30.974

Loopno 3 Line 4500N component Hz secondary Ch I normalized Ch I reduced

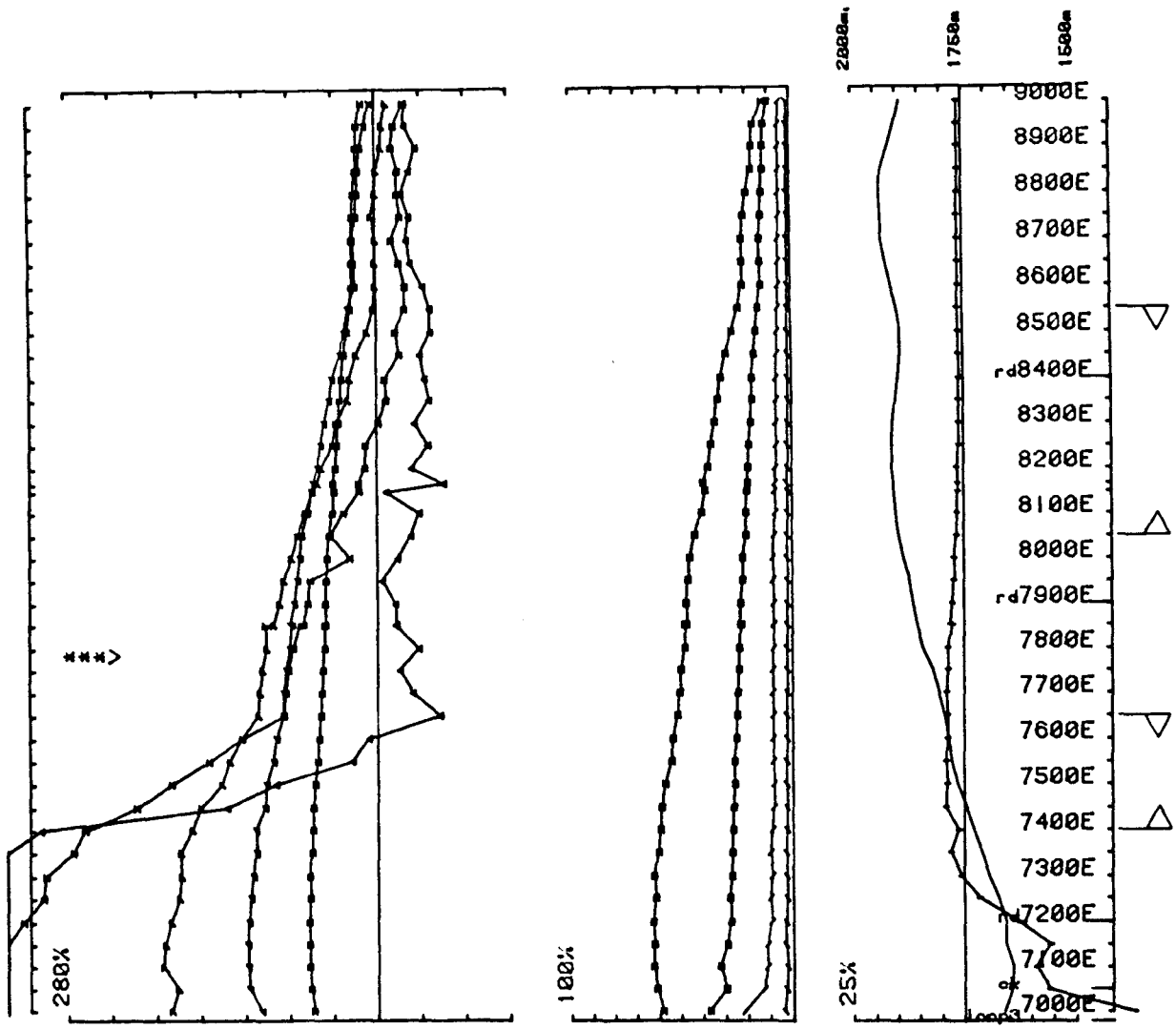
DS 10a



Area MATTHEW CREEK 1986 Cominco operator SJV & JV freq(hz) 30.974

Loopno 3 Line 5000N component Hz secondary Ch 1 normalized Ch 1 reduced

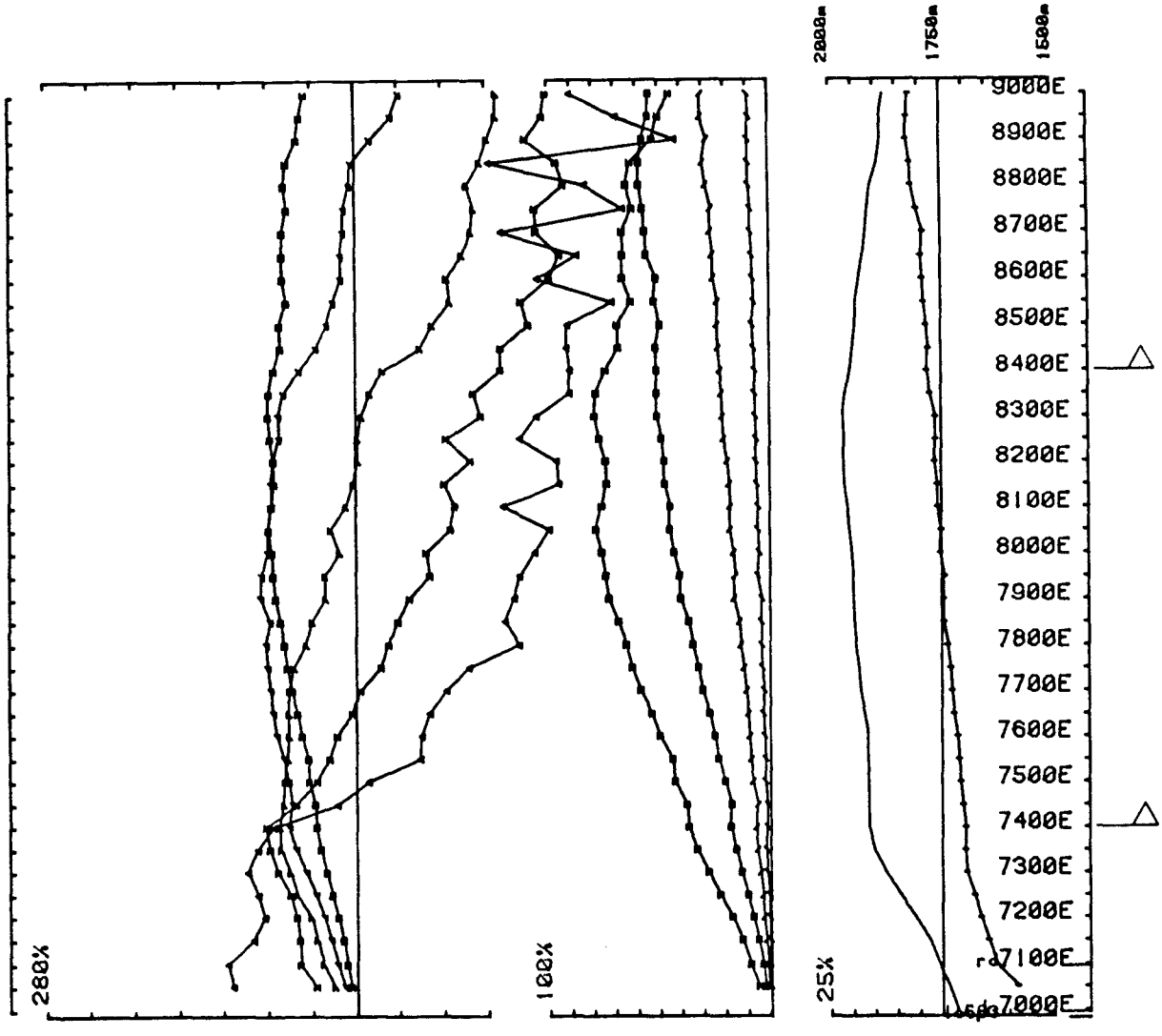
DS 11



Area MATTHEW CREEK 1986 Cominco operator SJV & JV freq(hz) 30.974

Loopne 3 Line 5000N component Hz secondary Ch I normalized Ch I reduced

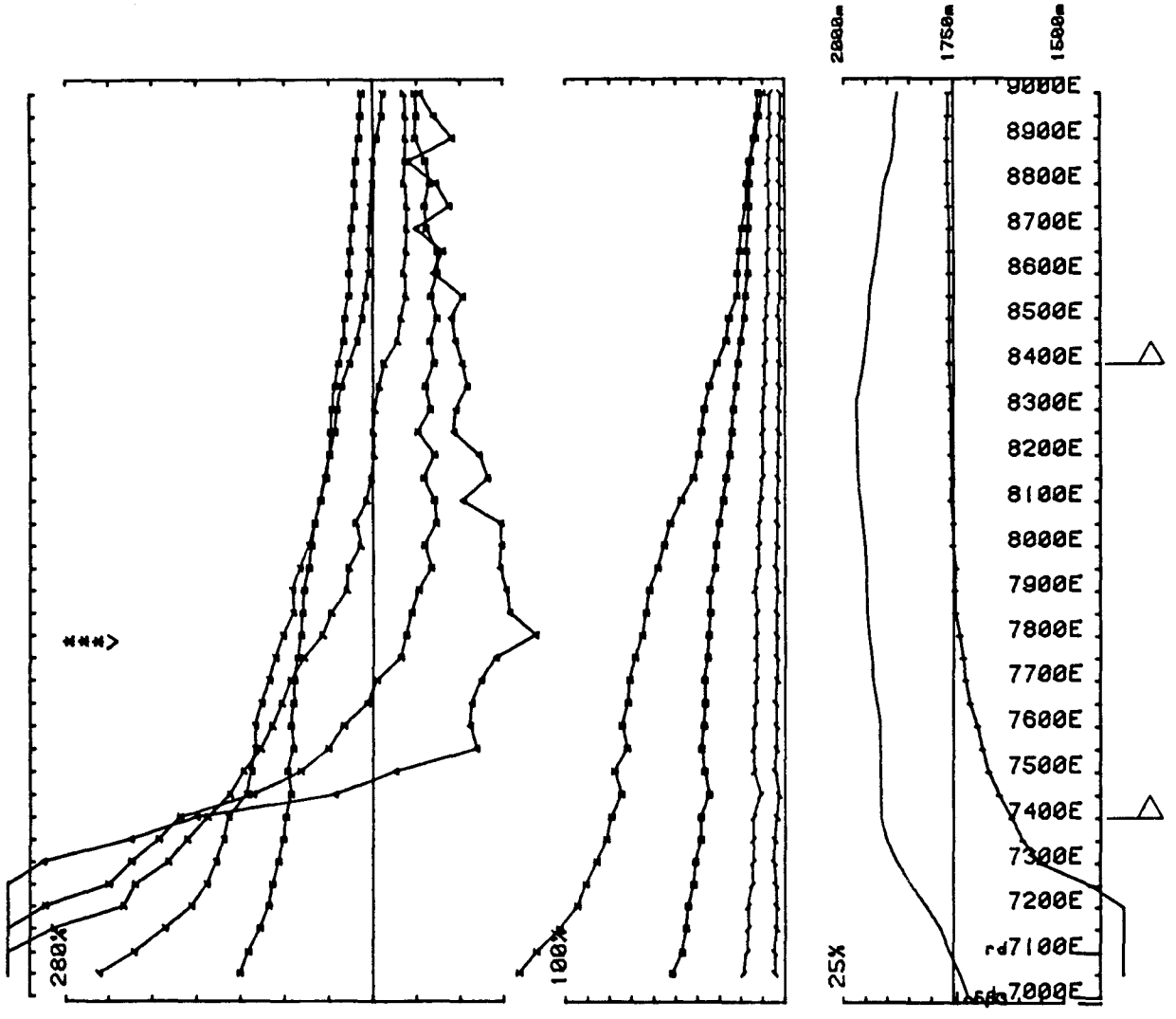
DS 11a



Area MATTHEW CREEK 1986 Cominco operator SJV & JV freq(hz) 30.974

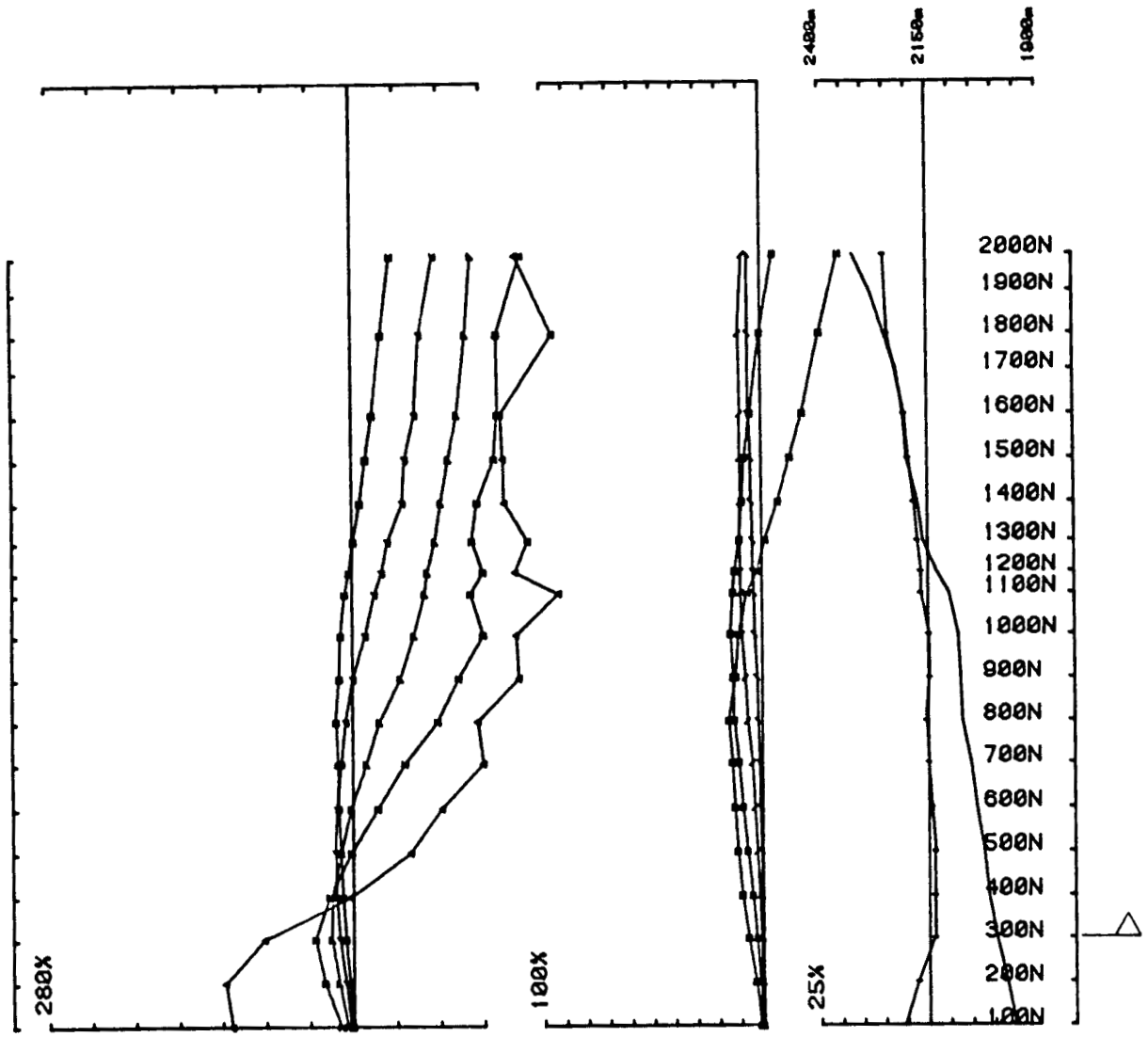
Loopno 3 Line 5500N component Hz secondary Ch I normalized Ch I reduced

DS 12

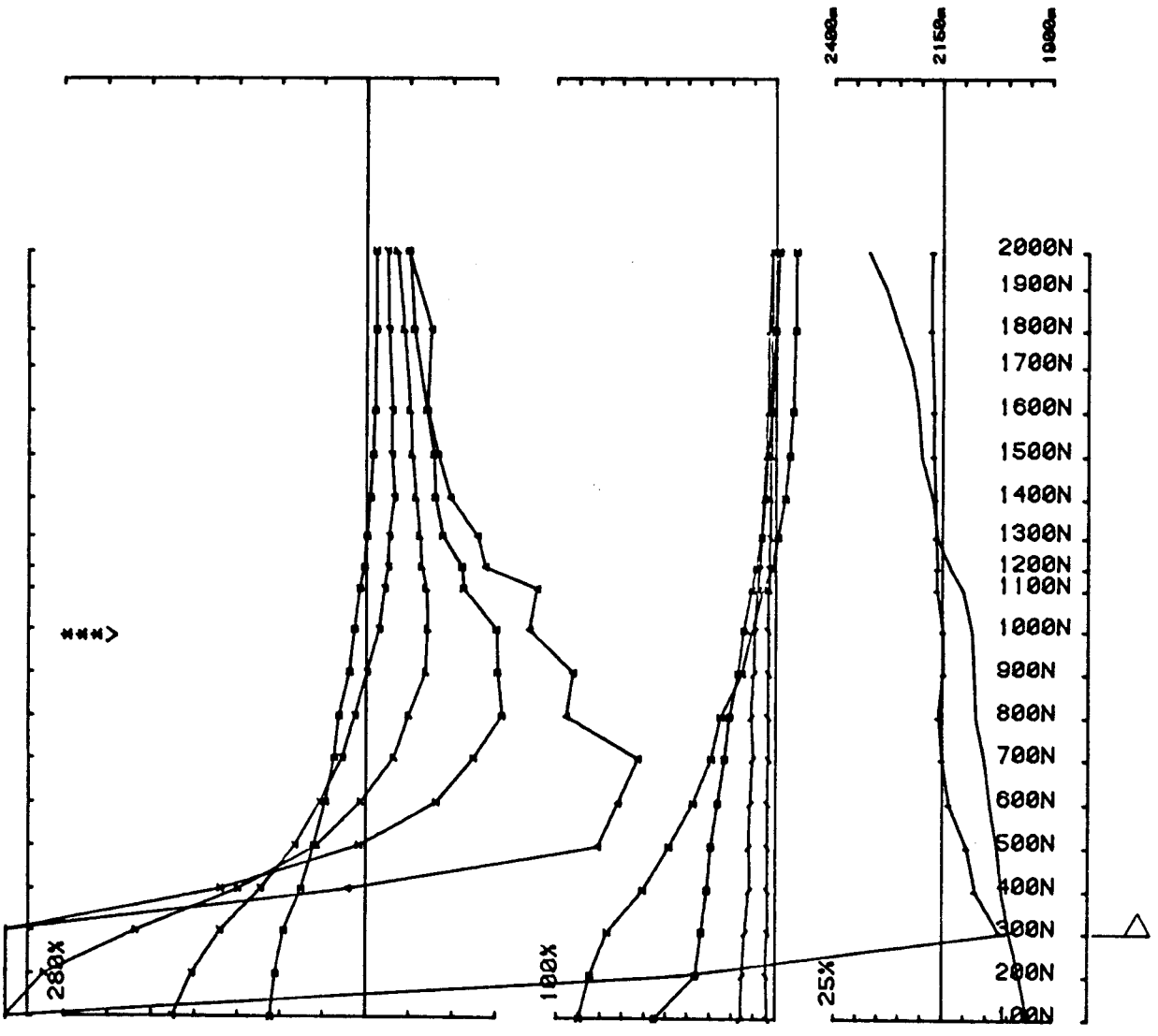


Area MATTHEW CREEK 1986 Cominco operator SJV & JV freq(hz) 30.974
Loopno 3 Line 5500N component Hz secondary Ch I normalized Ch I reduced

DS 12a

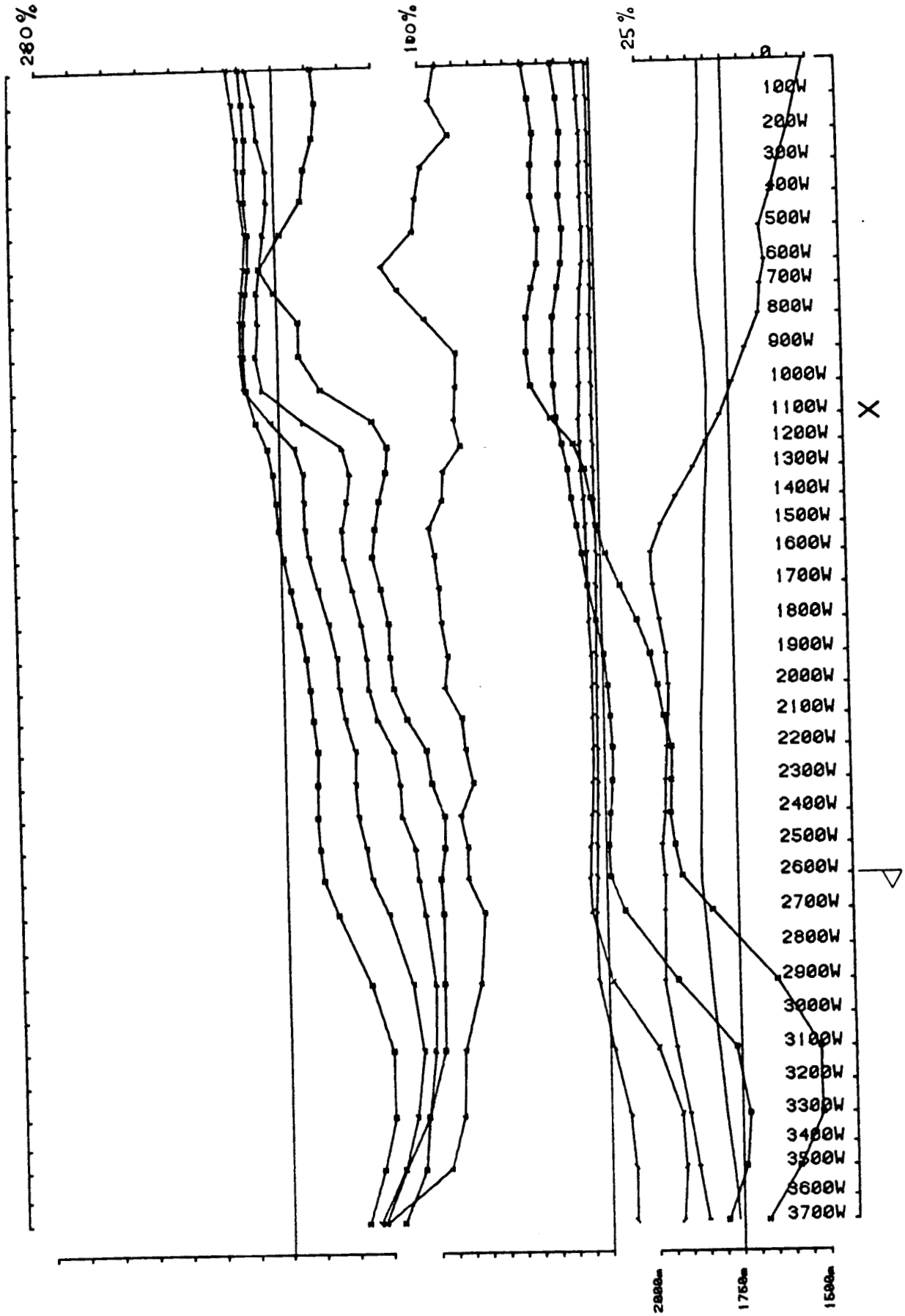


Area MATTHEW CREEK RECCE 1986 Cominco operator SJV &JV freq(hz) 30.974
Loopno 2 Line Fire Break R1 component Hz secondary Ch 1 normalized Ch 1 reduced



Area MATTHEW CREEK RECCE 1986 Cominco operator SJV &JV freq(hz) 30.974
Loopno 2 Line Fire Break R1 component Hz secondary Ch I normalized Ch I reduced

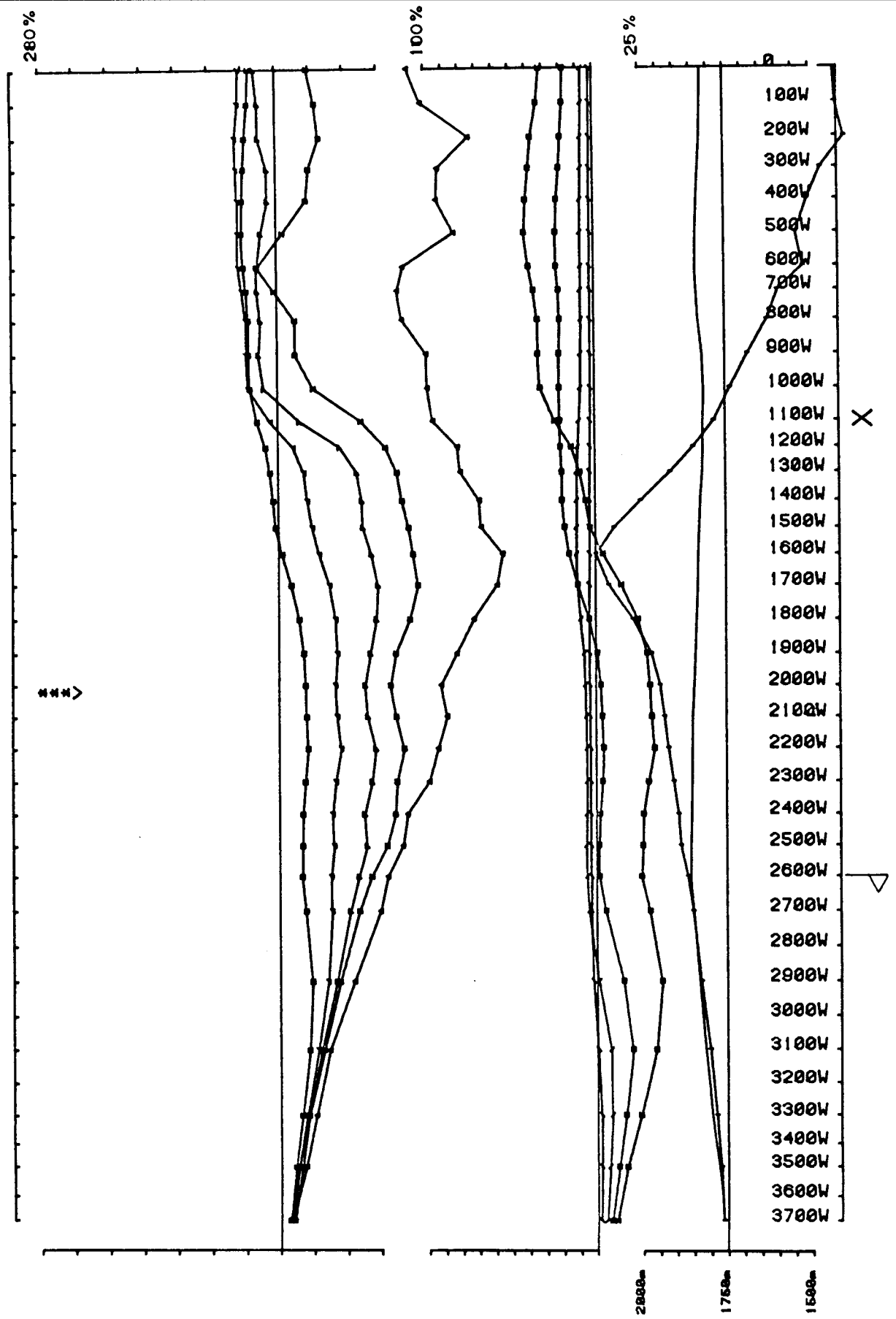
DS 13a



Area MATTHEW CREEK RECCE 1986 Cominco operator SJV & JV freq(hz) 30.974

Loops 3 Line Road 4 component Hz secondary Ch 1 normalized Ch 1 reduced

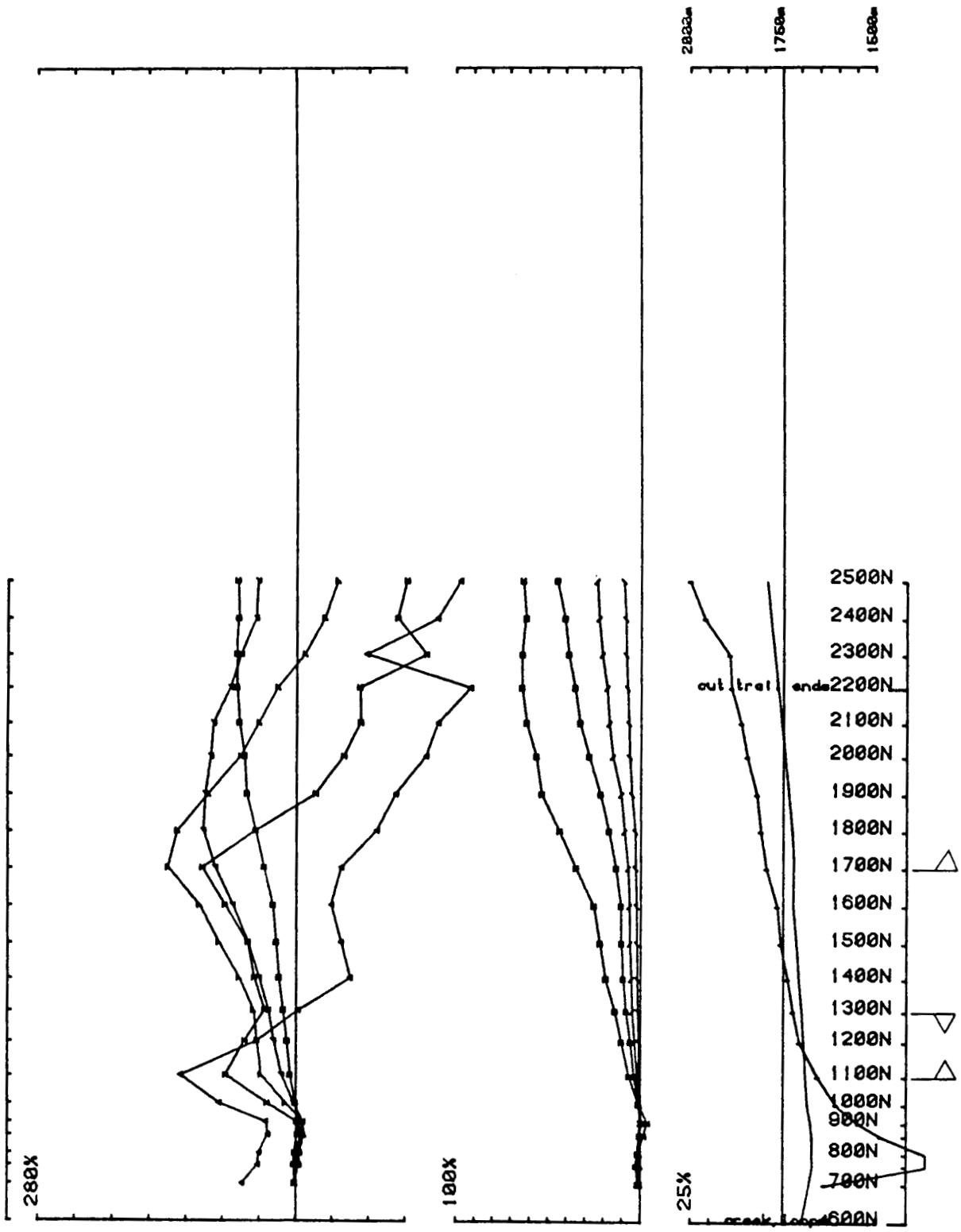
DS 14



Area MATTHEW CREEK RECCE 1986 Cominco operator SJV & JV freq(hz) 30.974

Leeone 3 Line Road 4 component Hz secondary Ch 1 normalized Ch 1 reduced

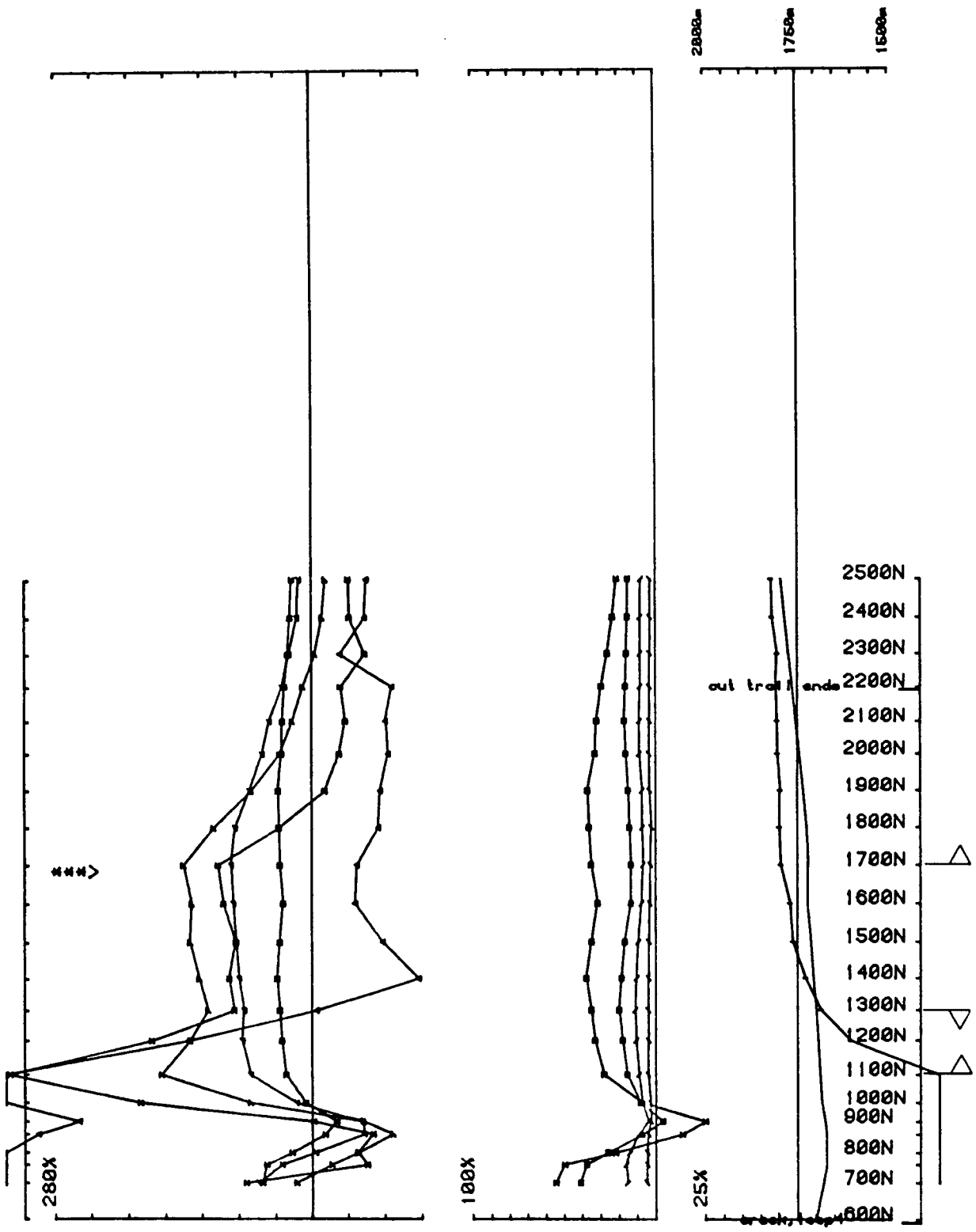
DS 14a



Area MATTHEW CREEK RECCE 1986 Cominco operator SJV & JV freq(hz) 30.974

Loopno 4 Line Trail R2 component Hz secondary Ch 1 normalized Ch 1 reduced

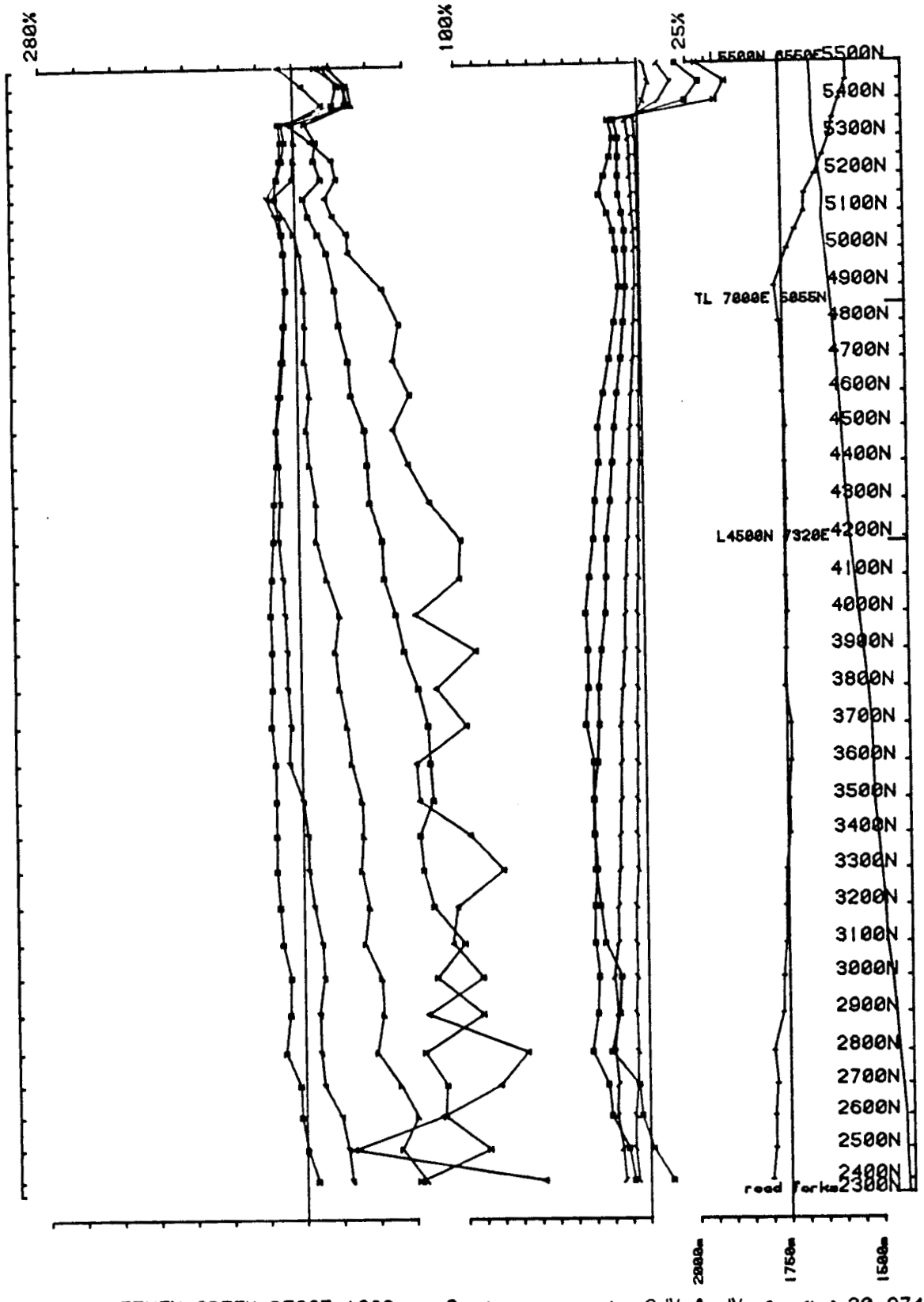
DS 15



Area MATTHEW CREEK RECCE 1986 Cominco operator SJV & JV freq(hz) 30.974

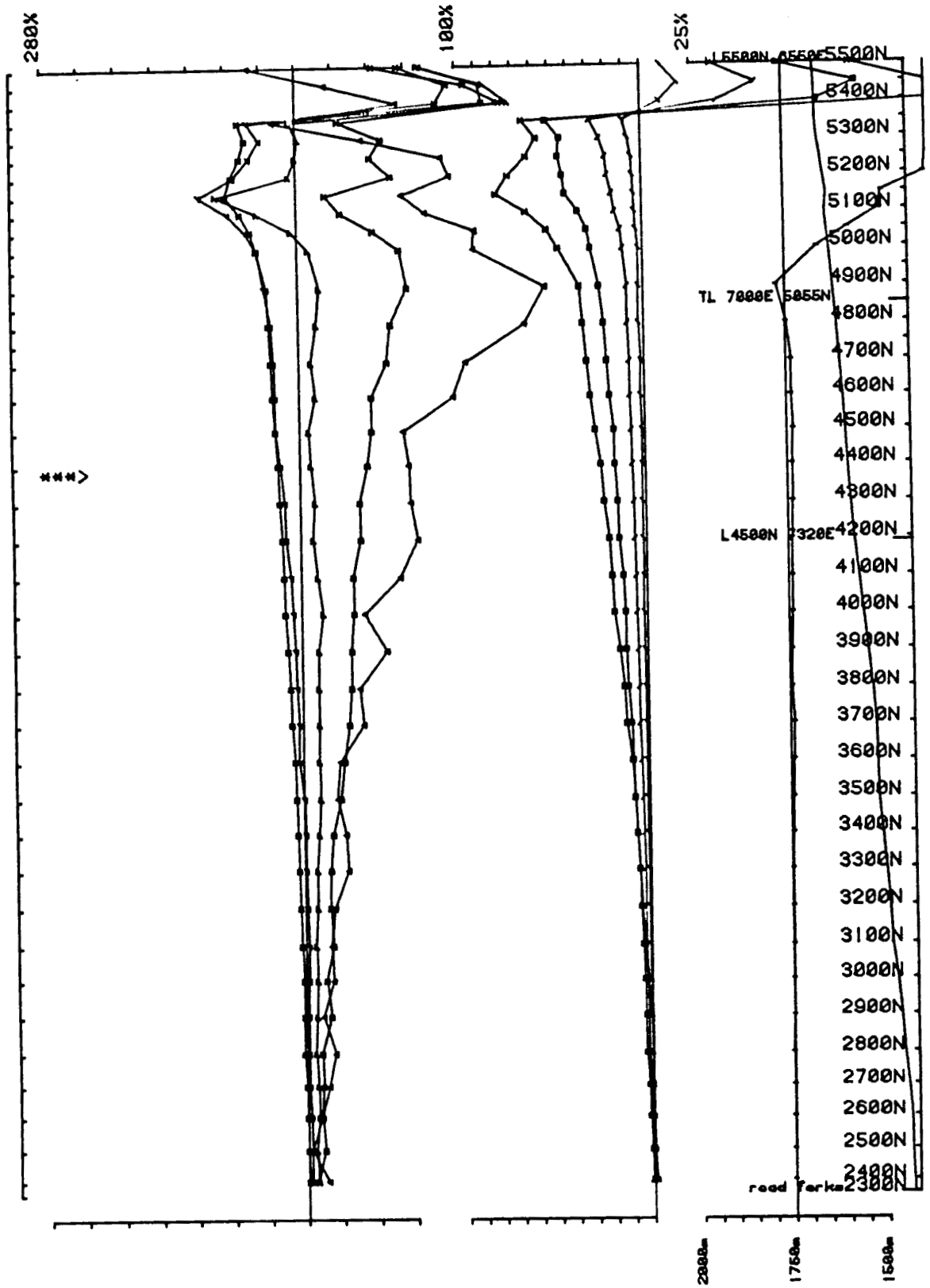
Loopno 4 Line Trail R2 component Hz secondary Ch I normalized Ch I reduced

DS 15a



Area MATTHEW CREEK RECCE 1986 Cominco operator SJV & JV freq(hz) 30.974

Loopno 4 Line Road 65 component Hz secondary Ch 1 normalized Ch 1 reduced



Area MATTHEW CREEK RECCE 1986 Cominco operator SJV & JV freq(hz) 30.974

Loopno 4 Line Road 65 component Hz secondary Ch I normalized Ch I reduced

DS 16 a

APPENDIX III

APPENDIX III

IN THE MATTER OF THE B.C. MINERAL ACT

AND IN THE MATTER OF A GEOPHYSICAL PROGRAMME

CARRIED OUT ON MAT 71 GROUP OF CLAIMS

LOCATED 7 KM WEST OF KIMBERLEY, B.C.

IN THE FORT STEELE MINING DIVISION OF

PROVINCE OF BRITISH COLUMBIA, MORE PARTICULARLY

N.T.S.: 82F/9

S T A T E M E N T

I, SYD J. VISSER, OF THE MUNICIPALITY OF DELTA, IN THE PROVINCE OF BRITISH COLUMBIA, MAKE OATH AND SAY:-

1) THAT I am employed as a geophysicist by S.J.V. Consultants Ltd., on contract with Cominco Ltd. and as such have a personal knowledge of the facts to which I hereinafter depose;

2) THAT annexed hereto and marked as "EXHIBIT "A" to this statement is a true copy of expenditures incurred on a geophysical survey on the MAT 71 group of mineral claims;

3) THAT the said expenditures were incurred for the purpose of mineral exploration of the above-noted claims in the period between the 24th day of July and 6th day of September, 1986.

Signed: 

S.J. Visser, B.Sc.
Geophysicist
S.J.V. Consultants Ltd.

DECEMBER 1986

EXHIBIT "A"

STATEMENT OF GEOPHYSICAL EXPENDITURES - 1986

ON THE MAT 71 GROUP OF CLAIMS

UTEM SURVEY (SURFACE)

(1) SALARIES

a)	S.J. Visser, geophysicist 10 days @ $240/day	$ 2,400.00	
b)	J. Vyselaar, geophysicist 15 days @ $240/day	3,600.00	
c)	M.J. Davies, technician 10 days @ $115/day	1,150.00	
d)	N. Murphy, assistant 4 days @ $70/day	280.00	
e)	S. Kemp, assistant 9 days @ $80/day	720.00	
f)	D. Askey, assistant 2 days @ $75/day	150.00	$ 8,300.00

(2) OPERATING DAY CHARGES Note: This charge is applied for those days on which useful data are acquired, to cover cost of data compilation, drafting, interpretation and report

10 days @ $250/day 2,500.00

(3) EQUIPMENT RENTAL

UTEM 10 operating days @ $150/day 1,500.00

(4) EXPENSE ACCOUNTS

S.J. Visser	560.00	
J. Vyselaar	450.00	
M.J. Davies	310.00	1,320.00

Carried Forward 13,620.00

	Carried Forward	$ 13,620.00

(5) MISCELLANEOUS

Accommodation 12 days @ $50/day	600.00	
Truck Rental 2 x $40/day x 12 days	960.00	
Demobilization Cost	240.00	
Wire Usage	100.00	1,900.00
Total		15,520.00
Less: Reduction for Work Done on 3 C.G. claims		355.00
Total of UTEM Survey (Surface)		$ 15,165.00

DOWNHOLE BOREHOLE SURVEY

(1) SALARIES

a)	J.J. Lajoie, geophysicist 4 days @ $280/day	$ 1,120.00	
b)	S.J. Visser, geophysicist 7 days @ $240/day	1,680.00	
c)	M.J. Davies, technician 5 days @ $115/day	575.00	
d)	N. Murphy, assistant 4 days @ $70/day	280.00	
e)	S. Kemp, assistant 9 days @ $80/day	720.00	
f)	G. Allen, assistant 4 days @ $75/day	280.00	$ 4,655.00

(2) OPERATING DAY CHARGES Note: This charge is applied for those days on which useful data are acquired, to cover cost of data compilation, drafting, interpretation and report

4 days @ $250/day		1,000.00
	Carried Forward	$ 5,655.00

Carried Forward		5,655.00

(3) EQUIPMENT RENTAL

Downhole UTEM	4 operating days @ $150/day	900.00

(4) EXPENSE ACCOUNTS

J.J. Lajoie	255.00	
S.J. Visser	260.00	
M.J. Davies	200.00	715.00

(5) MISCELLANEOUS

Accommodation	6 days @ $50/day	$ 300.00	
Truck Rental	6 days @ $40/day	240.00	
Shipping Downhole Equipment		370.00	
Wire Usage		75.00	985.00
	Total of Downhole UTEM Survey		$ 8,255.00

TOTAL OF UTEM SURVEY (SURFACE) & DOWNHOLE UTEM SURVEY $ 23,420.00

LINECUTTING CHARGES	$ 4,950.00	
Less: Work Done on 3 C.G. Claims	350.00	
Total Linecutting Charges		$ 4,600.00
TOTAL EXPENDITURES		$ 28,020.00

I certify this to be a true Statement of Expenditures for the geophysical surveys on the Mat 71 Group of Claims in 1986.

S.J. Visser, B.Sc.
Geophysicist
S.J.V. Consultants Ltd.

DECEMBER 1986

APPENDIX IV

APPENDIX IV

C E R T I F I C A T I O N

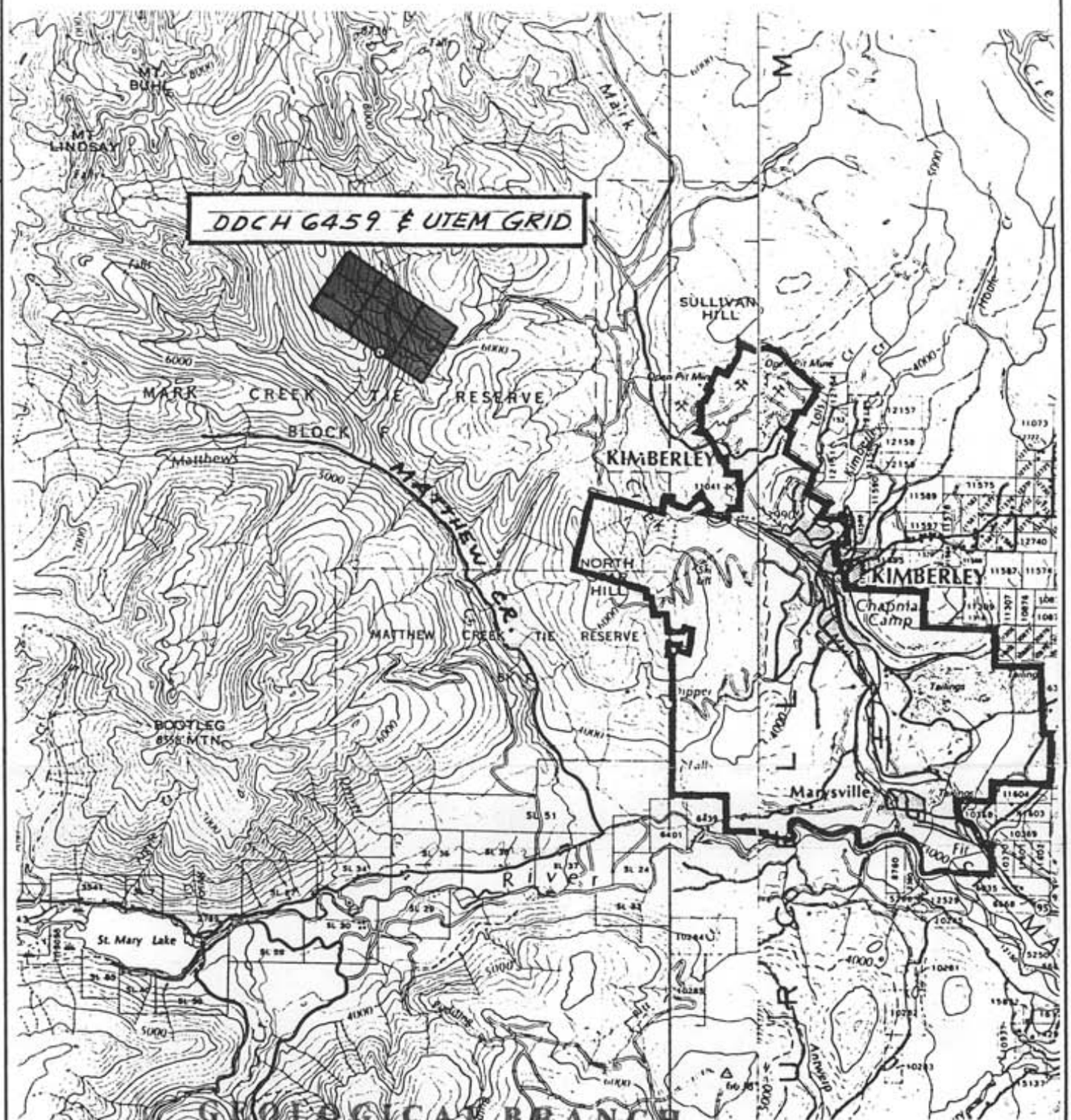
I, SYD J. VISSER, of 8081 - 112th Street, in the Municipality of Delta, in the Province of British Columbia, do hereby certify:-

1) THAT I graduated from Haileybury School of Mines in 1971 as a Mining Technician and from the University of British Columbia in 1981 with Honours B.Sc. in Geophysics and Geology.

2) THAT I have worked in mineral exploration since 1968.

S.J. Visser, B.Sc.
Geophysicist
S.J.V. Consultants Ltd.

DECEMBER 1986



MATTHEW CREEK CLAIMS

FORT STEELE M.D., B.C.

Cominco

NTS 82-G (NW) 82-F (NE)

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

DDCH 6459 and UTEM GRID LOCATION MAP

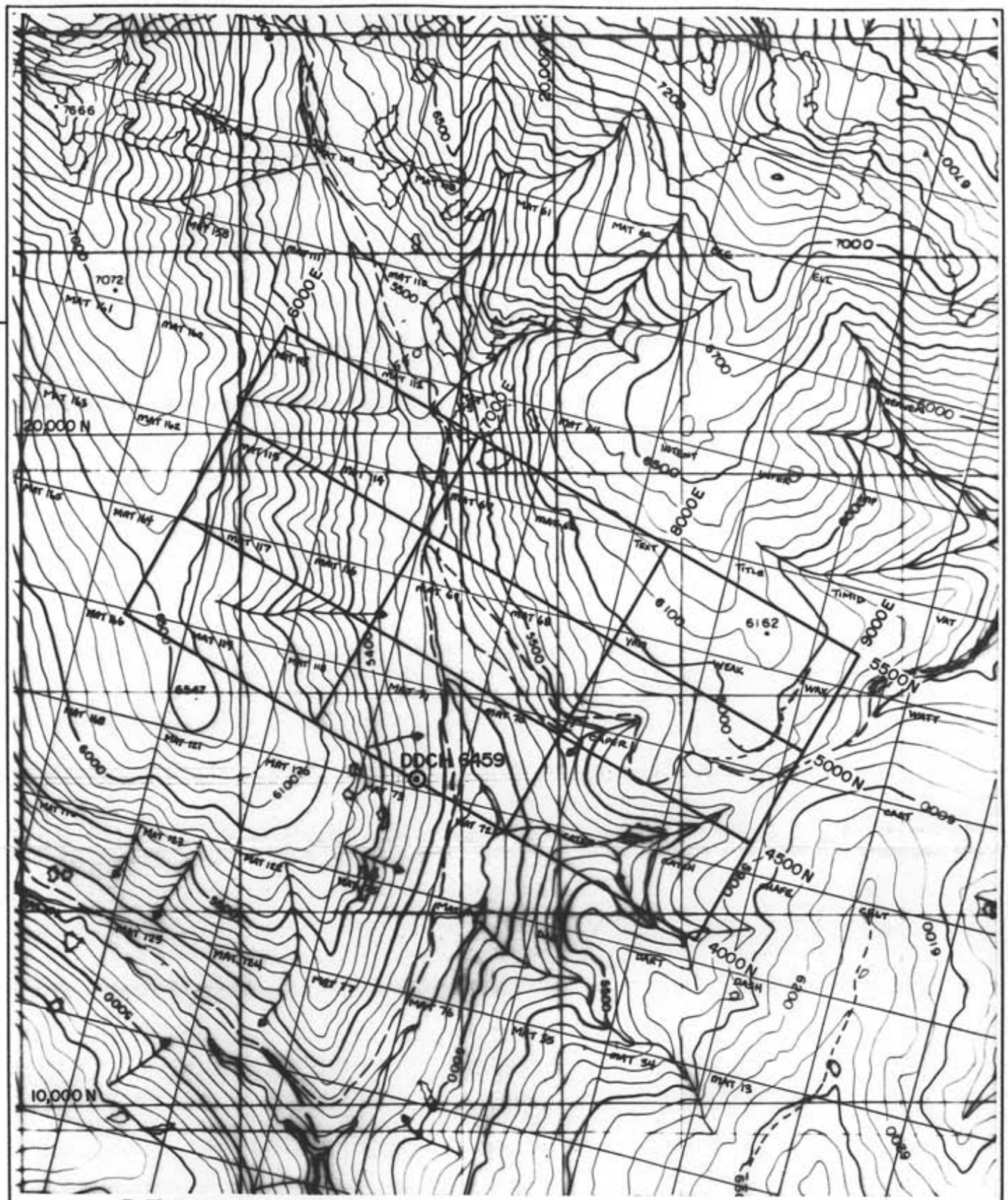
Scale: 1 : 125,000

Date: DECEMBER 1986

Plate: 313-86-1

BCIL-2187-C

210-0610



GEOLOGICAL BRANCH
ASSESSMENT REPORT

PART 2 OF 2.

15,430

MATTHEW CREEK CLAIMS FORT STEELE M.D., B.C.

Dominco

NTS 82-G

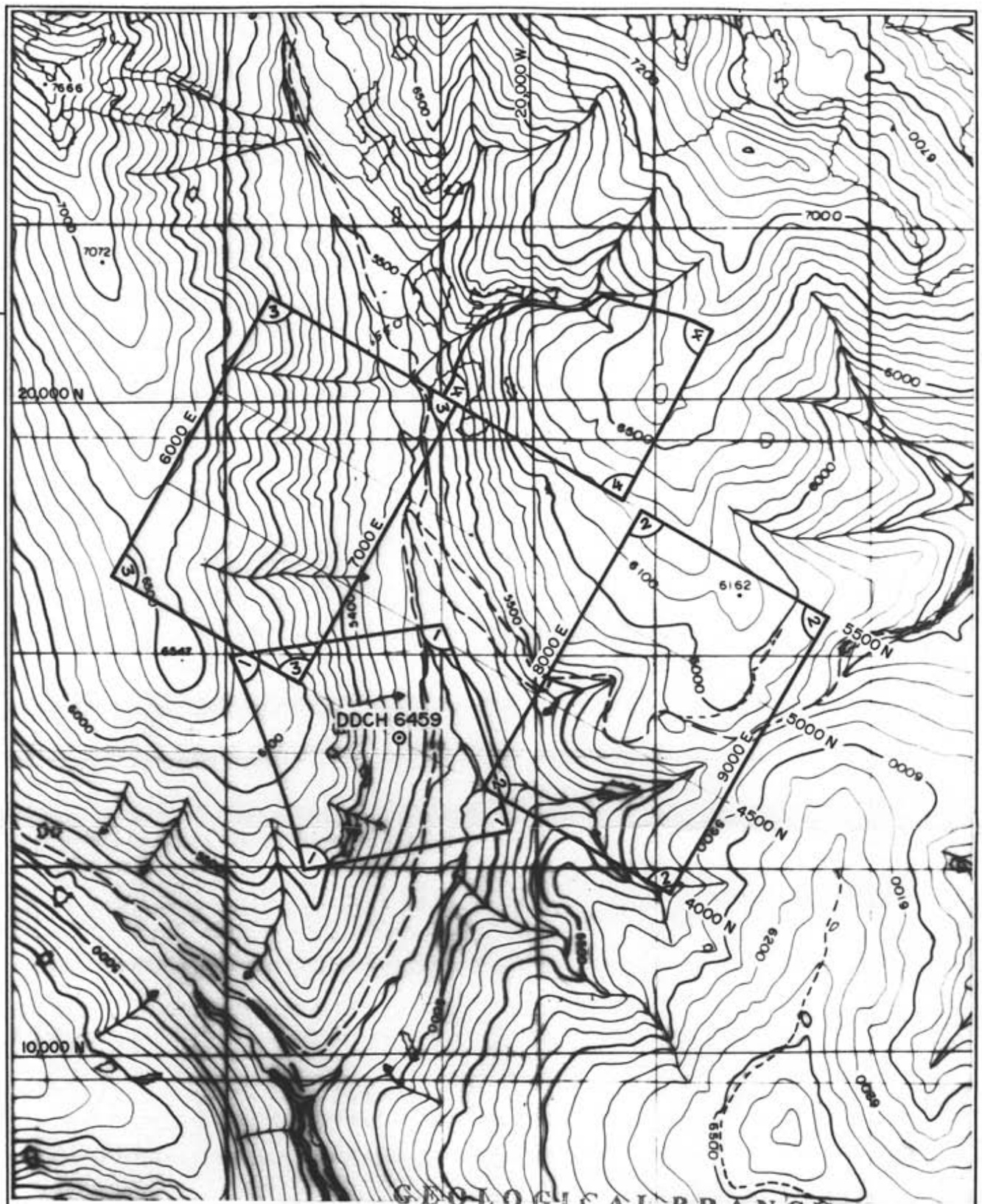
Drawn by:		Traced by:	
Revised by	Date	Revised by	Date

MAT 71 GROUP (Claims)
DDCH 6459 and UTEM GRID
LOCATION MAP

Scale: 1 : 24,000 | Date: DECEMBER 1986 | Plate: 313-86-2

BCIL-2187-C

210-0610



PART 2 OF 2

MATTHEW CREEK CLAIMS

FORT STEELE M.D., B.C.

Dominco

NTS 82-G

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

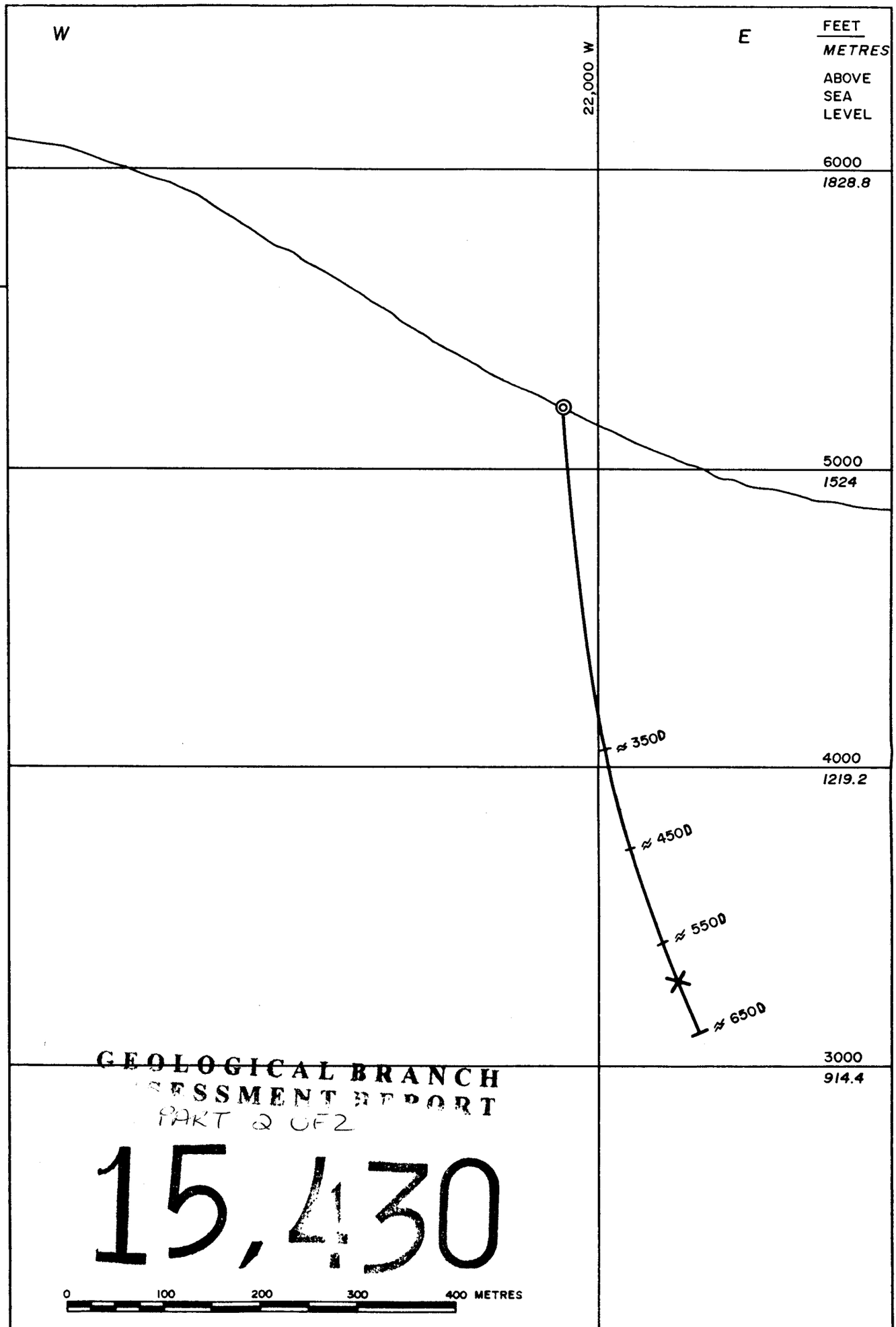
DDCH 6459

BOREHOLE UTEM SURVEY
LOOP LOCATION MAP

Scale: 1 : 24,000 | Date: DECEMBER 1986 | Plate: 313-86-3

BCIL-2187-C

210-0610



MATTHEW CREEK CLAIMS FORT STEELE M.D., B.C.

Teck Cominco

NTS 82-G

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

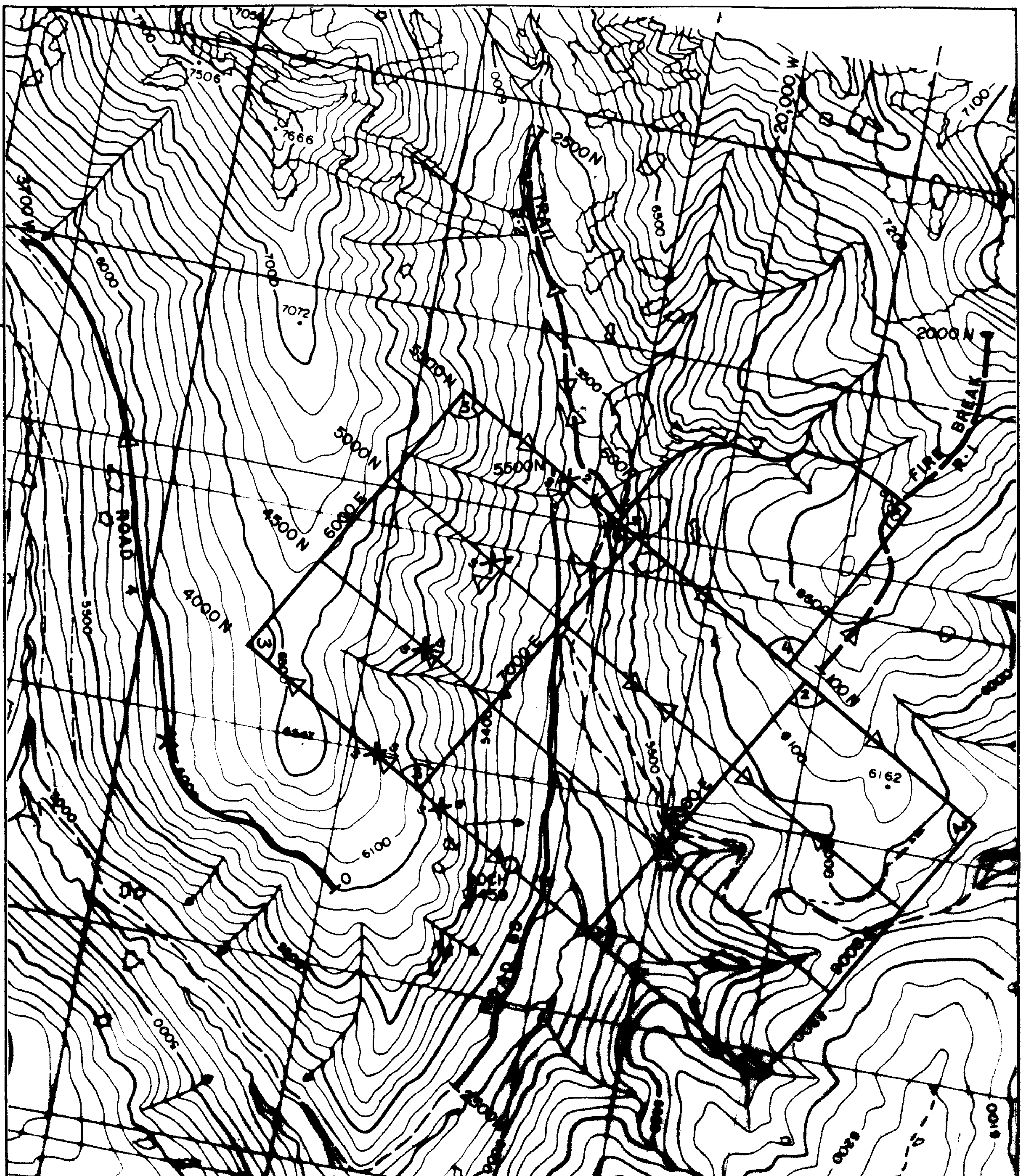
DDCH 6459

VERTICAL SECTION on AZIMUTH 292

Scale: 1 : 4800 | Date: DECEMBER 1986 | Plate: 313-86-4

BCIL-2187-C

210-0610



${}_{S}X^{4}$ Axis of a crossover anomaly.
The number indicates the latest anomalous channel.
Depth indicated by: S - shallow (<100m.)
M - moderate (100-200m.)
D - deep (>200m.)

Area where conductivity is higher than average background.

Outline of a UTEM transmitter loop and loop number.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,430

PART 2 of 2

0 500 1000 1500 2000
METRES

MATTHEW CREEK CLAIMS FORT STEELE M.D., B.C.

NTS 82-G

Drawn by:		Traced by:		
Revised by	Date	Revised by	Date	UTEM SURVEY GRID and COMPILATION MAP

Scale: 1 : 24,000 | Date: DECEMBER 1986 | Plate: 313-86-5

BCIL-2187-C 210-0610