

MASTER
AERIAL RADIOMETRIC AND MAGNETIC SURVEY
BOZEMAN NATIONAL TOPOGRAPHIC MAP
MONTANA

PREPARED FOR THE U.S. DEPARTMENT OF ENERGY
GRAND JUNCTION OFFICE
GRAND JUNCTION, COLORADO
UNDER SMALL BUSINESS ADMINISTRATION SUBCONTRACT NO. 78-178-M

HIGH LIFE HELICOPTERS, INC.
PUYALLUP, WASHINGTON
AND
GEODATA INTERNATIONAL, INC.
DALLAS, TEXAS



Geodata International, Inc.

7035 JOHN W. CARPENTER FRWY.
DALLAS, TEXAS 75247

950 0898

VOL. 2

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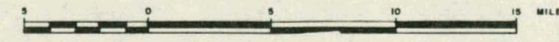
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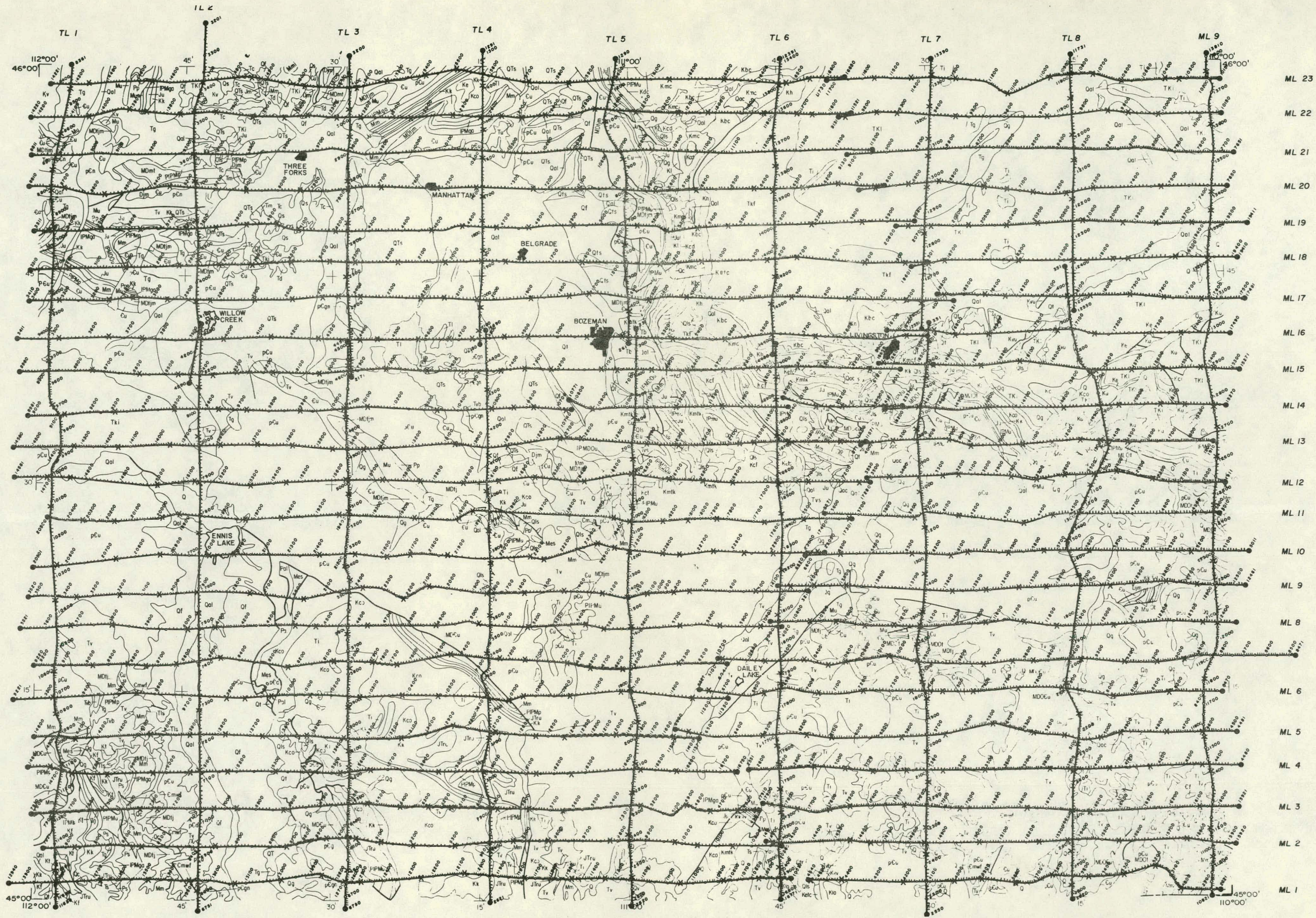
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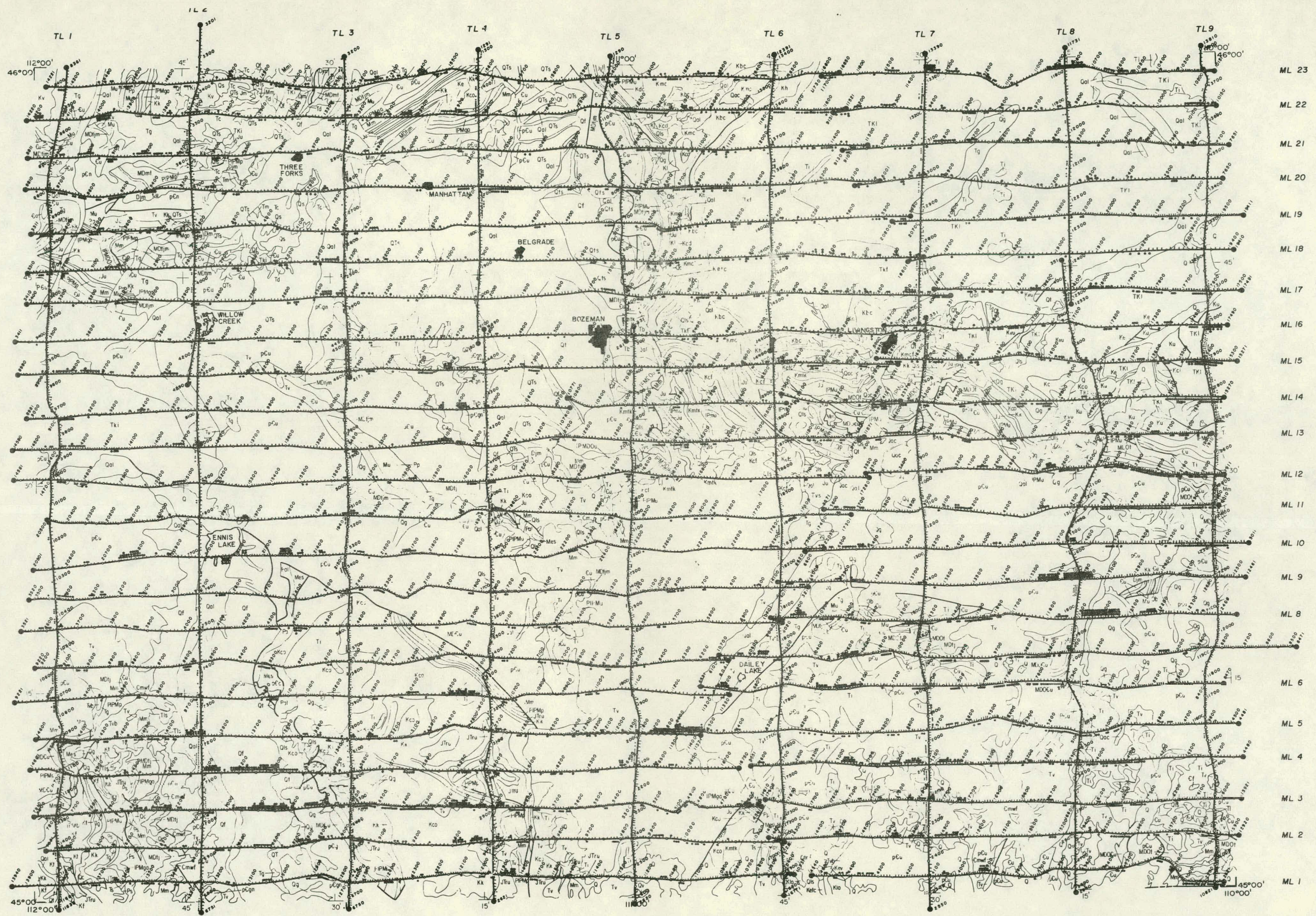
NGRMS
BOZEMAN SHEET
GEOLOGY

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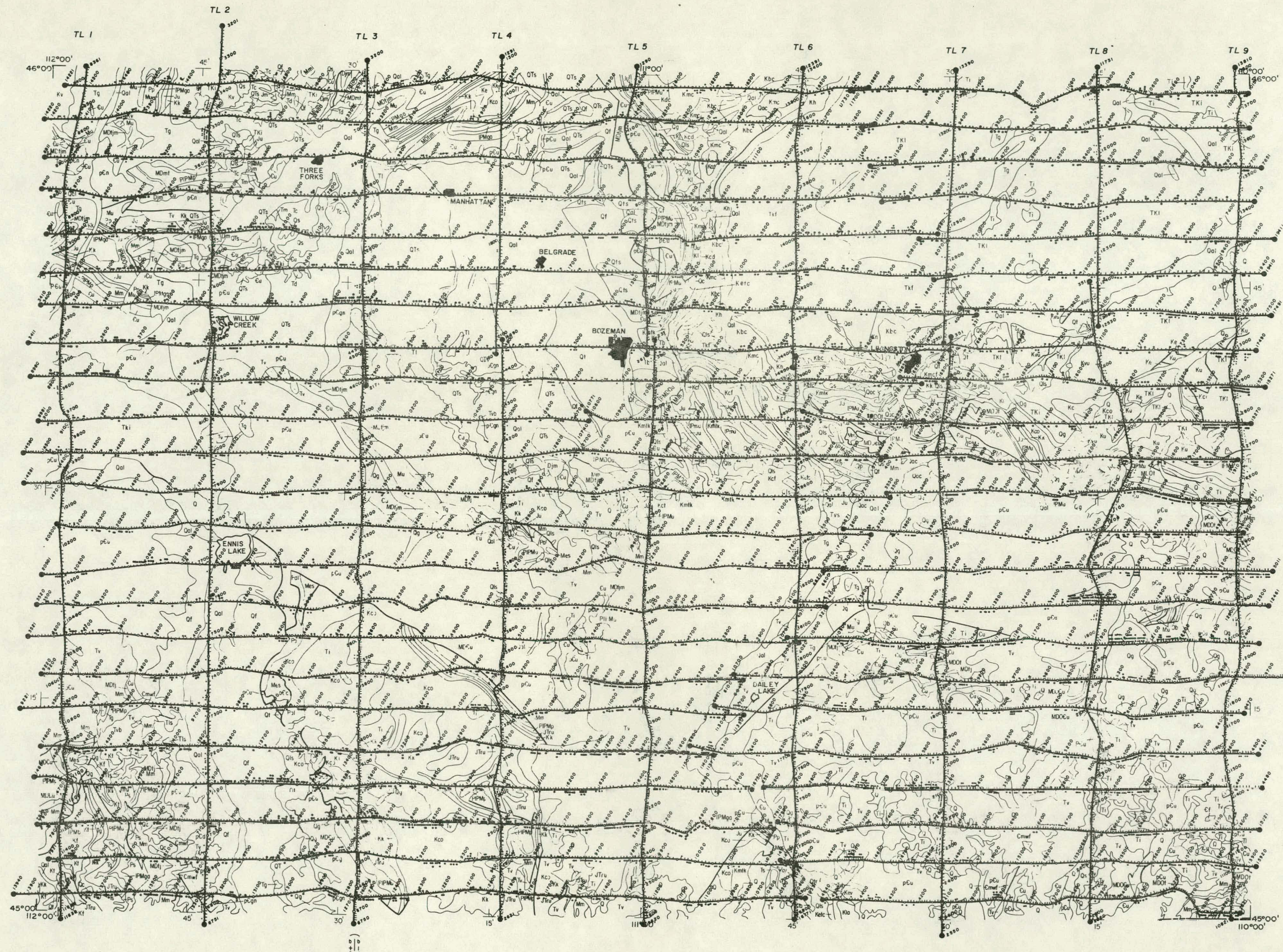


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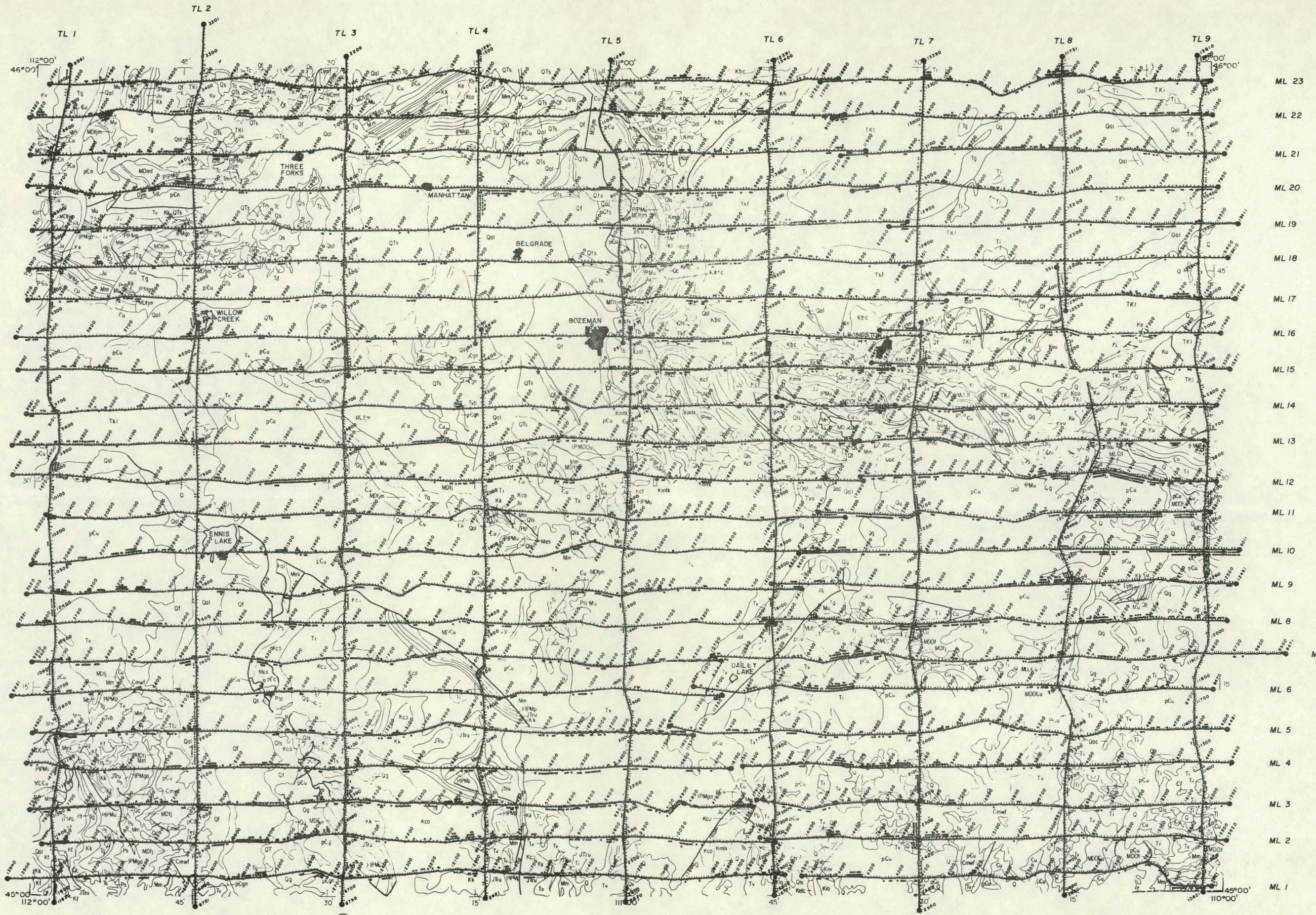
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BOZEMAN SHEET
208T ± STANDARD DEVIATIONS



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112°00'
46°00'

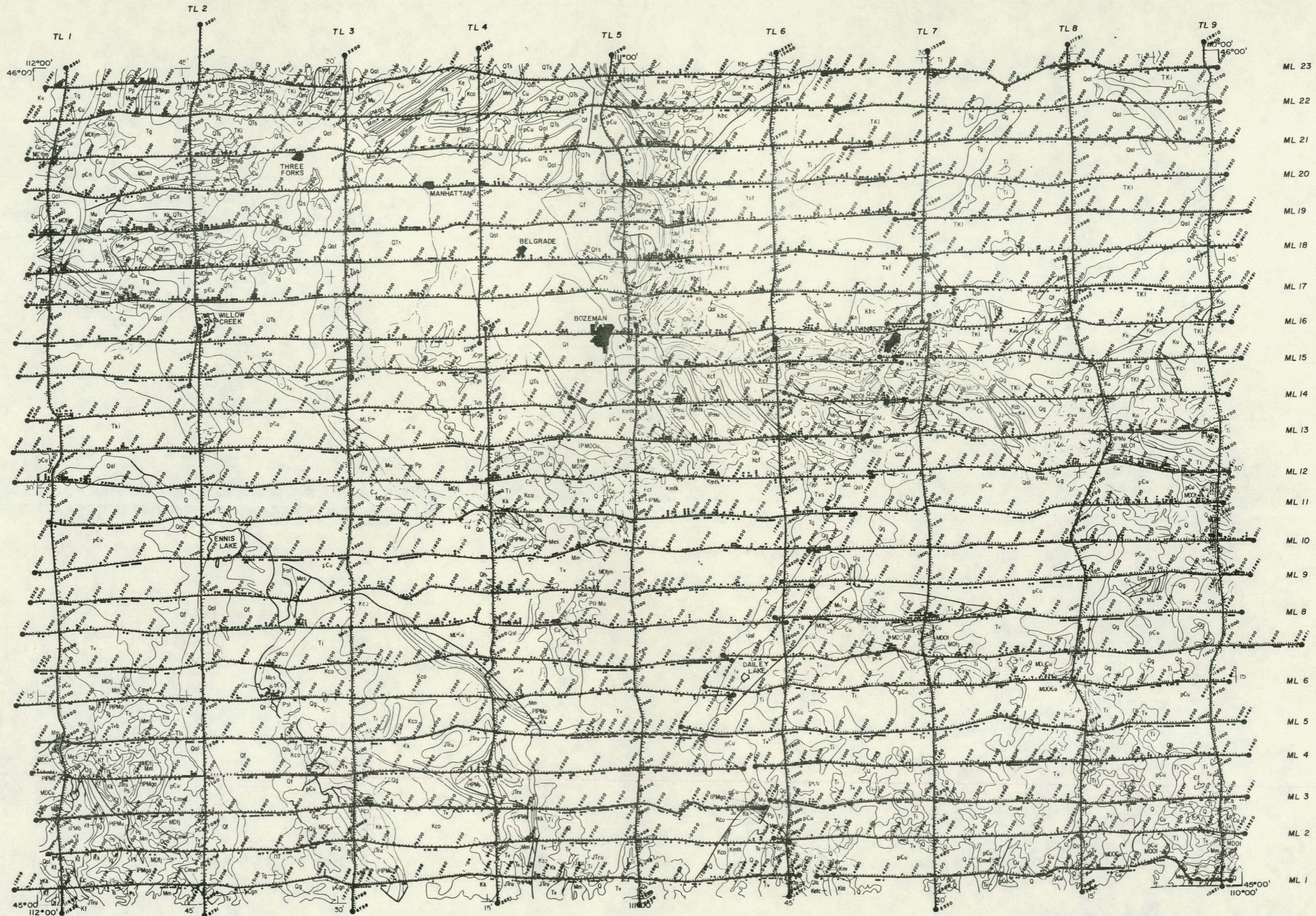
110°00'
46°00'

45°00'
112°00'

45°00'
110°00'



NGRMS
BOZEMAN SHEET
4°K ± STANDARD DEVIATIONS



112°00'
46°00'

110°00'
46°00'

45°00'
112°00'

45°00'
110°00'

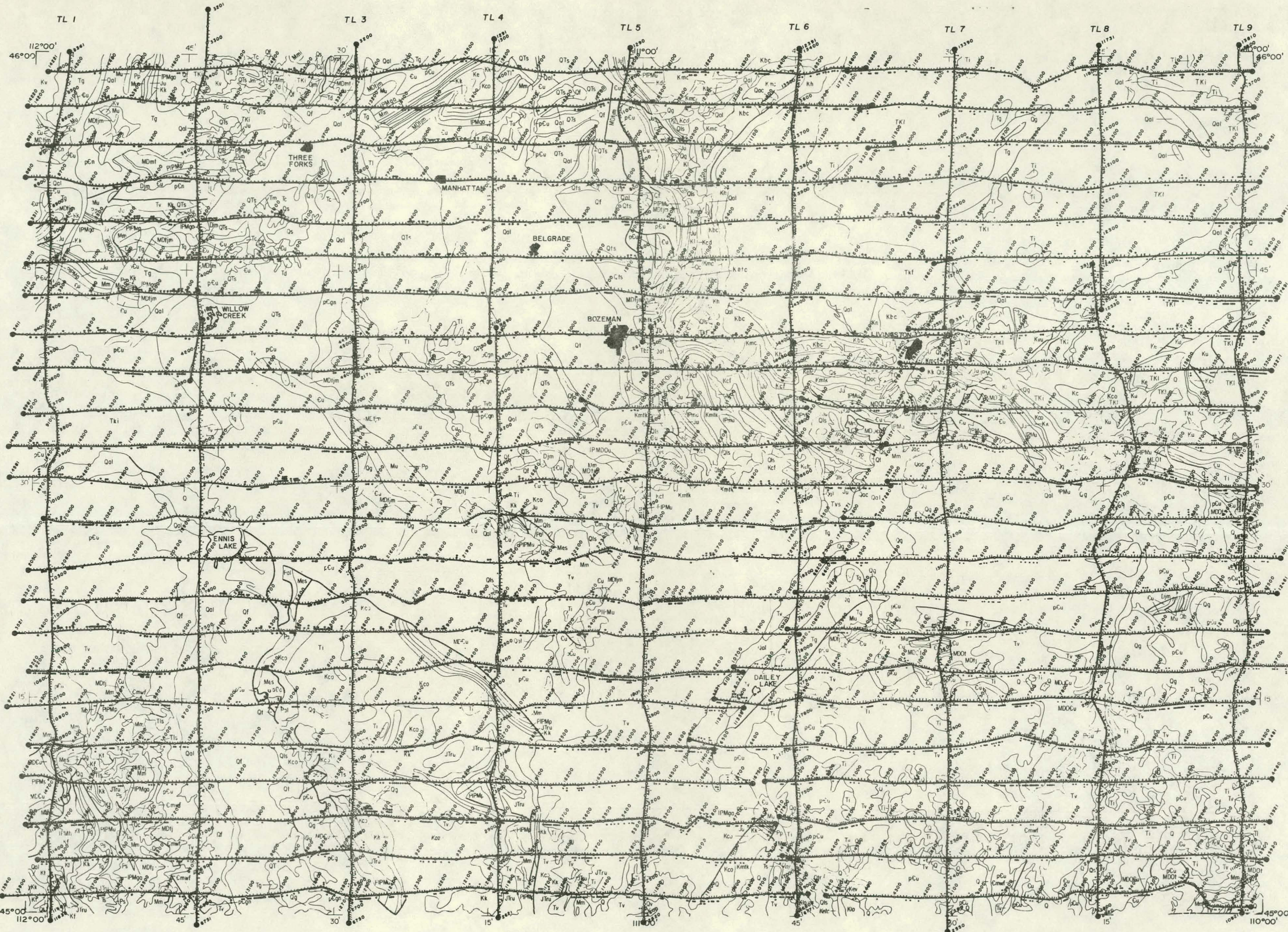
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NGRMS

BOZEMAN SHEET

214 208 TX ± STANDARD DEVIATIONS

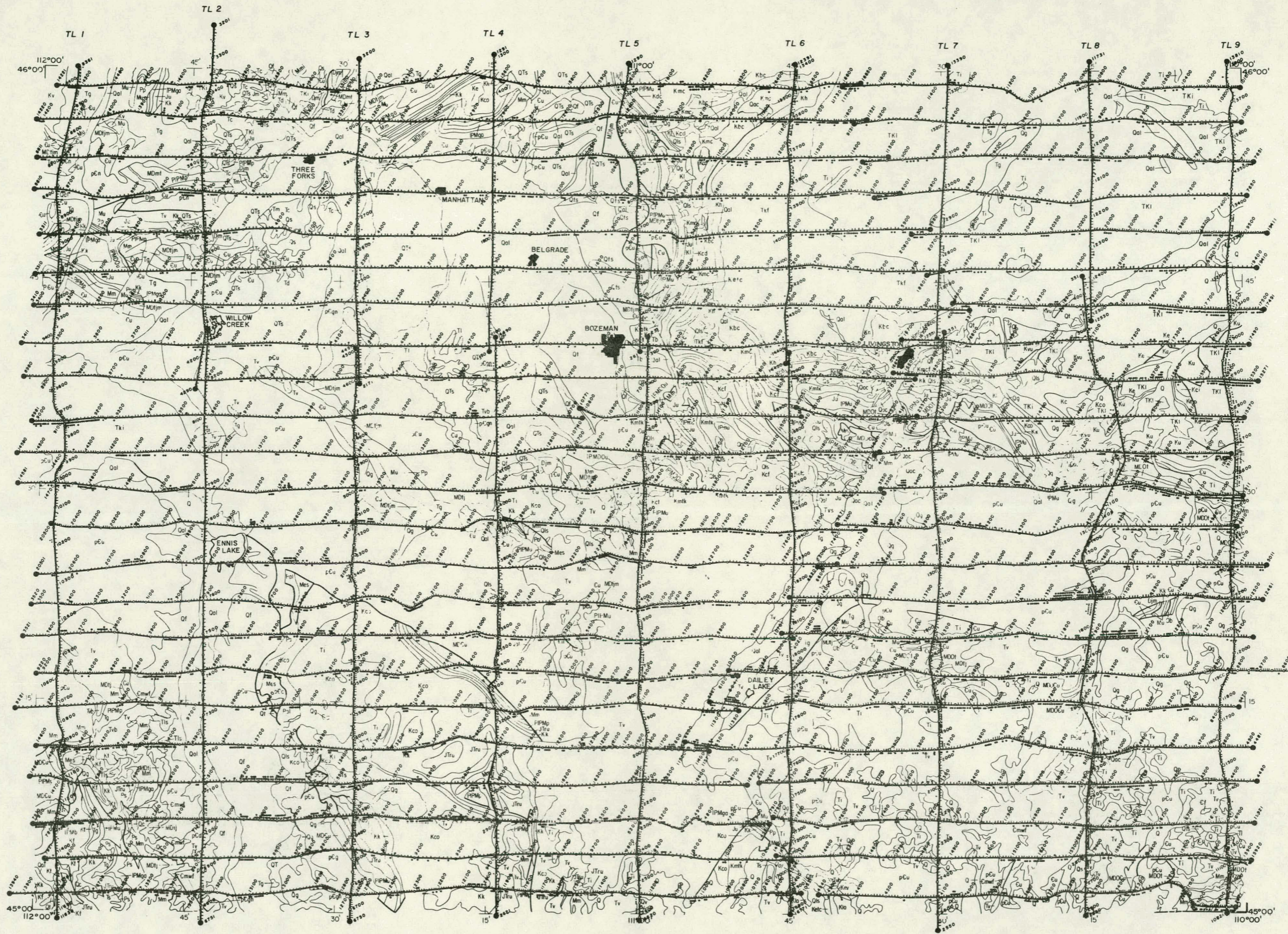


TL 1 TL 3 TL 4 TL 5 TL 6 TL 7 TL 8 TL 9
46°00' 112°00' 45°00' 112°00' 45°00' 110°00'

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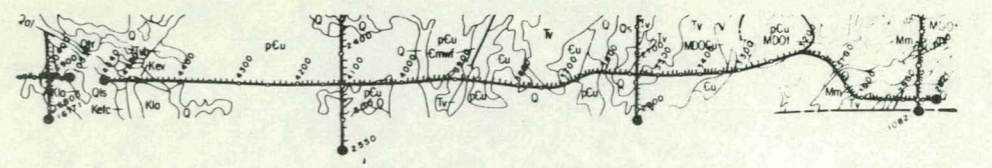
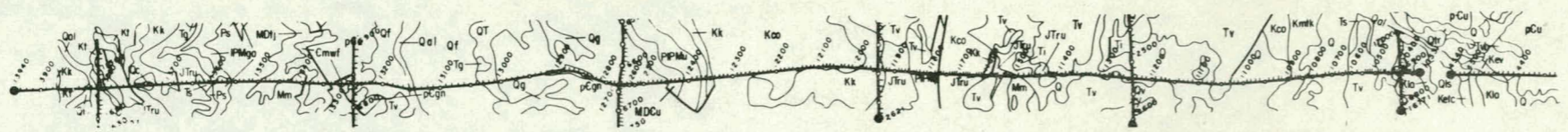
NGRMS BOZEMAN SHEET
214 Bi / 40 K ± STANDARD DEVIATIONS



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NGRMS
BOZEMAN SHEET
20° T1 / 40° K ± STANDARD DEVIATIONS



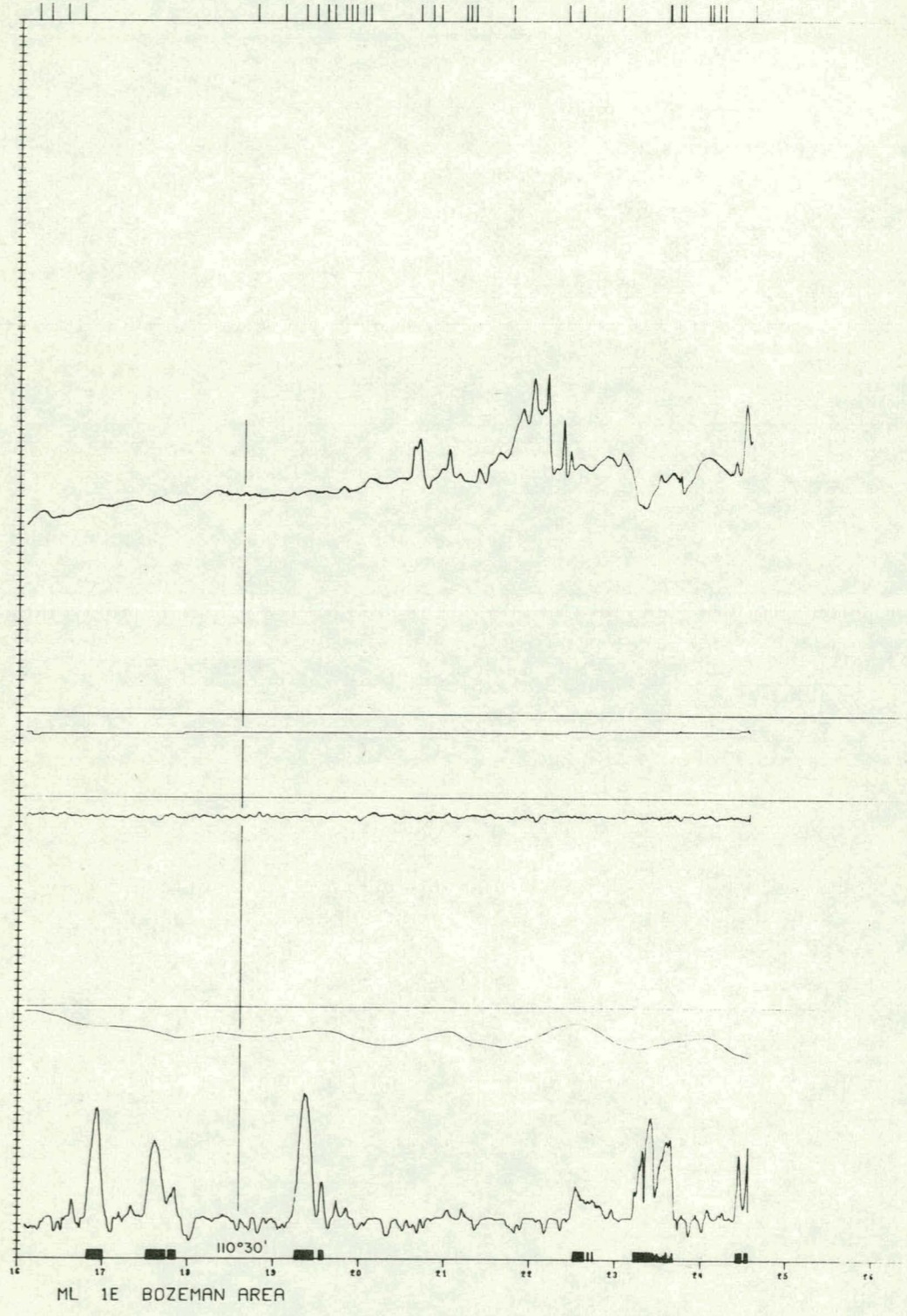
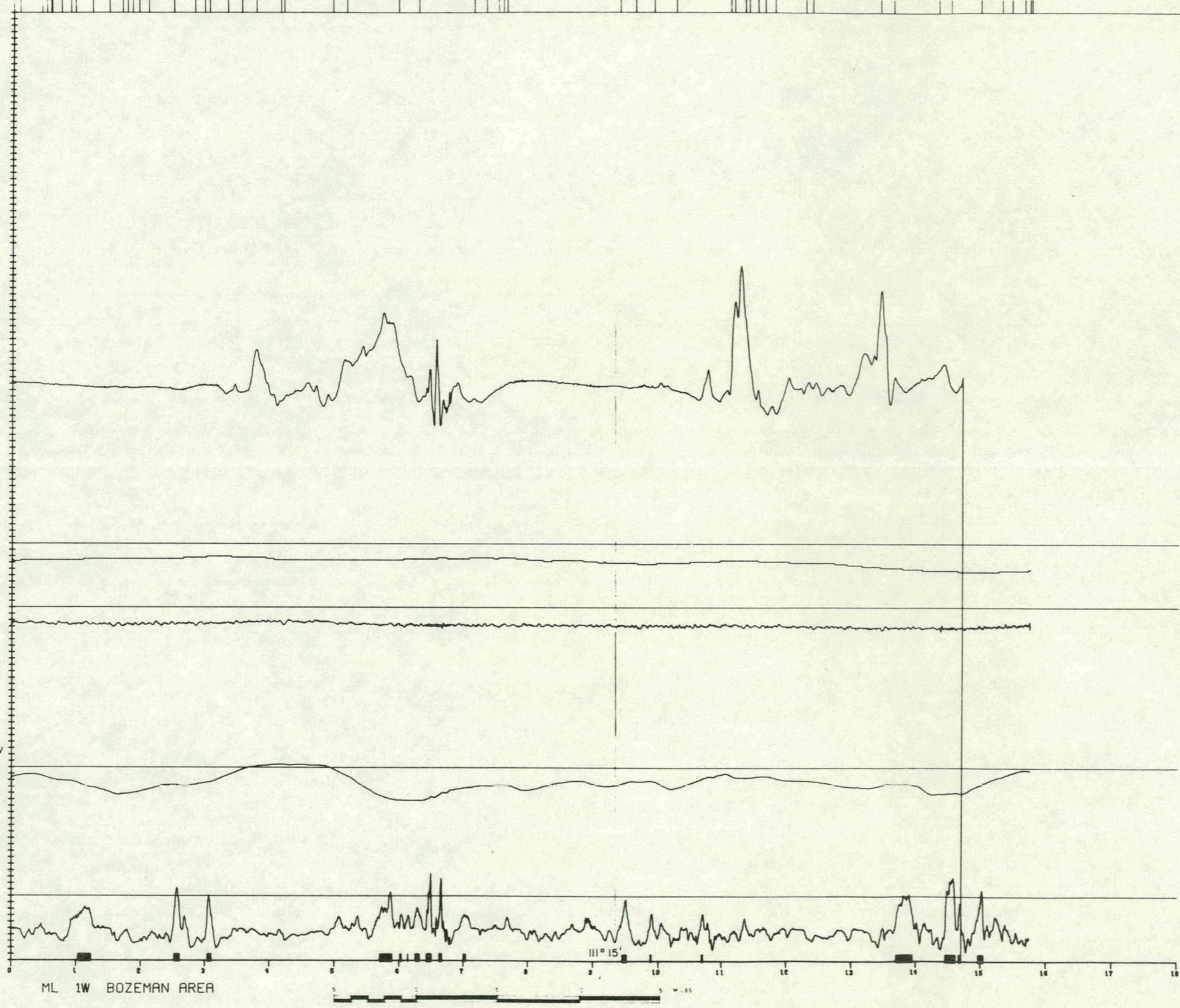
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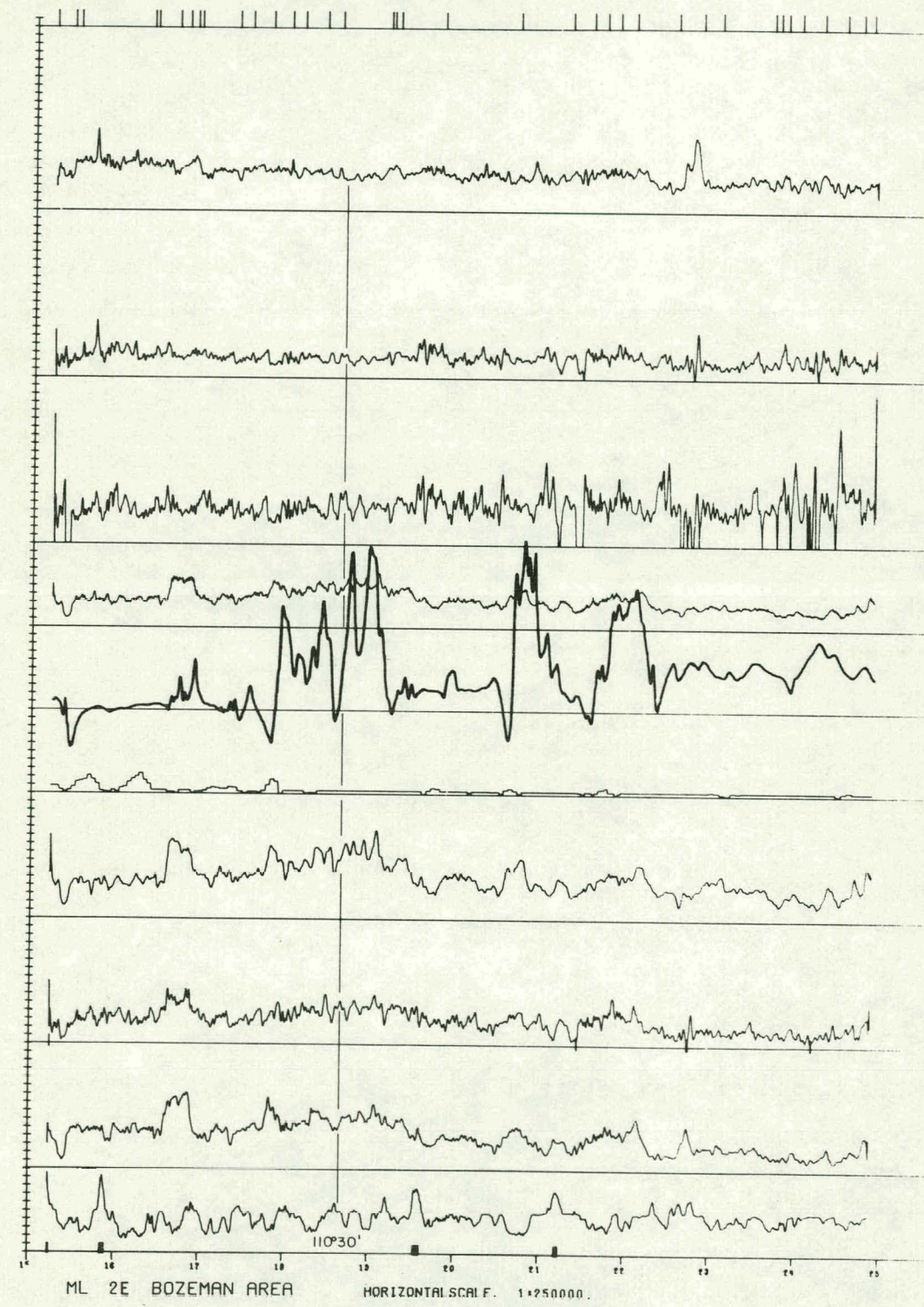
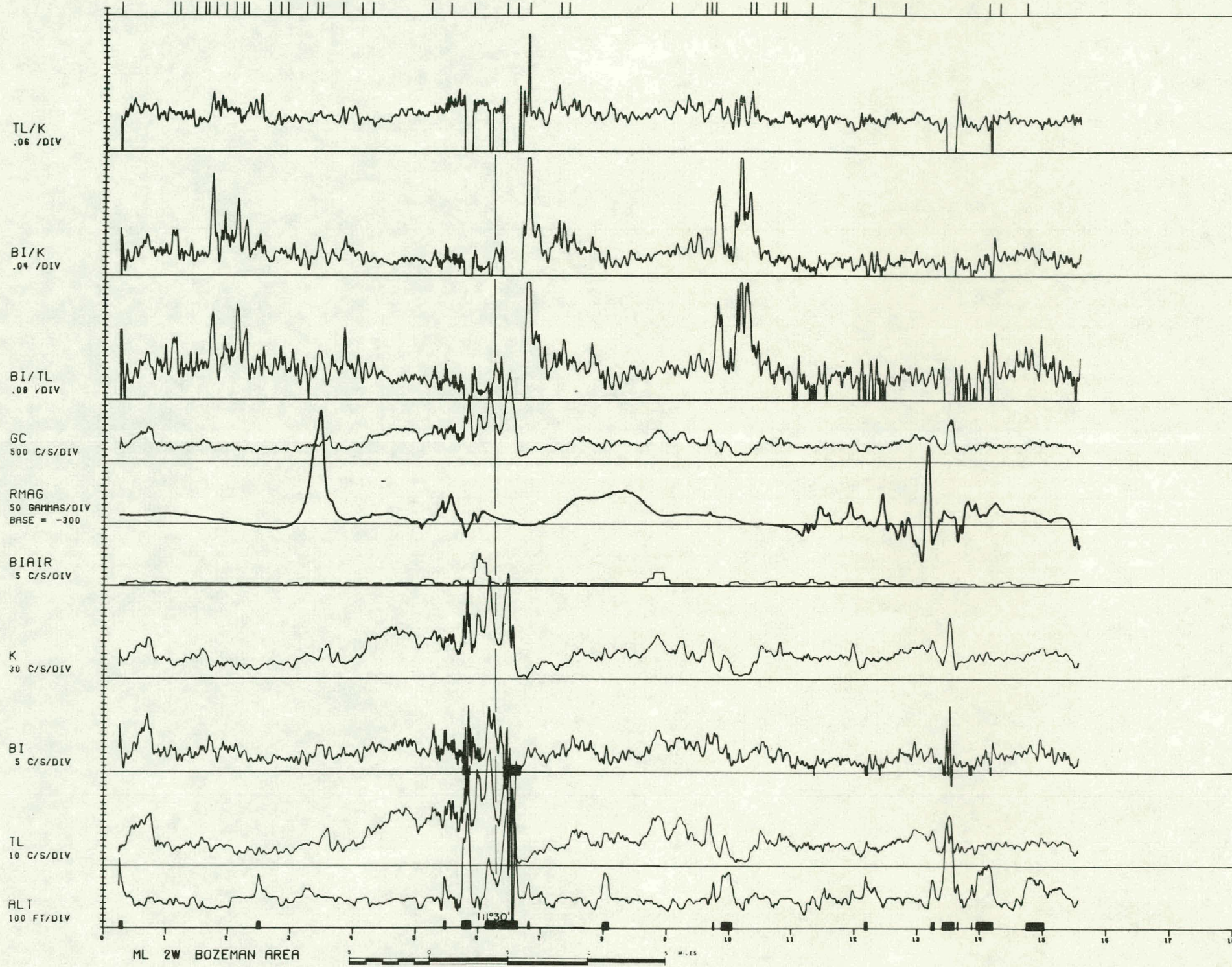
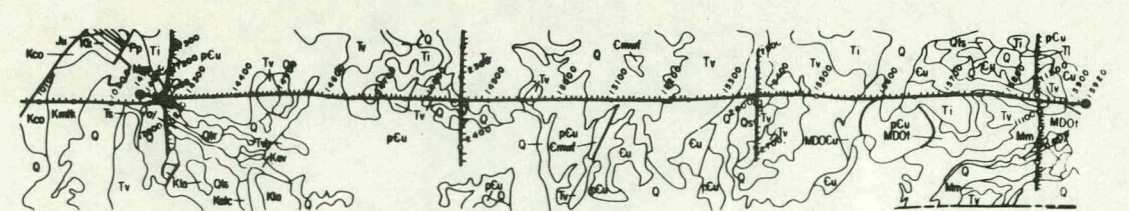
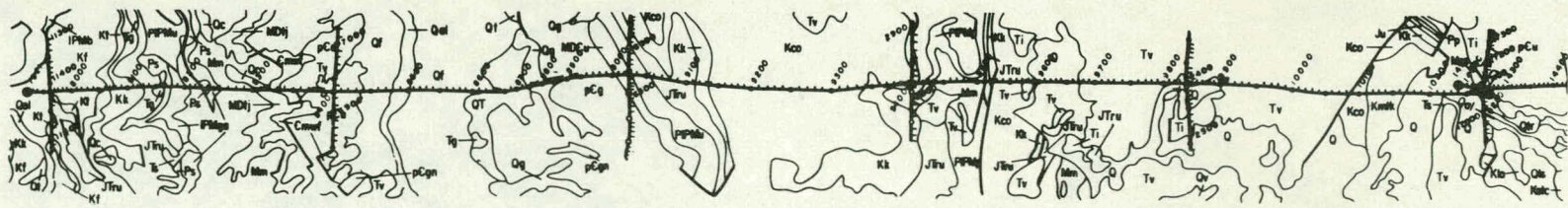
BMAG
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BASE = 56275

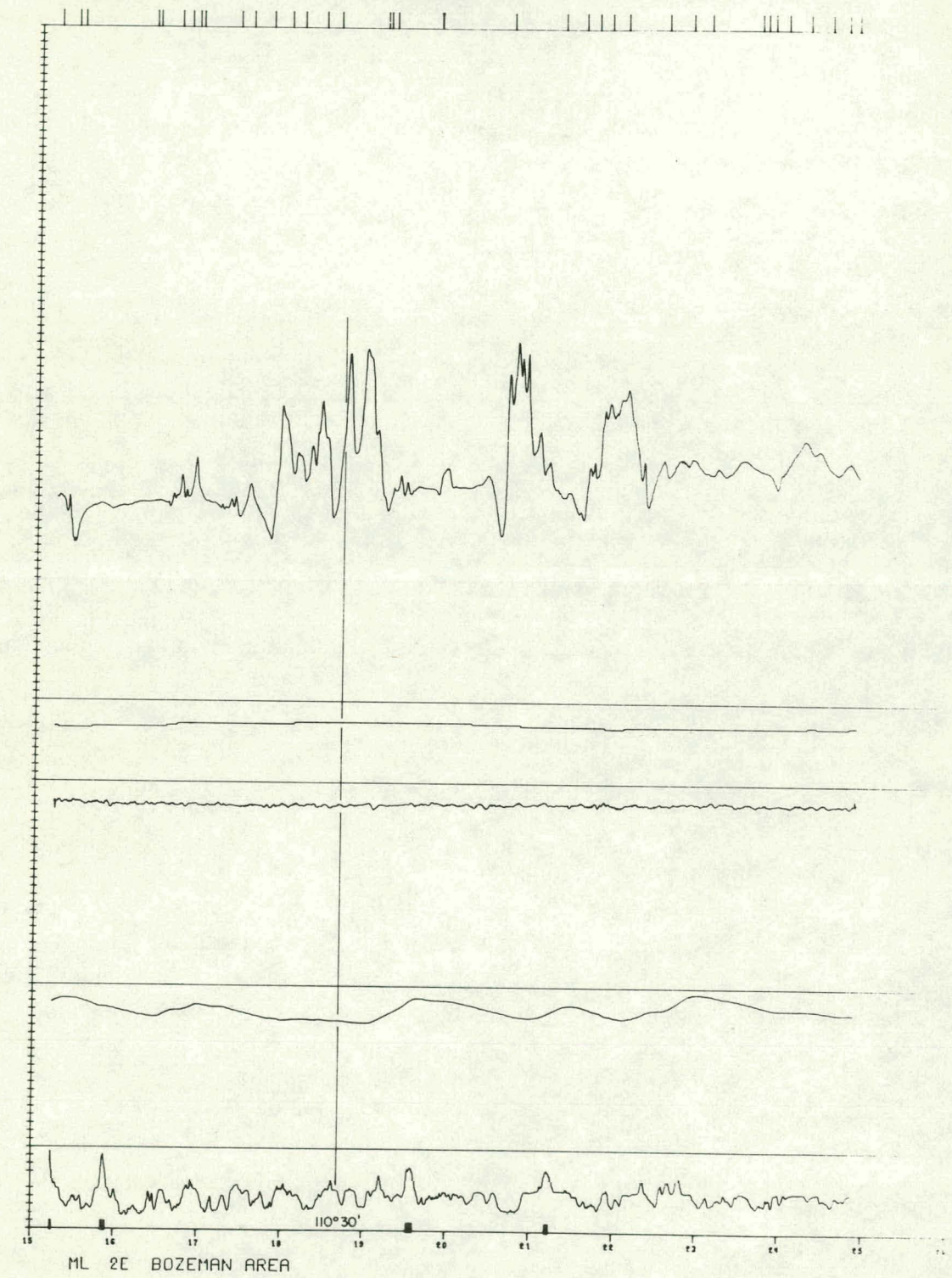
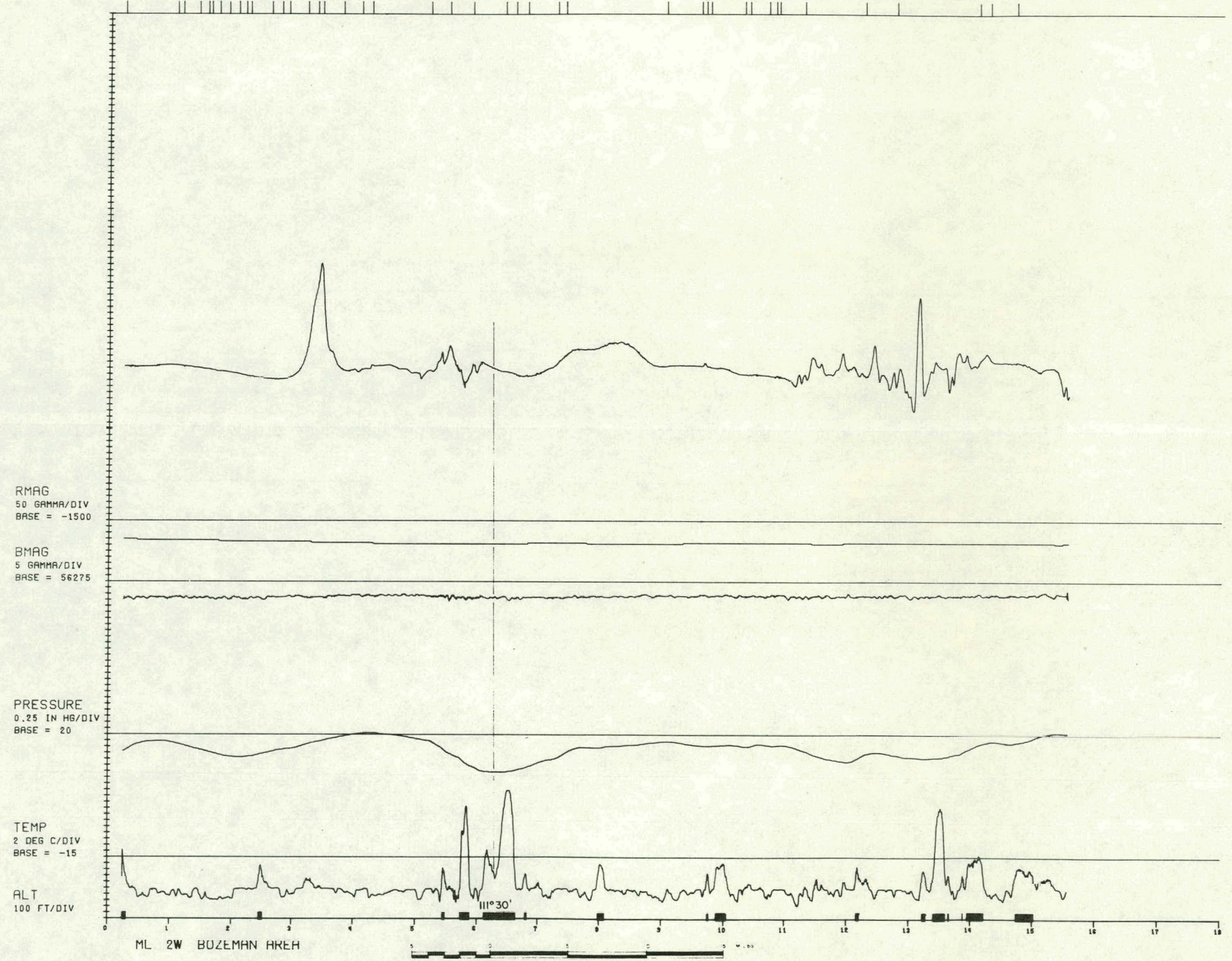
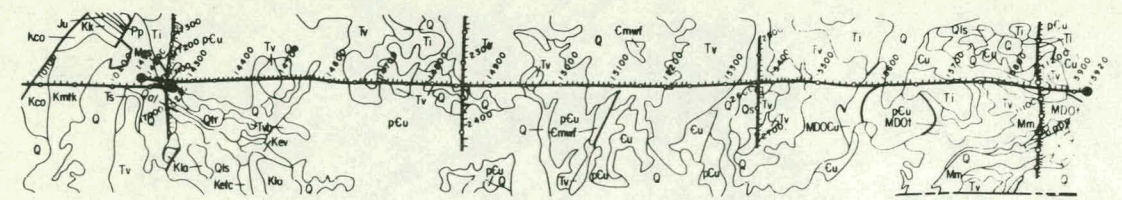
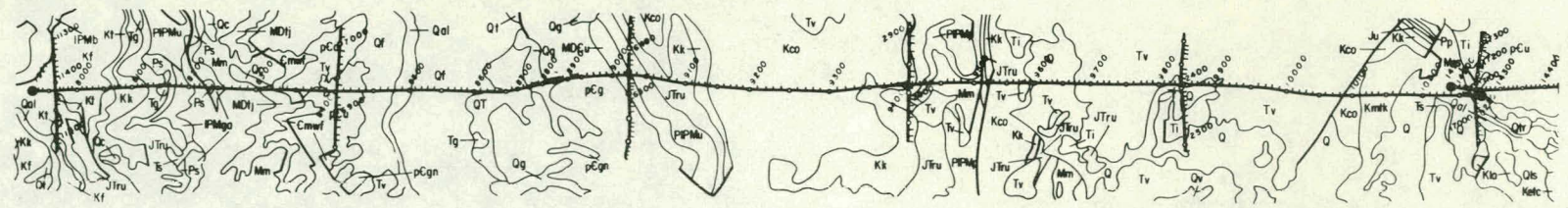
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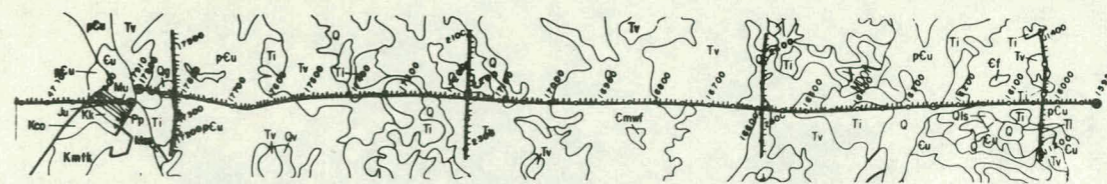
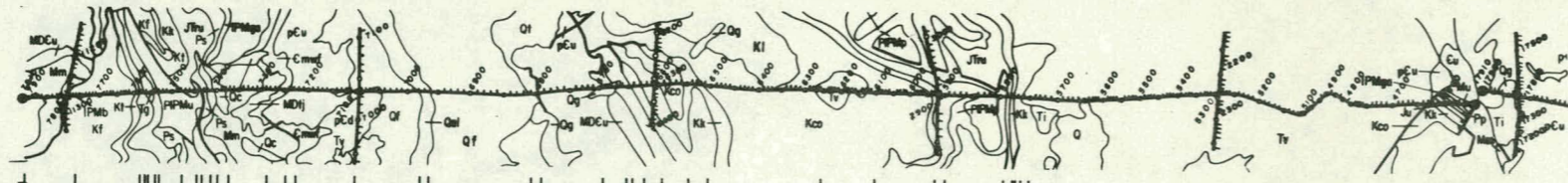
TEMP
2 DEG C/DIV
BASE = -15

ALT
100 FT/DIV









TL/K
.06 /DIV

BI/K
.04 /DIV

BI/TL
.08 /DIV

GC
500 C/S/DIV

RMAG
50 GAMMAS/DIV
BASE = -300

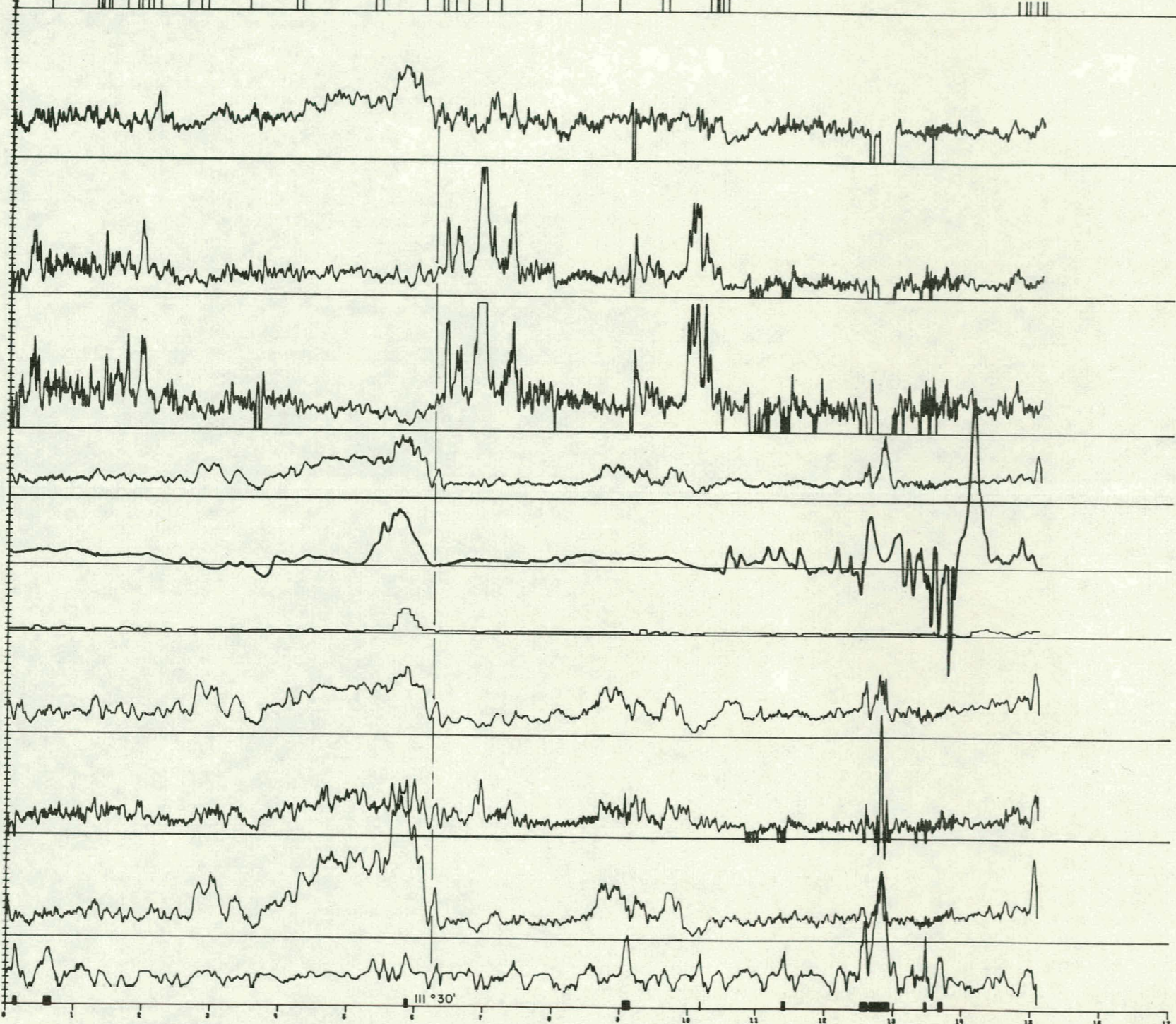
BIAIR
5 C/S/DIV

K
30 C/S/DIV

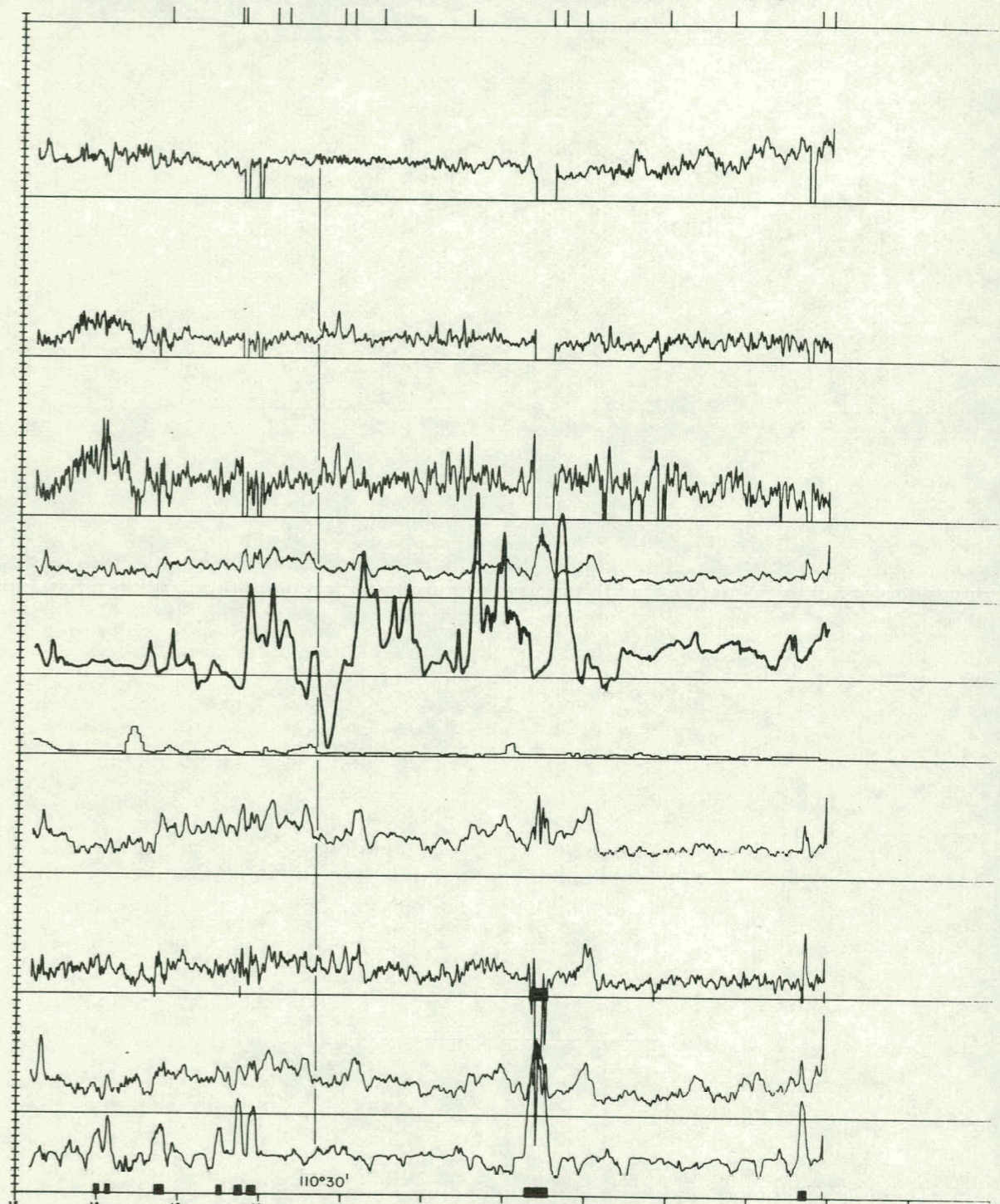
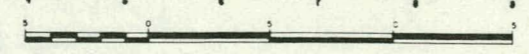
BI
5 C/S/DIV

TI
10 C/S/DIV

ALT
100 FT/DIV

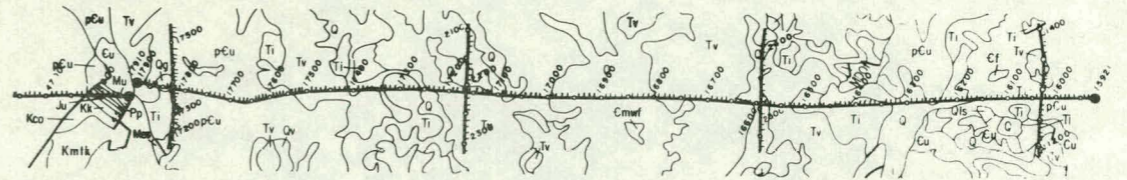
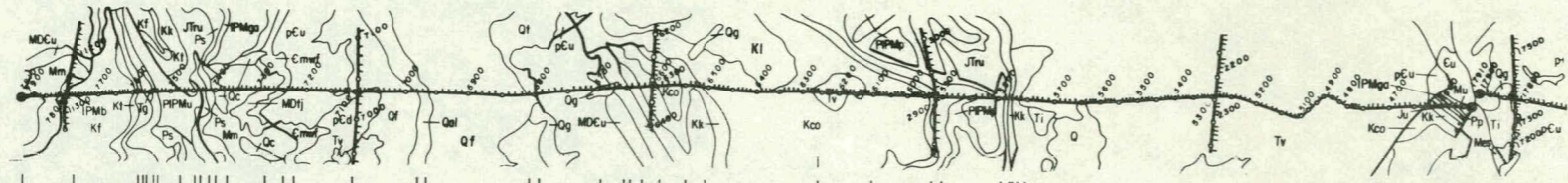


ML 3W BOZEMAN AREA



ML 3E BOZEMAN AREA

HORIZONTAL SCALE. 1:250000.



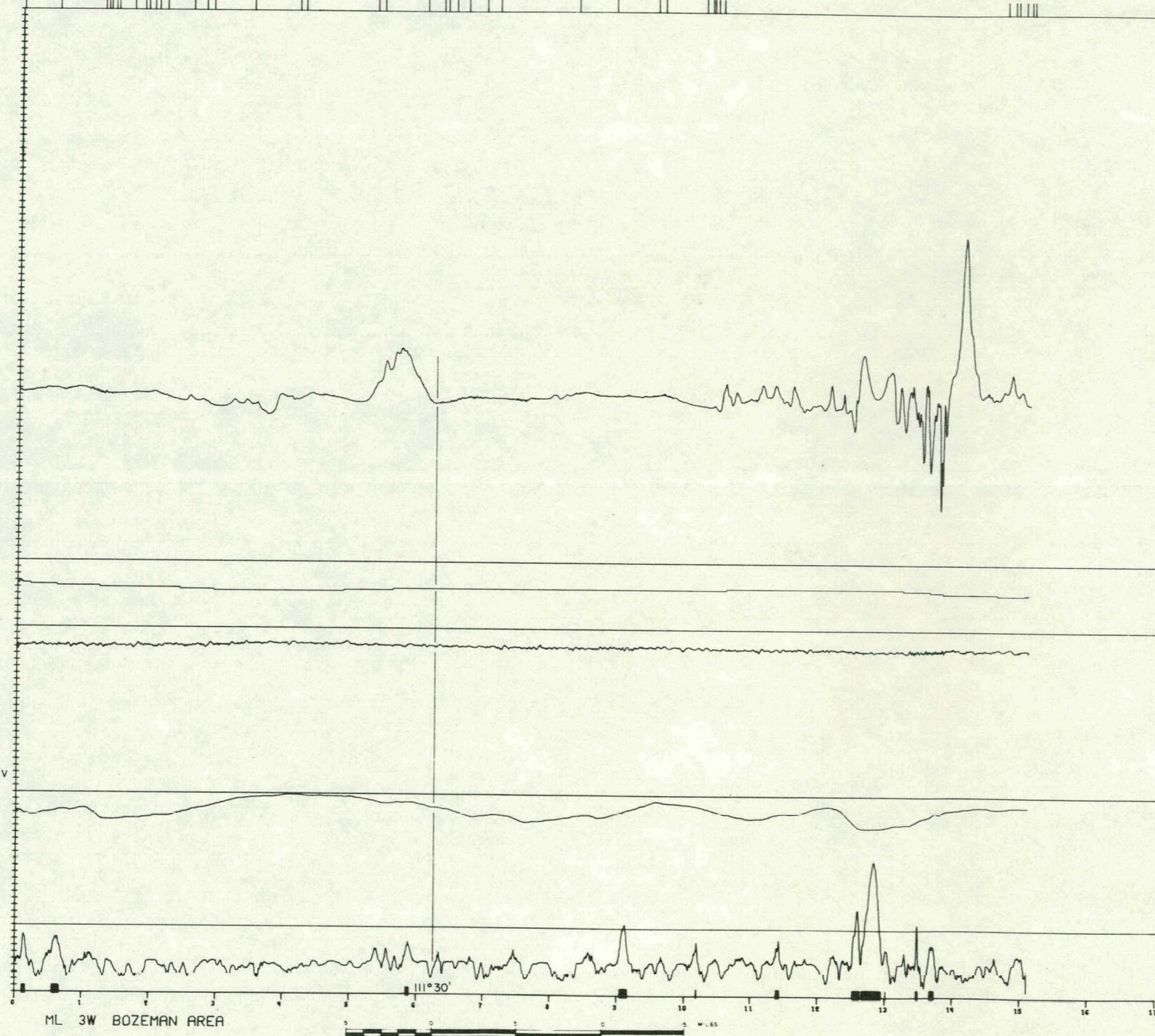
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BMAG
5 GAMMA/DIV
BASE = 56275

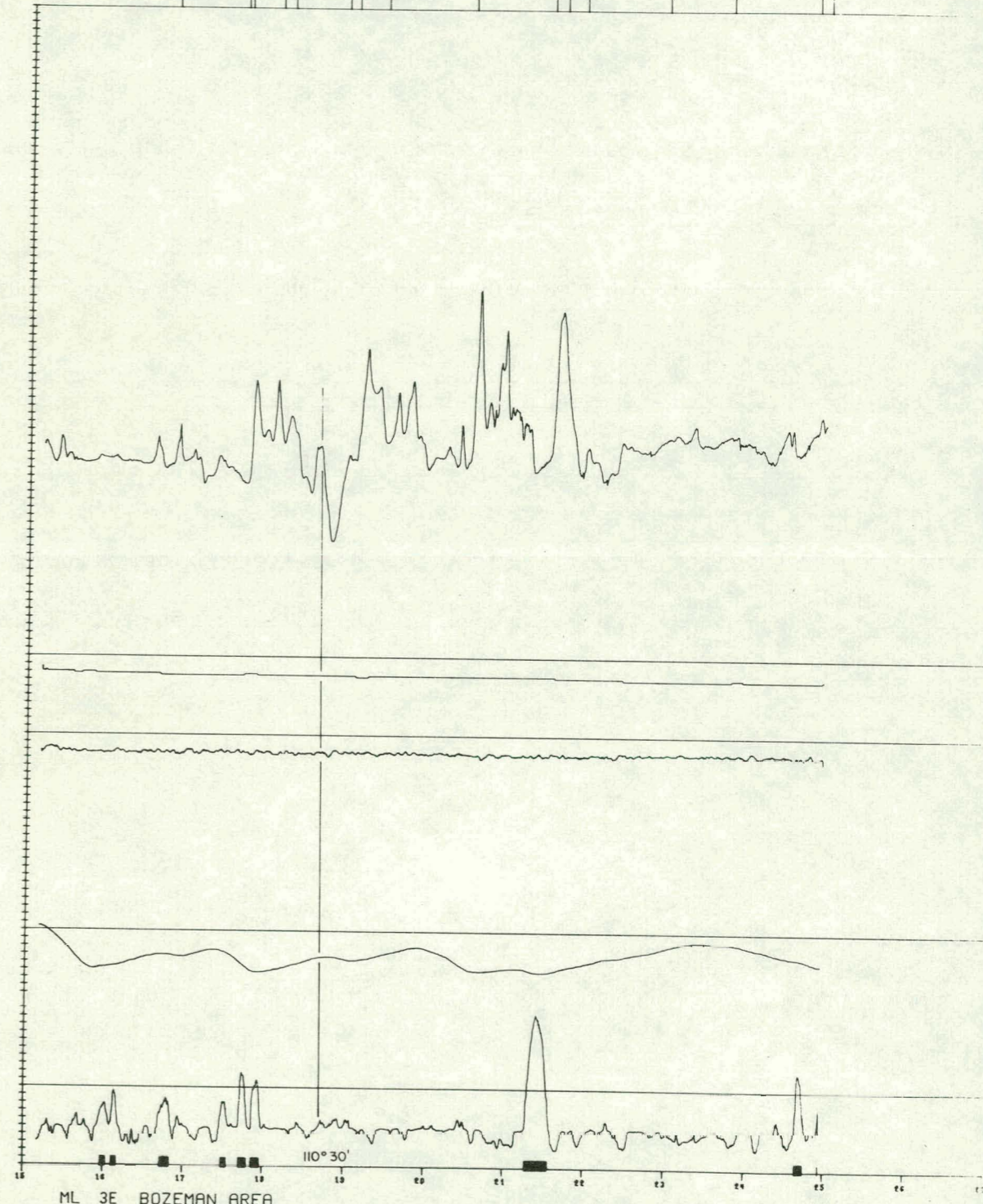
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BASE = 20

TEMP
2 DEG C/DIV
BASE = -15

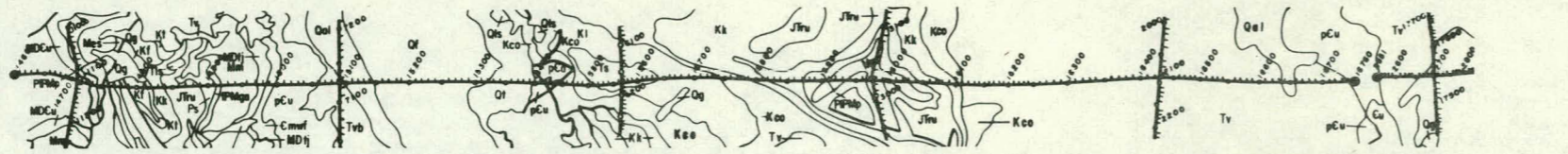
ALT
100 FT/DIV



ML 3W BOZEMAN AREA



ML 3E BOZEMAN AREA



TL/K
.06 /DIV

BI/K
.04 /DIV

BI/TL
.08 /DIV

GC
500 C/S/DIV

RMAG
50 GAMMAS/DIV
BASE = -200

BIAIR
5 C/S/DIV

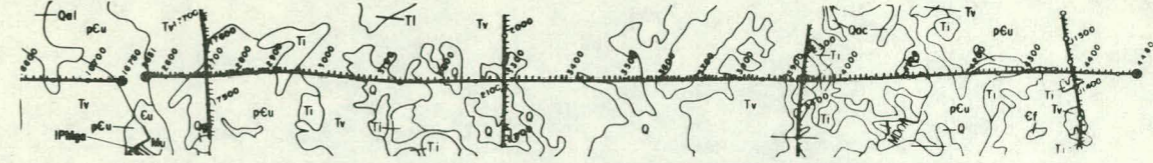
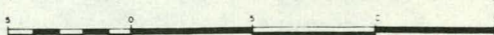
K
30 C/S/DIV

BI
5 C/S/DIV

TL
10 C/S/DIV

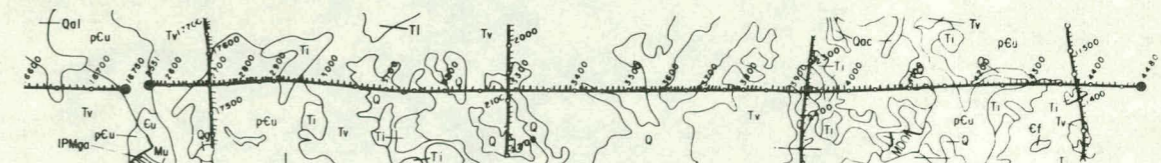
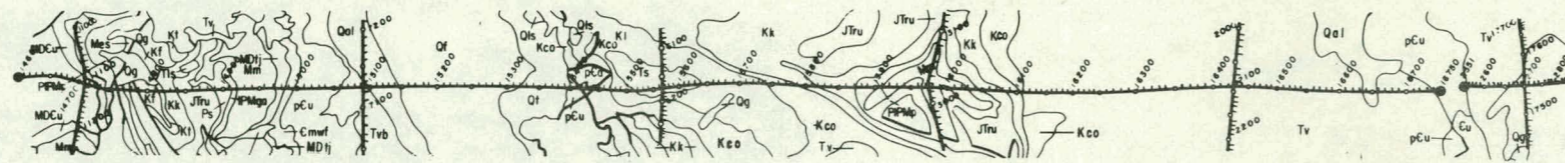
ALT
100 FT/DIV

ML 4W BOZEMAN AREA



4E BOZEMAN AREA

HORIZONTAL SCALE, 1:250000.



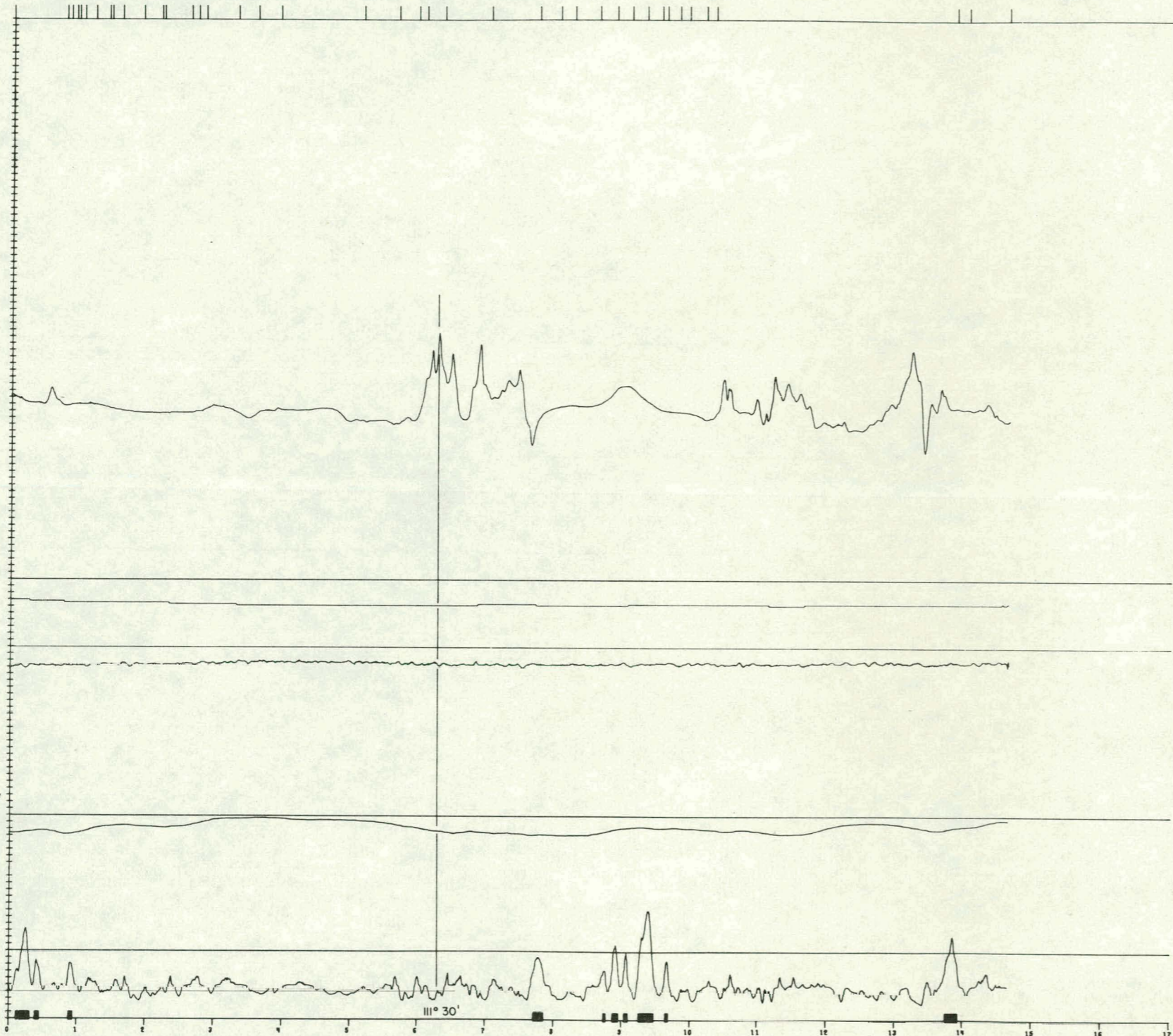
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BMAG
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BASE = 56275

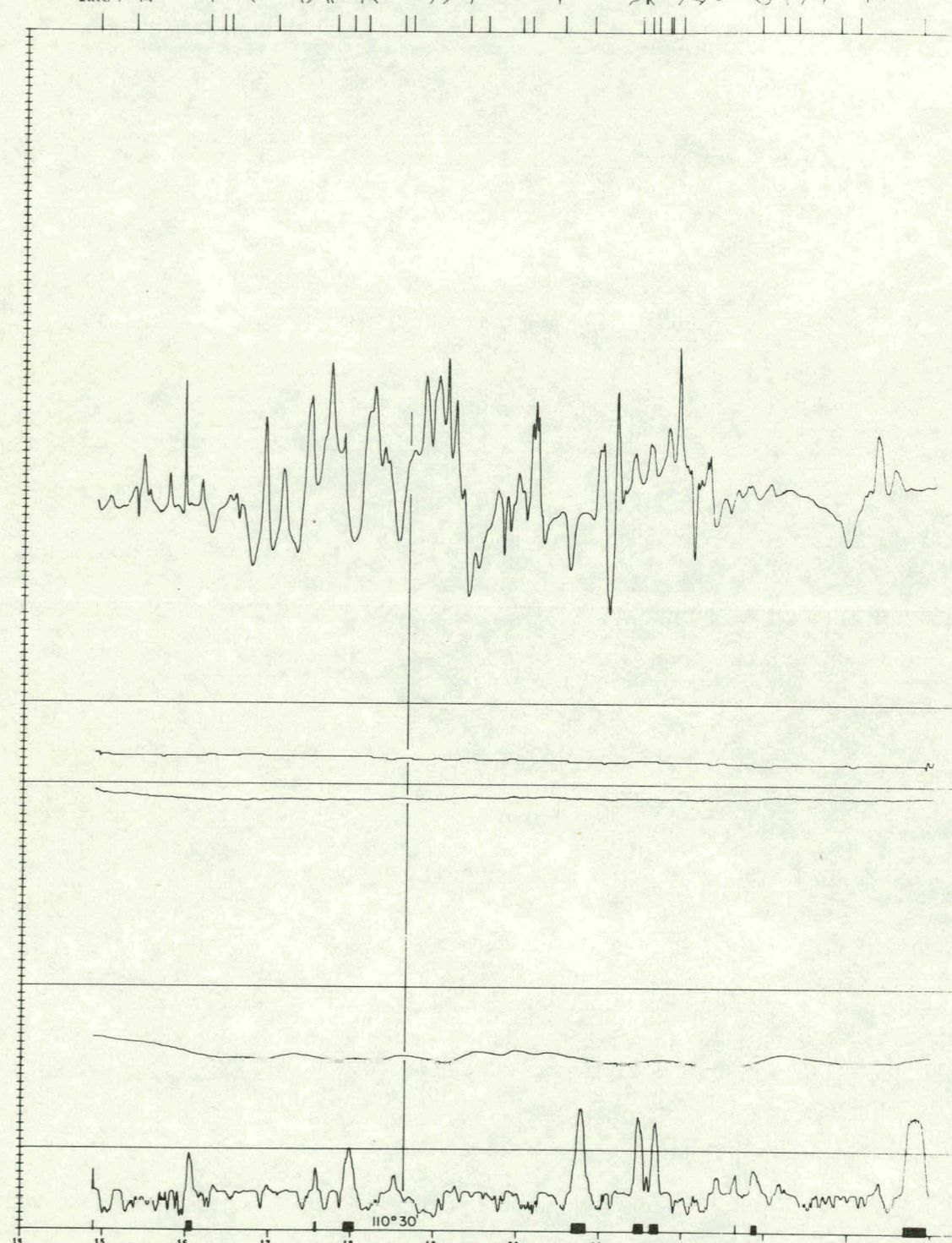
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TEMP
2 DEG C/DIV
BASE = -15

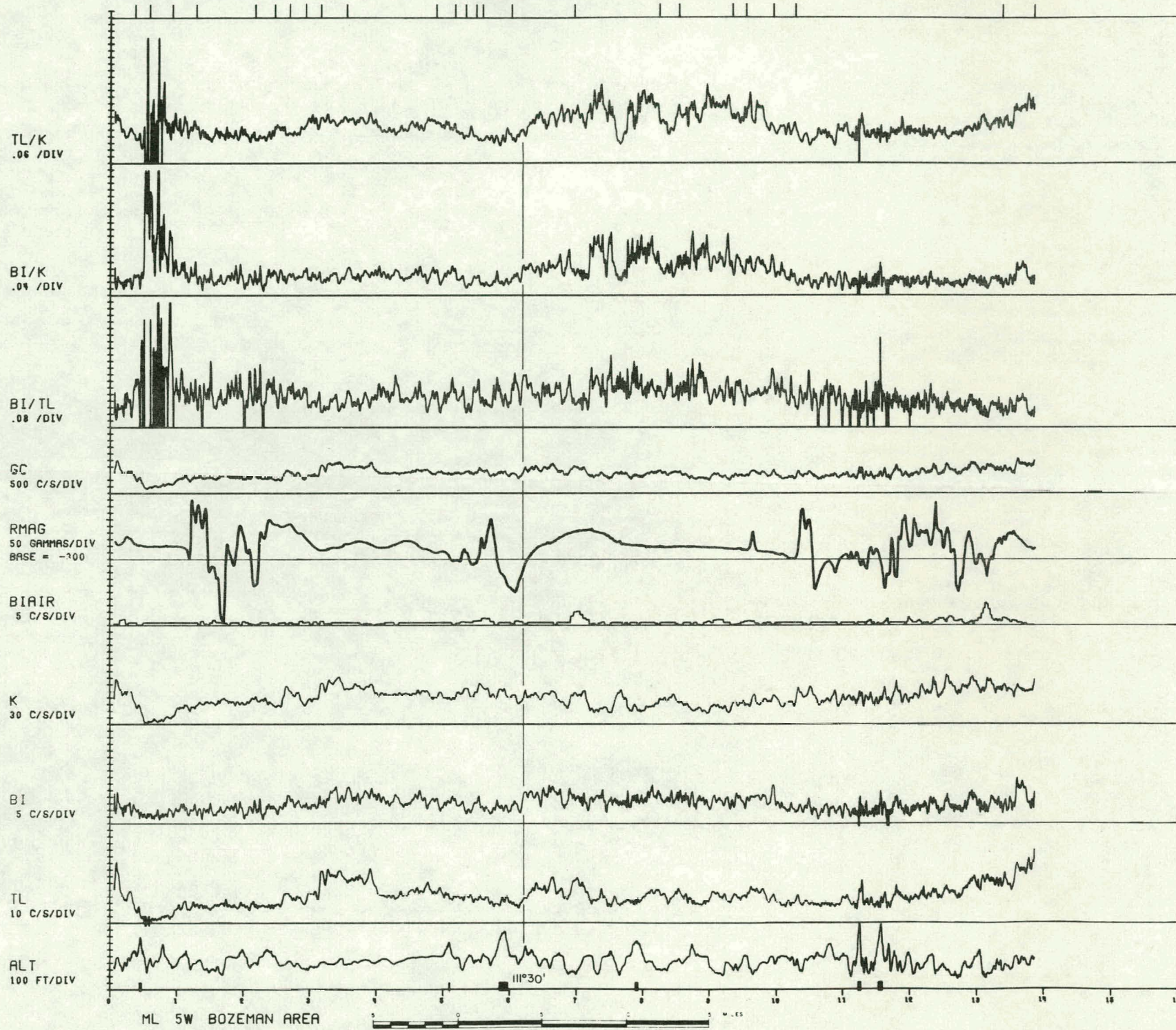
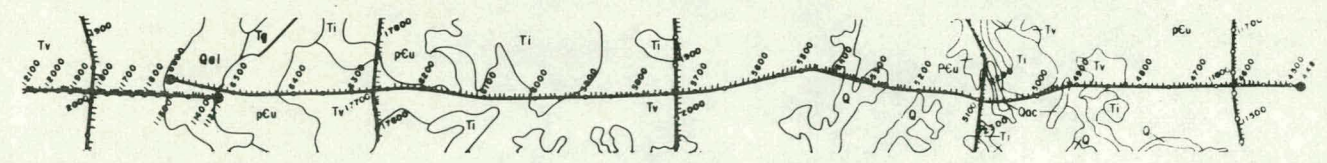
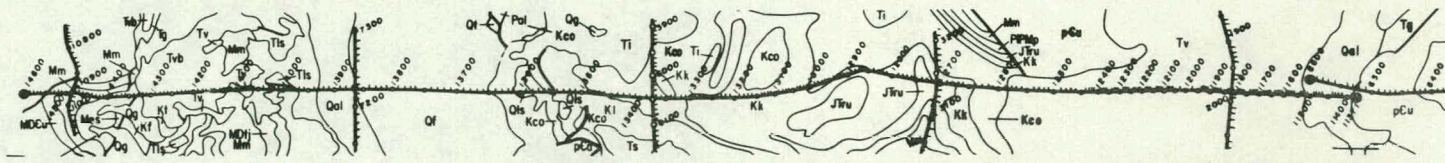
PLT
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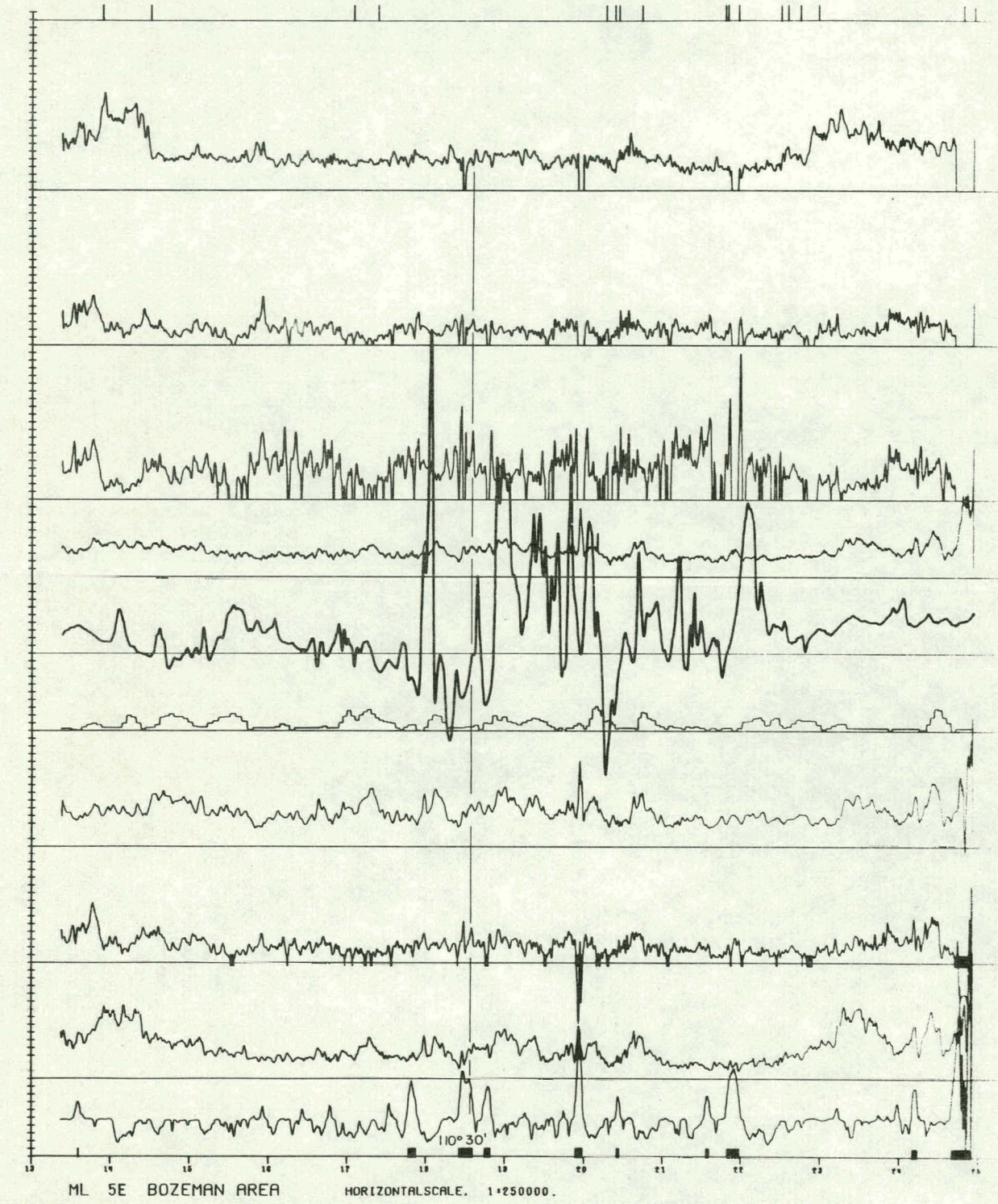
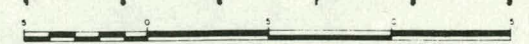
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ML 4E BOZEMAN AREA

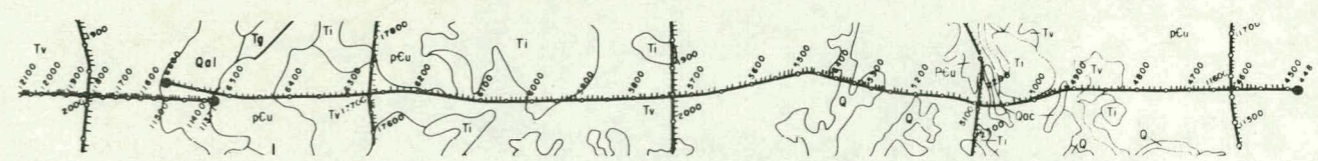
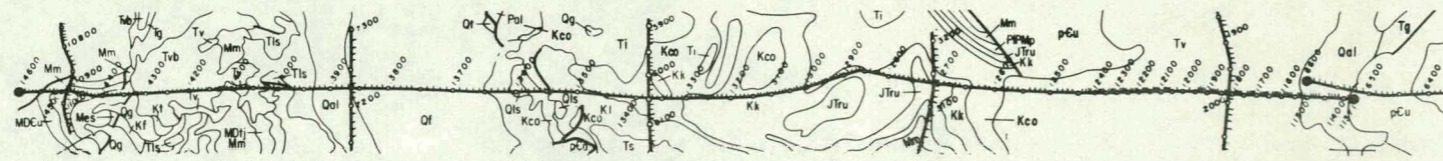


ML 5W BOZEMAN AREA



ML 5E BOZEMAN AREA

HORIZONTAL SCALE. 1:250000.



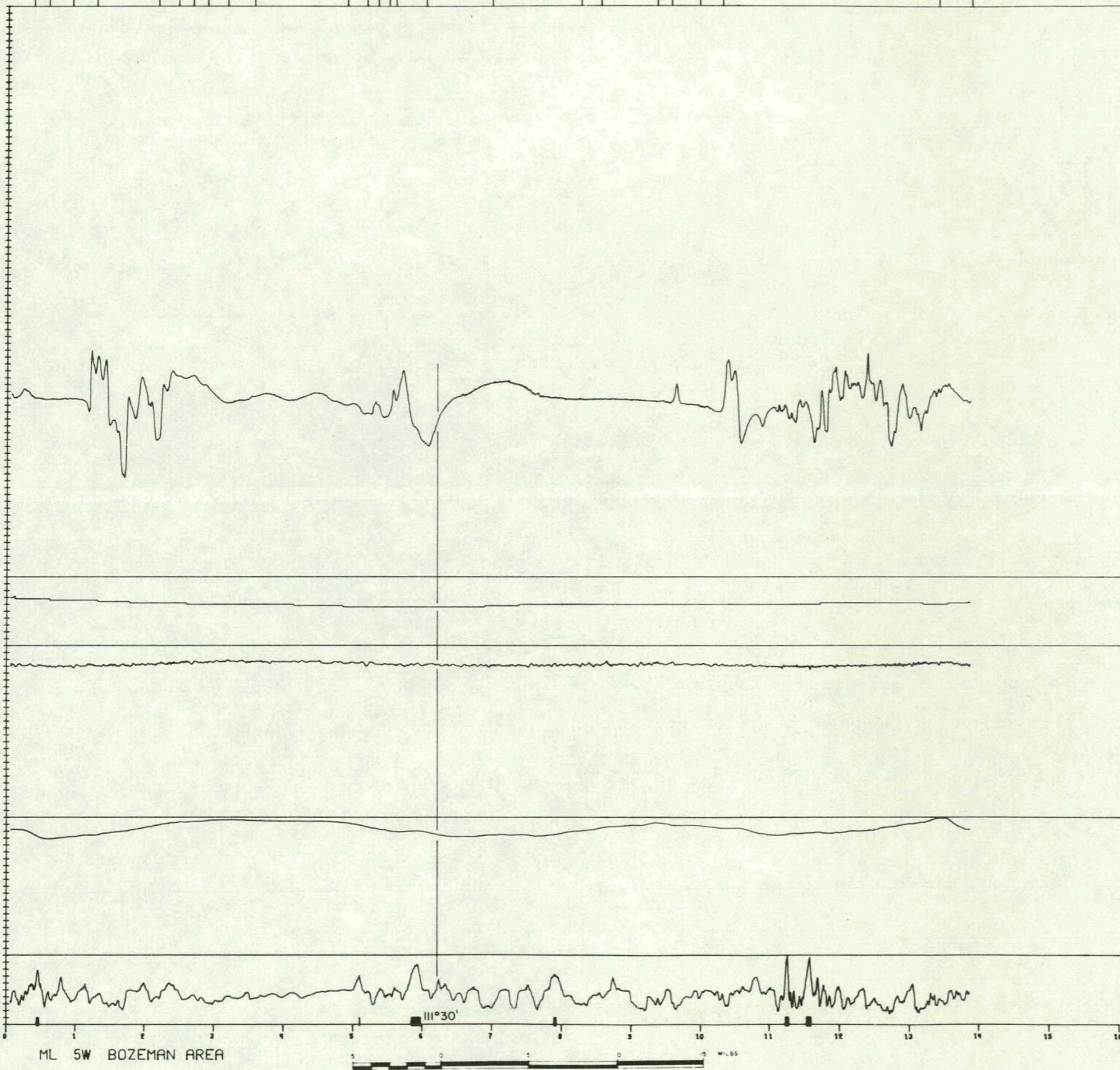
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BMAG
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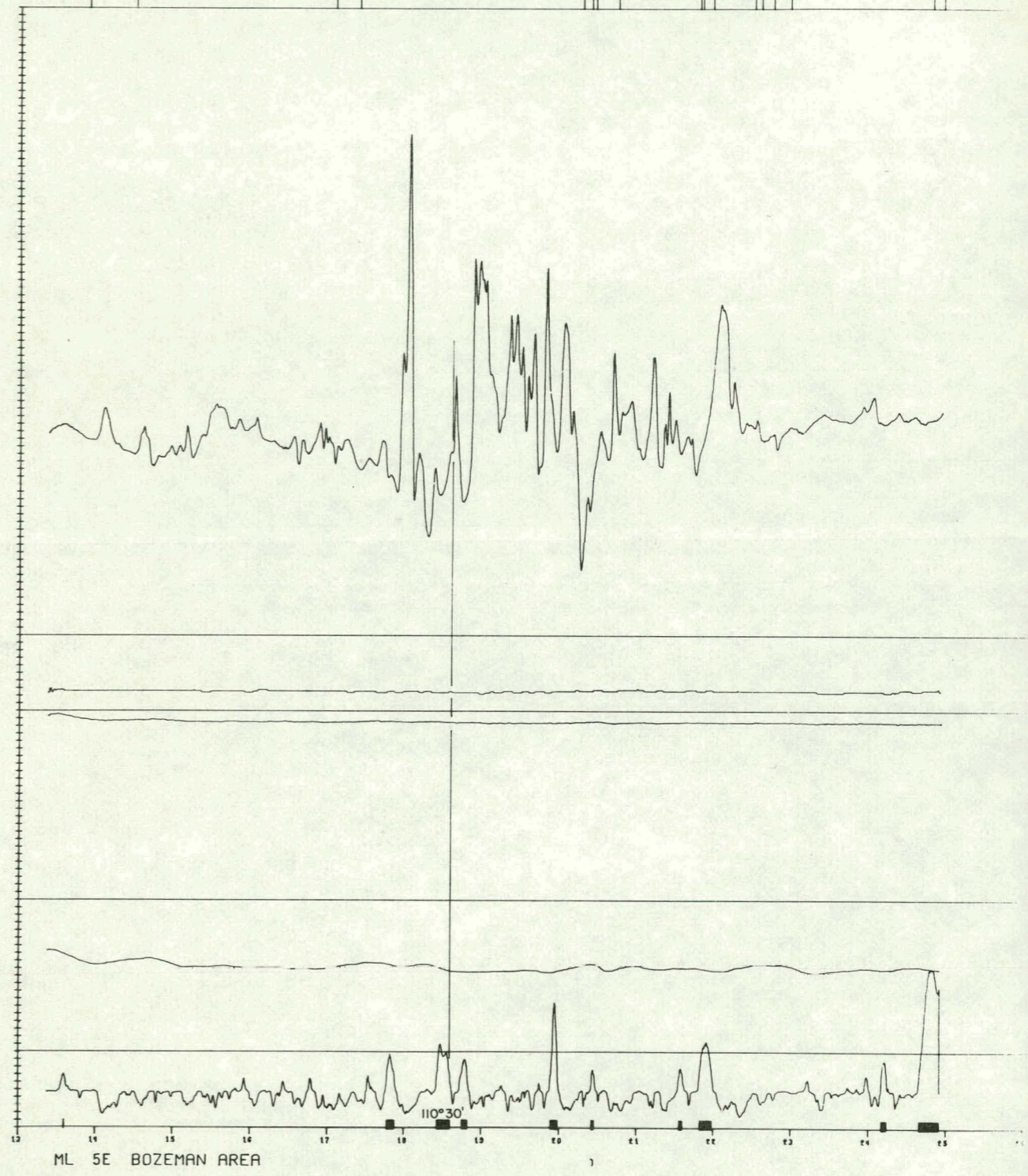
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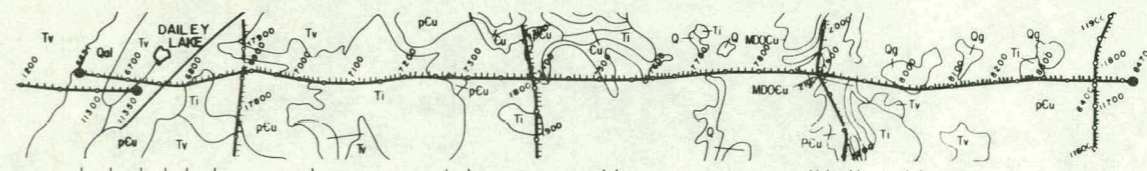
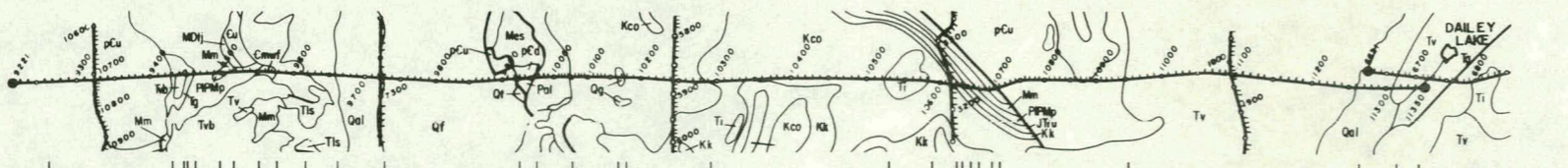
ALT
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ML SW BOZEMAN AREA



ML SE BOZEMAN AREA



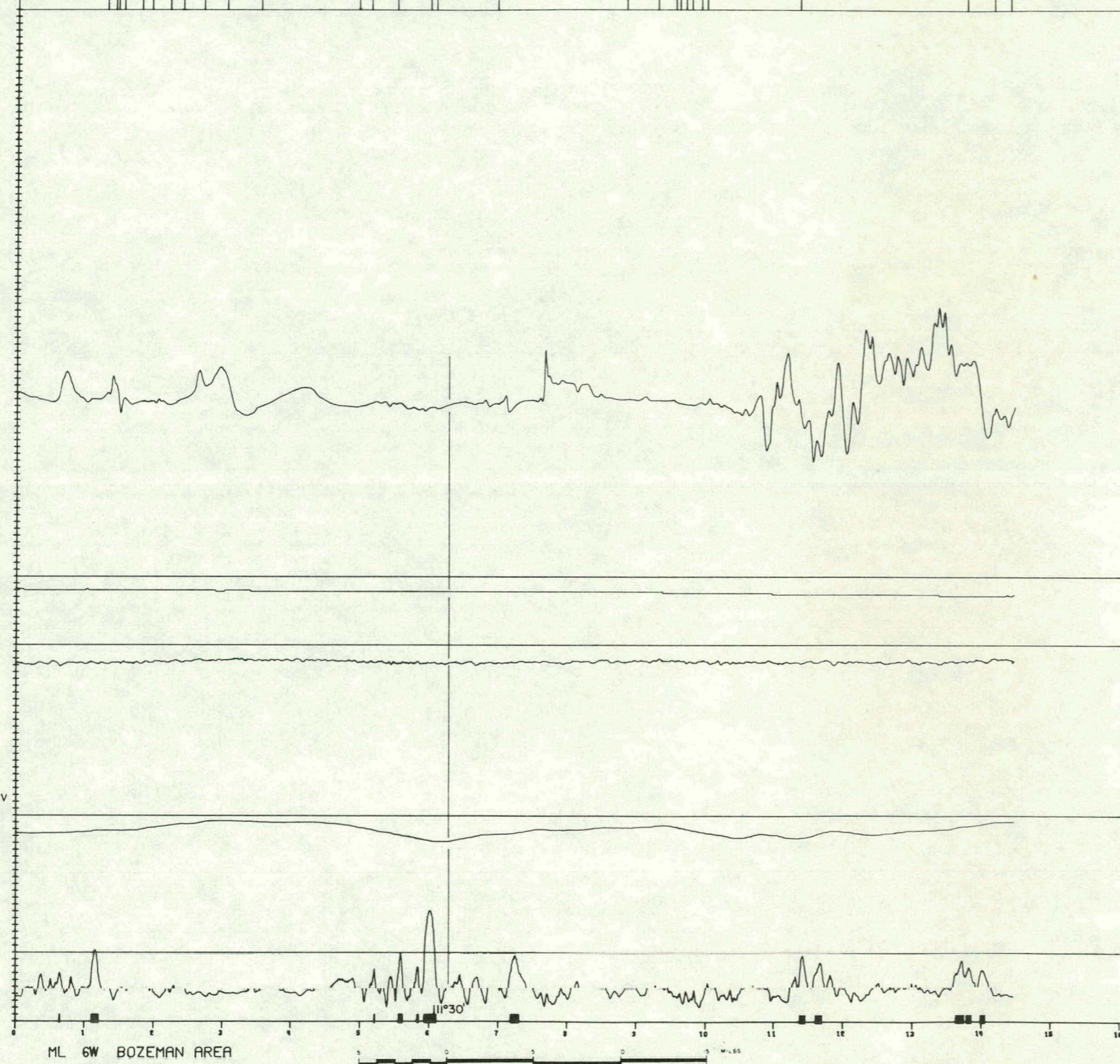
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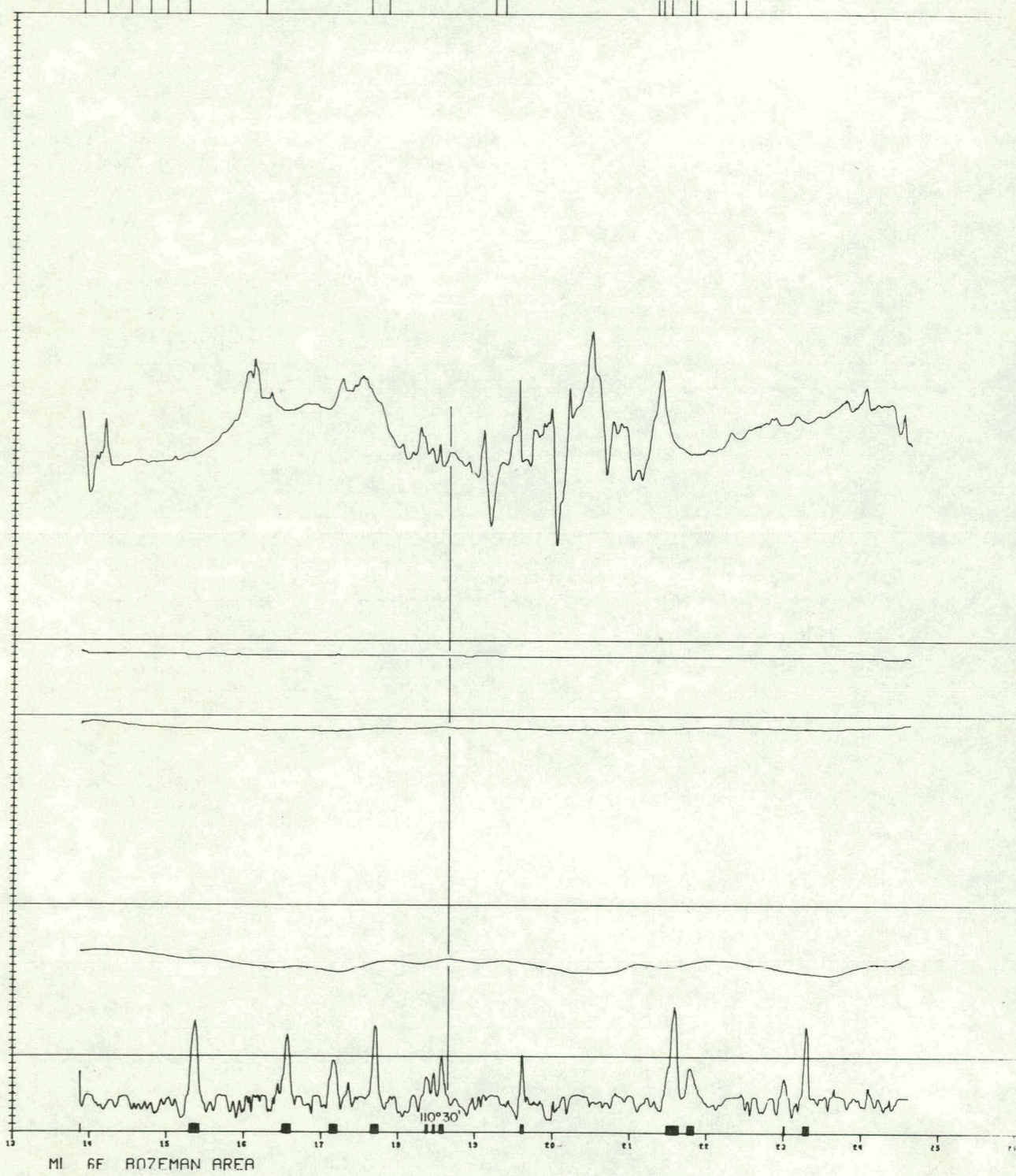
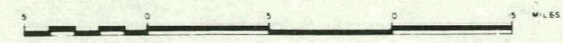
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TEMP
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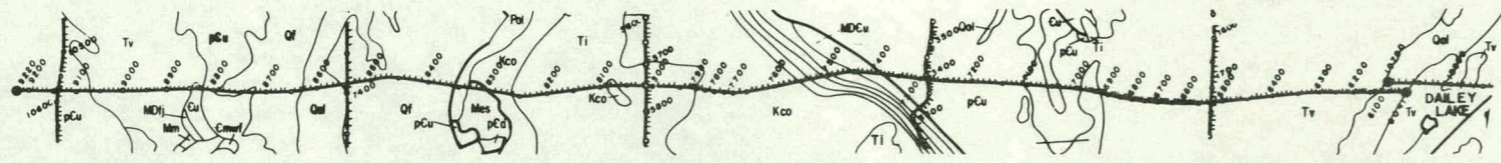
ALT
100 FT/DIV



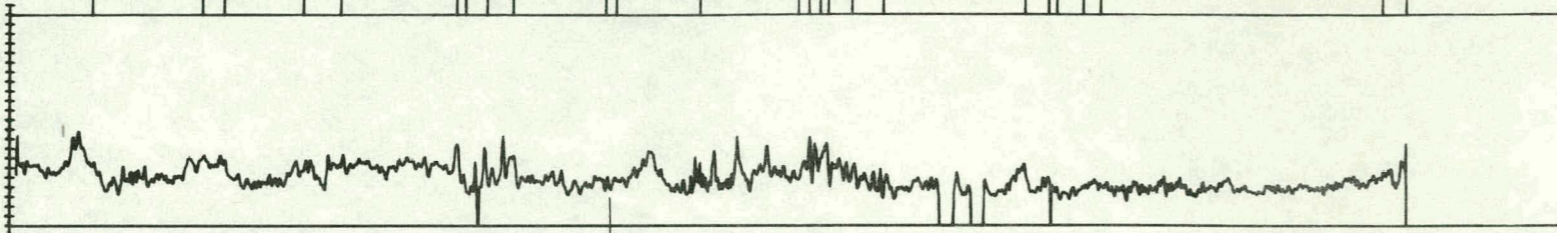
ML 6W BOZEMAN AREA



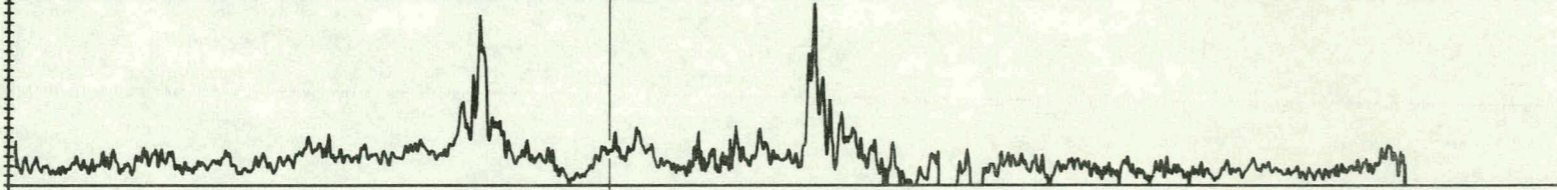
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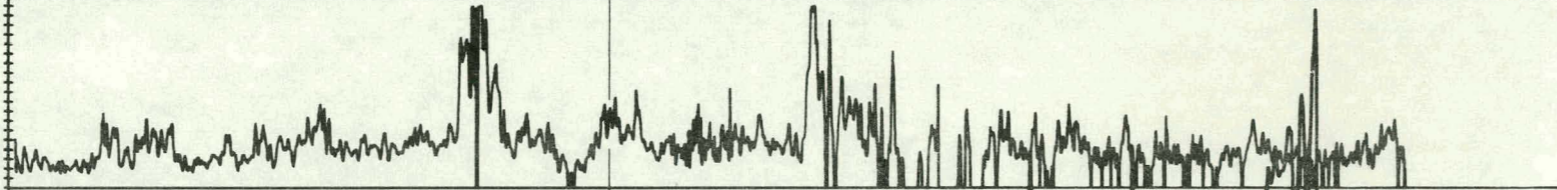
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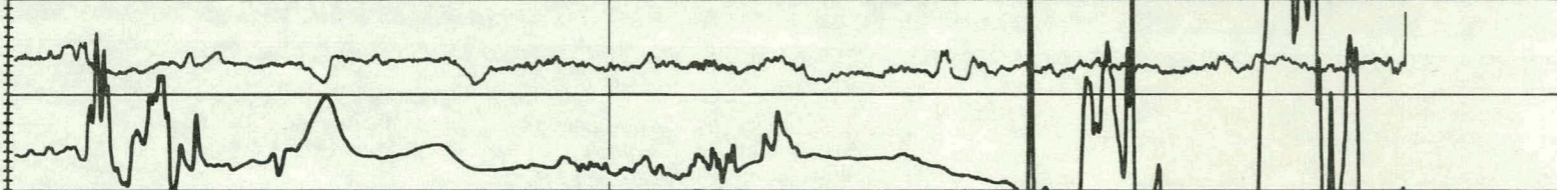
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.04 /DIV



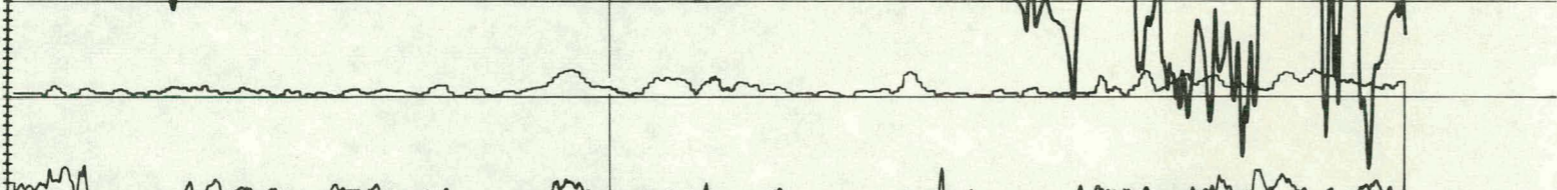
BI/TL
.08 /DIV



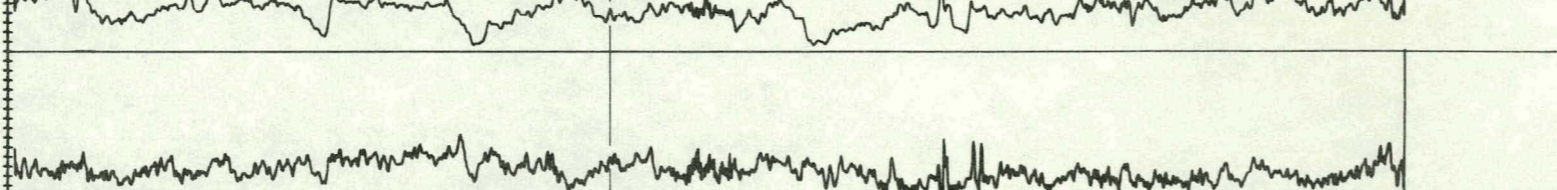
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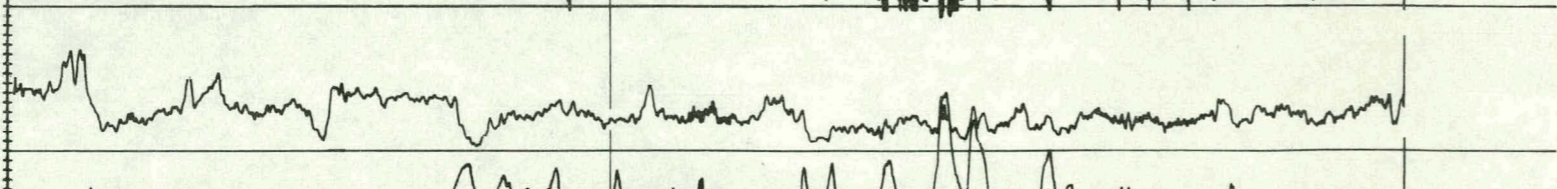
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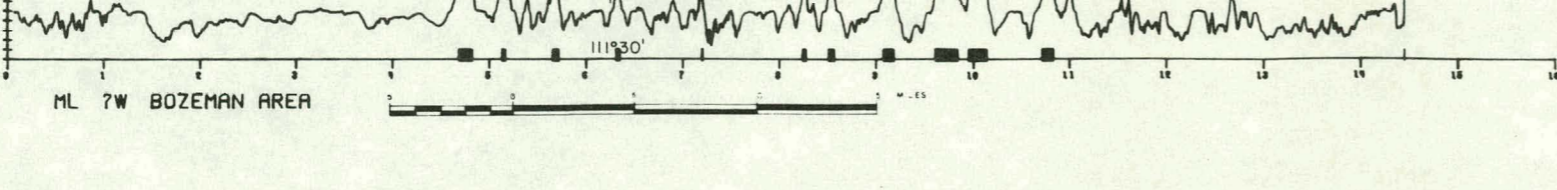
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5 C/S/DIV



K
30 C/S/DIV



BI
5 C/S/DIV

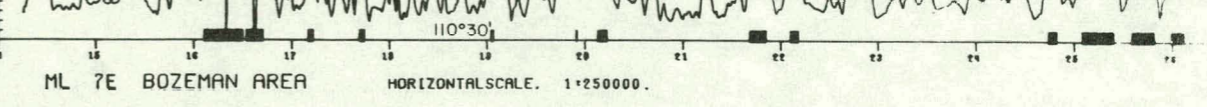
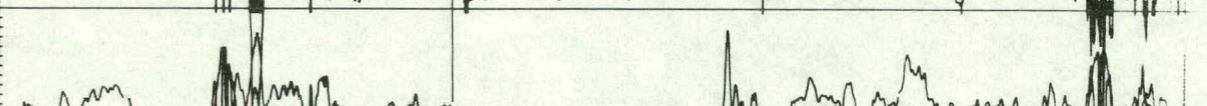
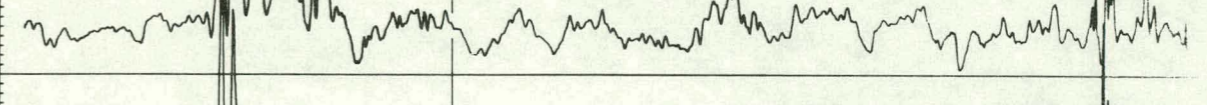
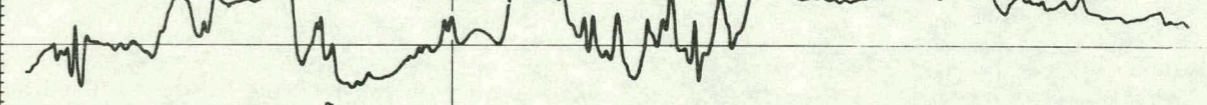
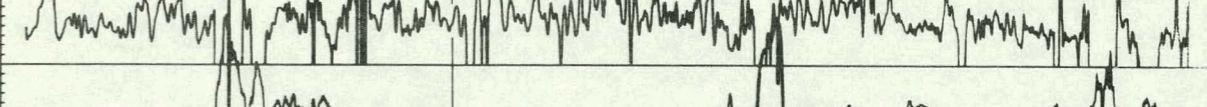
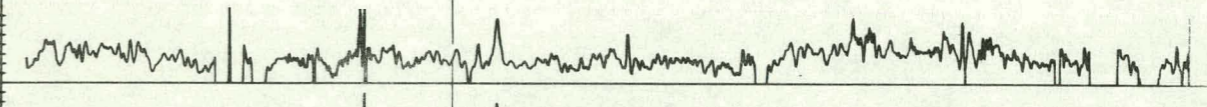
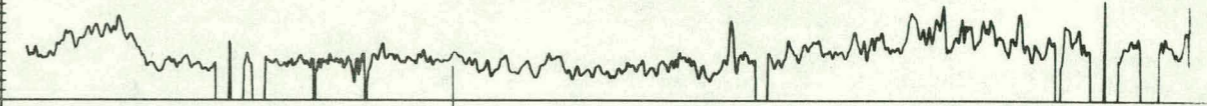
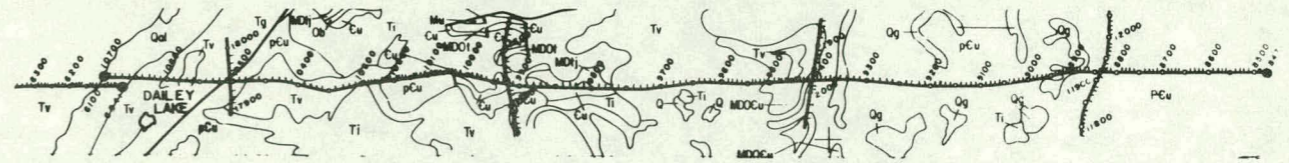


TL
10 C/S/DIV

ALT
100 FT/DIV

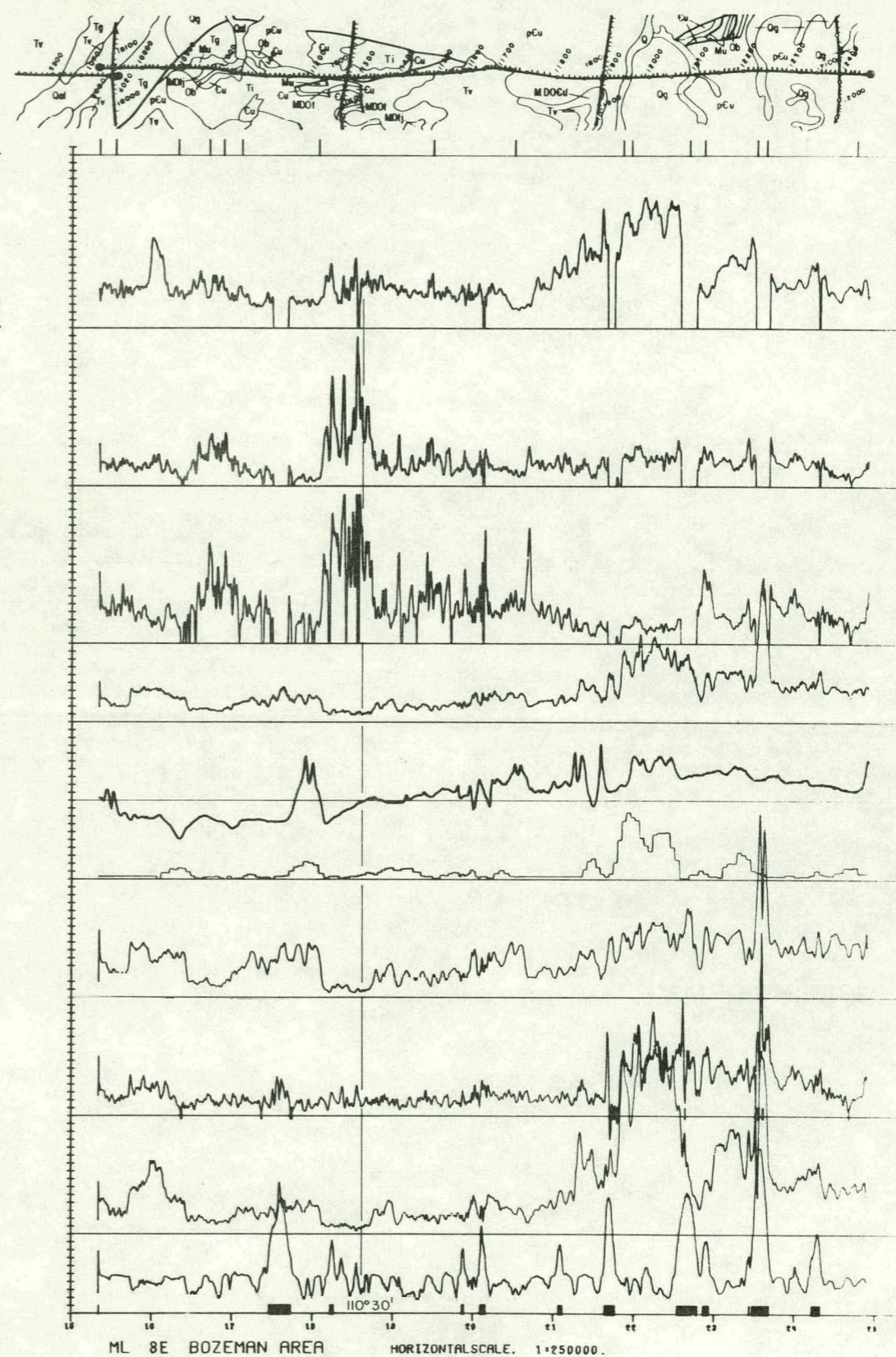
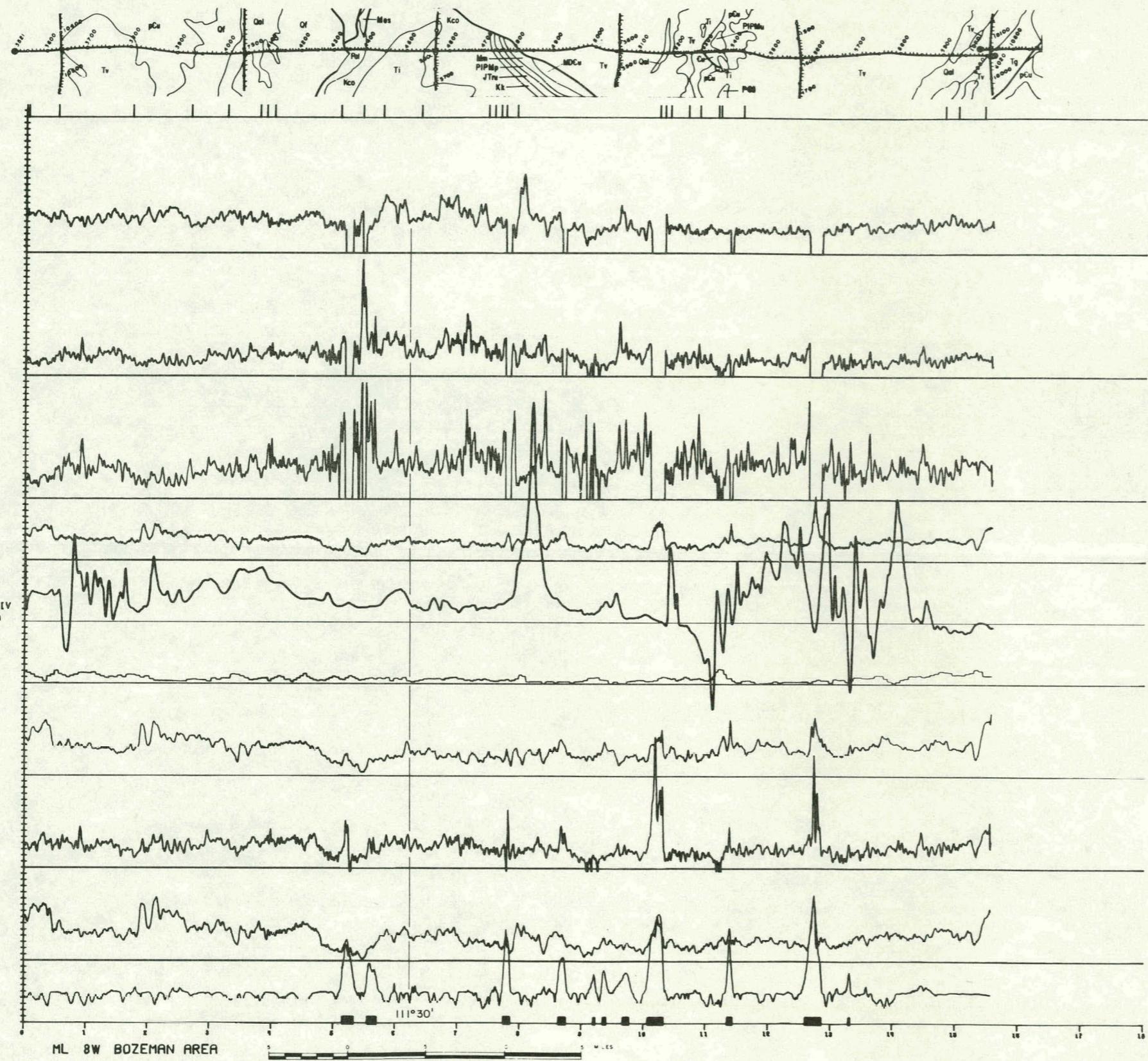


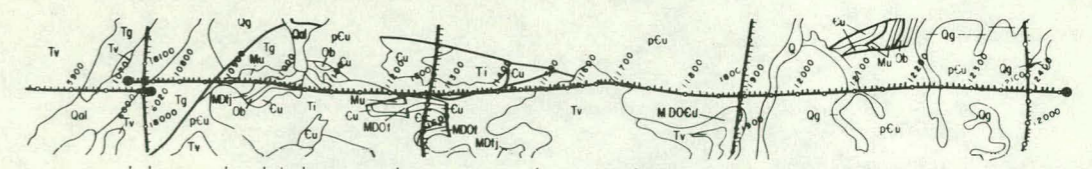
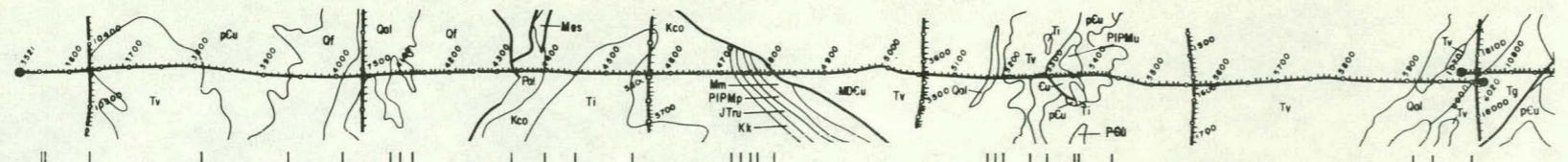
ML 7W BOZEMAN AREA



ML 7E BOZEMAN AREA

HORIZONTAL SCALE. 1:250000.





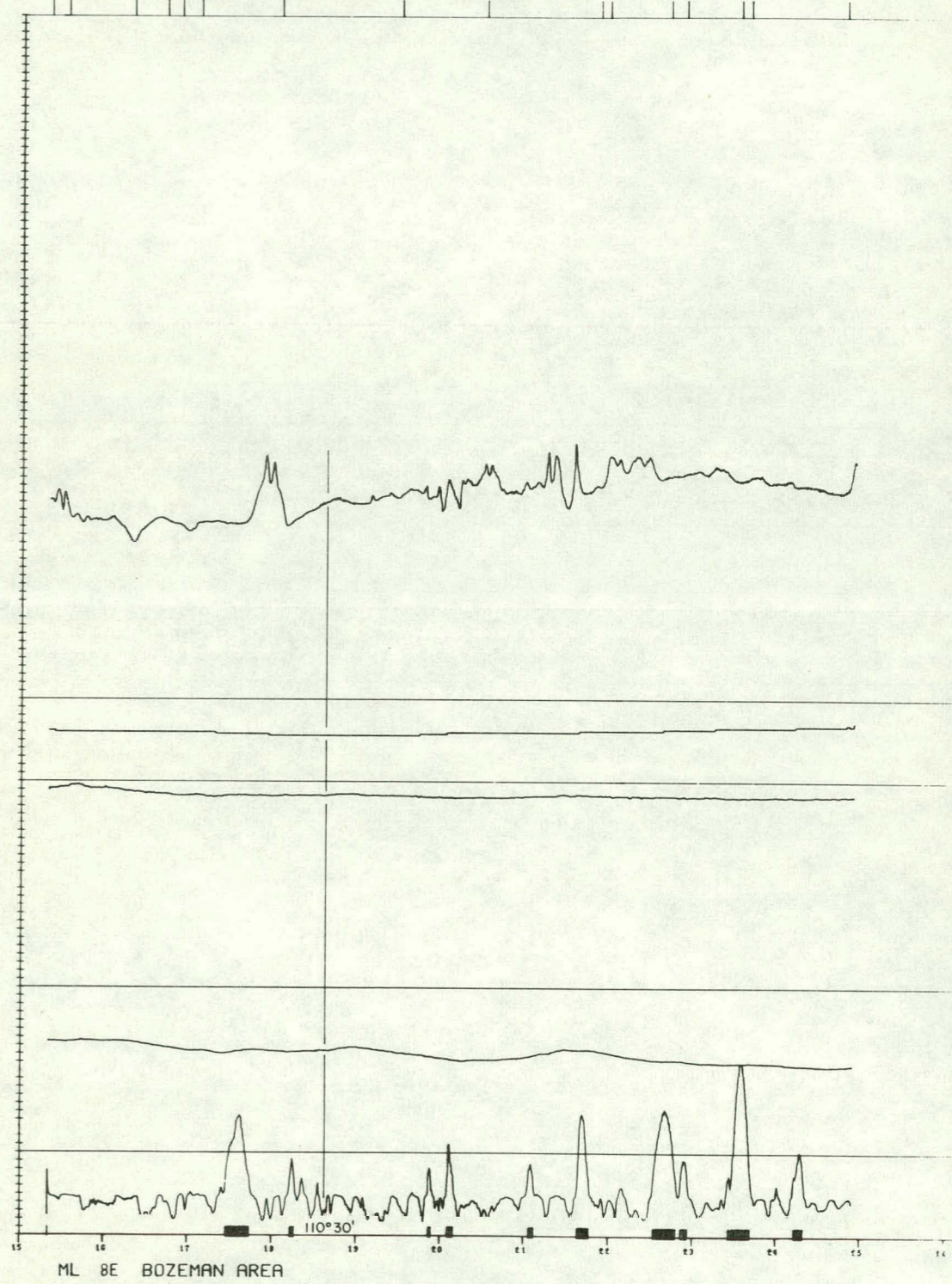
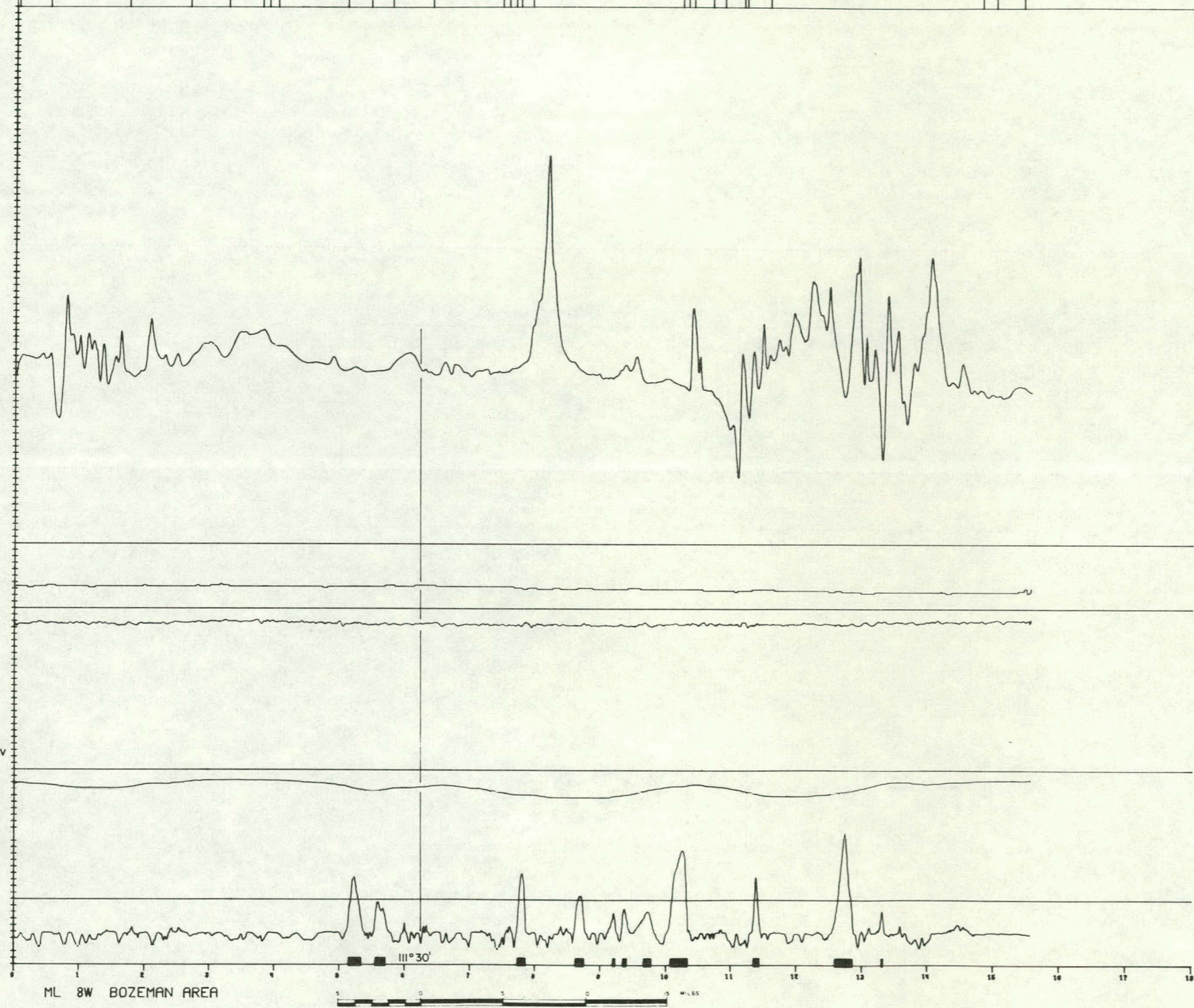
RMAG
50 GAMMA/DIV
BASE = -1500

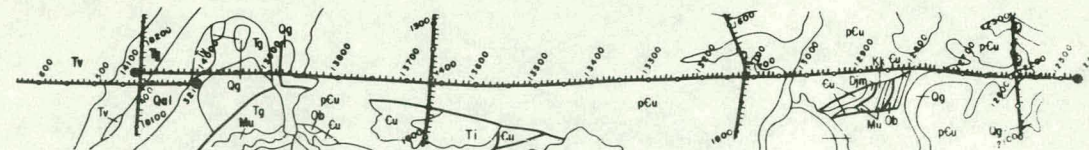
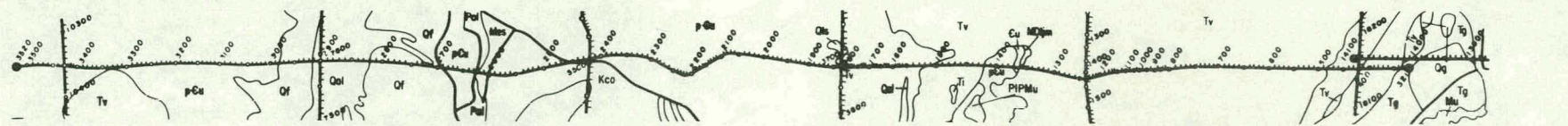
BMAG
5 GAMMA/DIV
BASE = 56275

PRESSURE
0.25 IN HG/DIV
BASE = 20

TEMP
2 DEG C/DIV
BASE = -15

RI T
100 FT/DIV





TL/K
.06 /DIV

BI/K
.04 /DIV

BI/TL
.08 /DIV

GC
500 C/S/DIV

RMAG
50 GAMMAS/DIV
BASE = -300

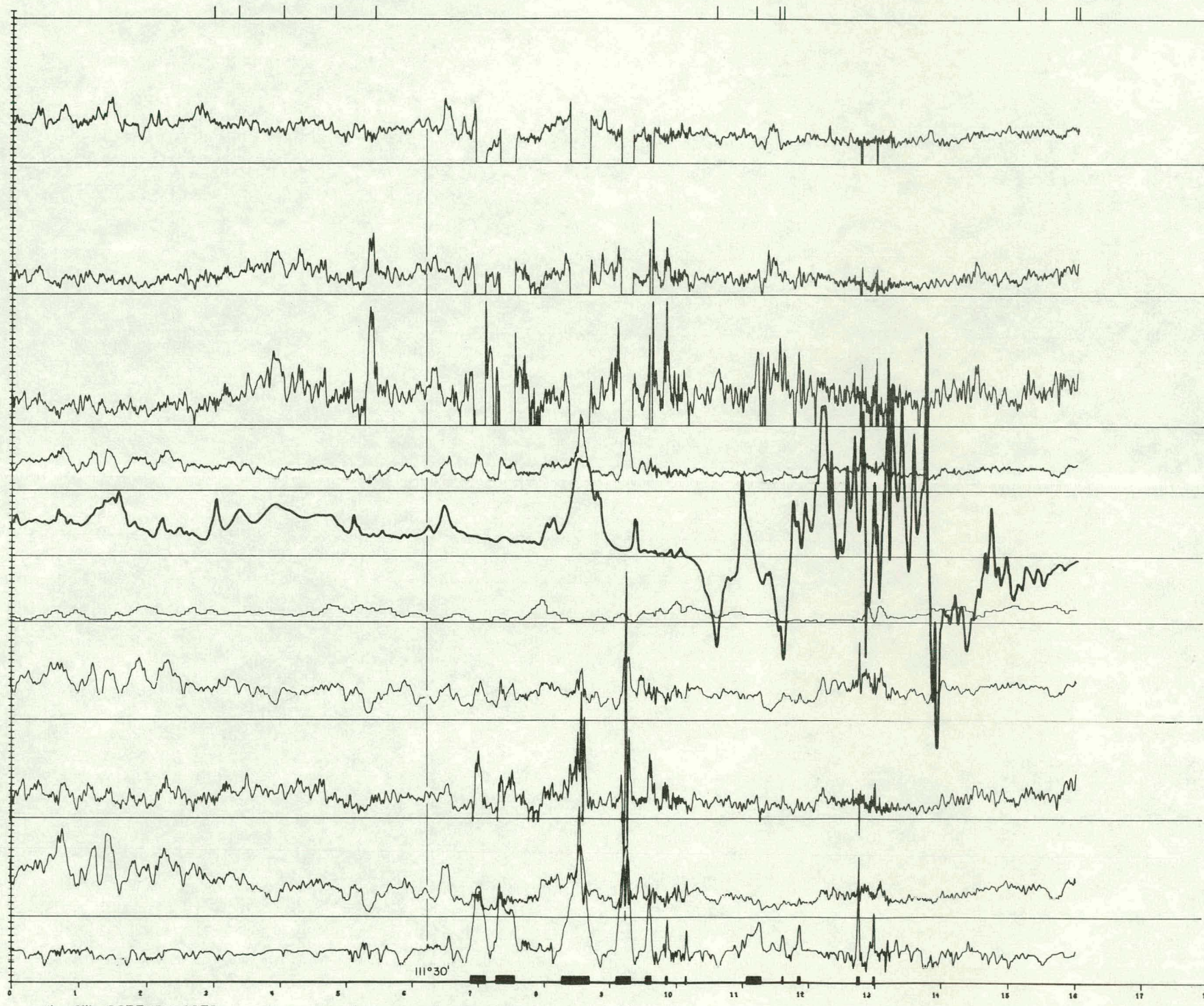
BIAIR
5 C/S/DIV

K
30 C/S/DIV

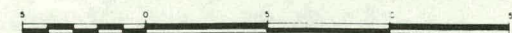
BI
5 C/S/DIV

TL
10 C/S/DIV

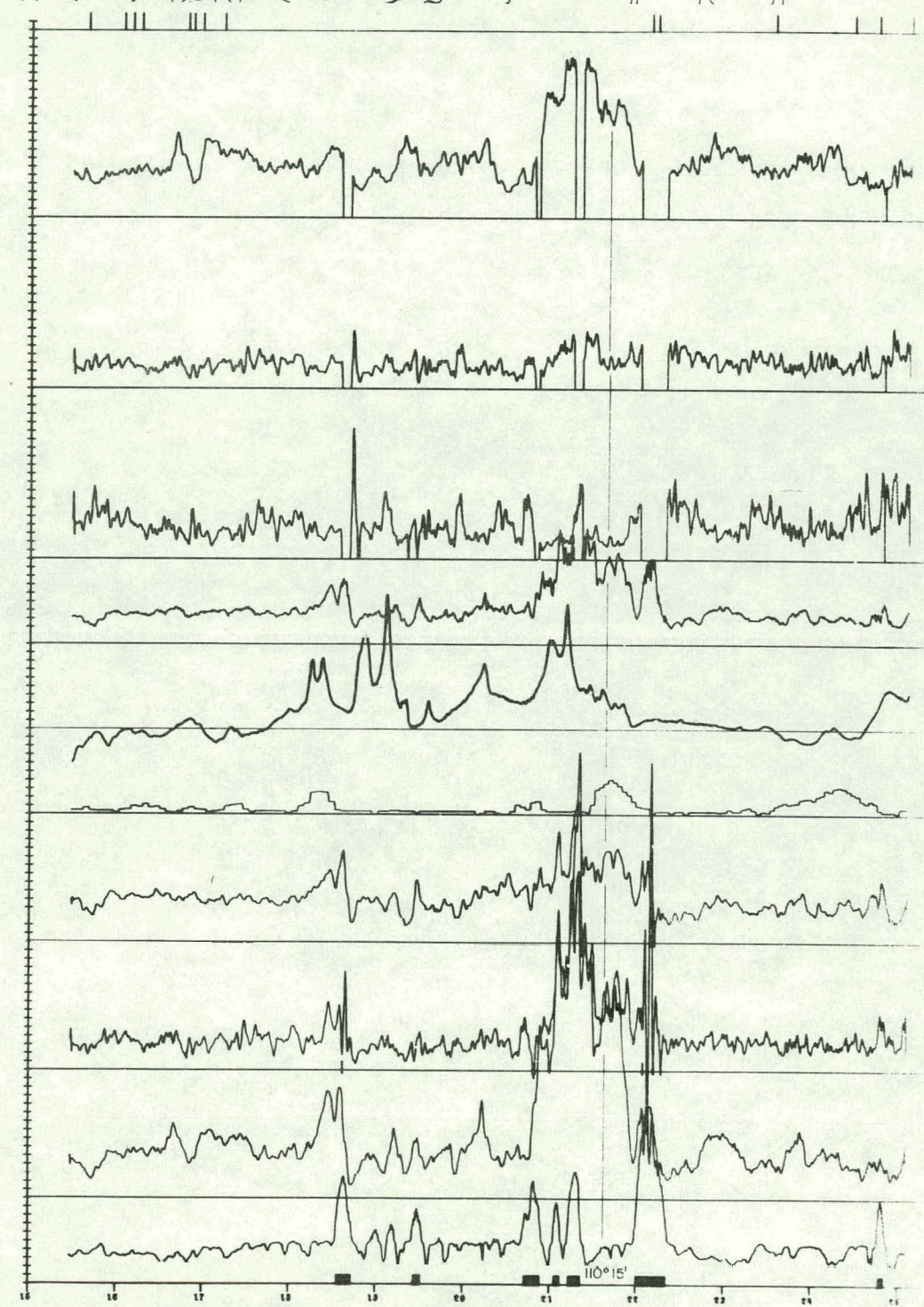
ALT
100 FT/DIV



ML 9W BOZEMAN AREA



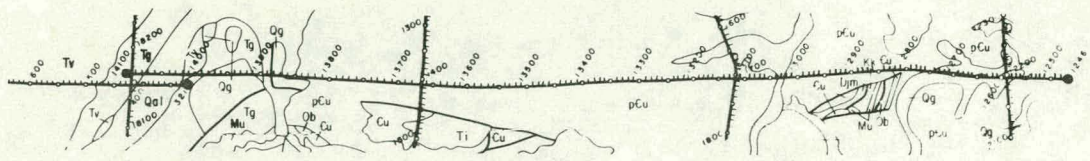
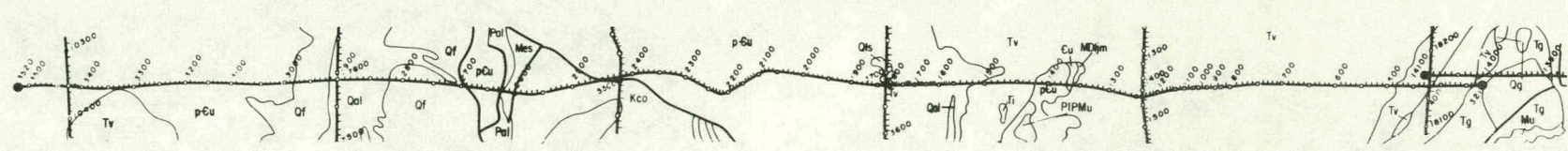
111°30'



ML 9E BOZEMAN AREA

HORIZONTAL SCALE. 1:250000.

110°15'



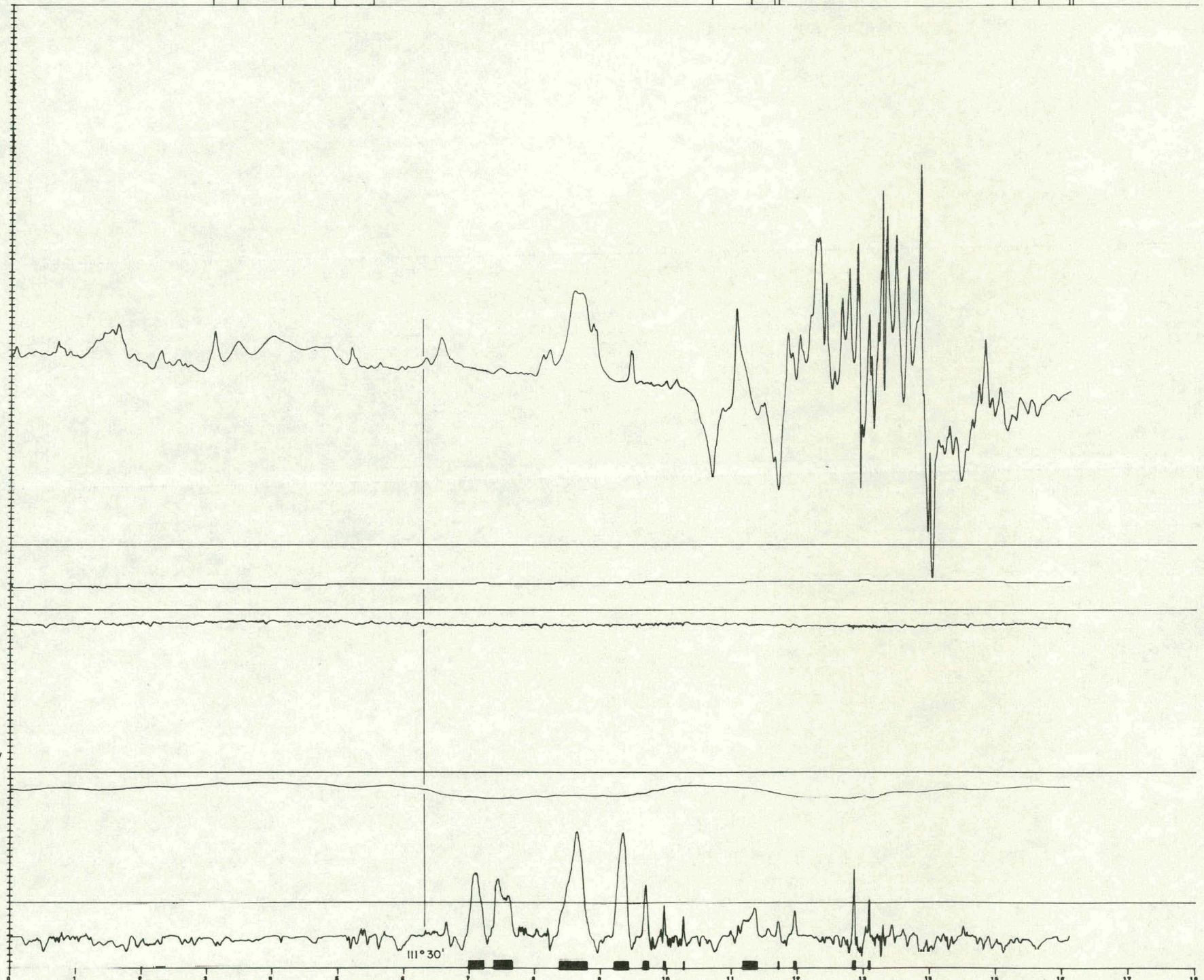
RMAG
50 GAMMA/DIV
BASE = -1500

BMAG
5 GAMMA/DIV
BASE = 56275

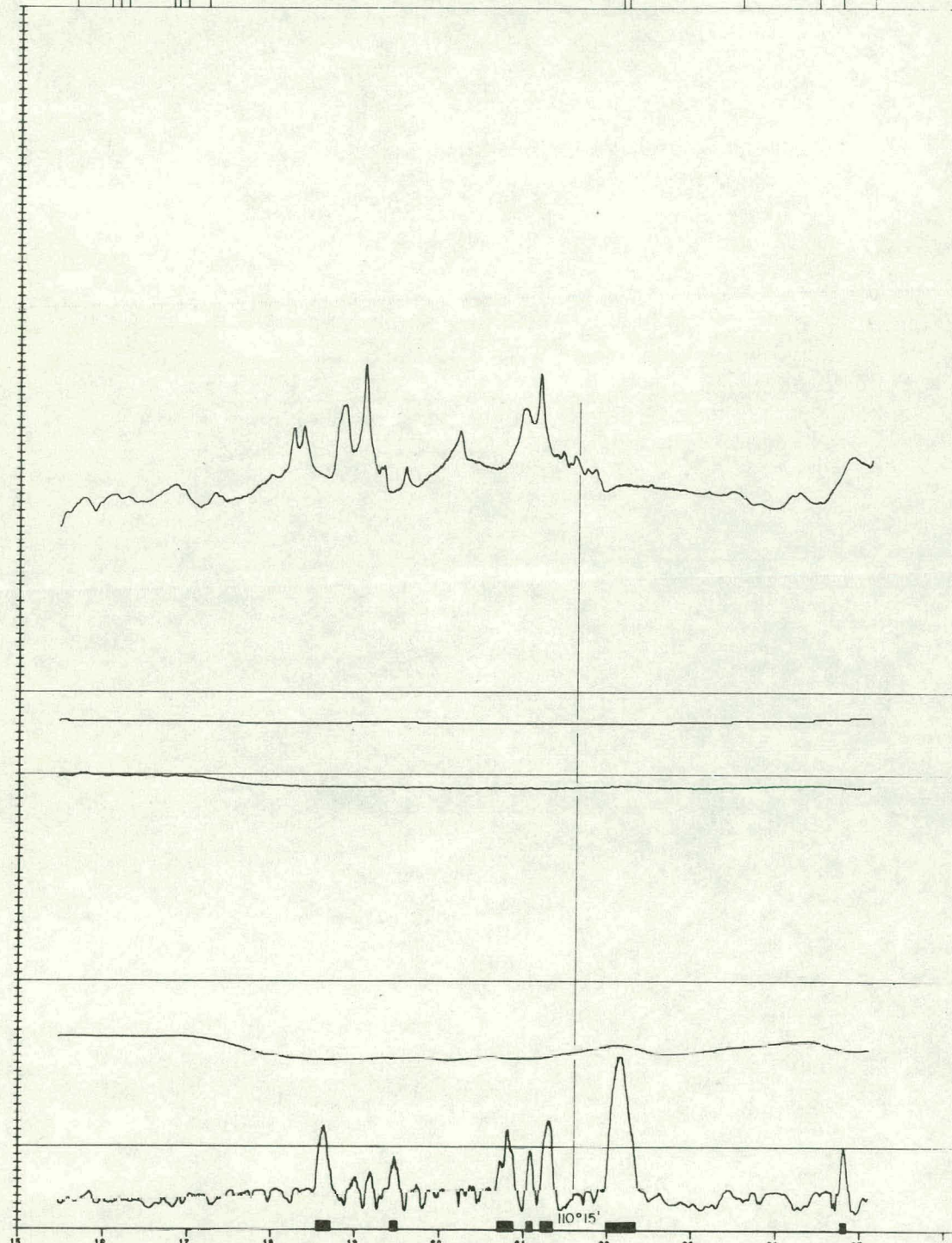
PRESSURE
0.25 IN HG/DIV
BASE = 20

TEMP
2 DEG C/DIV
BASE = -15

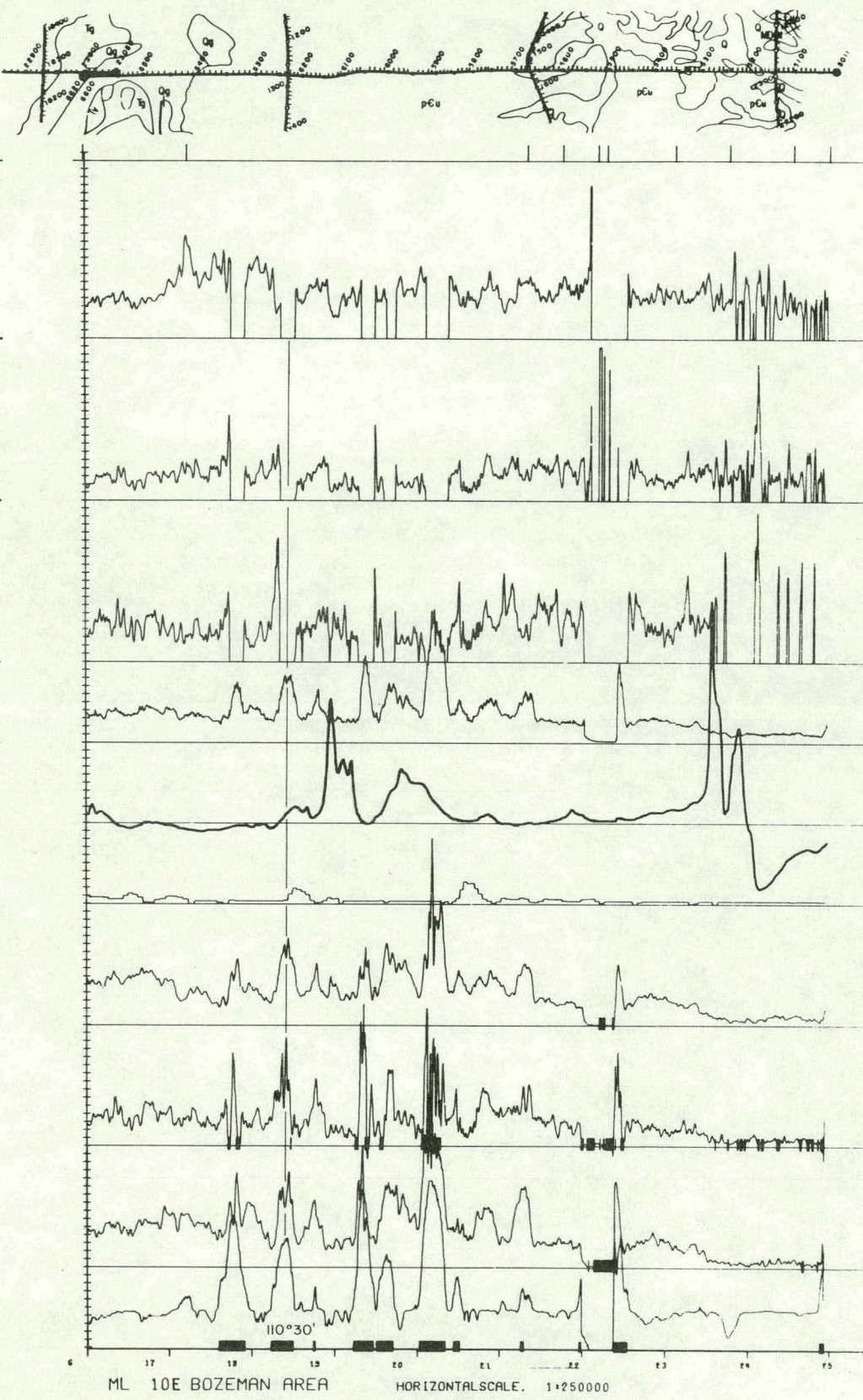
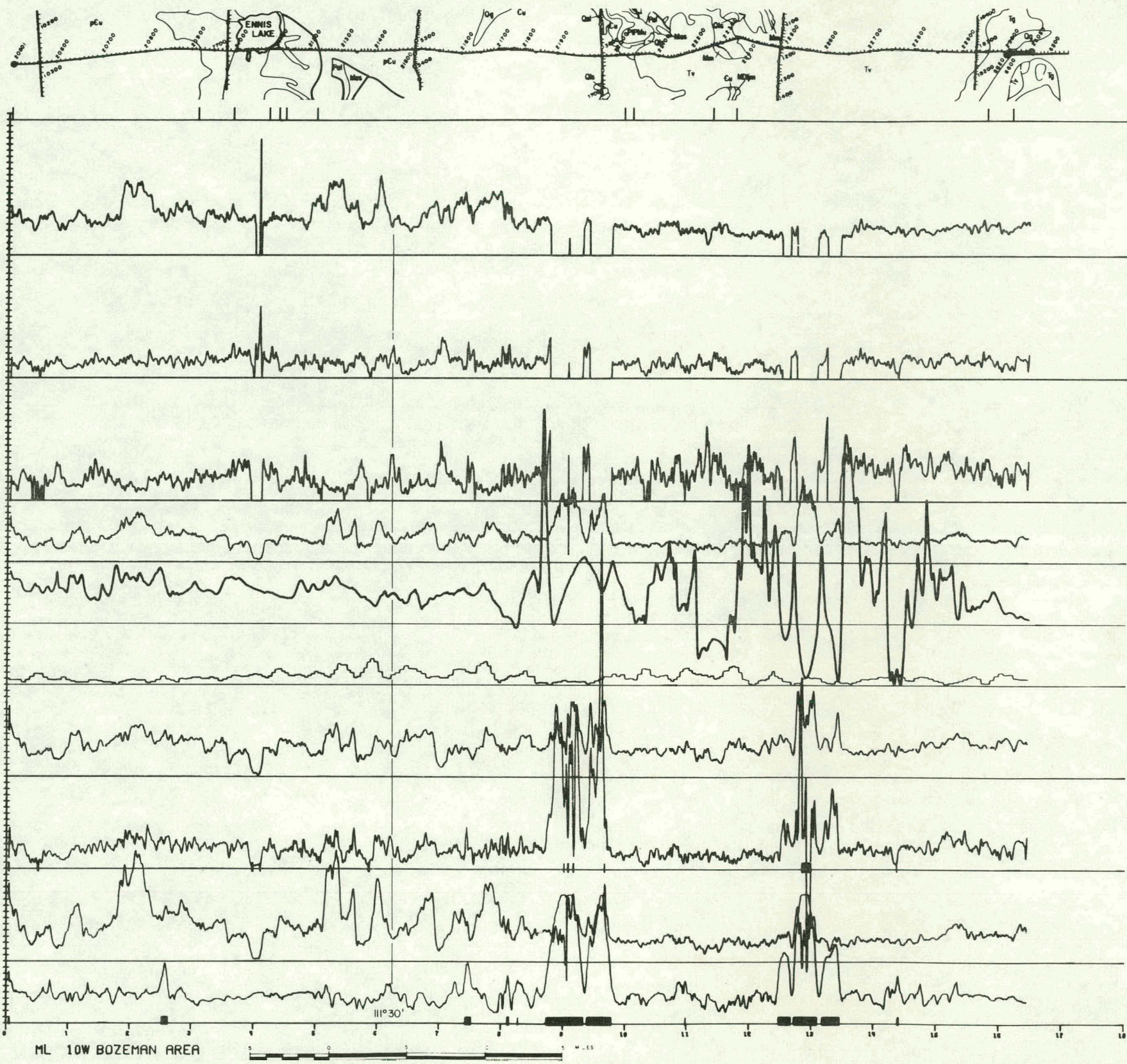
ALT
100 FT/DIV

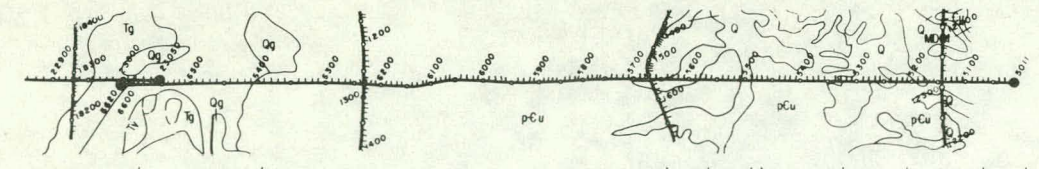
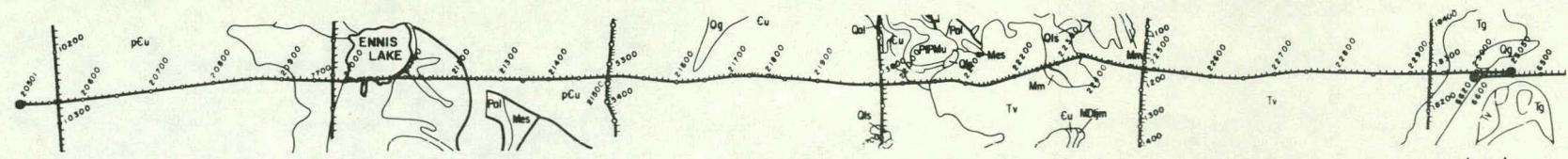


ML 9W BOZEMAN AREA



ML 9E BOZEMAN AREA





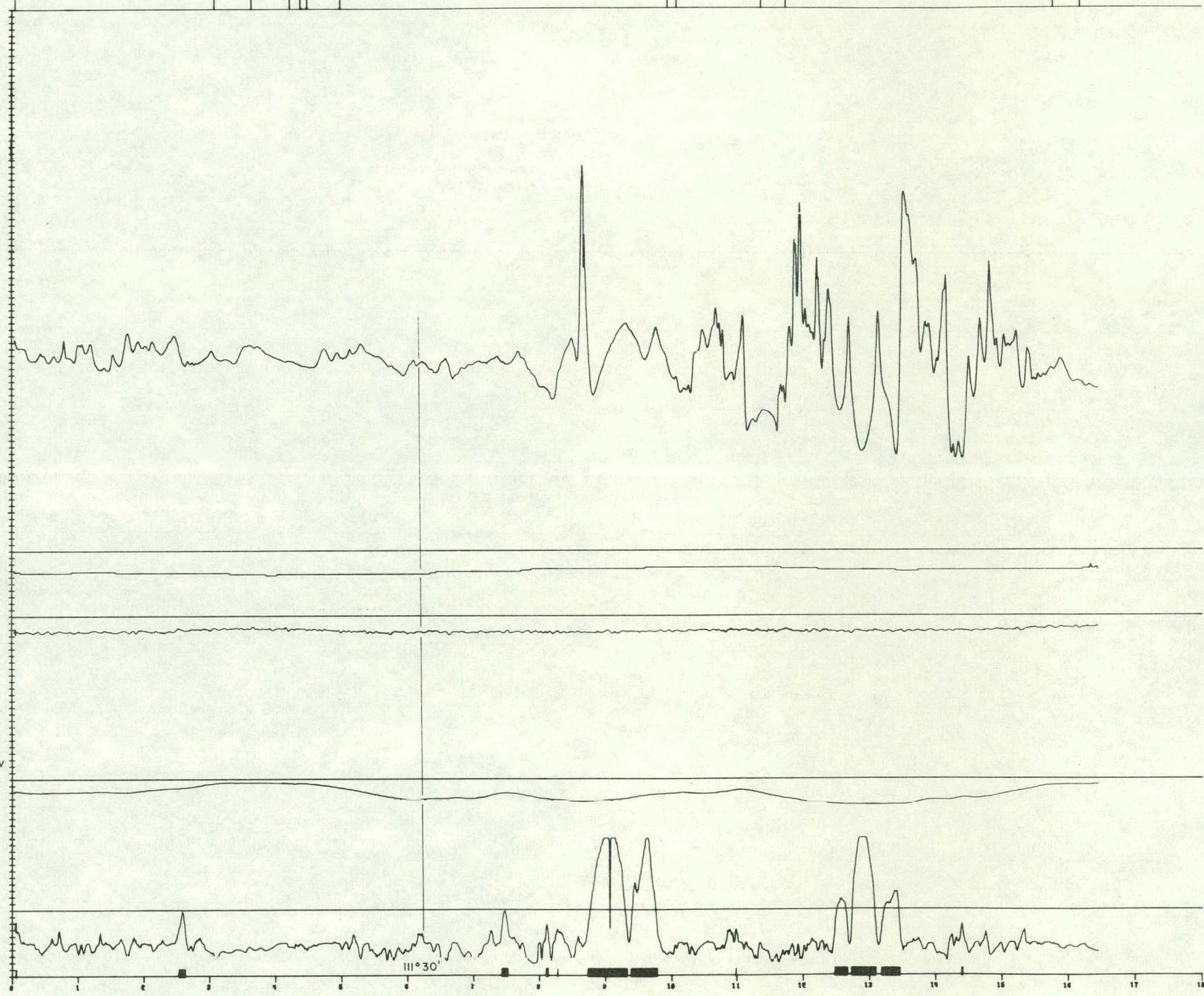
RMAG
50 GAMMA/DIV
BASE = -1500

BMAG
5 GAMMA/DIV
BASE = 56275

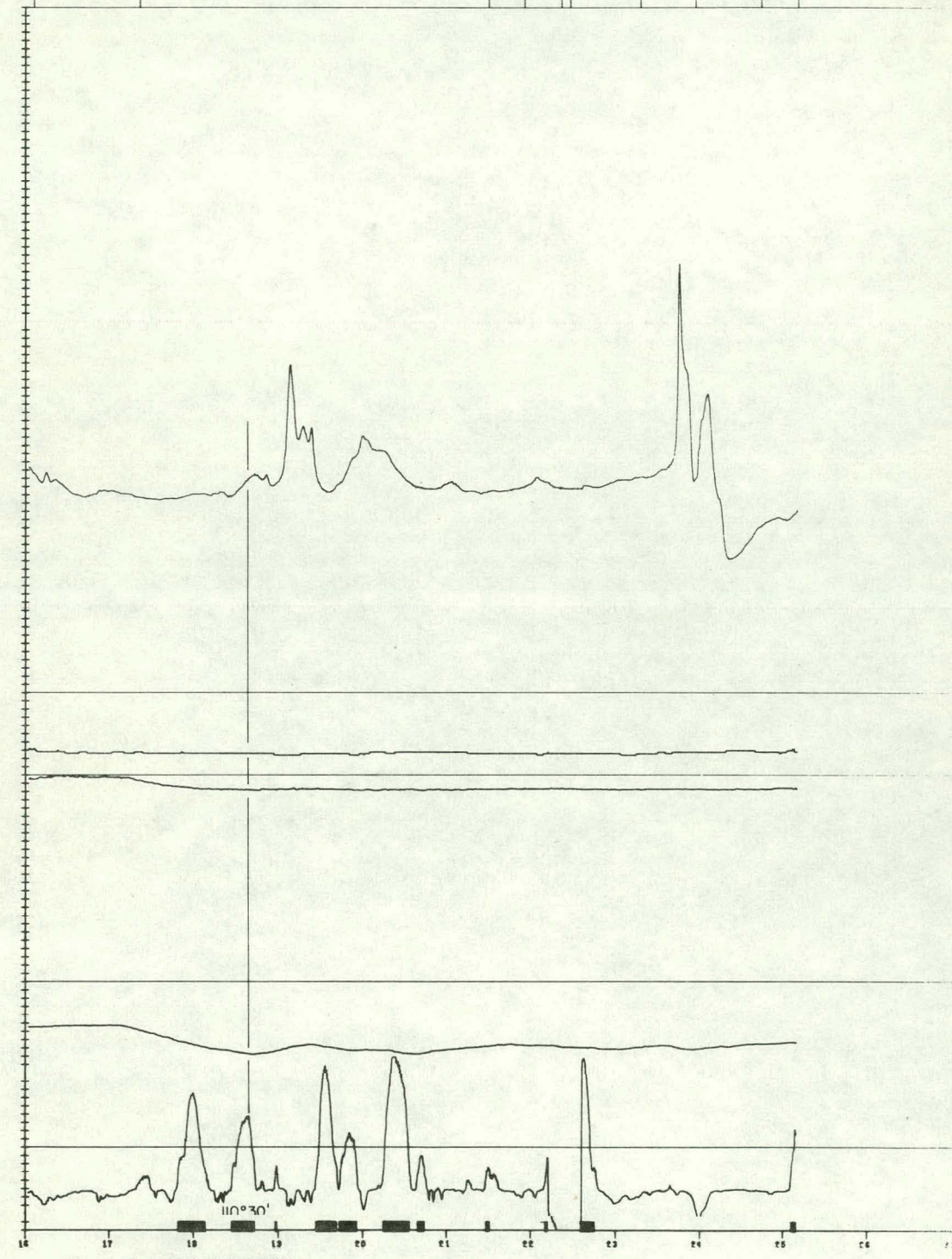
PRESSURE
0.25 IN HG/DIV
BASE = 20

TEMP
2 DEG C/DIV
BASE = -15

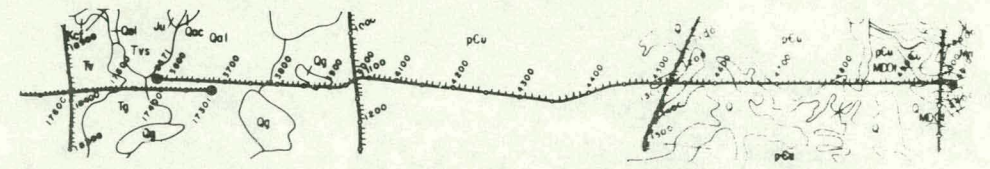
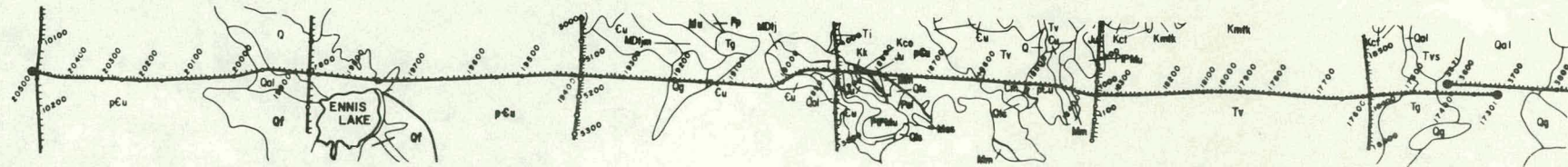
ALT
100 FT/DIV



ML 10W BOZEMAN AREA



ML 10E BOZEMAN AREA



TL/K
.06 /DIV

BI/K
.04 /DIV

BI/TL
.08 /DIV

GC
500 C/S/DIV

RMAG
50 GAMMAS/DIV
BASE = -300

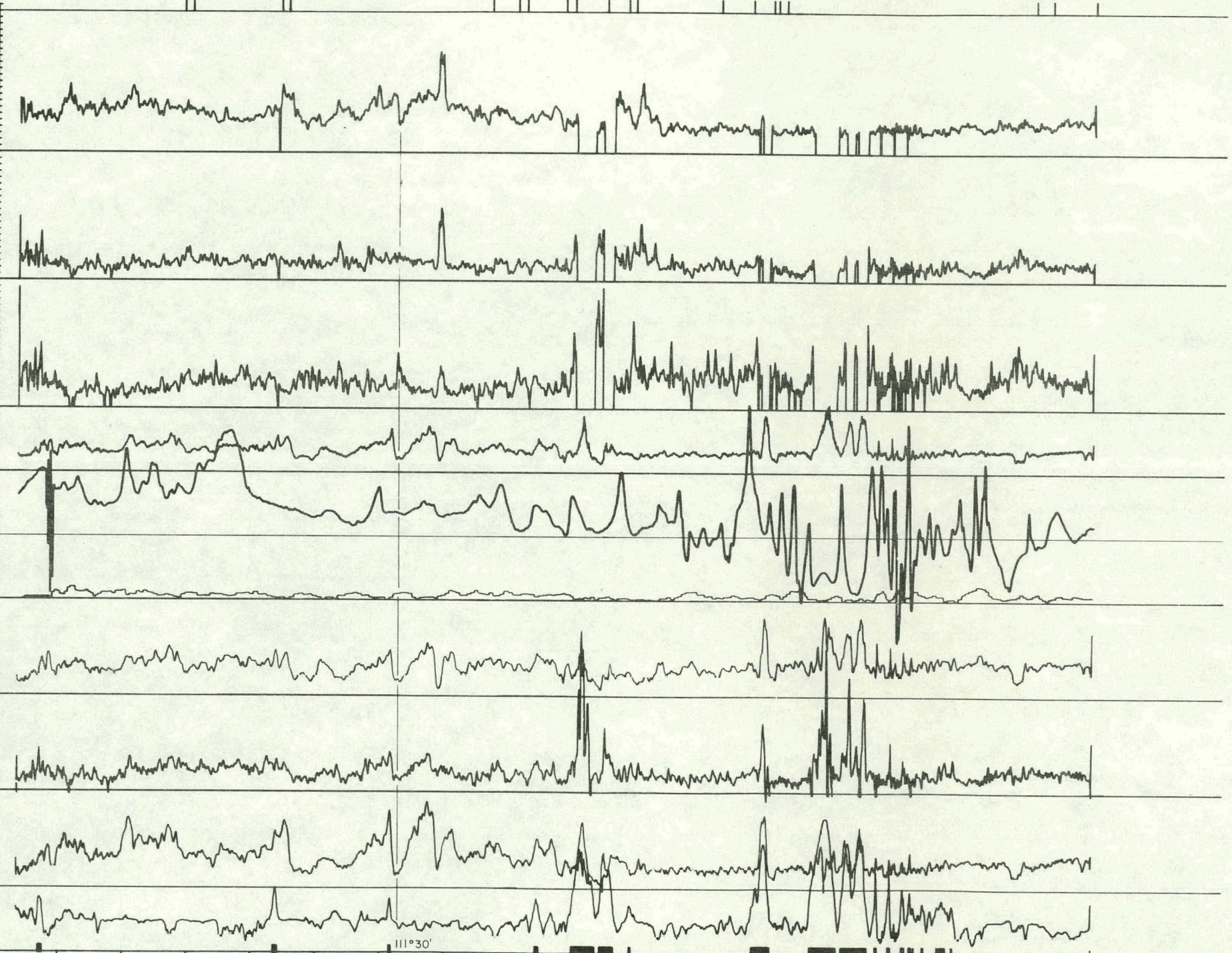
BIAIR
5 C/S/DIV

K
30 C/S/DIV

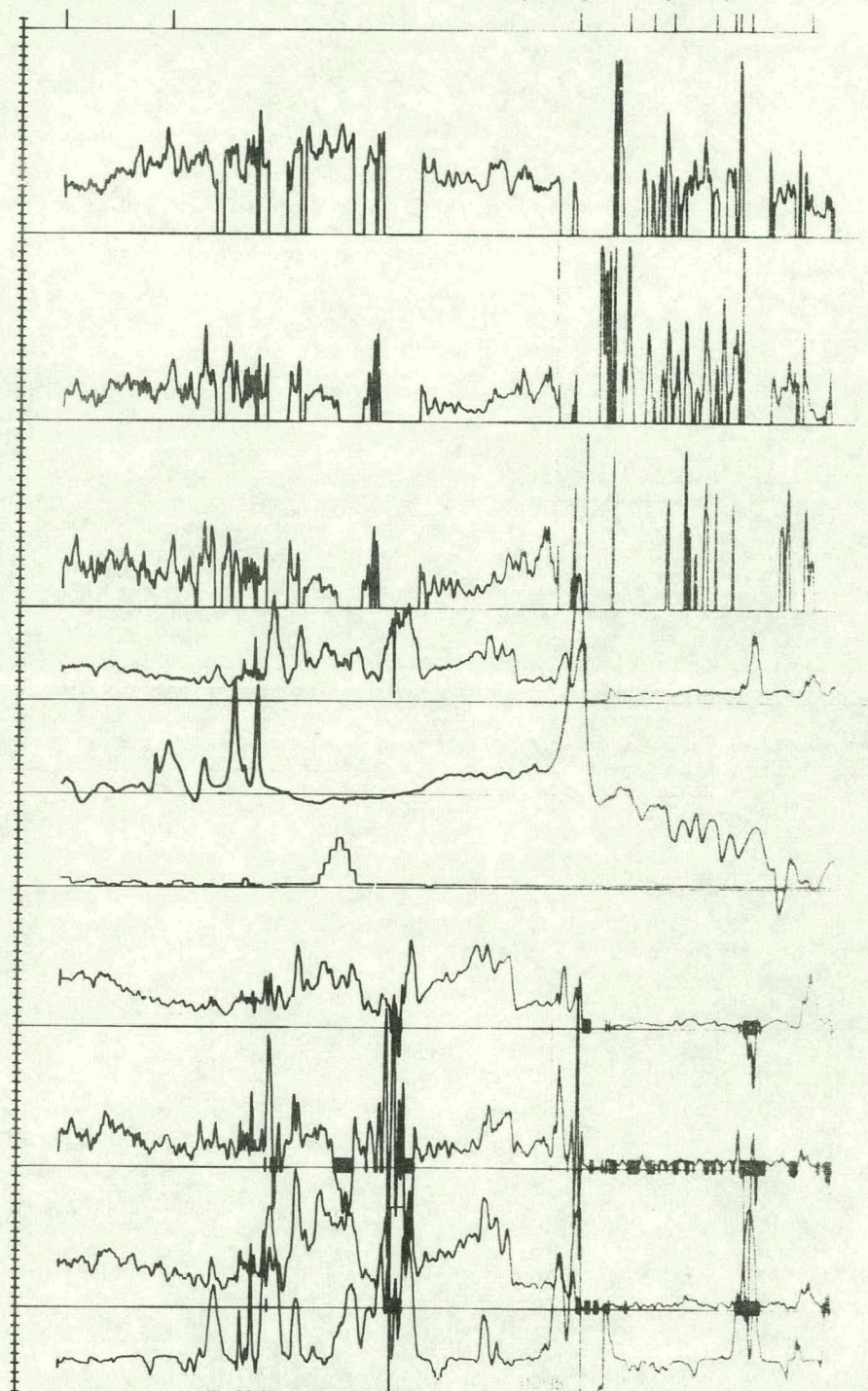
BI
5 C/S/DIV

TL
10 C/S/DIV

ALT
100 FT/DIV

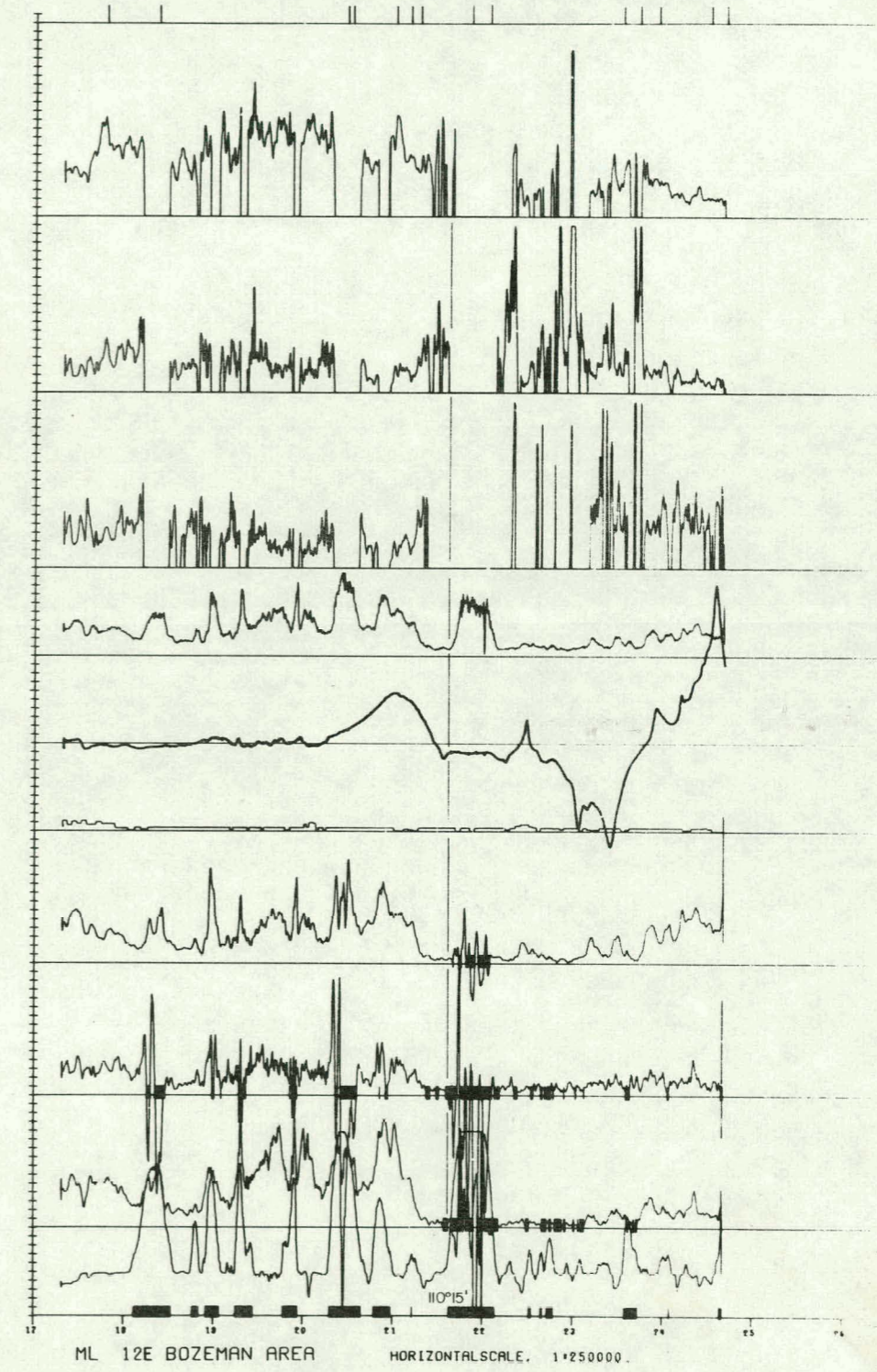
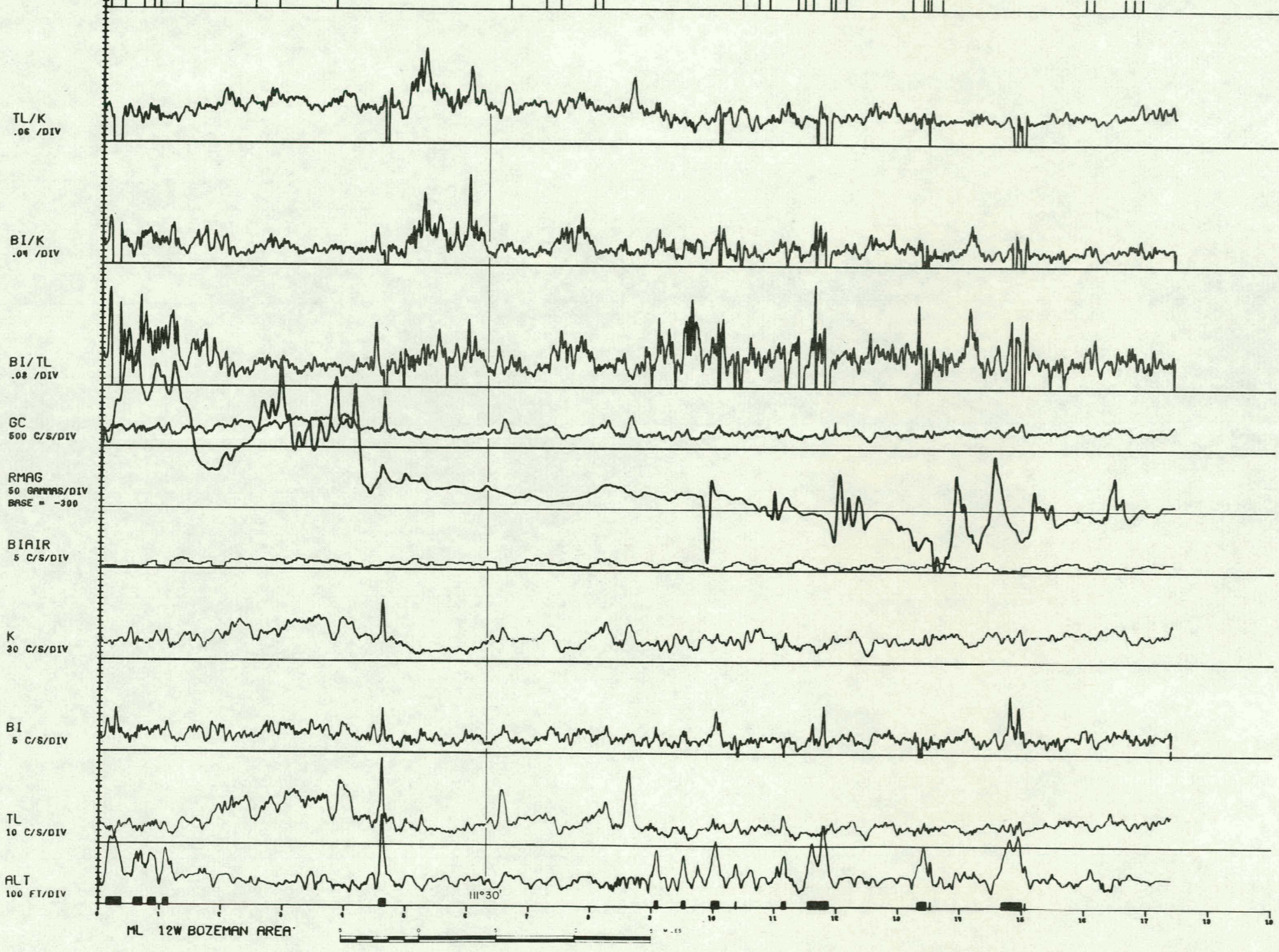
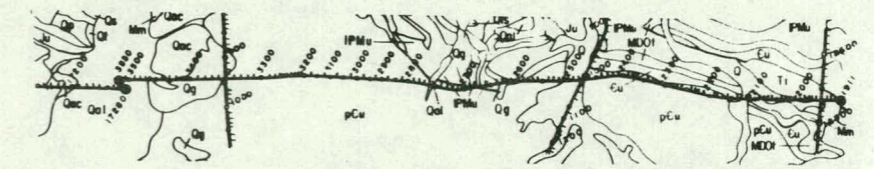
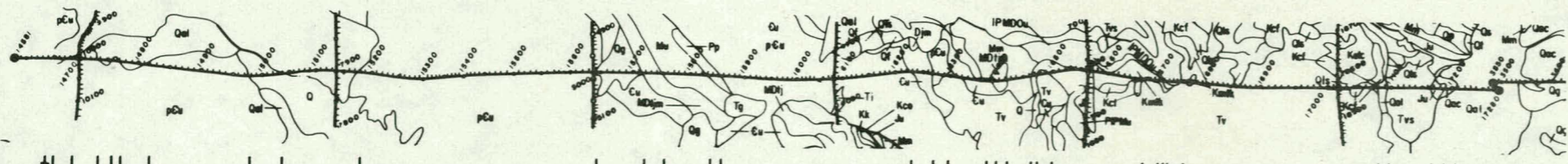


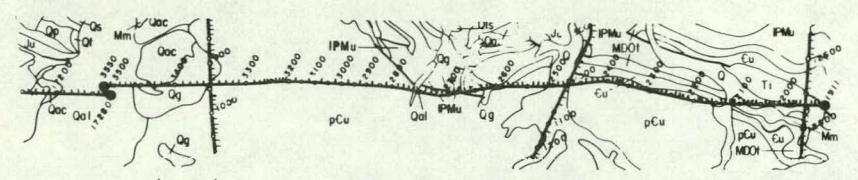
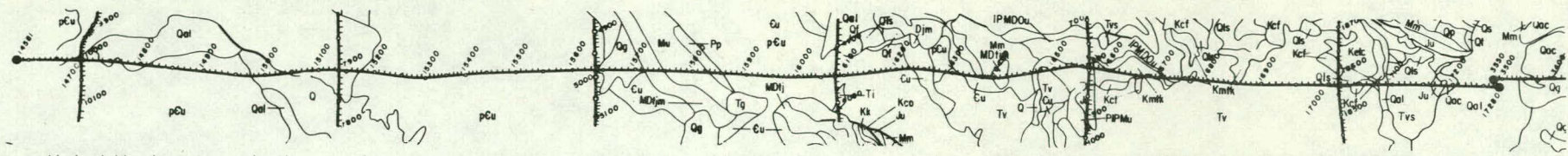
ML 11W BOZEMAN AREA



ML 11E BOZEMAN AREA

HORIZONTAL SCALE 1:250000





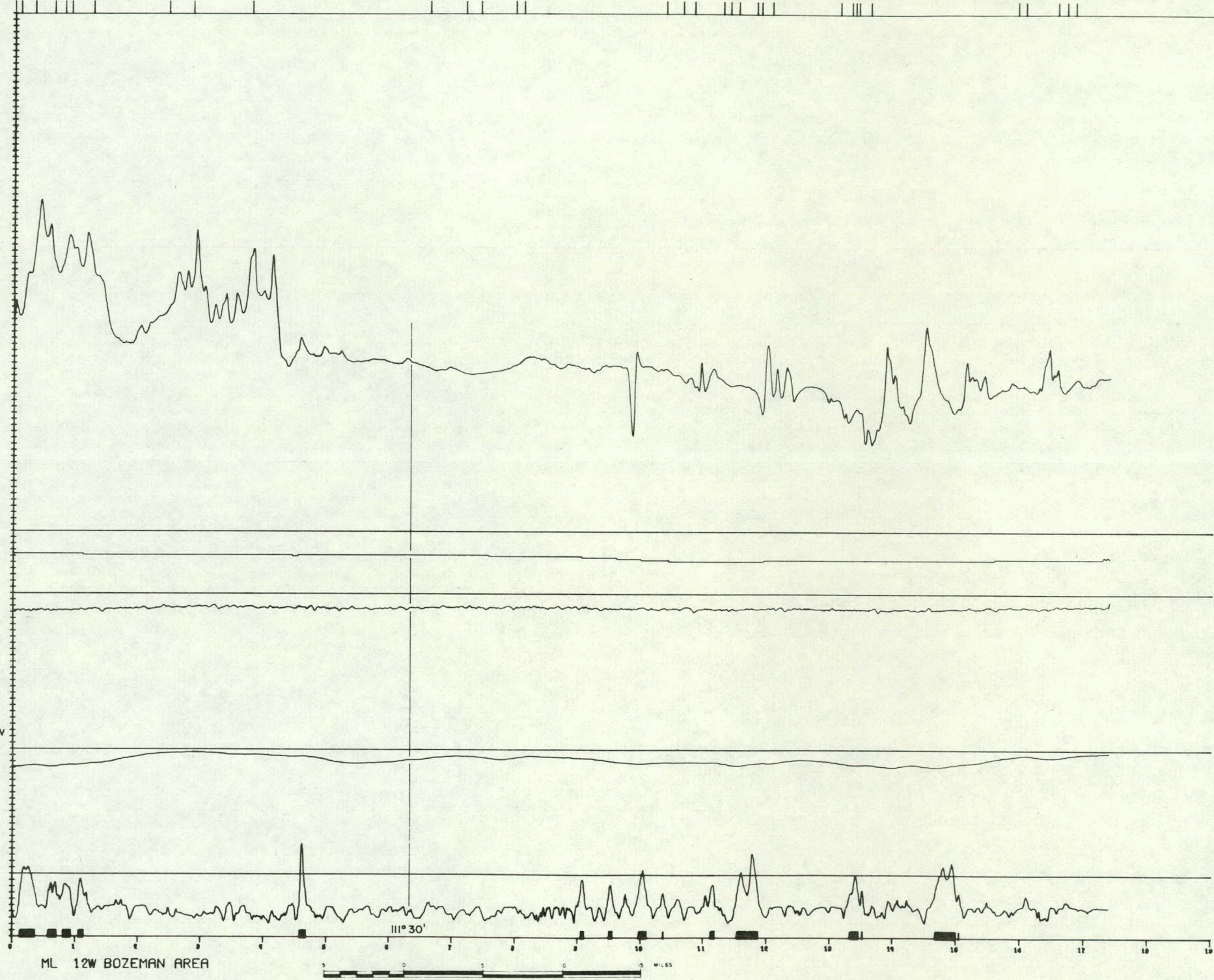
RMAG
50 GAMMA/DIV
BASE = -1500

BMAG
5 GAMMA/DIV
BASE = 56275

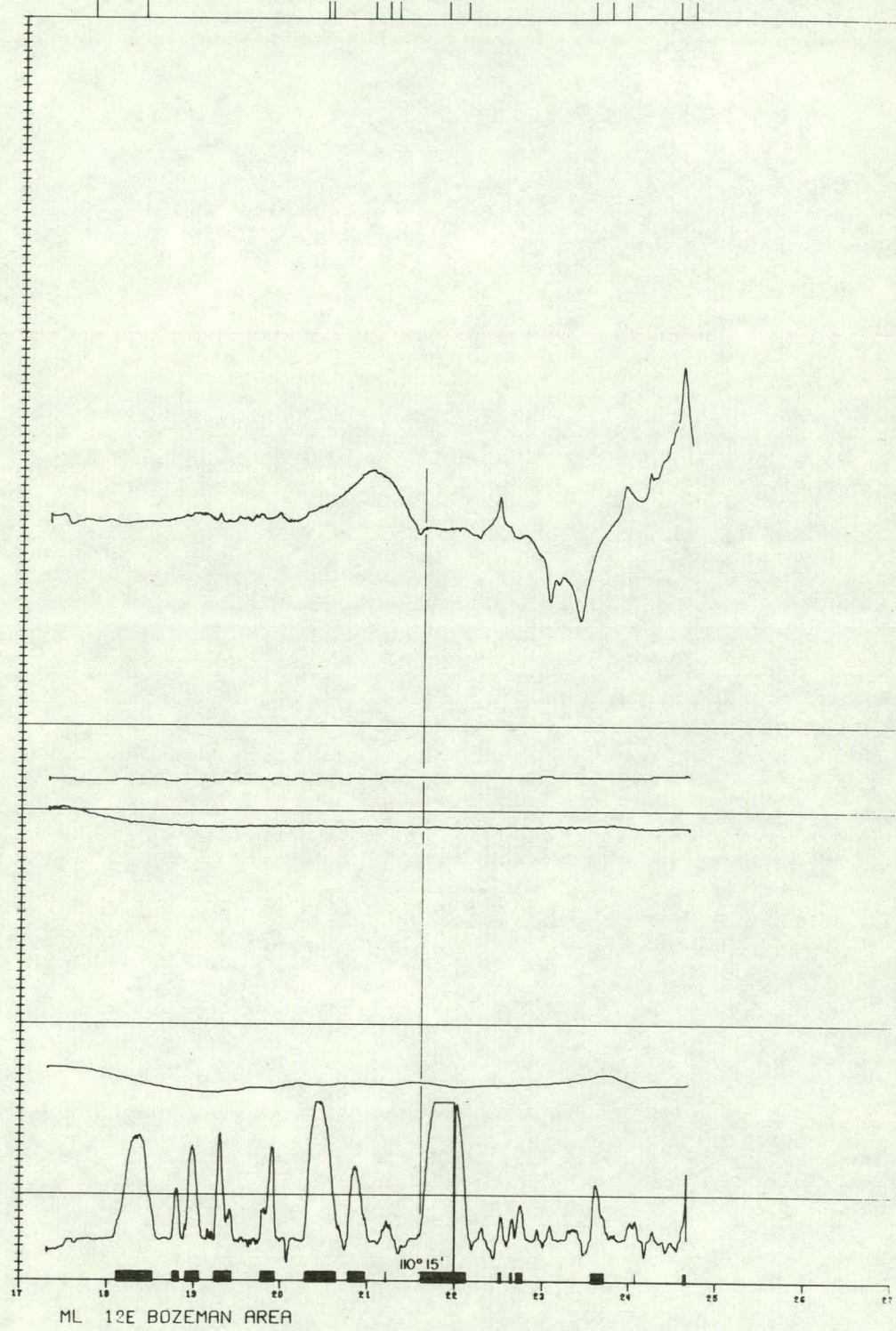
PRESSURE
0.25 IN HG/DIV
BASE = 20

TEMP
2 DEG C/DIV
BASE = -15

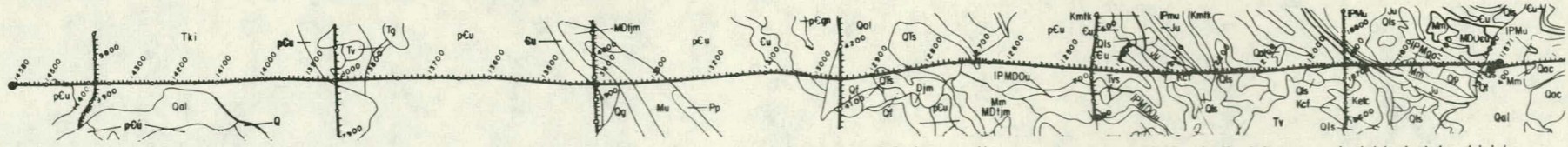
ALT
100 FT/DIV



ML 12W BOZEMAN AREA



ML 12E BOZEMAN AREA



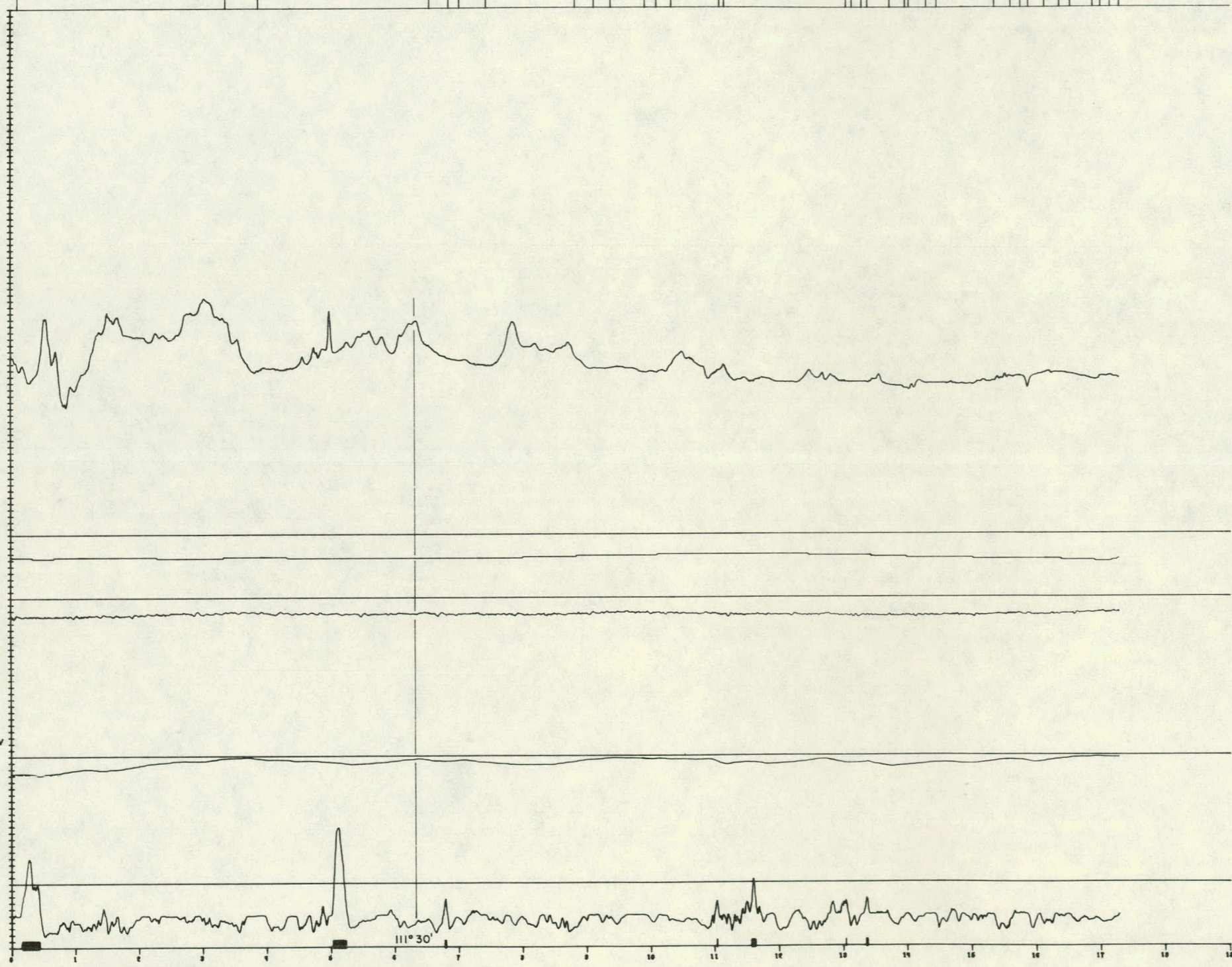
RMAG
50 GAMMA/DIV
BASE = -1500

BMAG
5 GAMMA/DIV
BASE = 56275

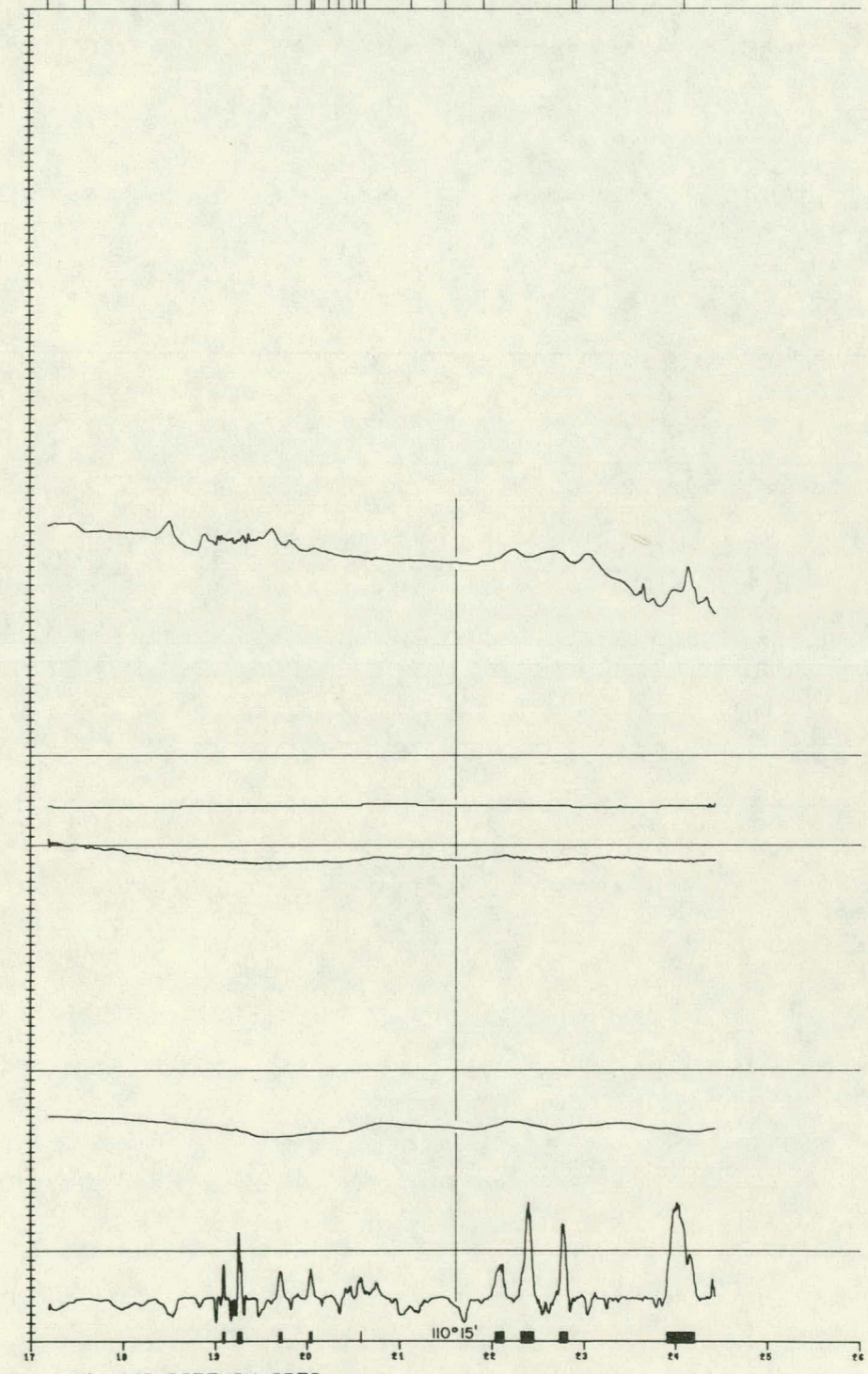
PRESSURE
0.25 IN HG/DIV
BASE = 20

TEMP
2 DEG C/DIV
BASE = -15

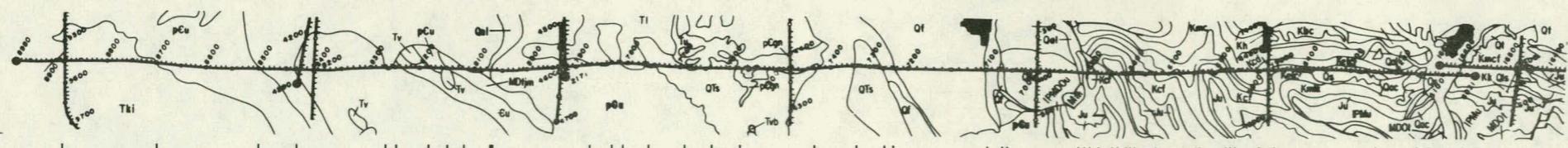
ALT
100 FT/DIV



ML 13W BOZEMAN AREA



ML 13E BOZEMAN AREA



TL/K
.06 /DIV

BI/K
.04 /DIV

BI/TL
.08 /DIV

GC
500 C/S/DIV

RMAG
50 GAMMAS/DIV
BASE = -300

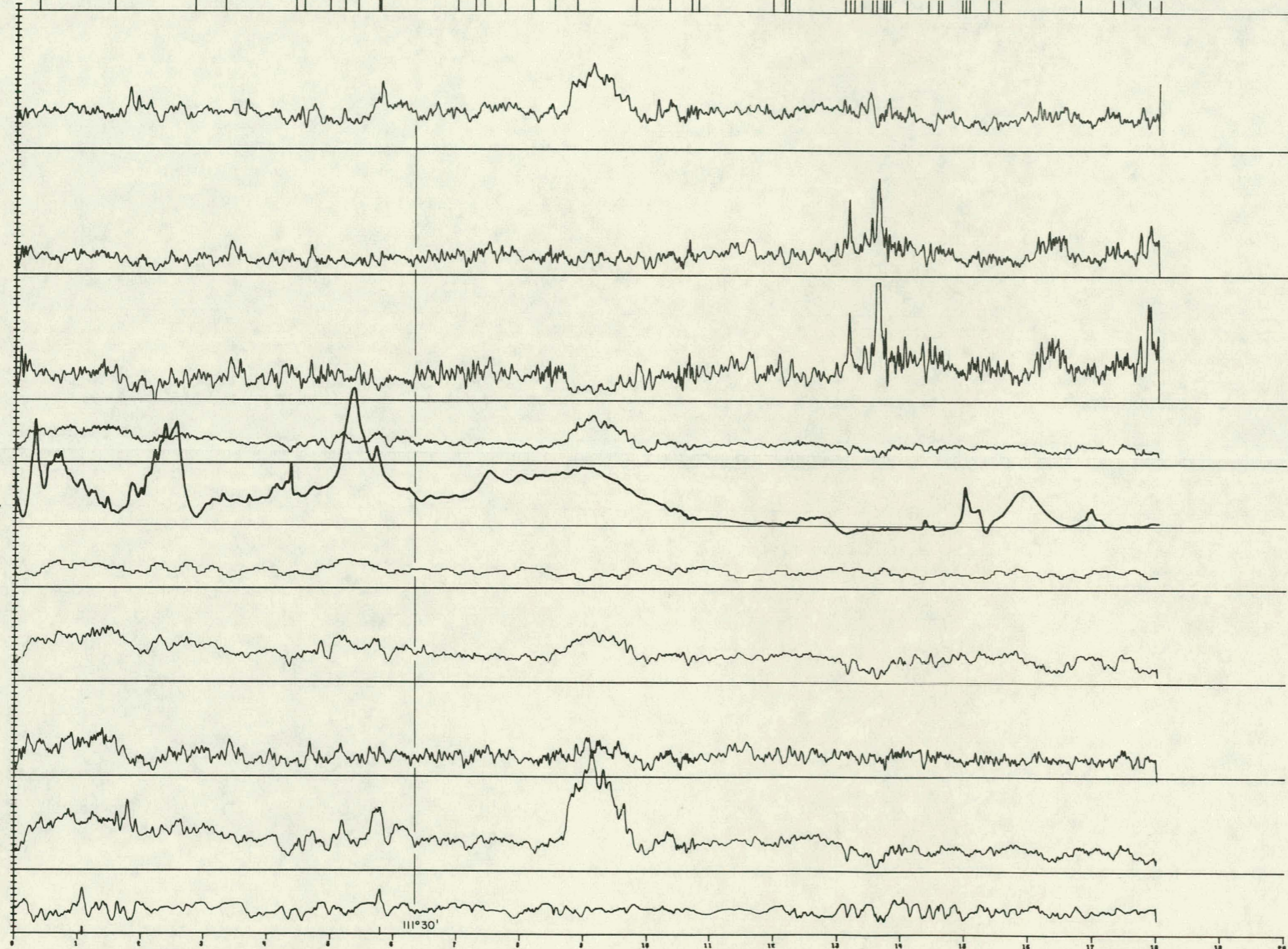
BIAIR
5 C/S/DIV

K
30 C/S/DIV

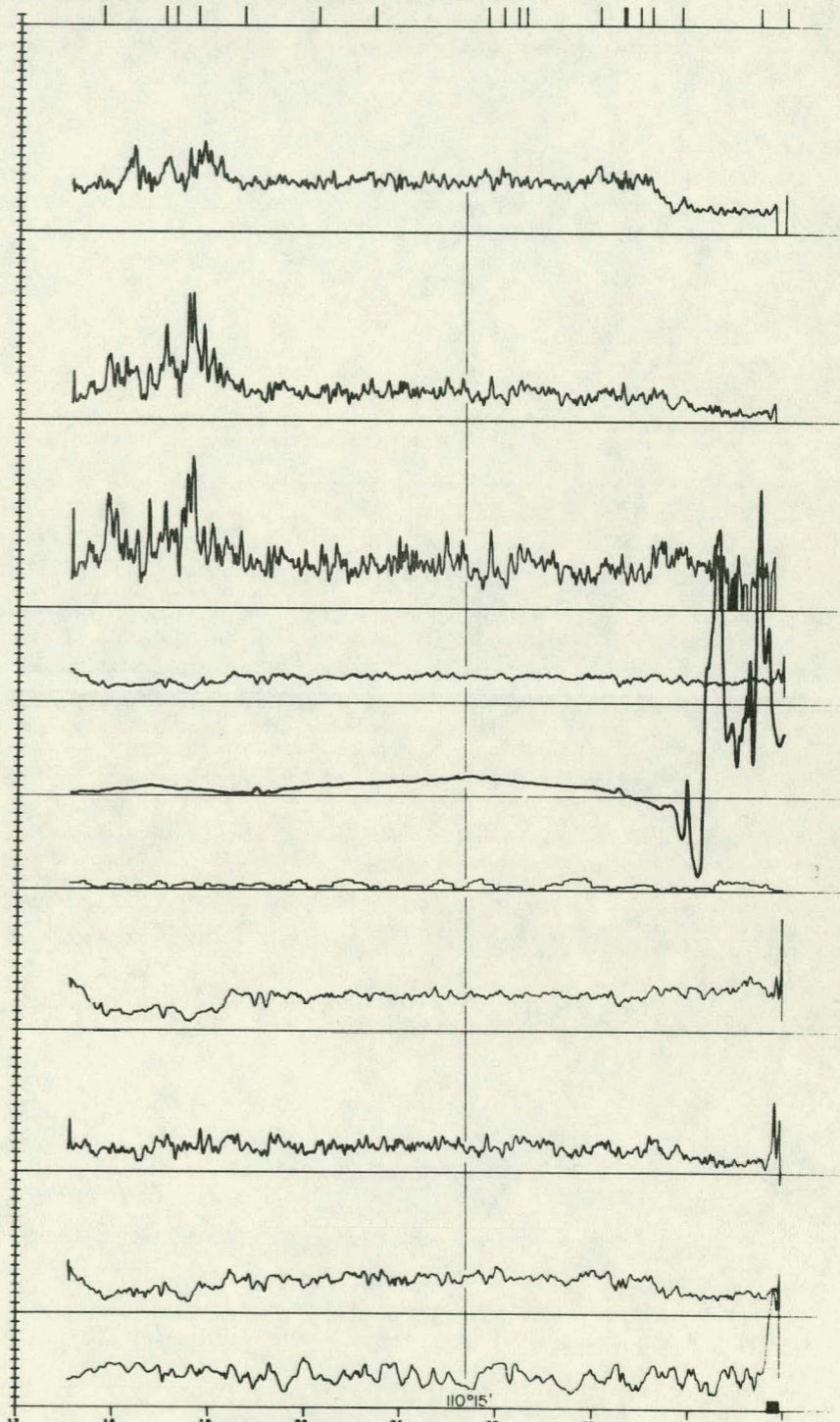
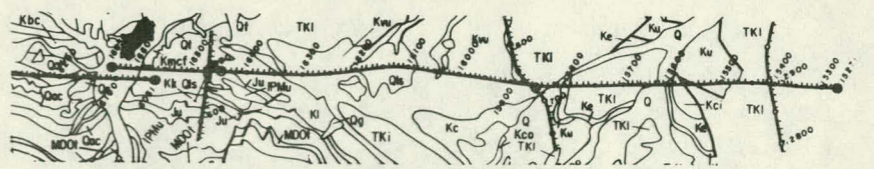
BI
5 C/S/DIV

TL
10 C/S/DIV

ALT
100 FT/DIV

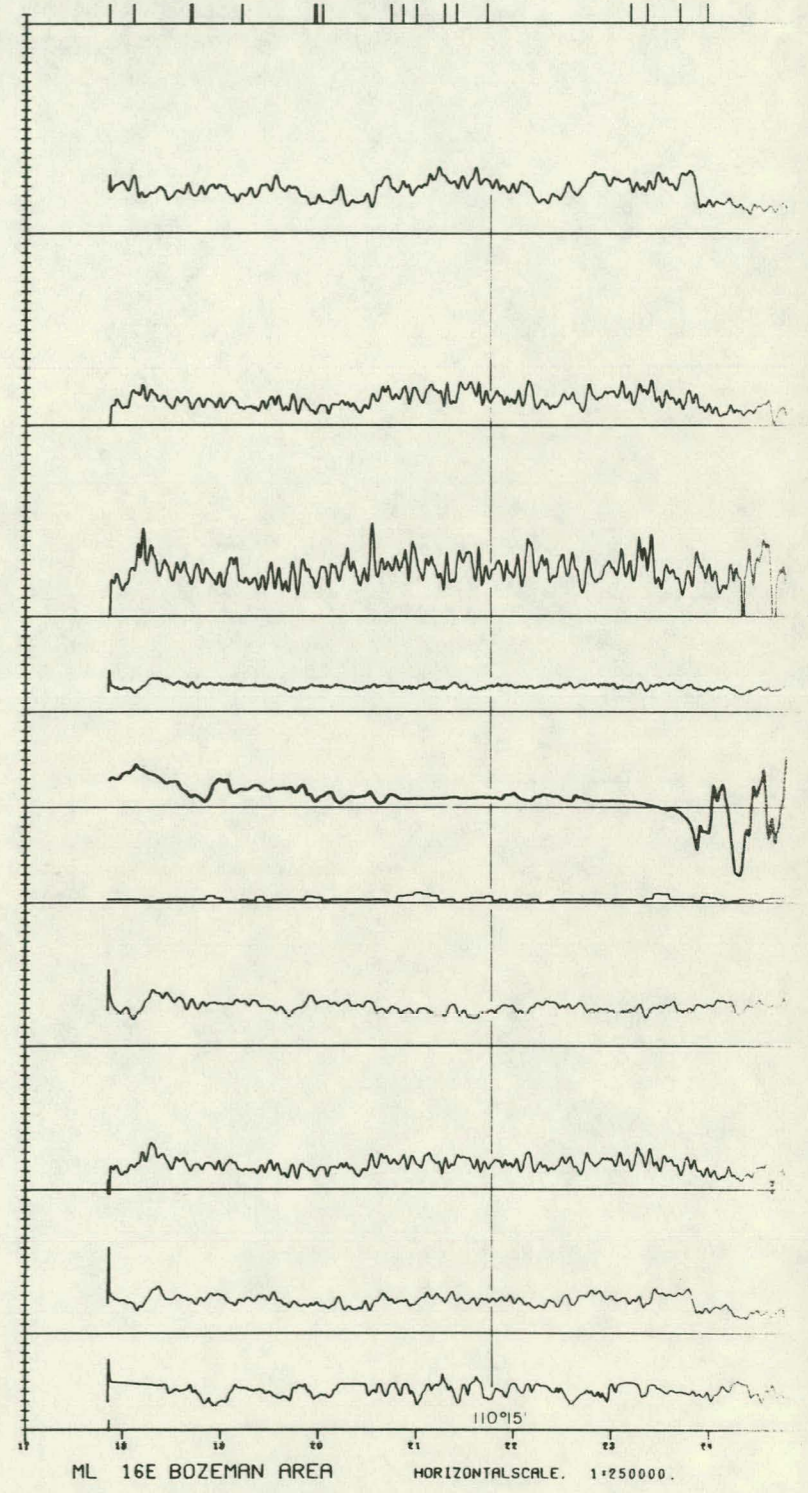
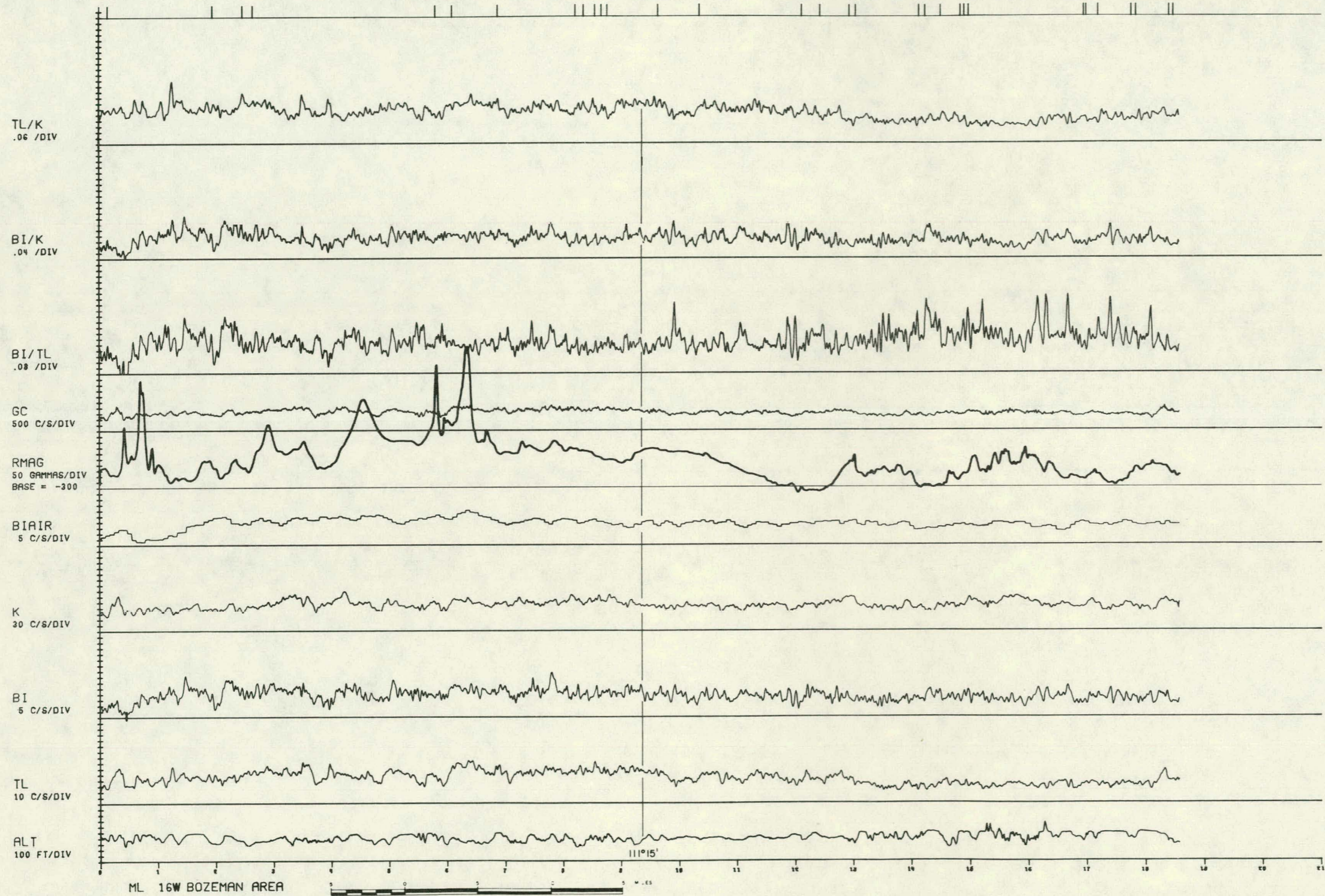
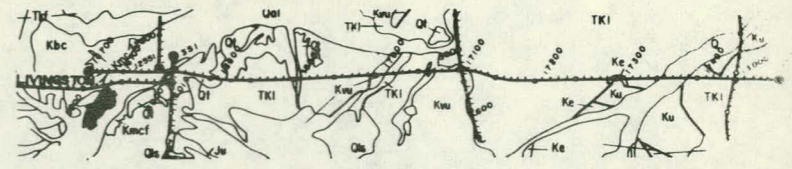
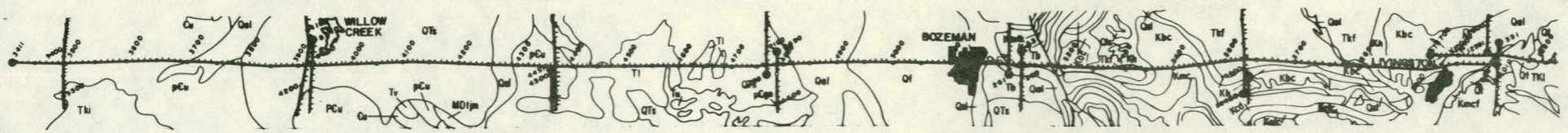


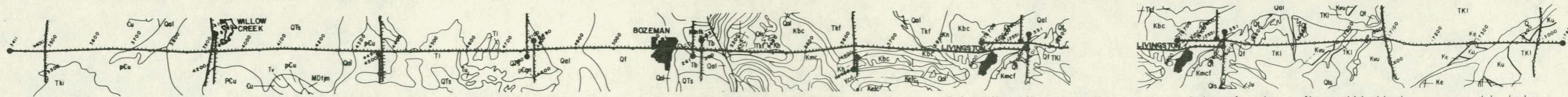
ML 15W BOZEMAN AREA



ML 15E BOZEMAN AREA

HORIZONTAL SCALE, 1:250000.





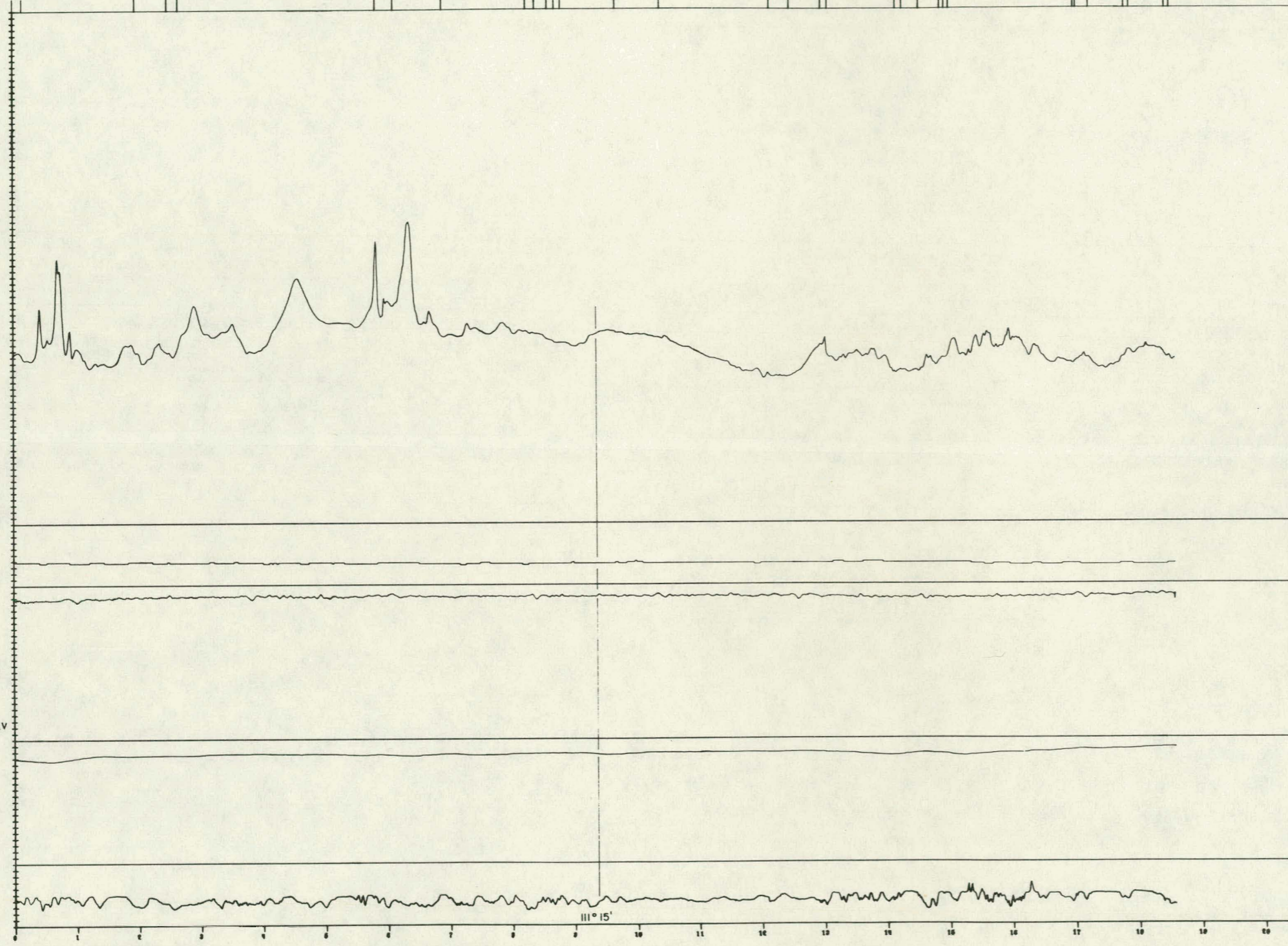
RMAG
50 GAMMA/DIV
BASE = -1500

BMAG
5 GAMMA/DIV
BASE = 56275

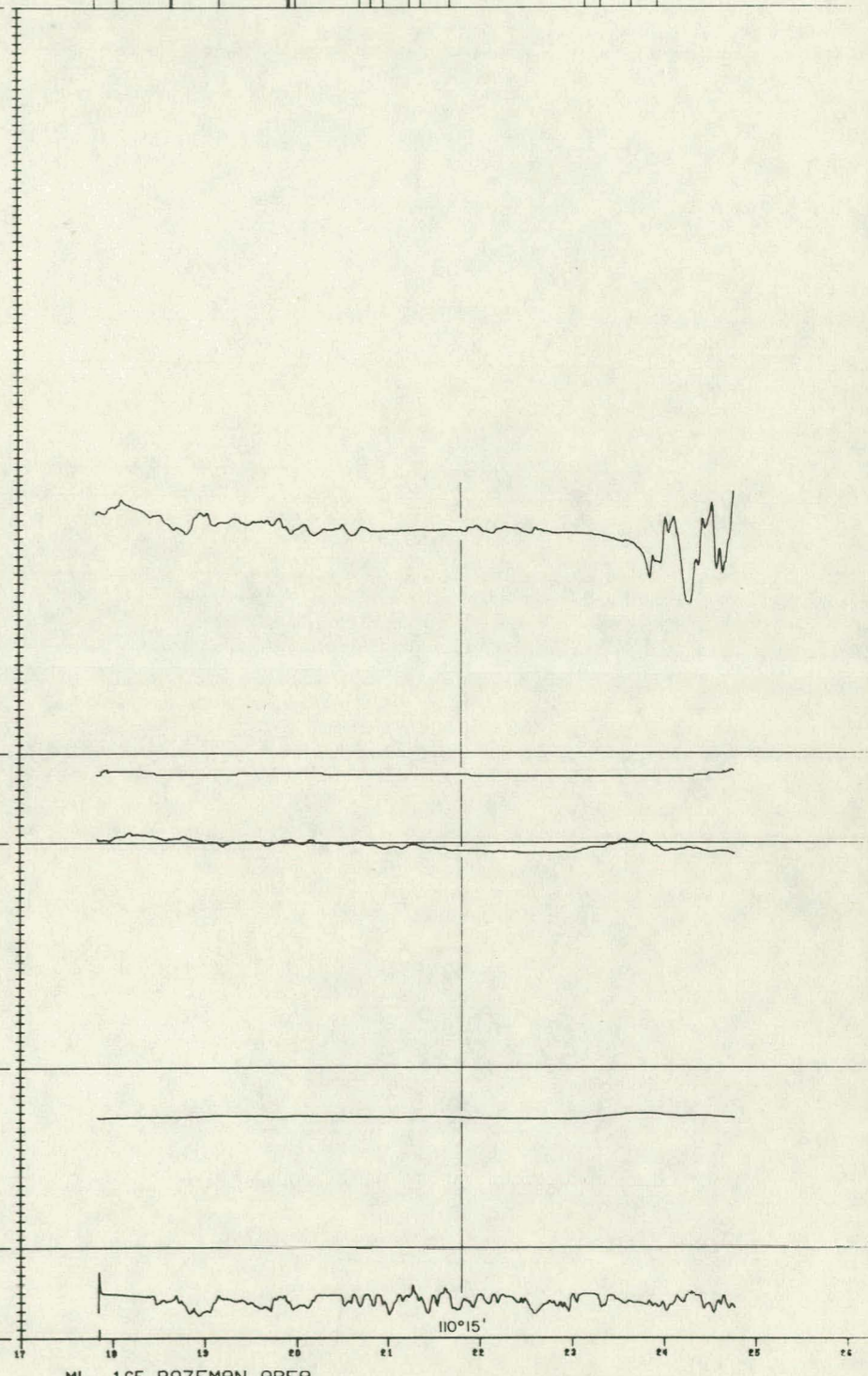
PRESSURE
0.25 IN HG/DIV
BASE = 20

TEMP
2 DEG C/DIV
BASE = -15

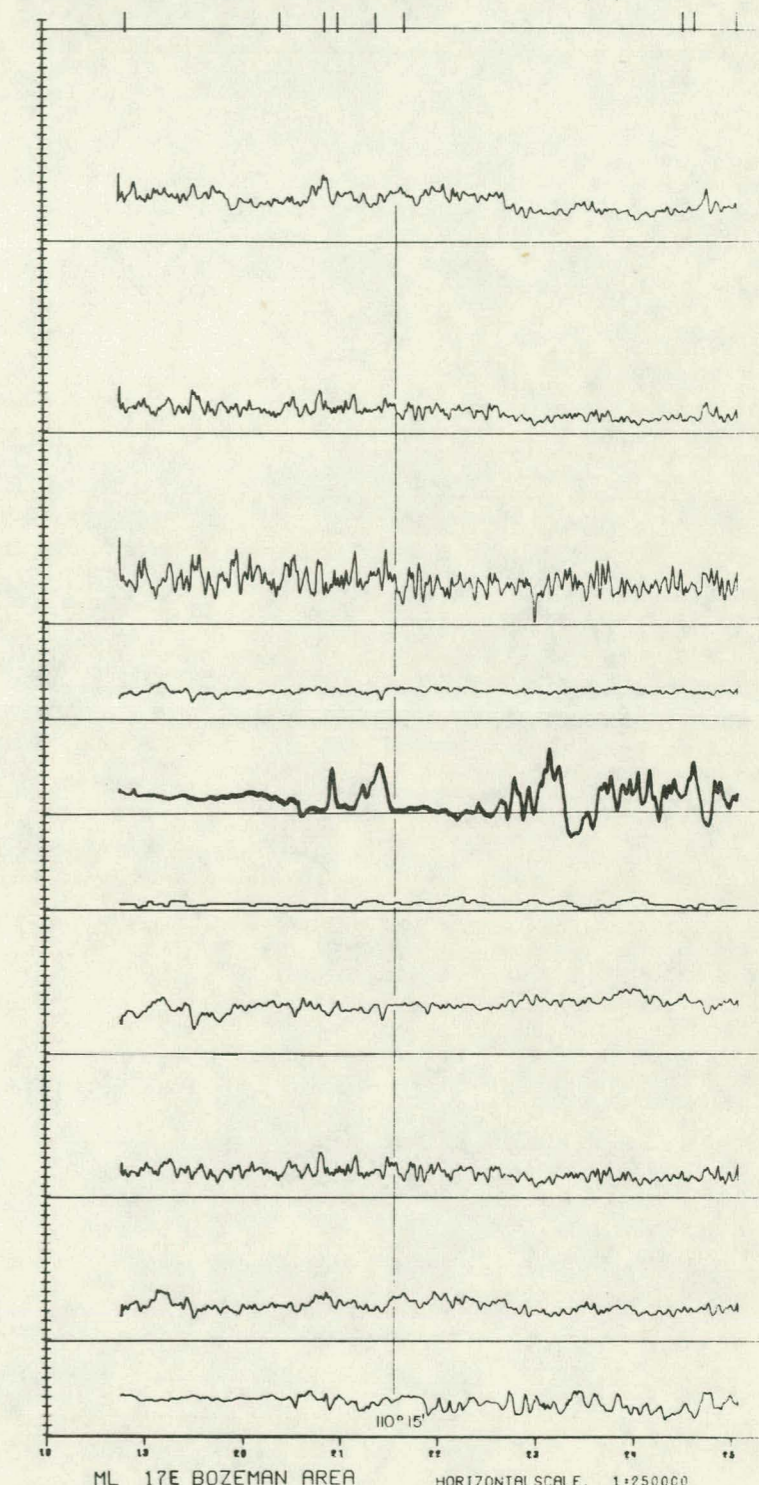
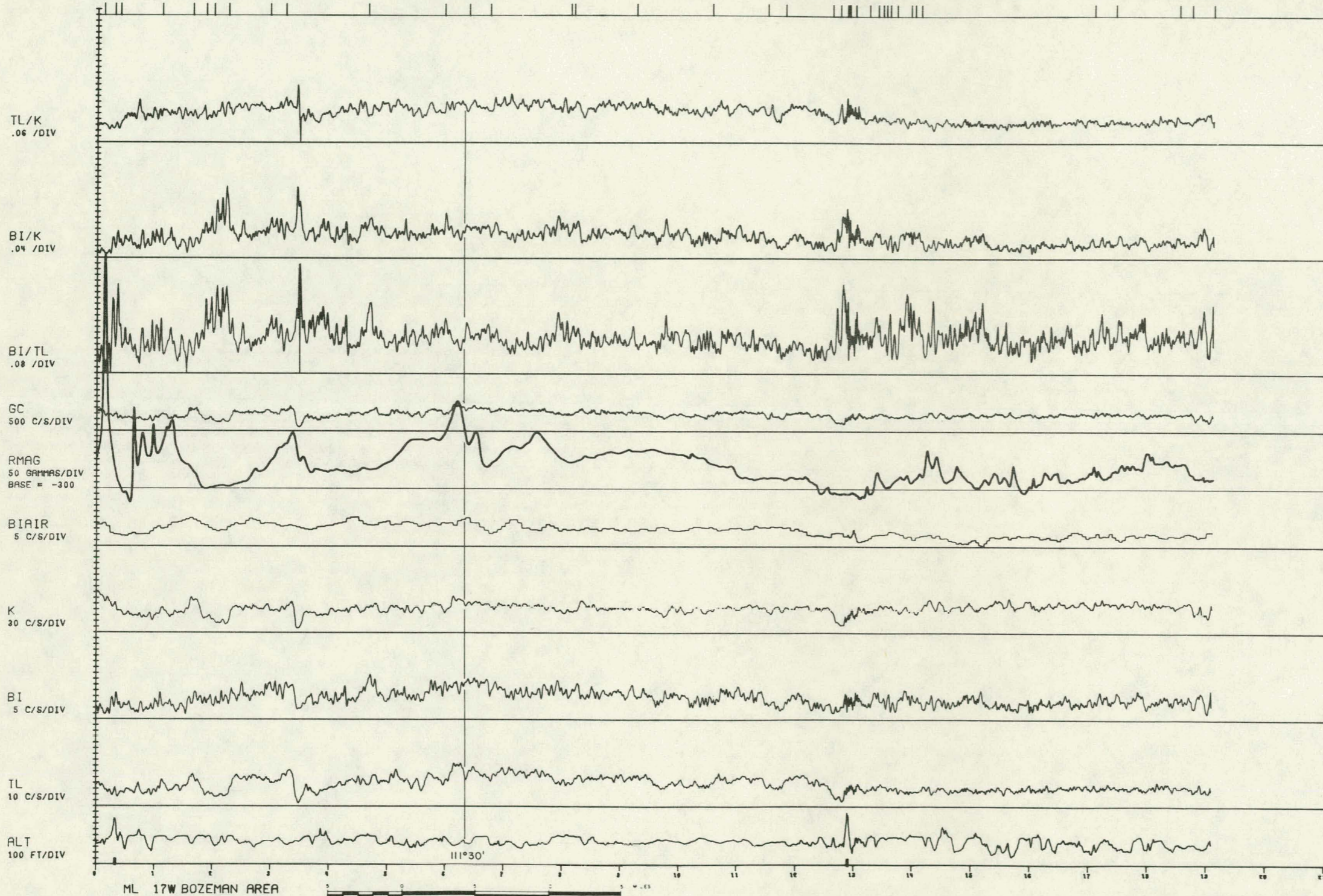
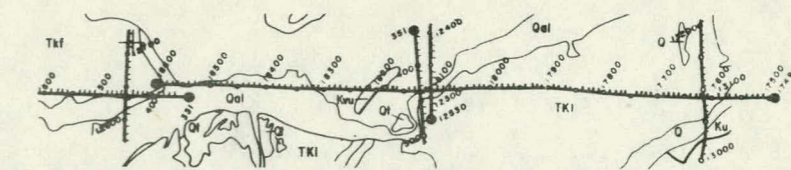
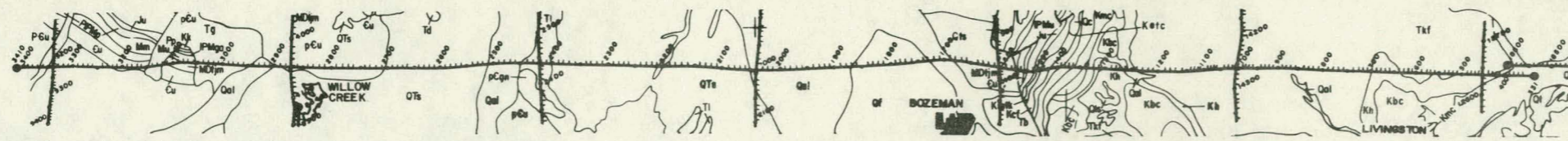
ALT
100 FT/DIV

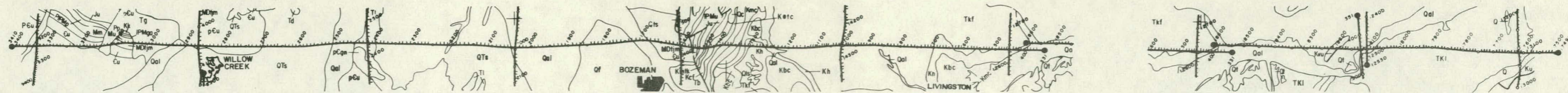


ML 16W BOZEMAN AREA



ML 16E BOZEMAN AREA





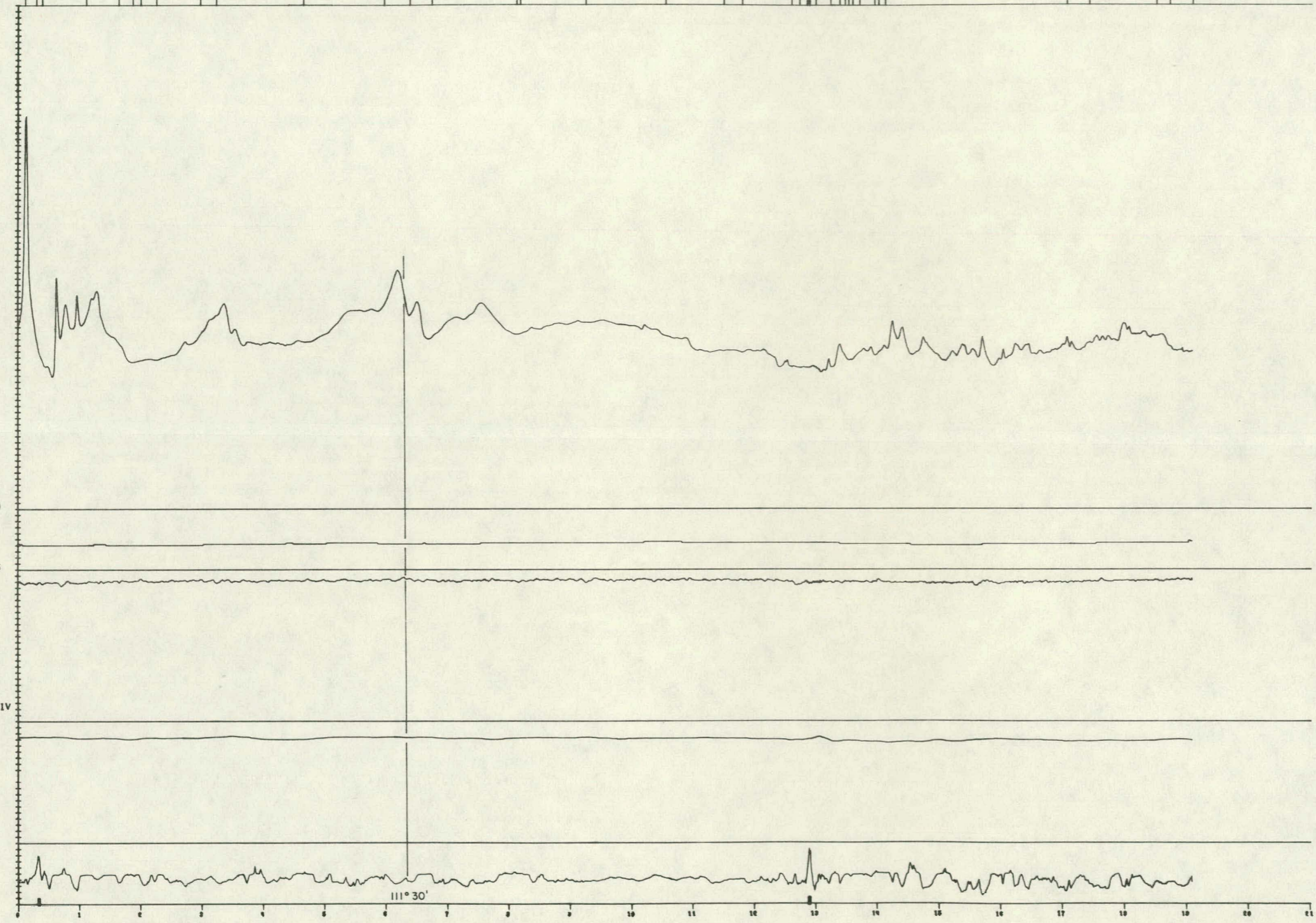
RMAG
50 GAMMA/DIV
BASE = -1500

BMAG
5 GAMMA/DIV
BASE = 56275

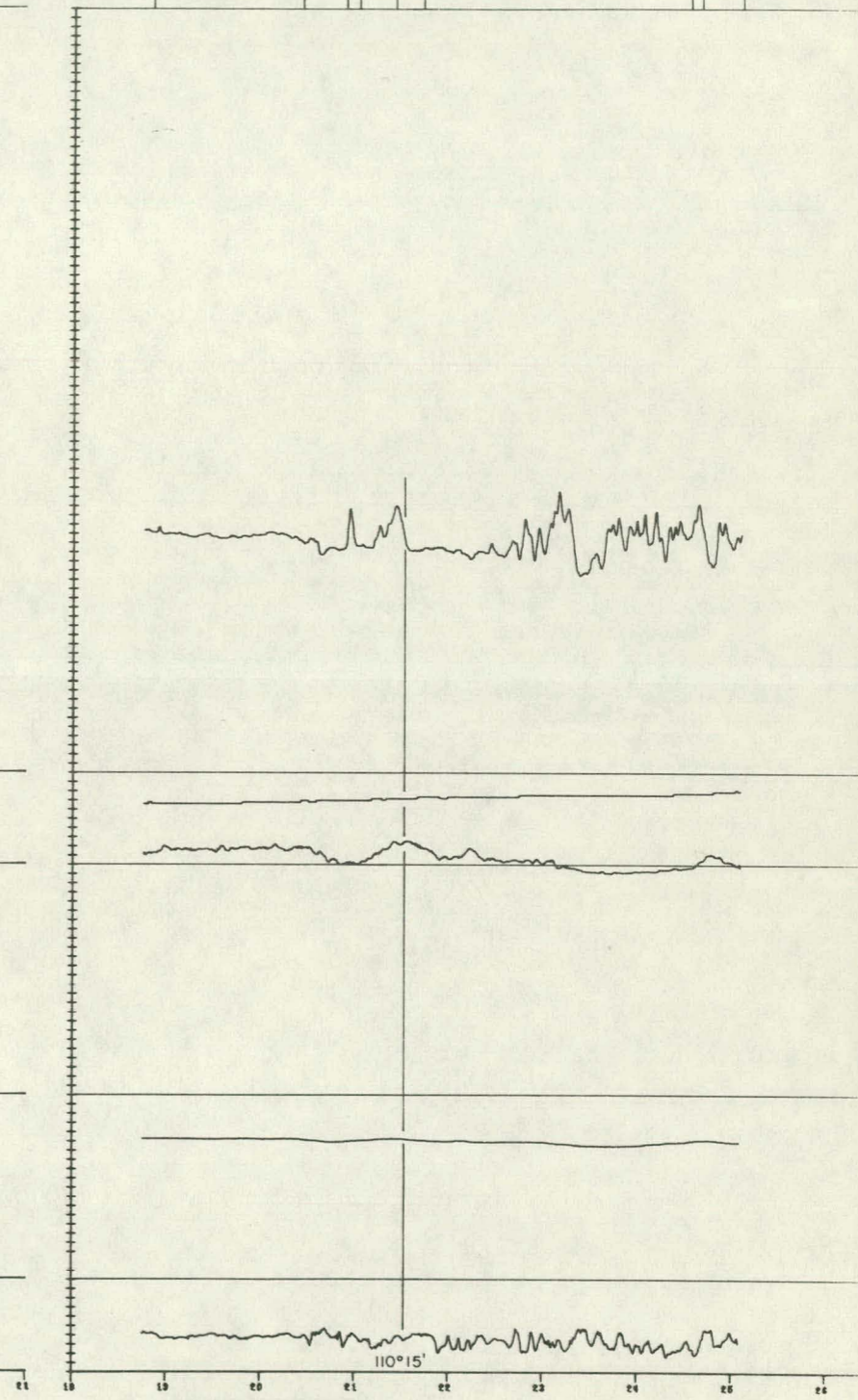
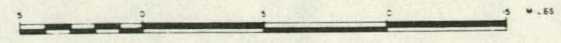
PRESSURE
0.25 IN HG/DIV
BASE = 20

TEMP
2 DEG C/DIV
BASE = -15

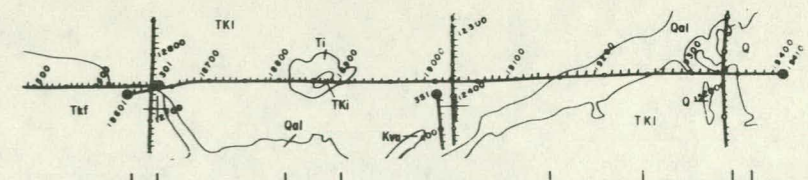
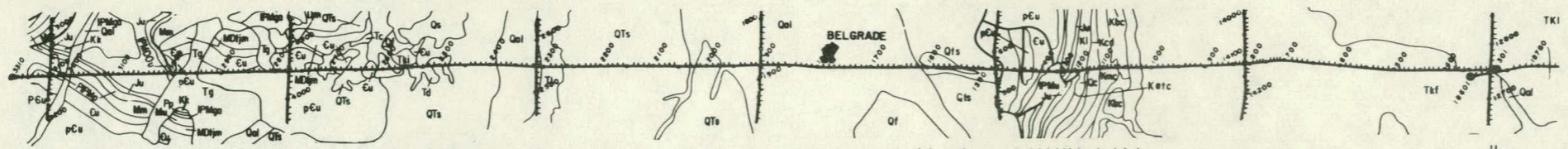
ALT
100 FT/DIV



ML 17W BOZEMAN AREA



ML 17E BOZEMAN AREA



TL/K
.06 /DIV

BI/K
.04 /DIV

BI/TL
.08 /DIV

GC
500 C/S/DIV

RMAG
50 GAMMAS/DIV
BASE = -300

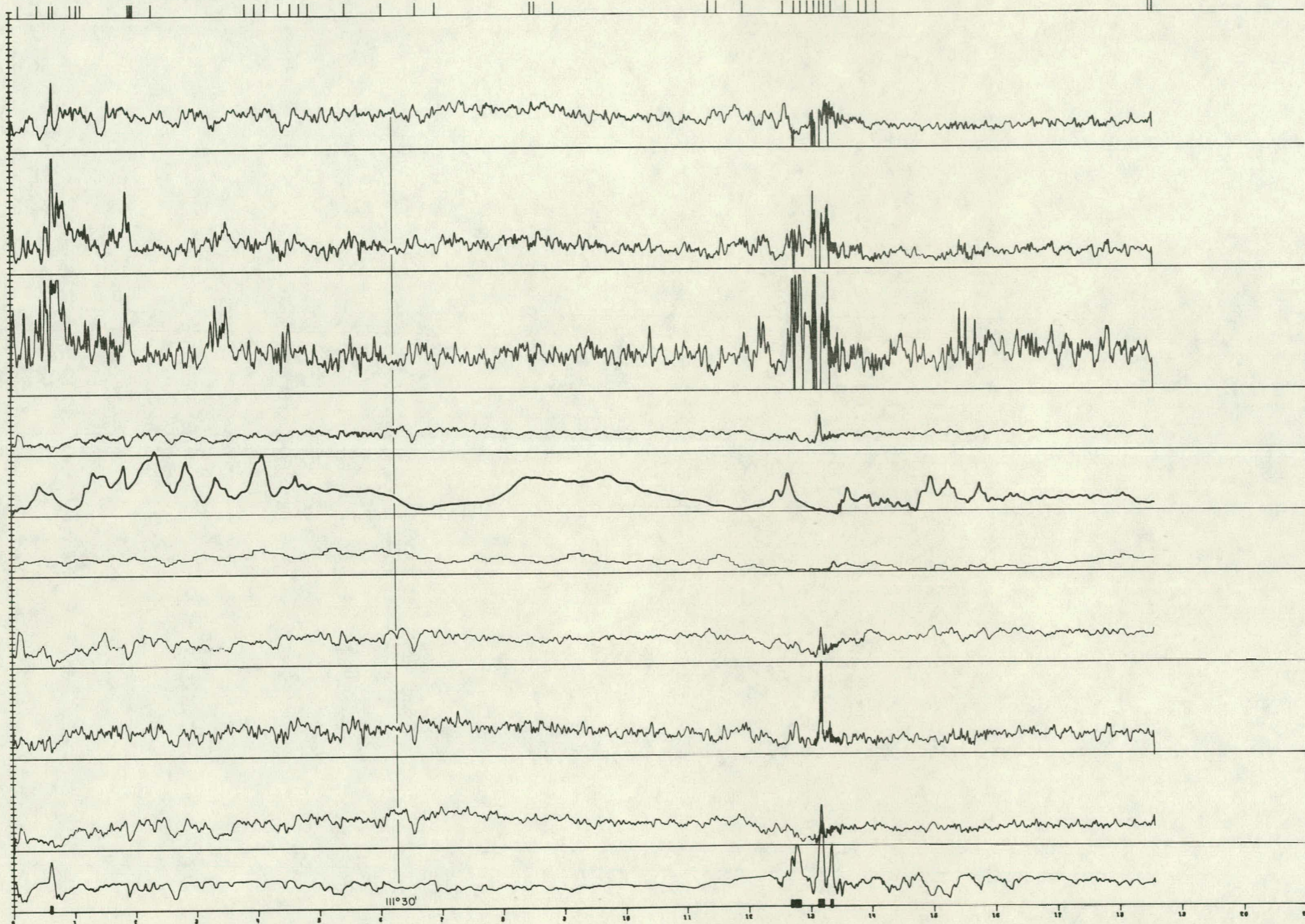
BIAIR
5 C/S/DIV

K
30 C/S/DIV

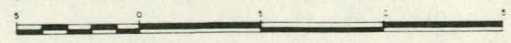
BI
5 C/S/DIV

TL
10 C/S/DIV

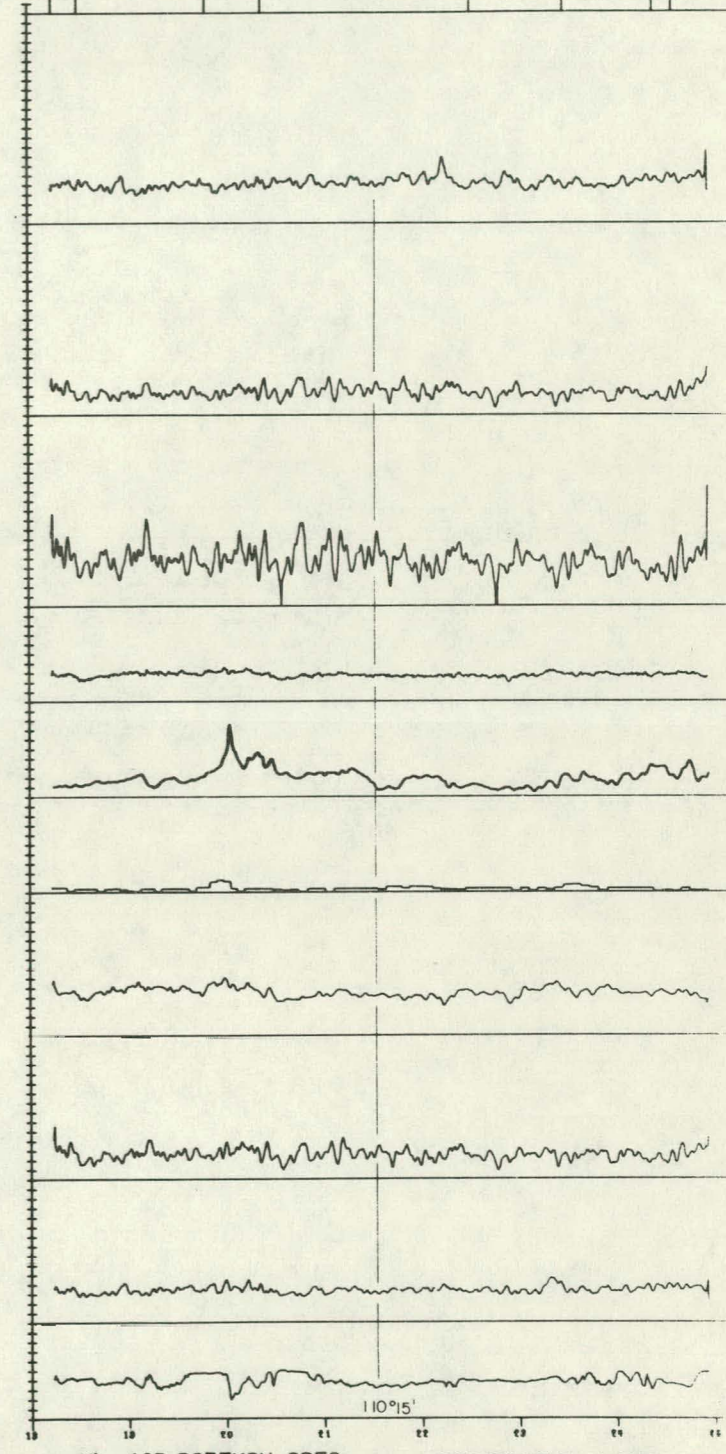
ALT
100 FT/DIV



ML 18W BOZEMAN AREA



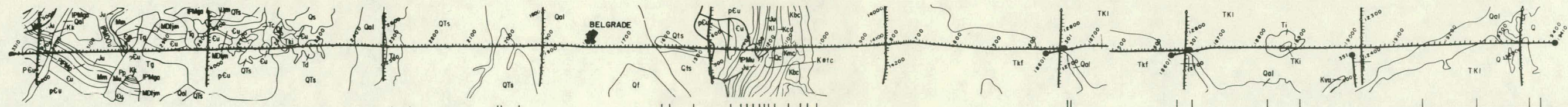
111°30'



ML 18E BOZEMAN AREA

HORIZONTAL SCALE. 1:250000.

110°15'



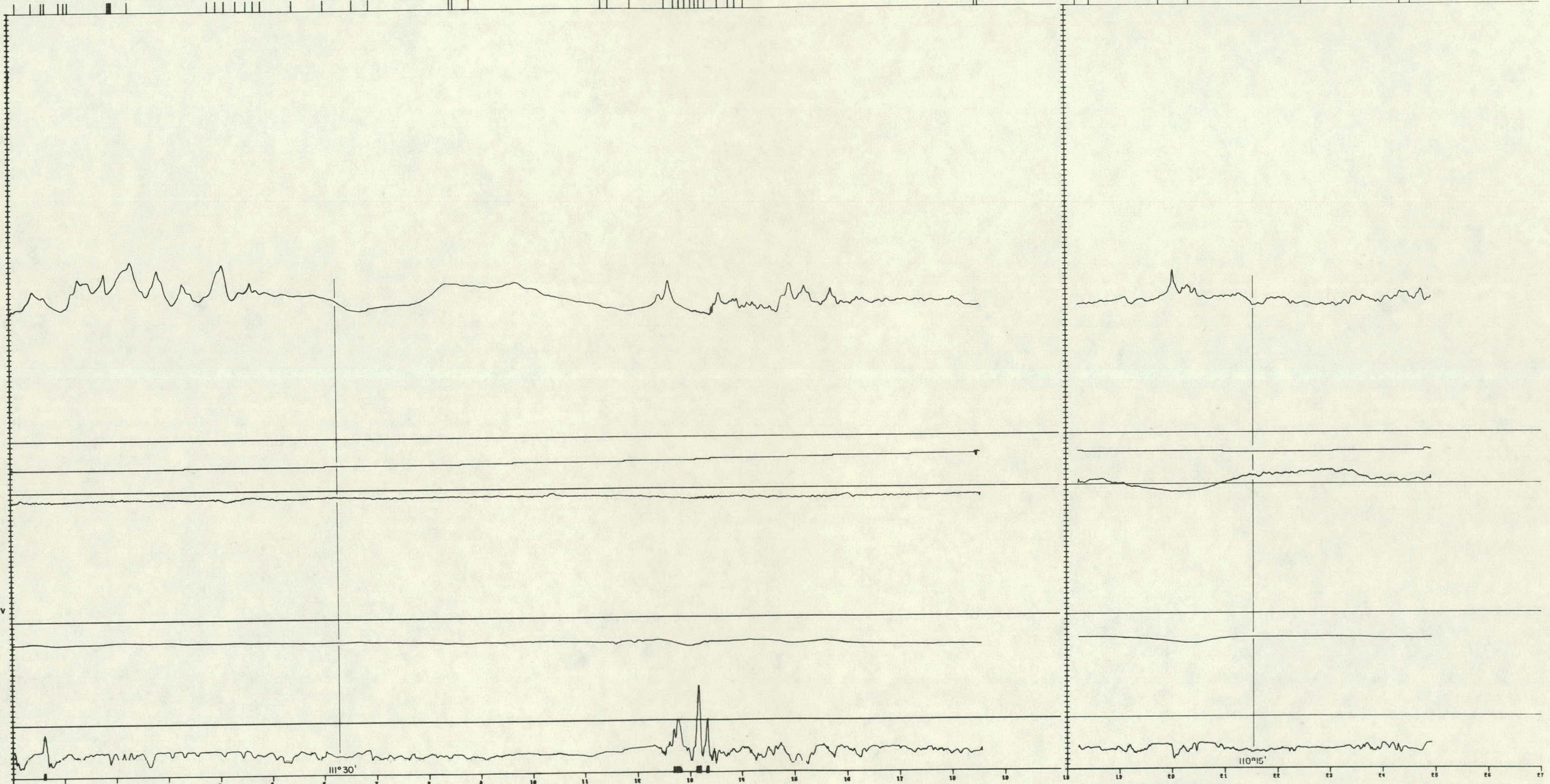
RMAG
50 GAMMA/DIV
BASE = -1500

BMAG
5 GAMMA/DIV
BASE = 56275

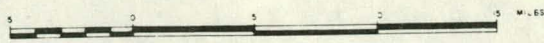
PRESSURE
0.25 IN HG/DIV
BASE = 20

TEMP
2 DEG C/DIV
BASE = -15

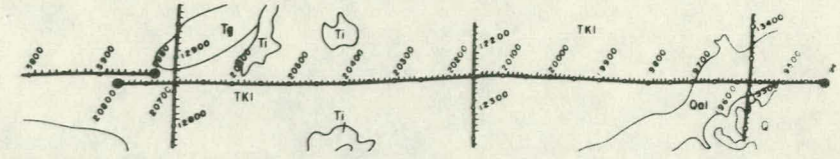
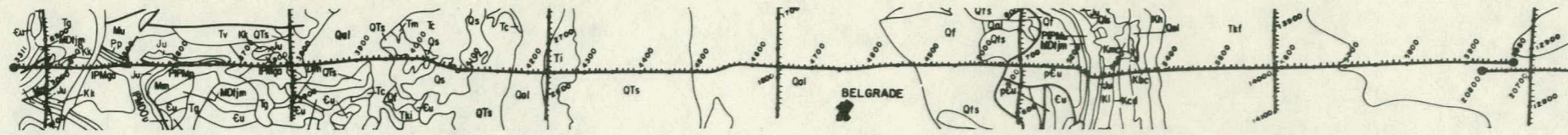
NLT
100 FT/DIV



ML 18W BOZEMAN AREA



ML 18E BOZEMAN AREA



TL/K
.06 /DIV

BI/K
.04 /DIV

BI/TL
.08 /DIV

GC
500 C/S/DIV

RMAG
50 GAMMAS/DIV
BASE = -300

BIAIR
5 C/S/DIV

K
30 C/S/DIV

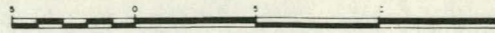
BI
5 C/S/DIV

TL
10 C/S/DIV

ALT
100 FT/DIV

ML 19W BOZEMAN AREA

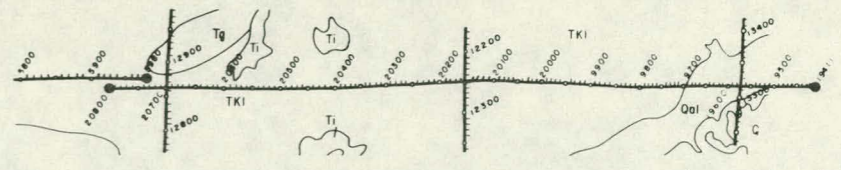
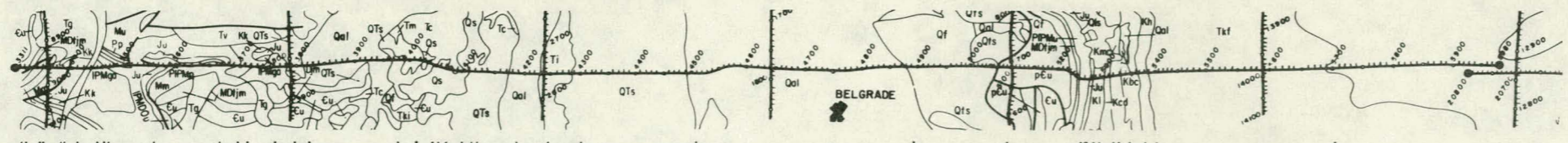
111°30'



ML 19E BOZEMAN AREA

HORIZONTAL SCALE. 1:250000.

110°15'



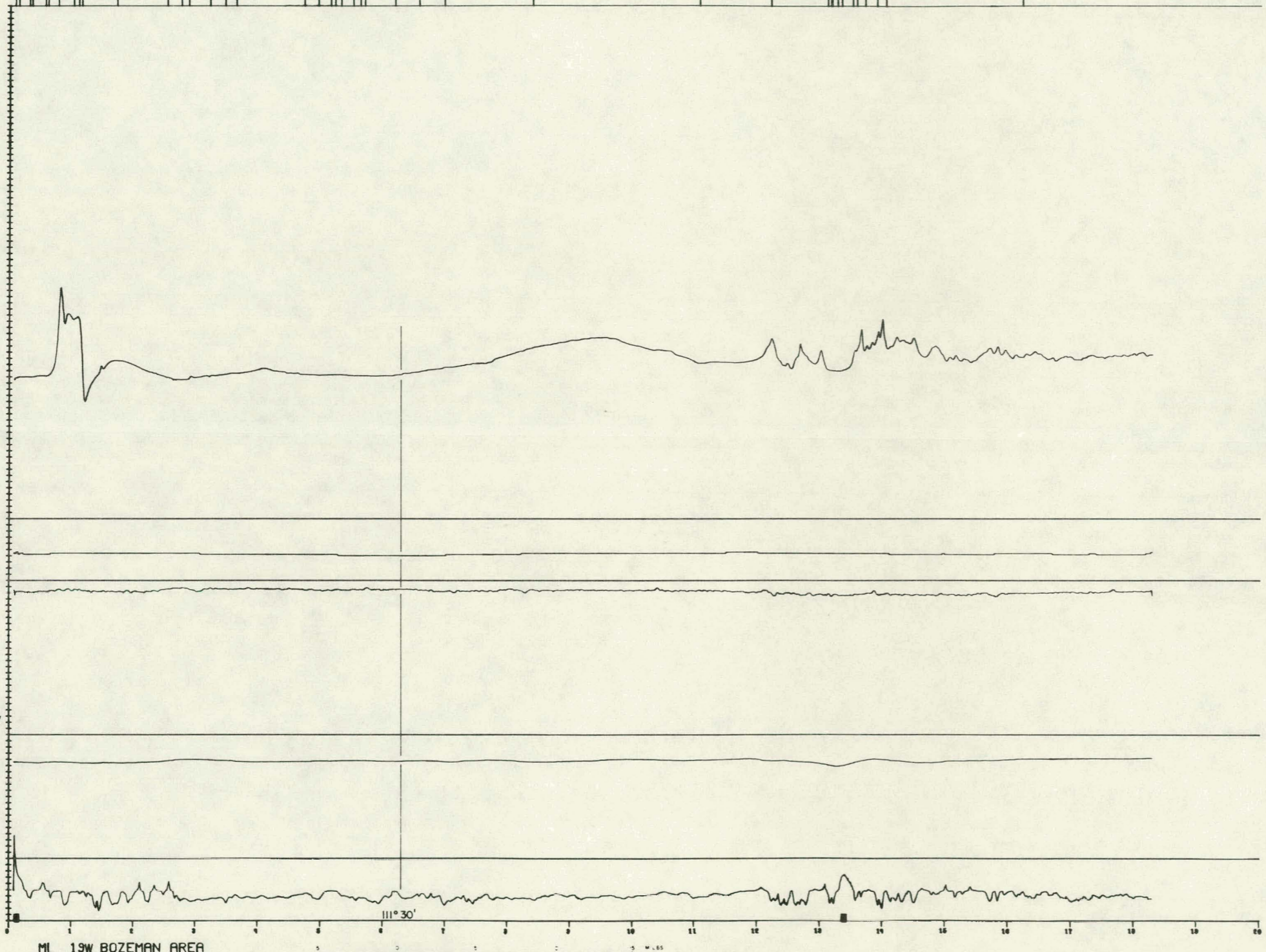
RMAG
50 GAMMA/DIV
BASE = -1500

BMAG
5 GAMMA/DIV
BASE = 56275

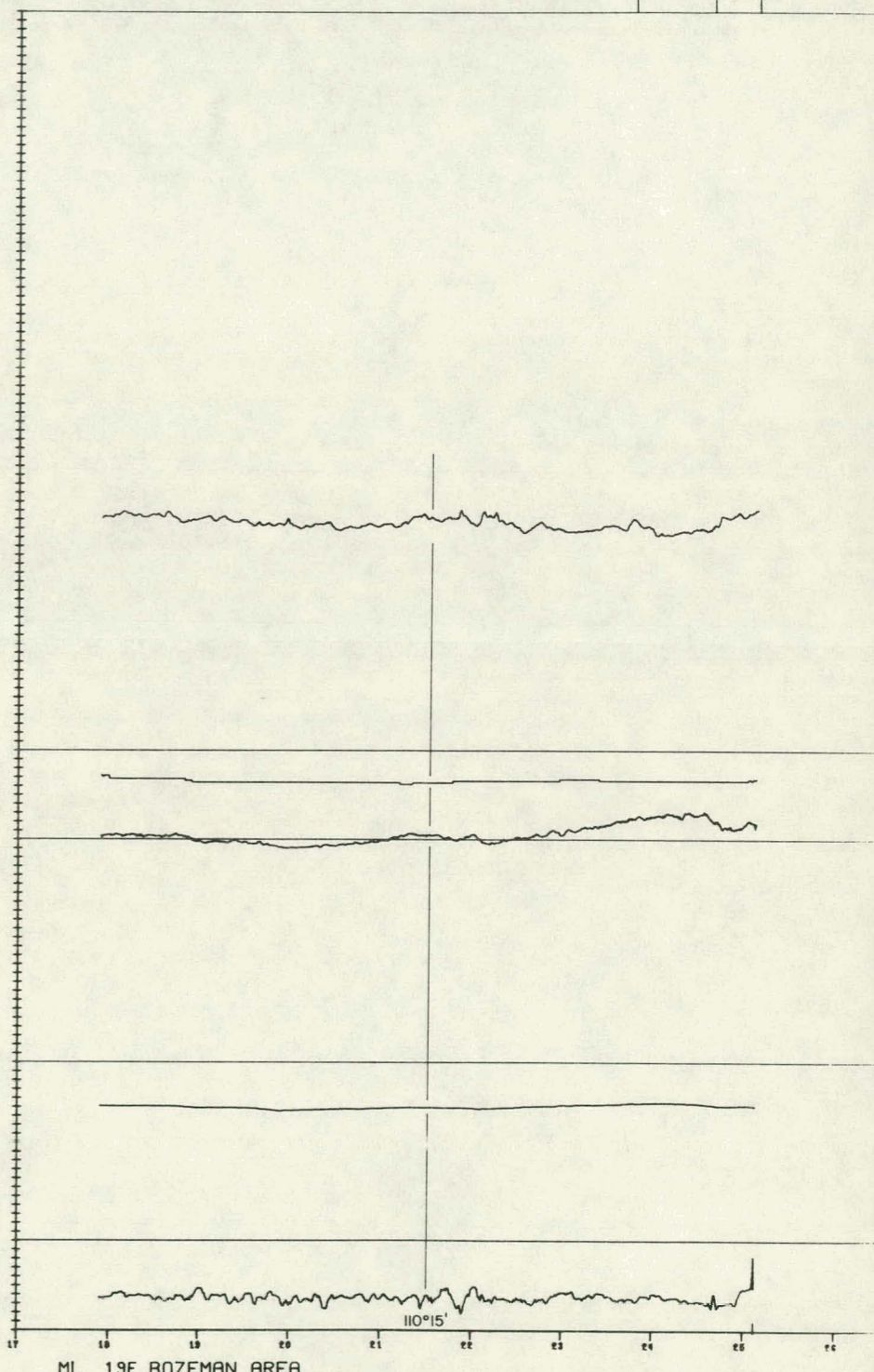
PRESSURE
0.25 IN HG/DIV
BASE = 20

TEMP
2 DEG C/DIV
BASE = -15

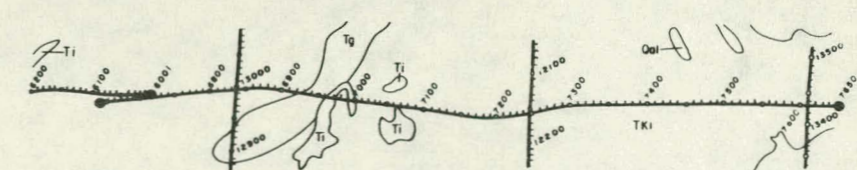
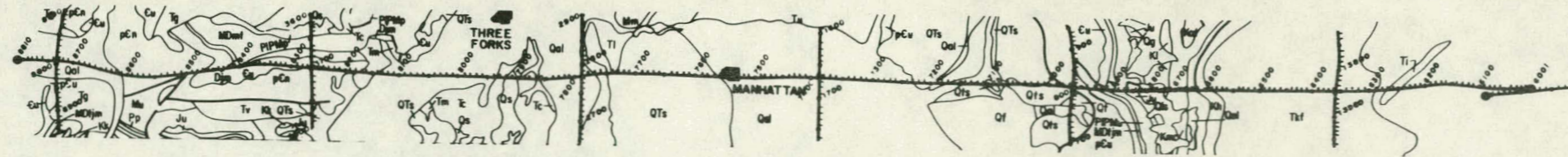
ALT
100 FT/DIV



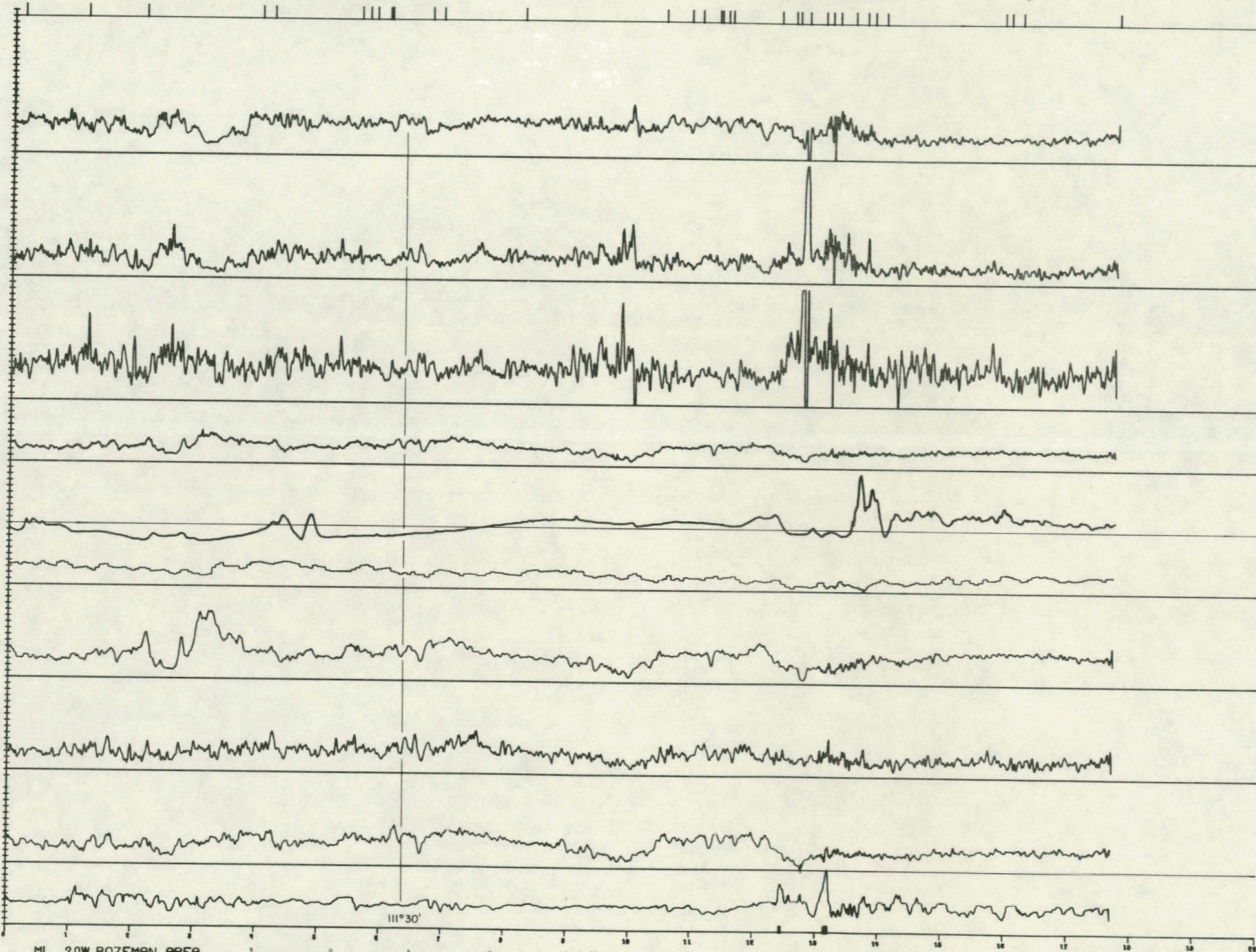
ML 19W BOZEMAN AREA



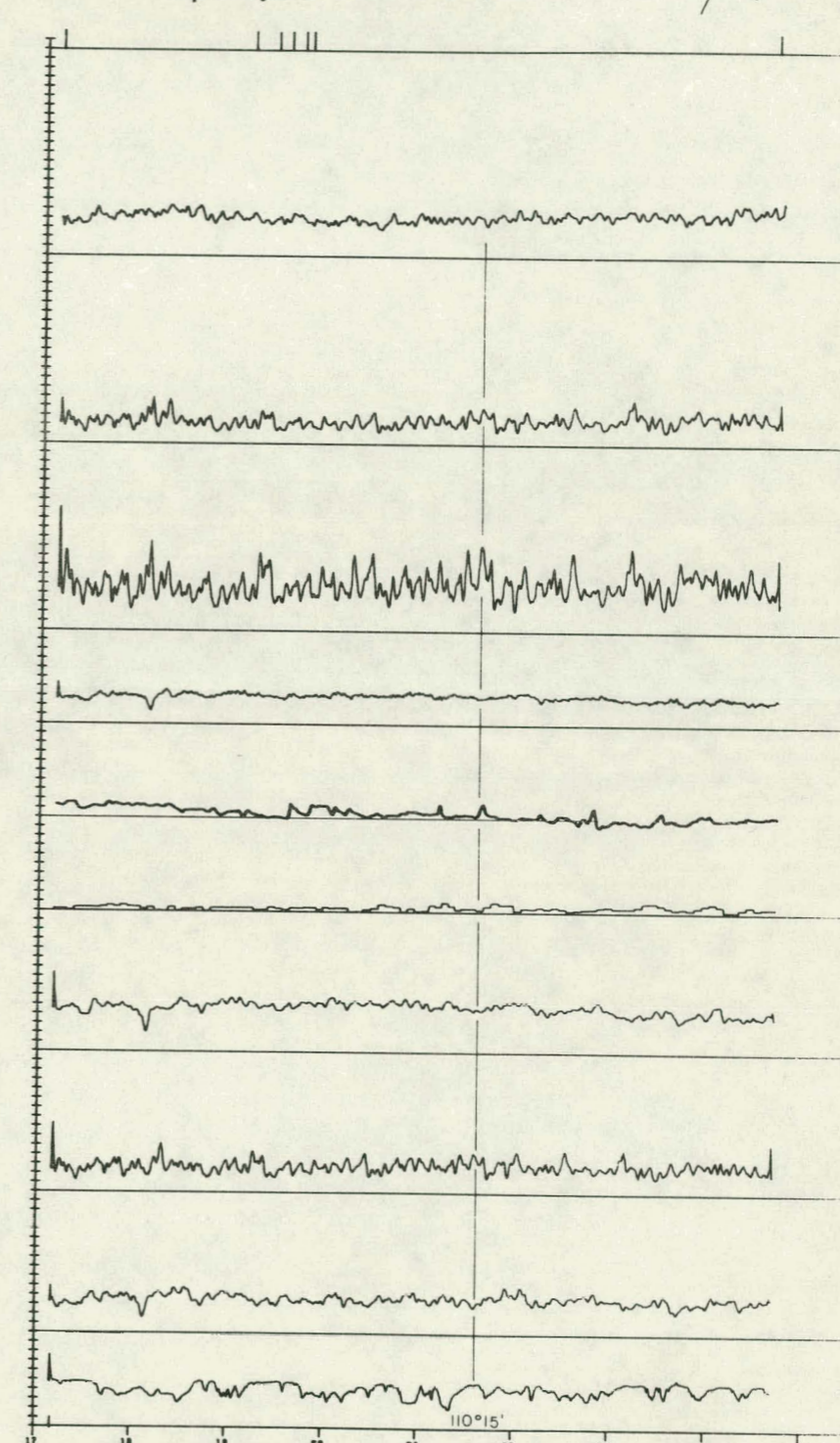
ML 19E BOZEMAN AREA



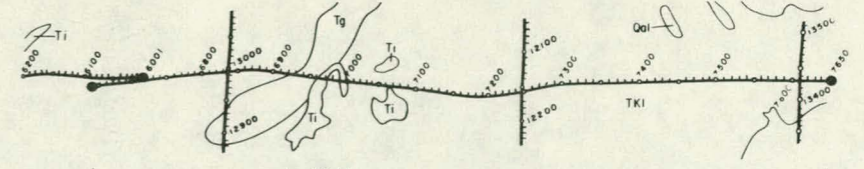
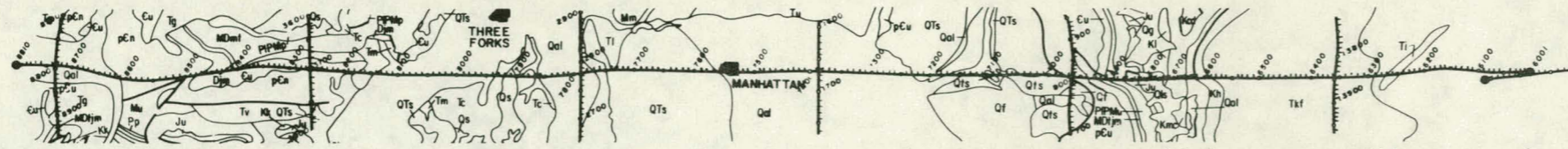
TL/K
 .06 /DIV
 BI/K
 .04 /DIV
 BI/TL
 .08 /DIV
 GC
 500 C/S/DIV
 RMAG
 50 GAMMAS/DIV
 BASE = -300
 BIAIR
 5 C/S/DIV
 K
 30 C/S/DIV
 BI
 5 C/S/DIV
 TL
 10 C/S/DIV
 ALT
 100 FT/DIV



ML 20W BOZEMAN AREA



ML 20E BOZEMAN AREA HORIZONTAL SCALE. 1:250000.



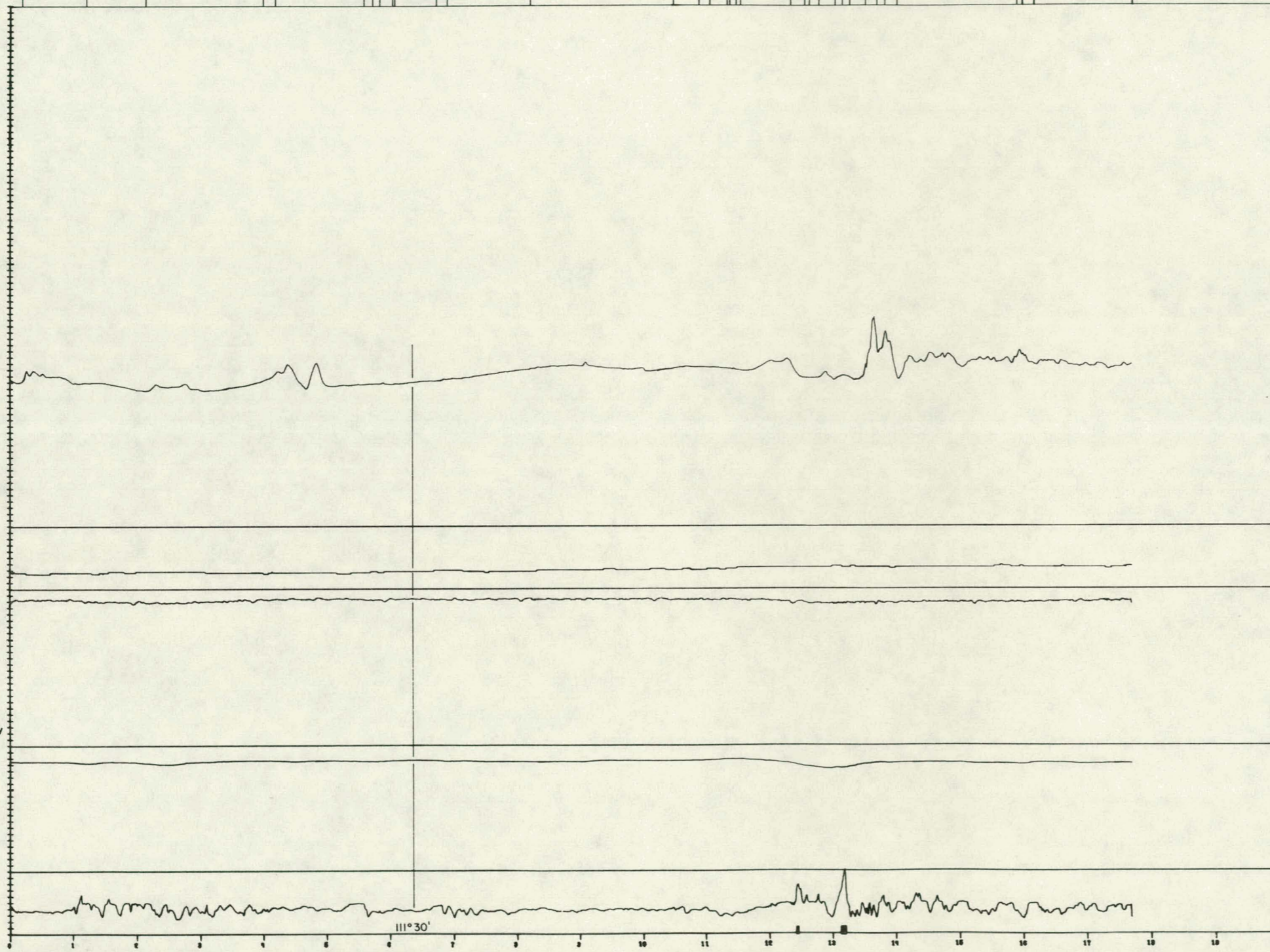
R MAG
50 GAMMA/DIV
BASE = -1500

B MAG
5 GAMMA/DIV
BASE = 56275

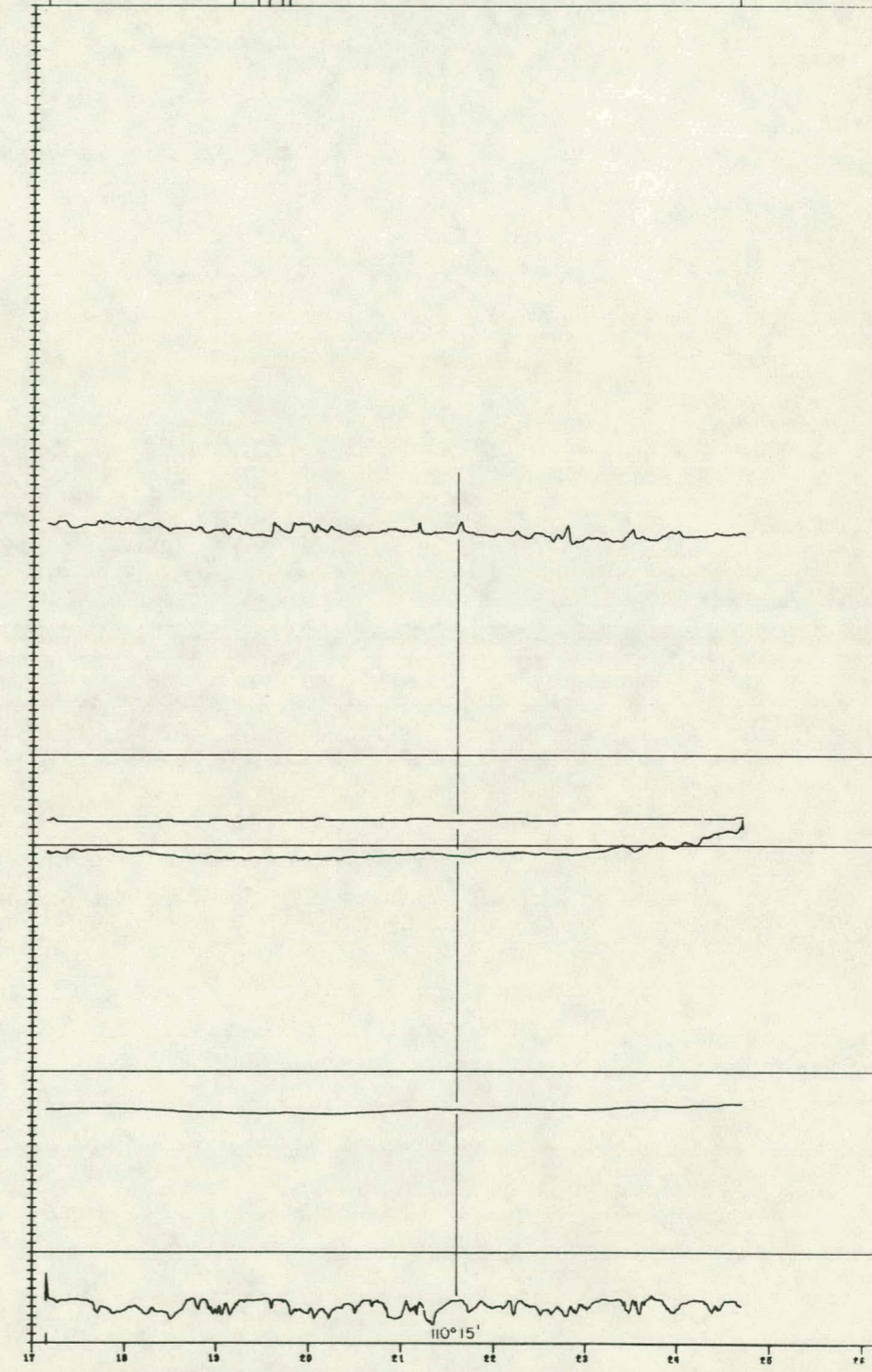
PRESSURE
0.25 IN HG/DIV
BASE = 20

TEMP
2 DEG C/DIV
BASE = -15

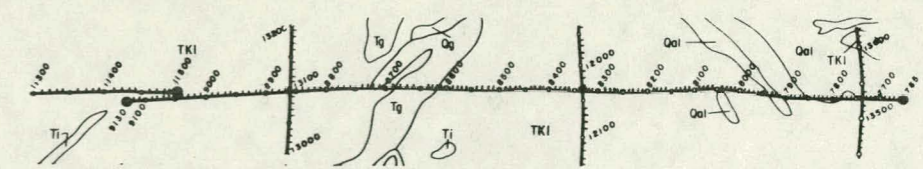
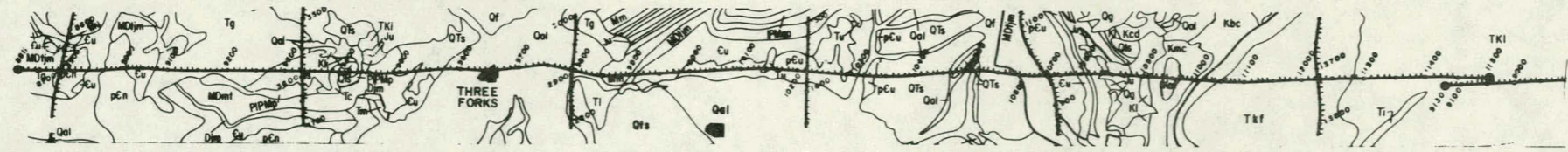
ALT
100 FT/DIV



ML 20W BOZEMAN AREA



ML 20E BOZEMAN AREA



TL/K
.06 /DIV

BI/K
.04 /DIV

BI/TL
.08 /DIV

GC
500 C/S/DIV

RMAG
50 GAMMAS/DIV
BASE = -300

BIAIR
5 C/S/DIV

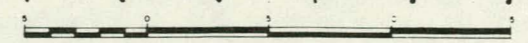
K
30 C/S/DIV

BI
5 C/S/DIV

TL
10 C/S/DIV

ALT
100 FT/DIV

ML 21W BOZEMAN AREA

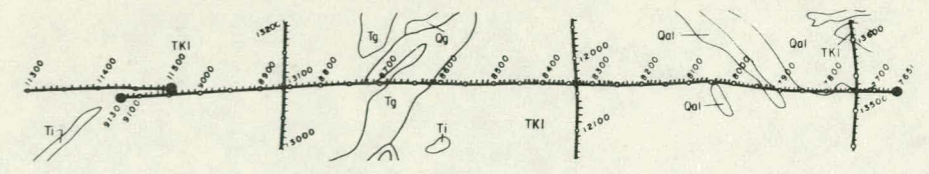
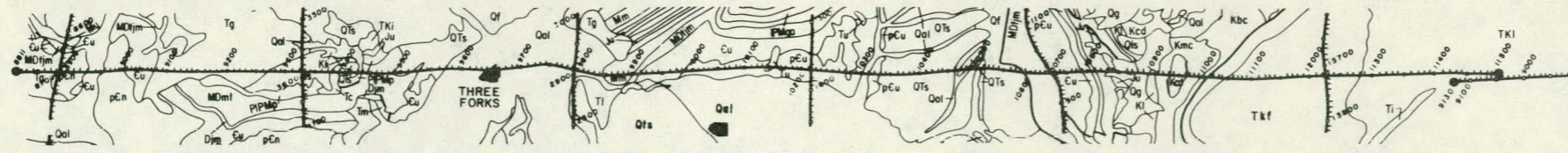


111°30'

ML 21E BOZEMAN AREA

HORIZONTAL SCALE. 1:250000.

110°15'



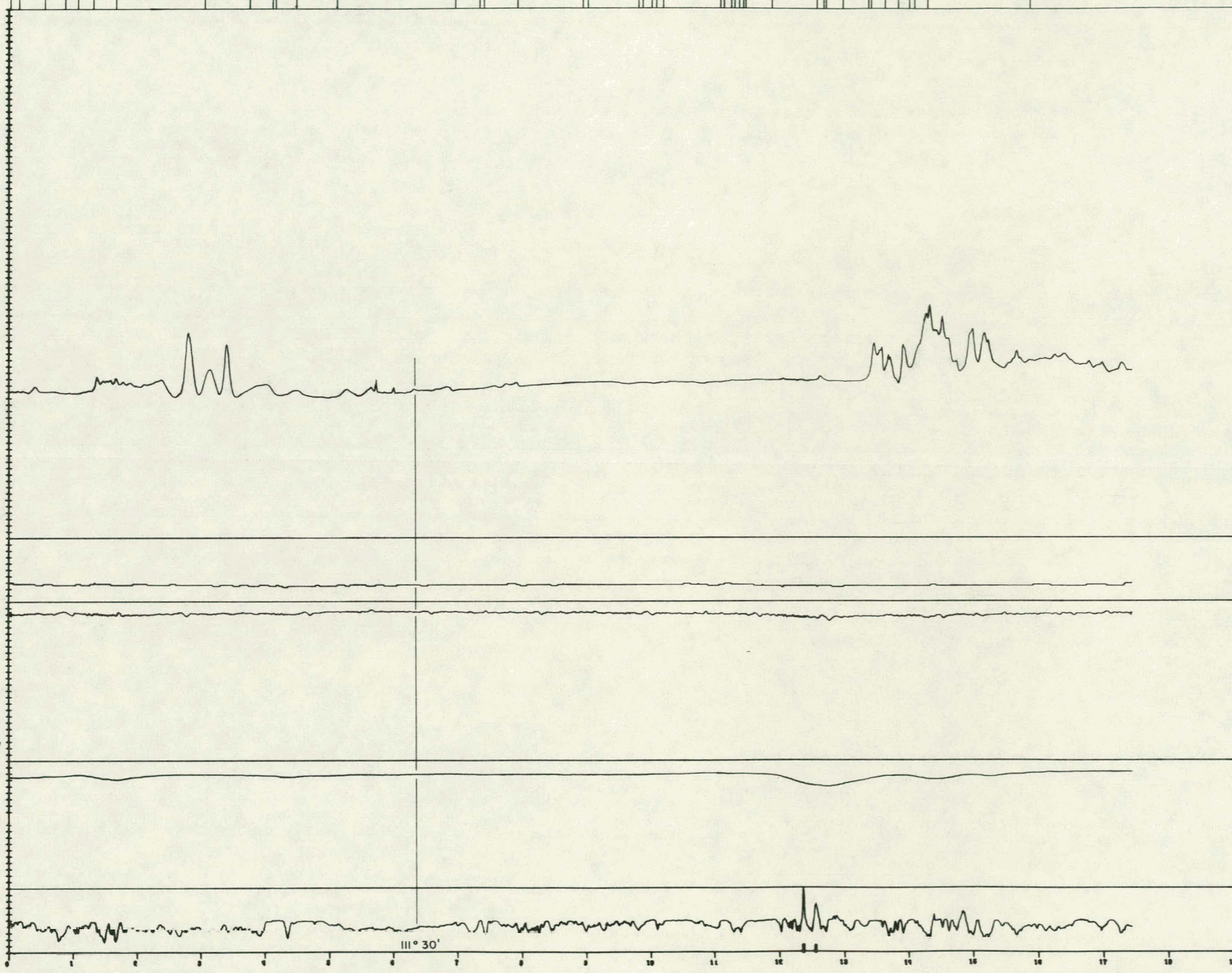
RMAG
50 GAMMA/DIV
BASE = -1500

BMAG
5 GAMMA/DIV
BASE = 56275

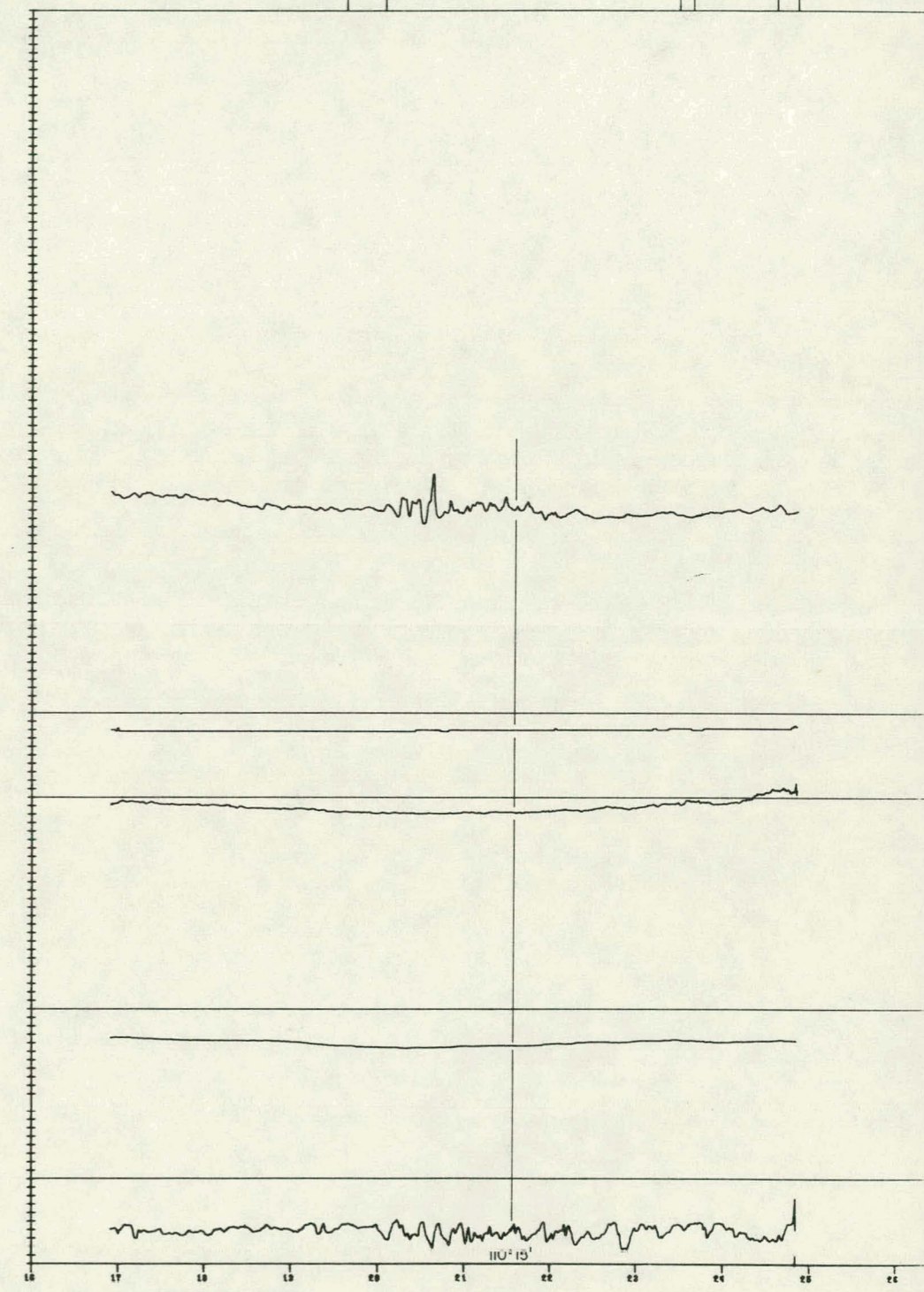
PRESSURE
0.25 IN HG/DIV
BASE = 20

TEMP
2 DEG C/DIV
BASE = -15

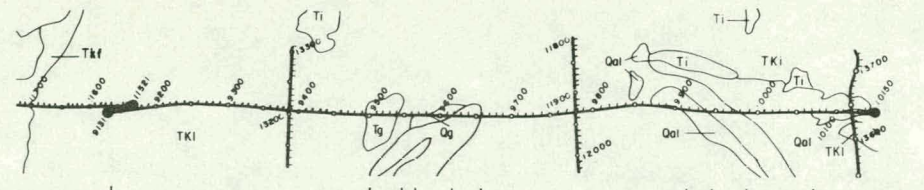
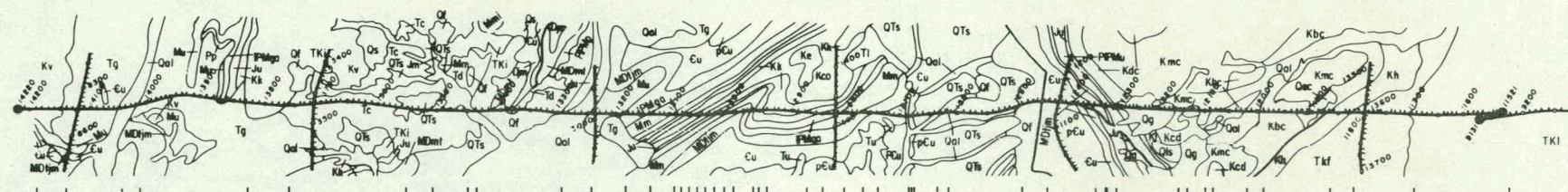
ALT
100 FT/DIV



ML 21W BOZEMAN AREA



ML 21E BOZEMAN AREA



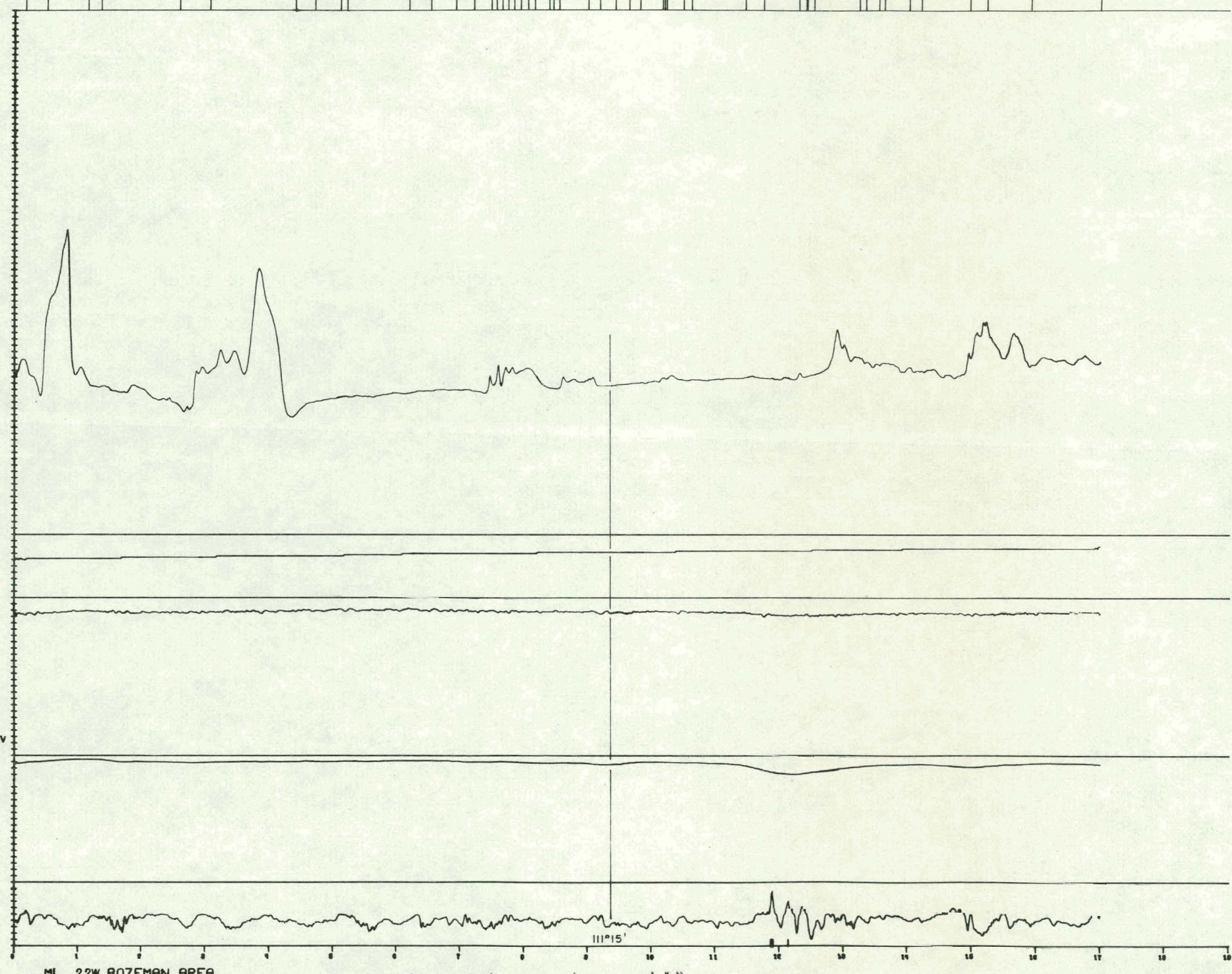
RMAG
 50 GAMMA/DIV
 BASE = -1500

 BMAG
 5 GAMMA/DIV
 BASE = 56275

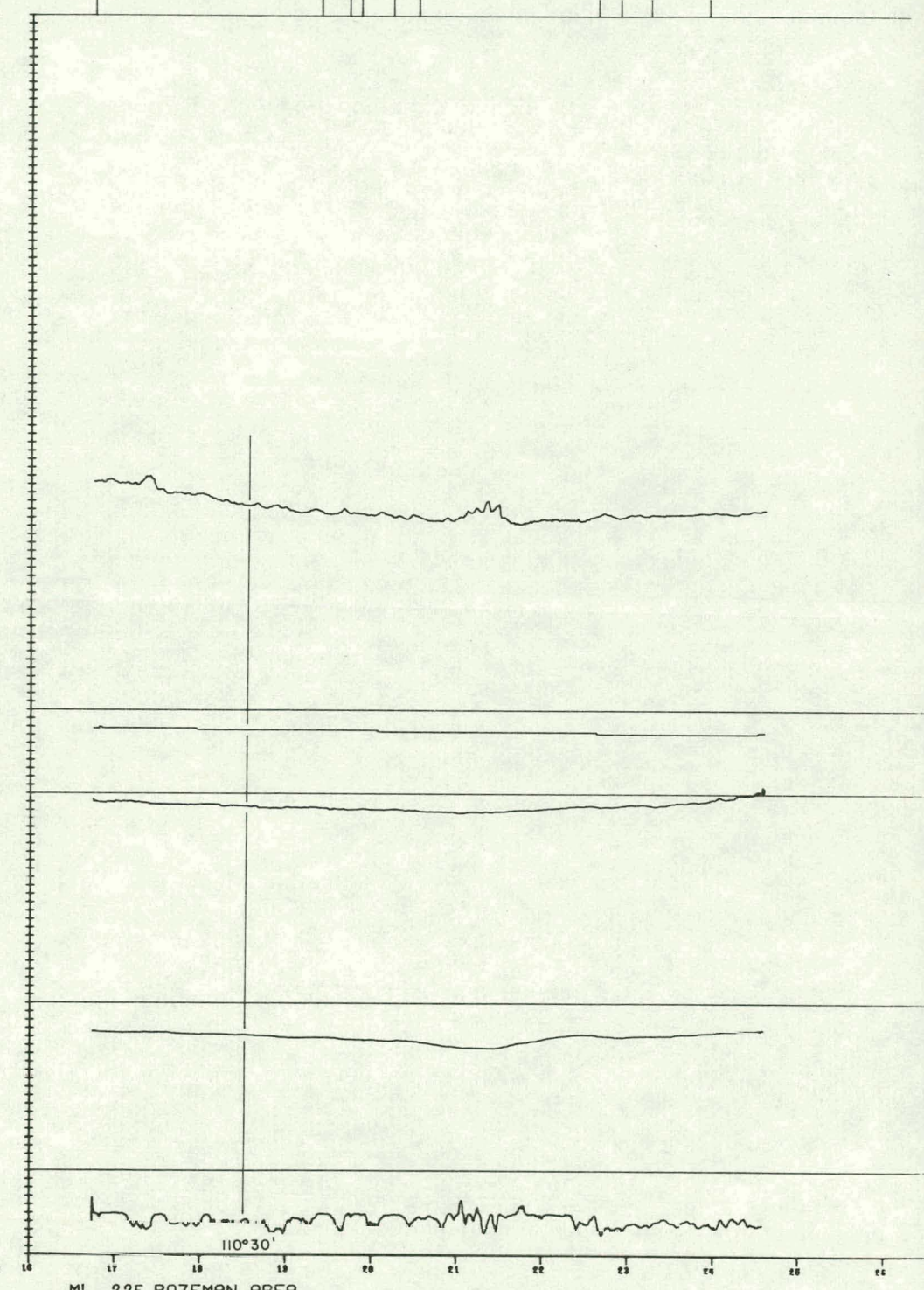
 PRESSURE
 0.25 IN HG/DIV
 BASE = 20

 TEMP
 2 DEG C/DIV
 BASE = -15

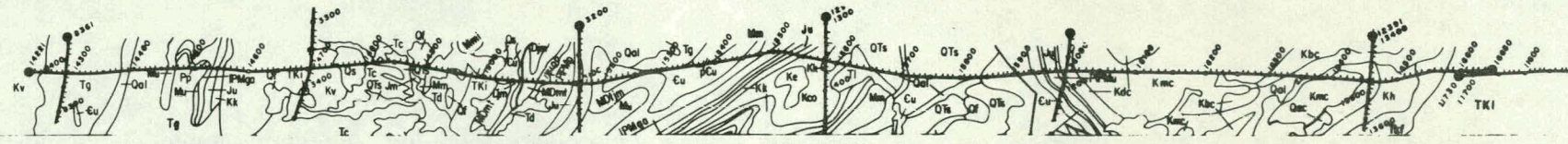
 ALT
 100 FT/DIV



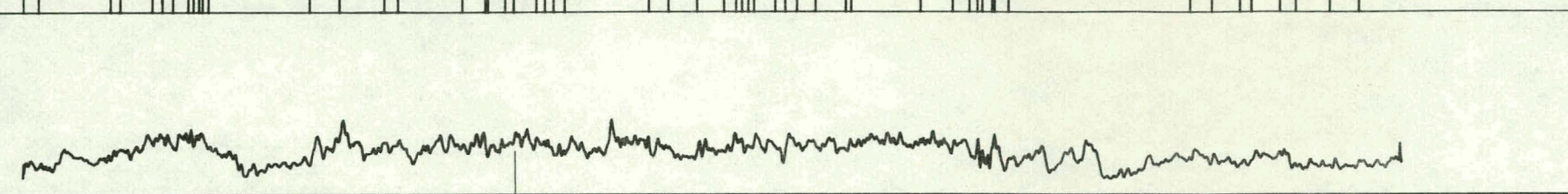
ML 22W BOZEMAN AREA



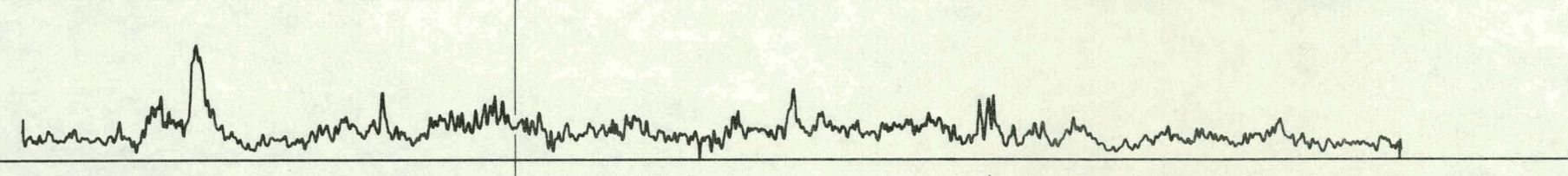
ML 22E BOZEMAN AREA



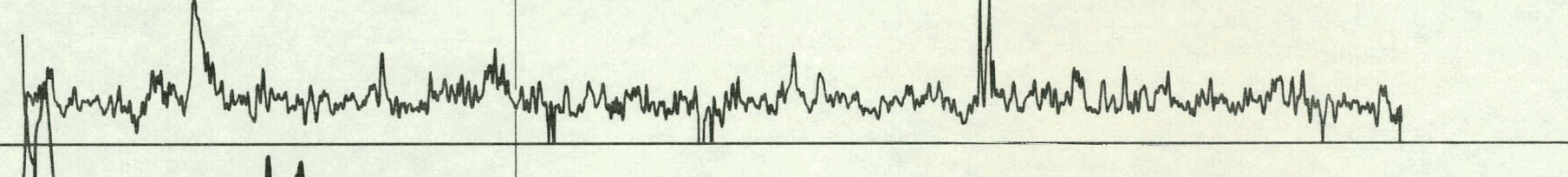
TL/K
.06 /DIV



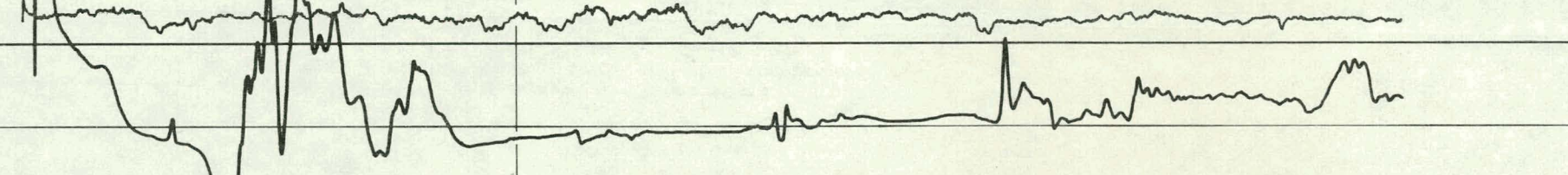
BI/K
.04 /DIV



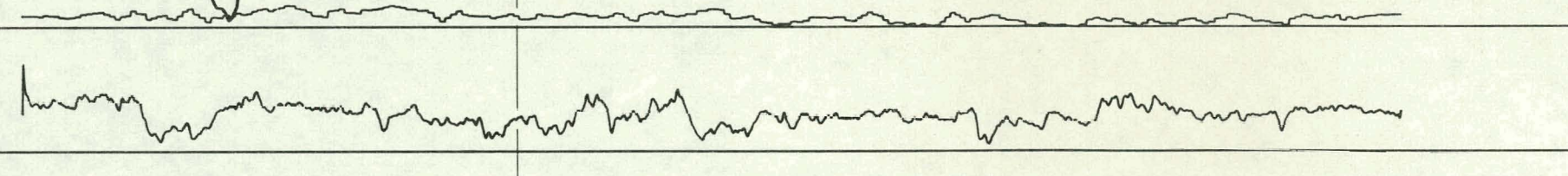
BI/TL
.08 /DIV



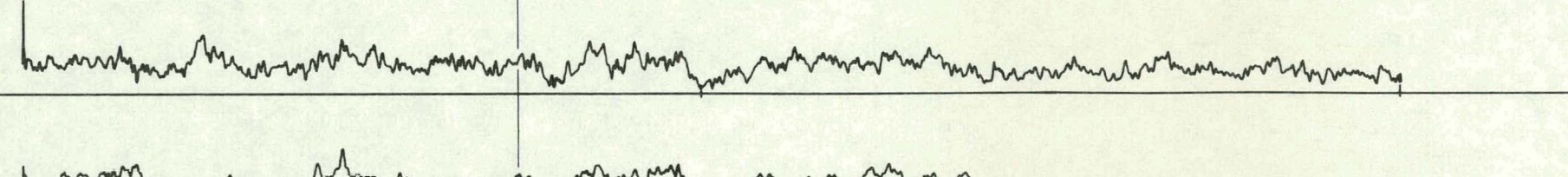
GC
500 C/S/DIV



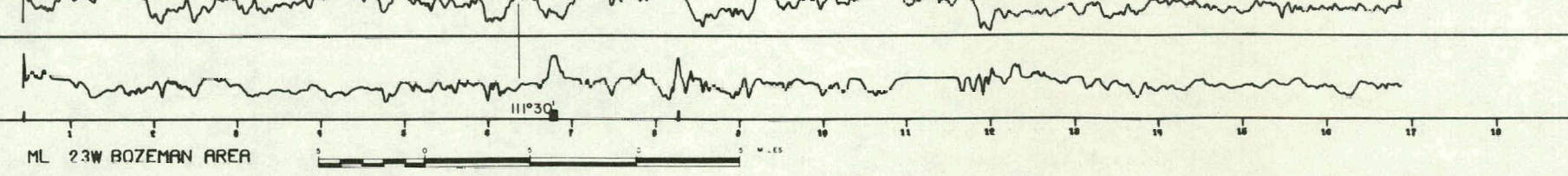
RMAG
50 GAMMAS/DIV
BASE = -300



BIAIR
5 C/S/DIV



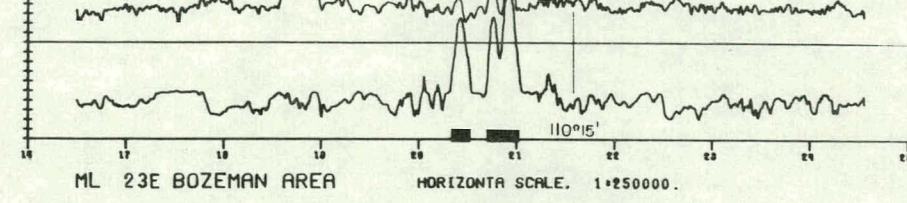
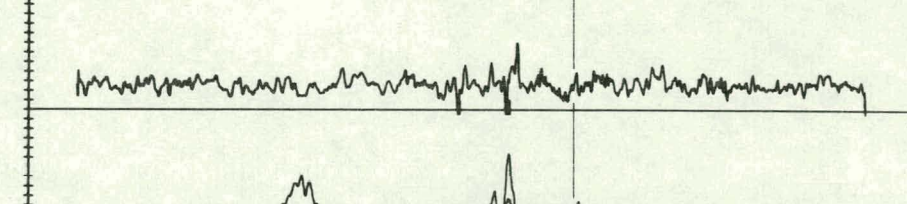
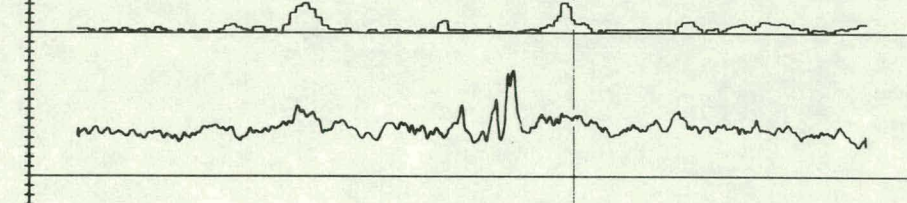
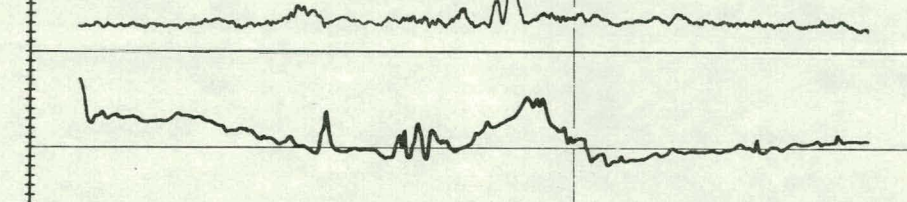
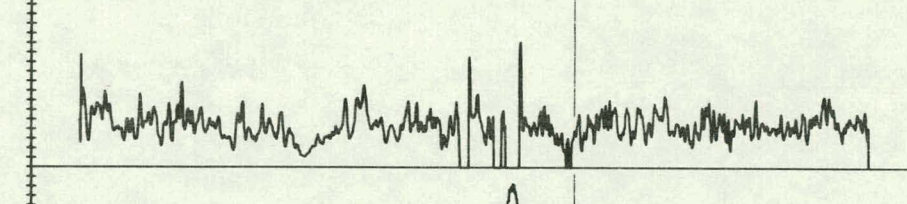
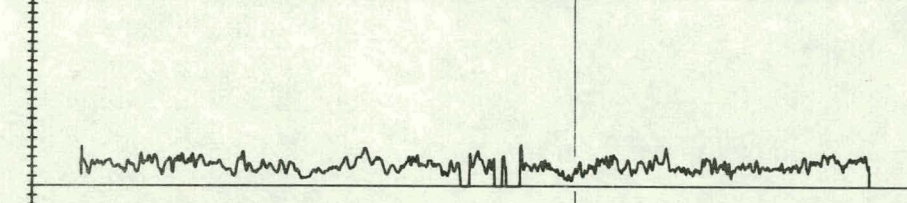
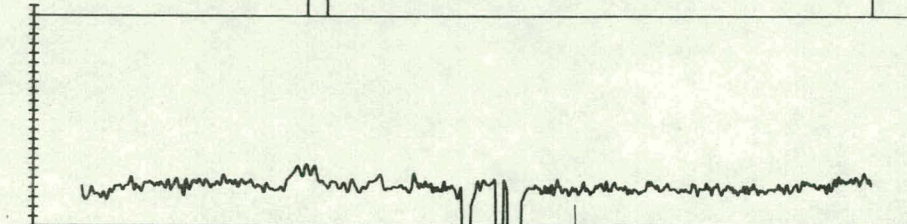
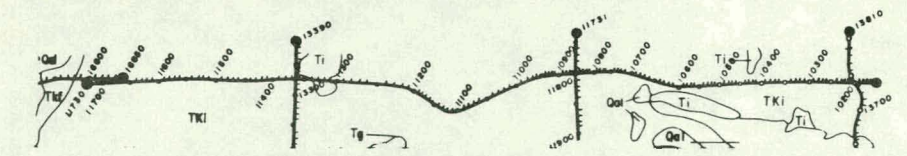
K
30 C/S/DIV

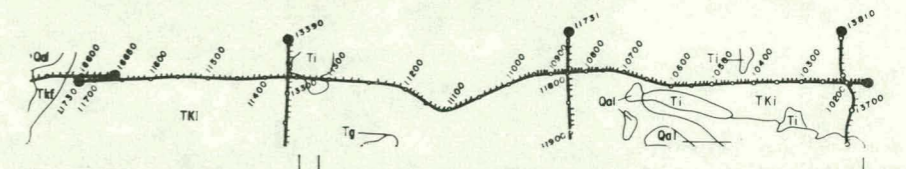
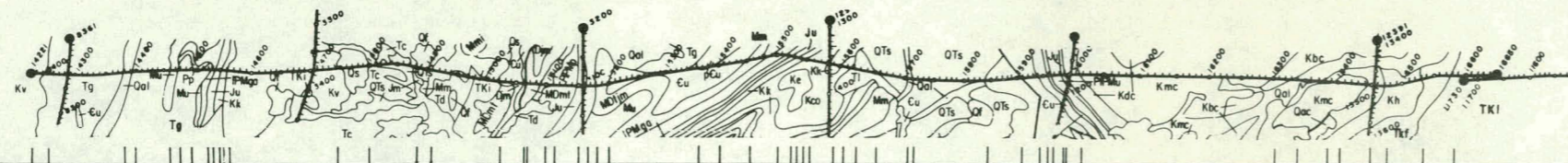


BI
5 C/S/DIV

TL
10 C/S/DIV

ALT
100 FT/DIV





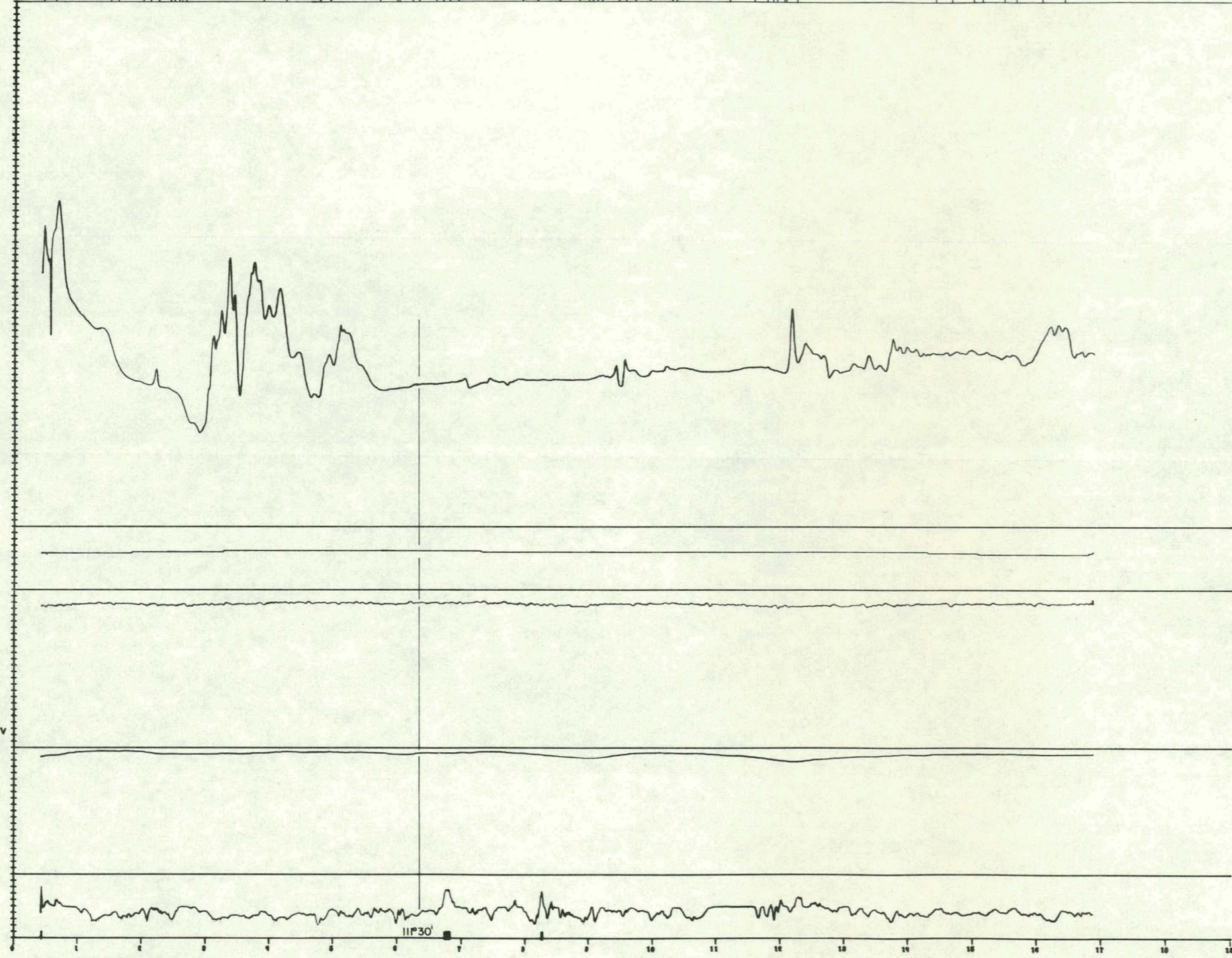
RMAG
 50 GAMMA/DIV
 BASE = -1500

 BMAG
 5 GAMMA/DIV
 BASE = 56275

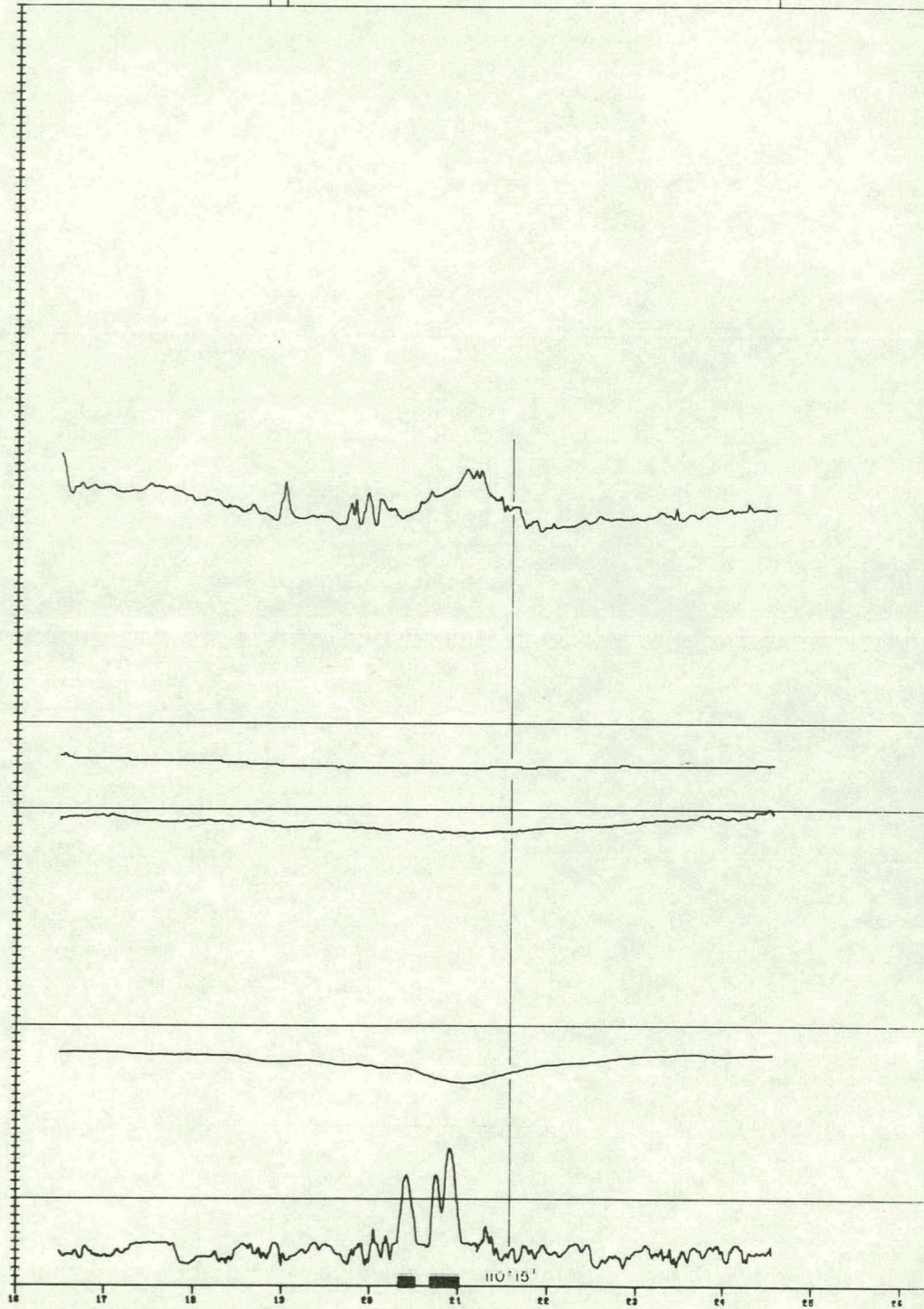
 PRESSURE
 0.25 IN HG/DIV
 BASE = 20

 TEMP
 2 DEG C/DIV
 BASE = -15

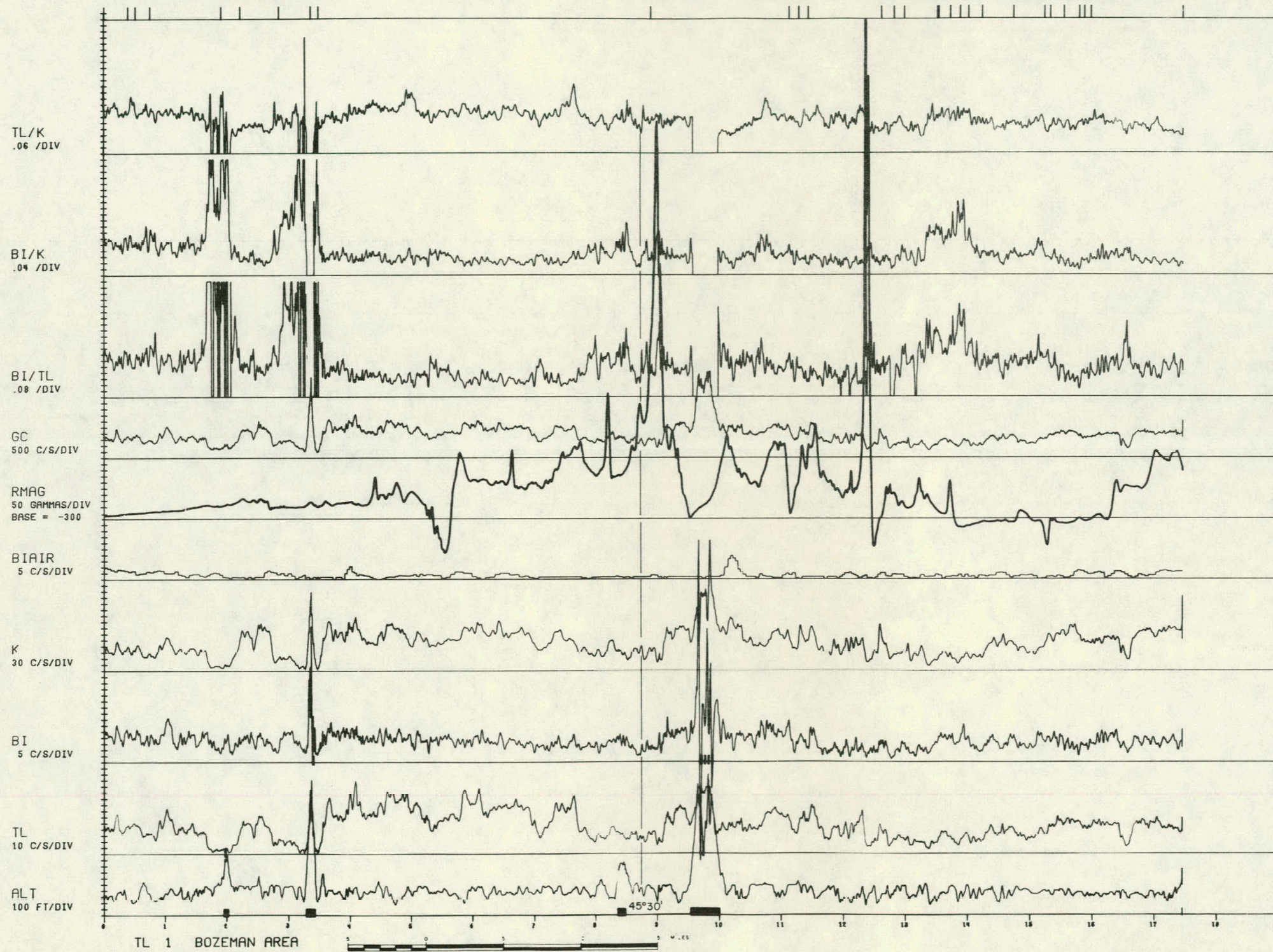
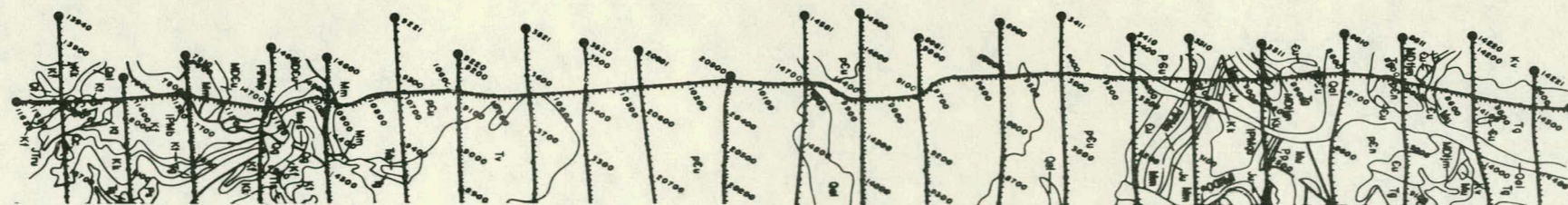
 ALT
 100 FT/DIV

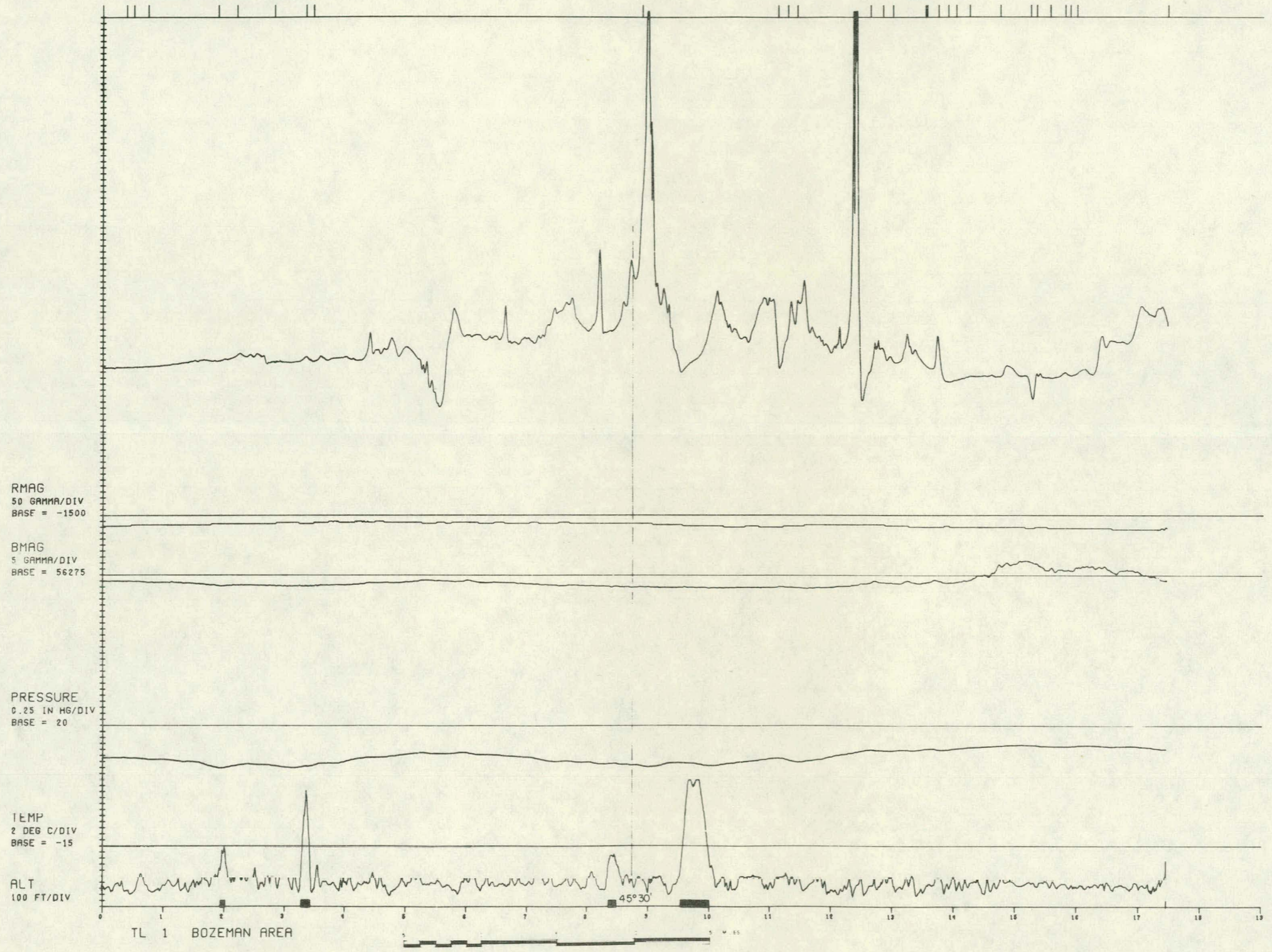
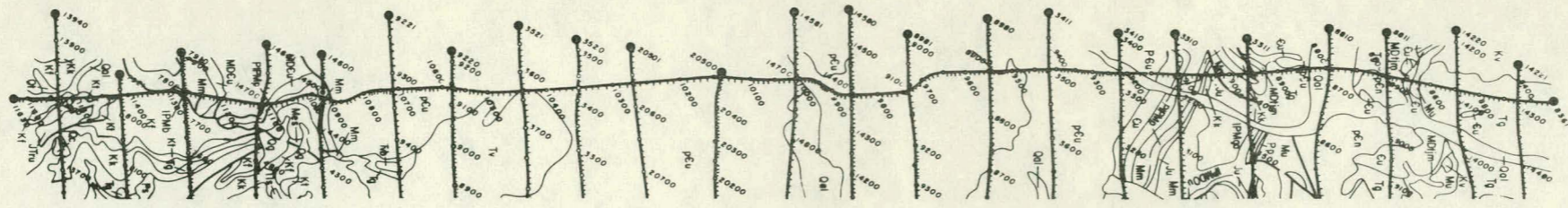


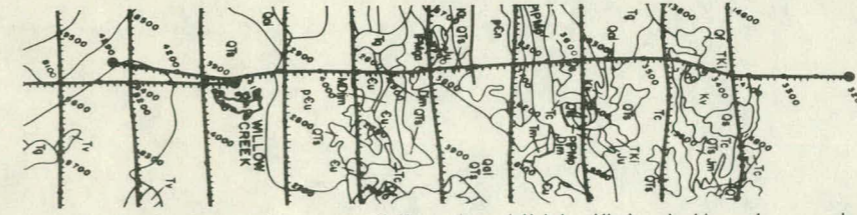
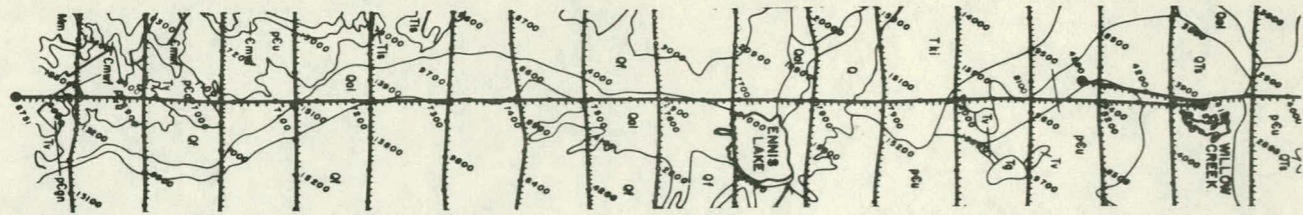
ML 23W BOZEMAN AREA



ML 23W BOZEMAN AREA







TL/K
.06 /DIV

BI/K
.04 /DIV

BI/TL
.08 /DIV

GC
500 C/S/DIV

RMAG
50 GAMMAS/DIV
BASE = -300

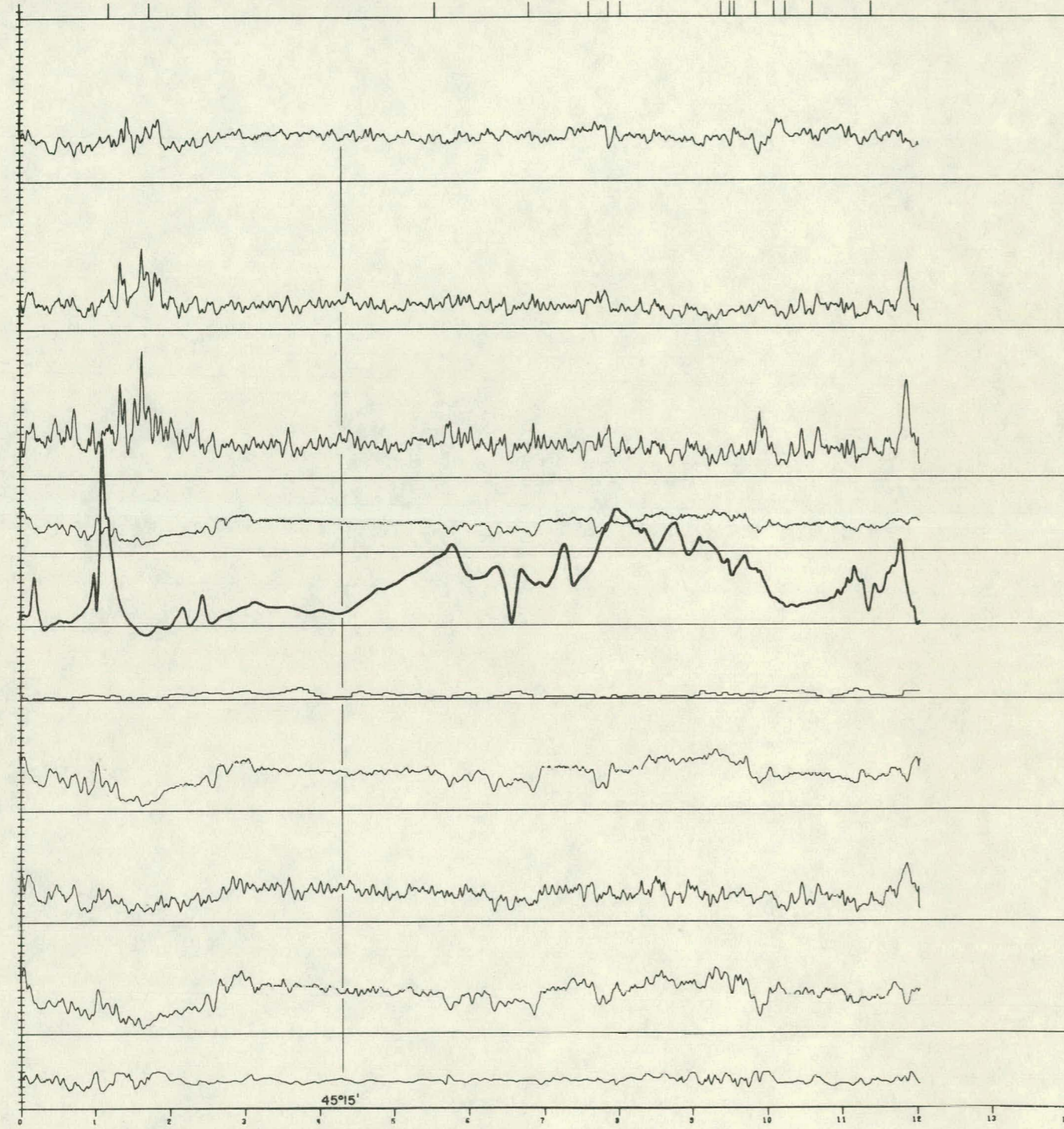
BIAIR
5 C/S/DIV

K
30 C/S/DIV

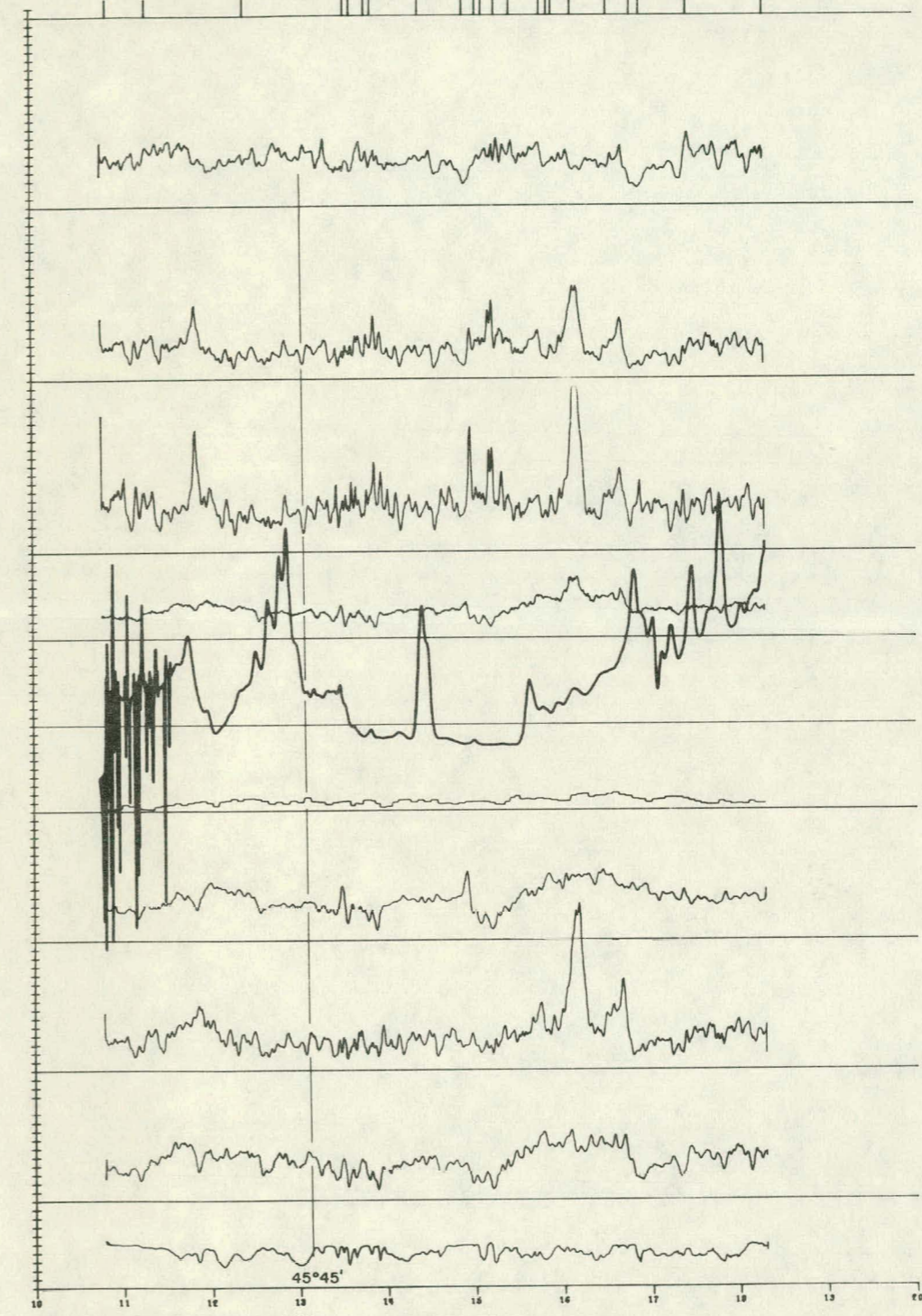
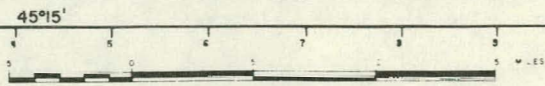
BI
5 C/S/DIV

TL
10 C/S/DIV

ALT
100 FT/DIV

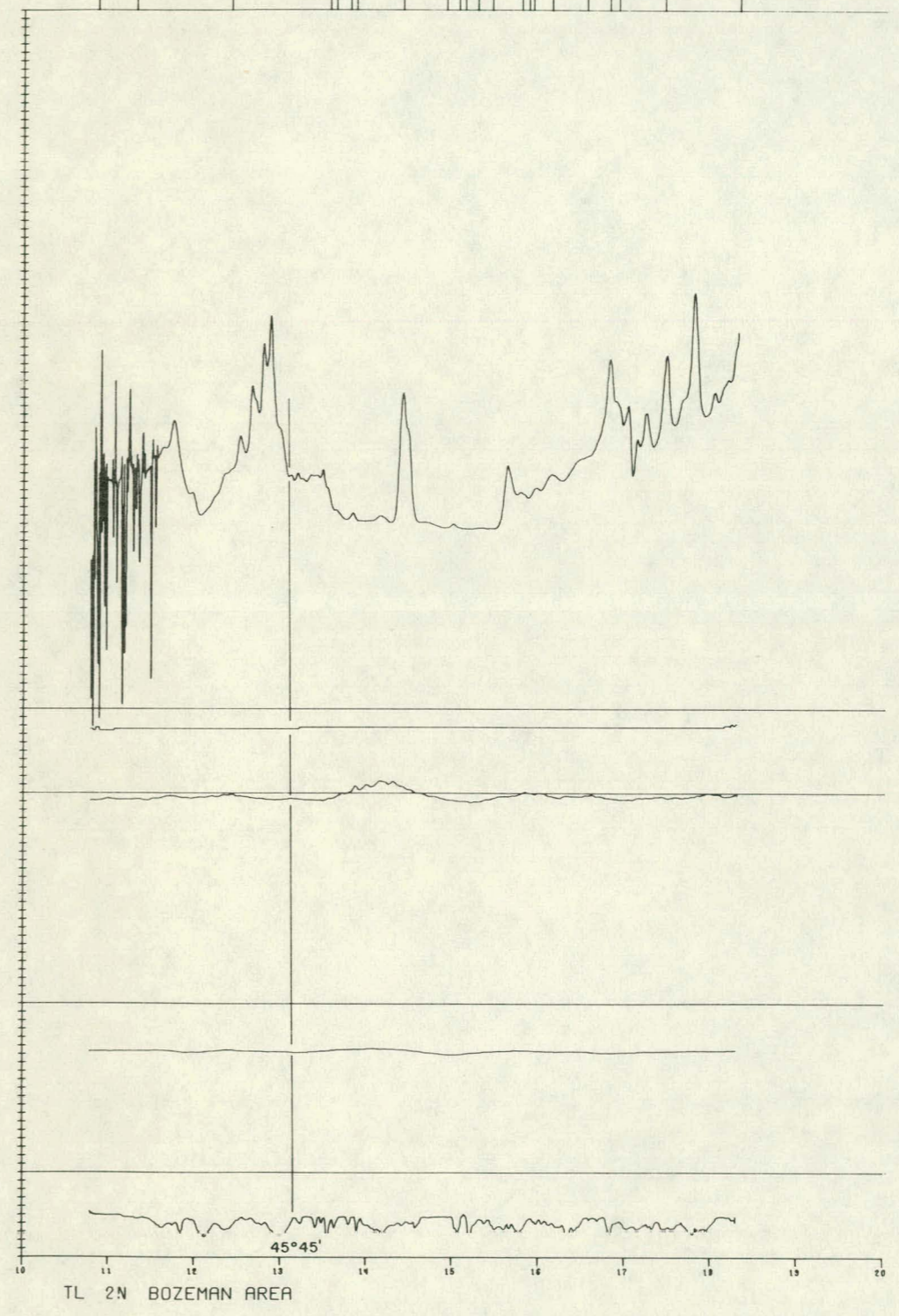
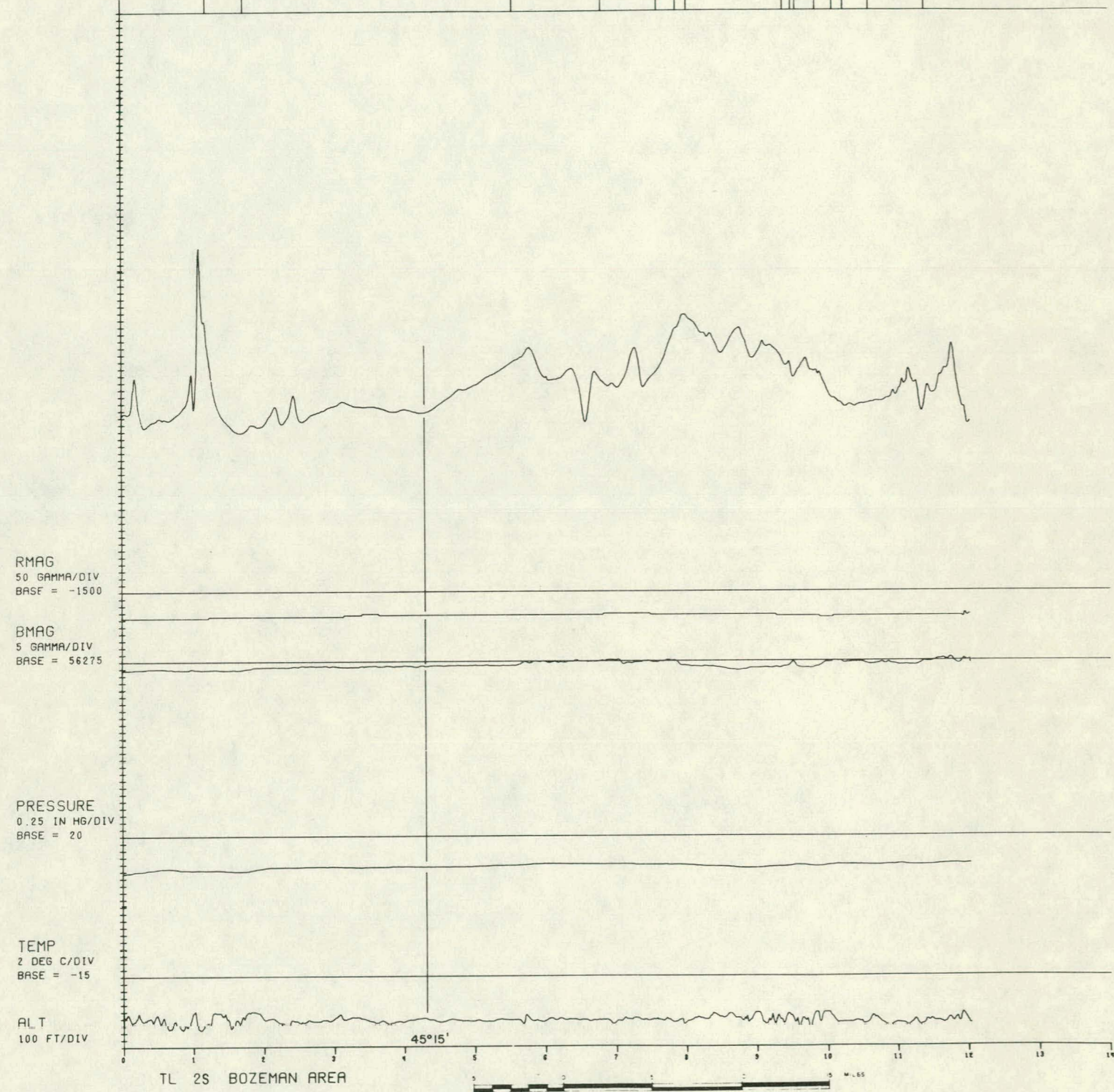
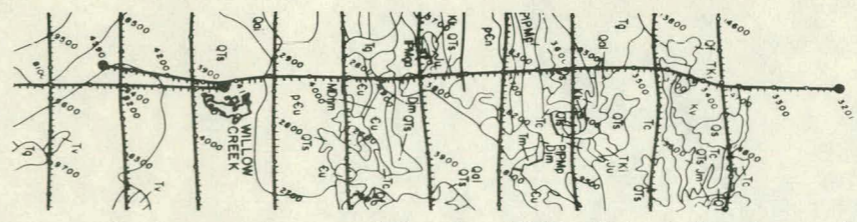
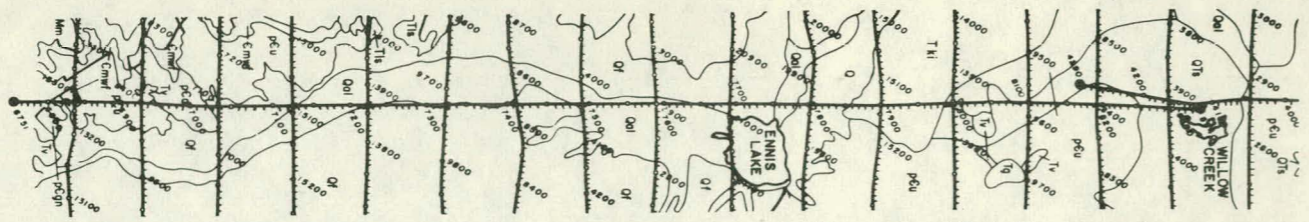


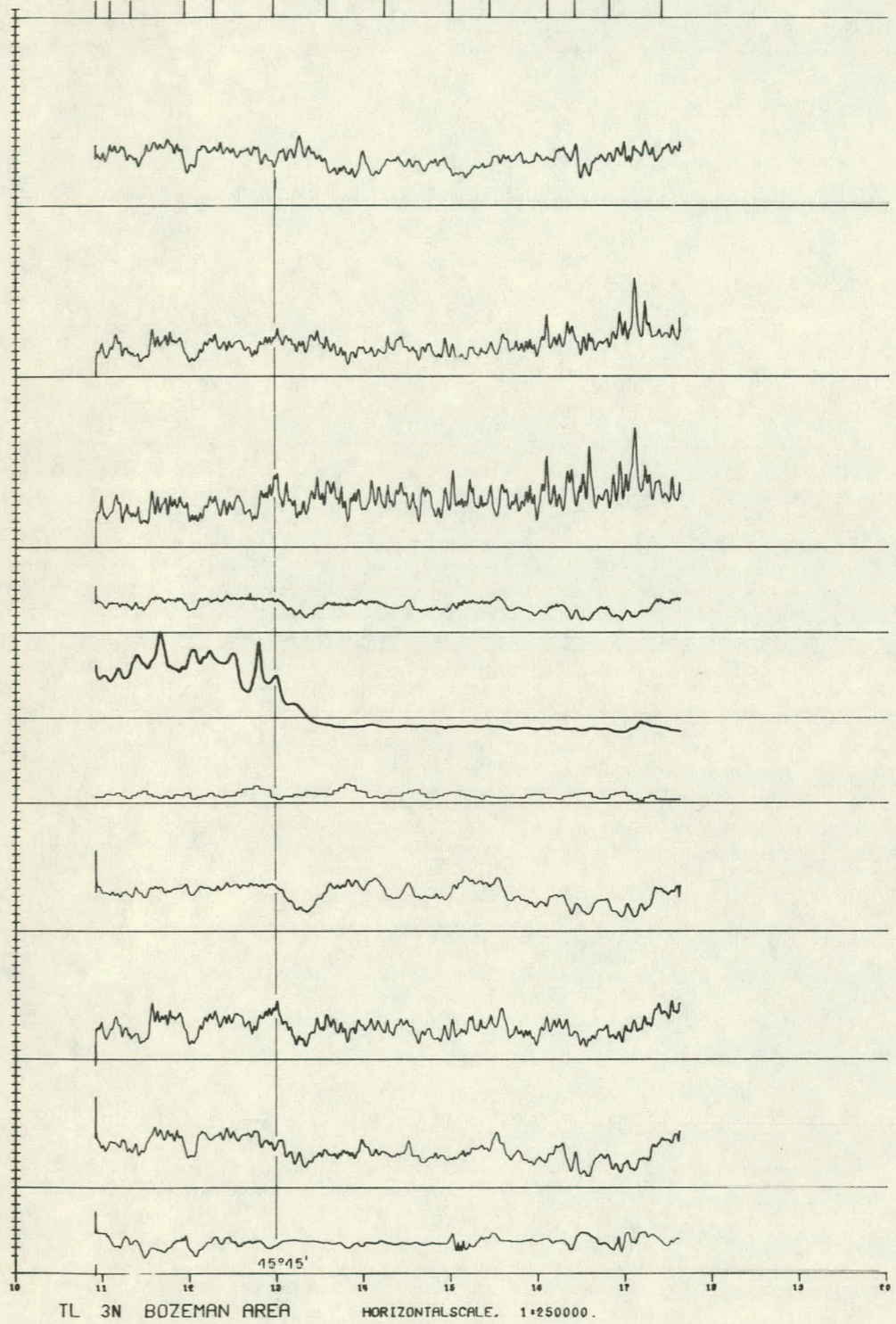
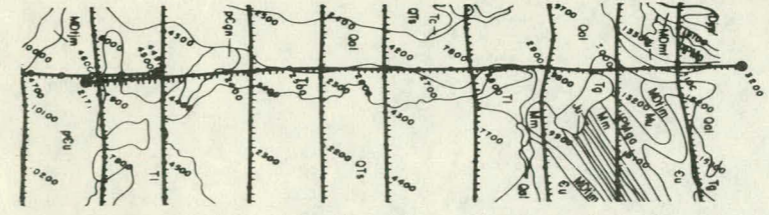
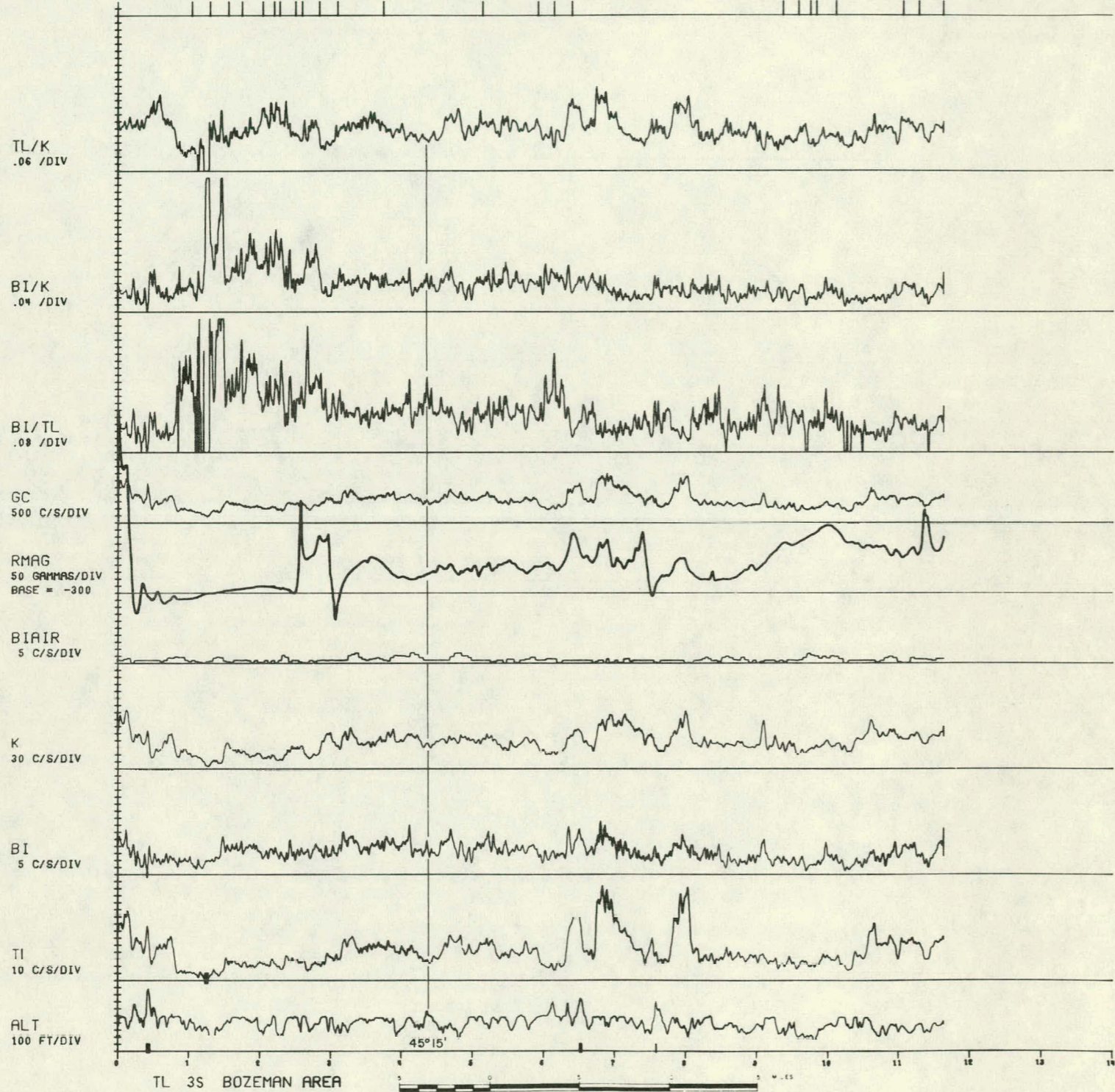
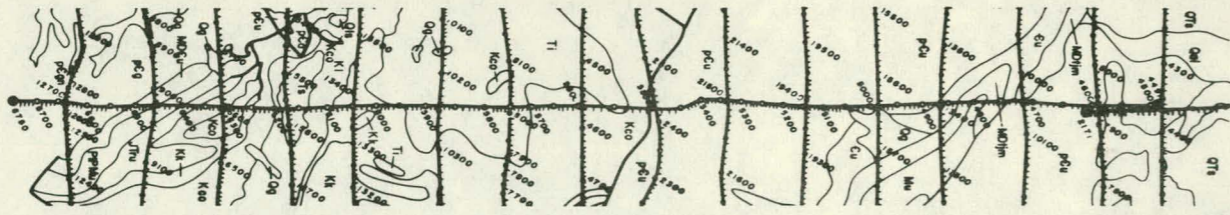
TL 2S BOZEMAN AREA

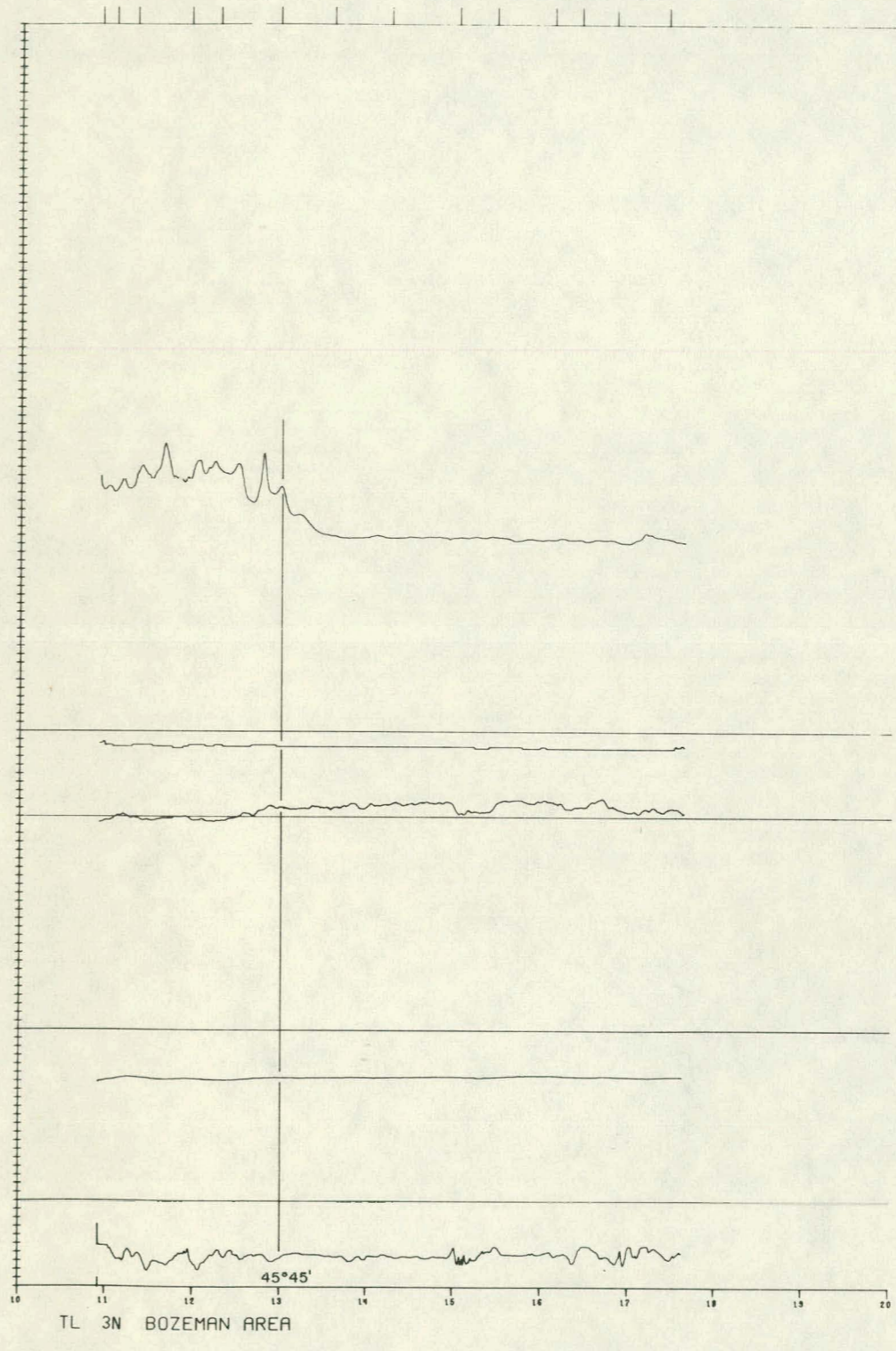
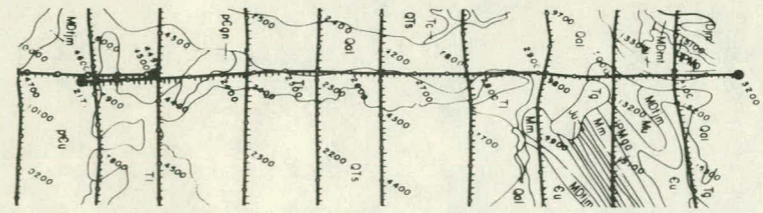
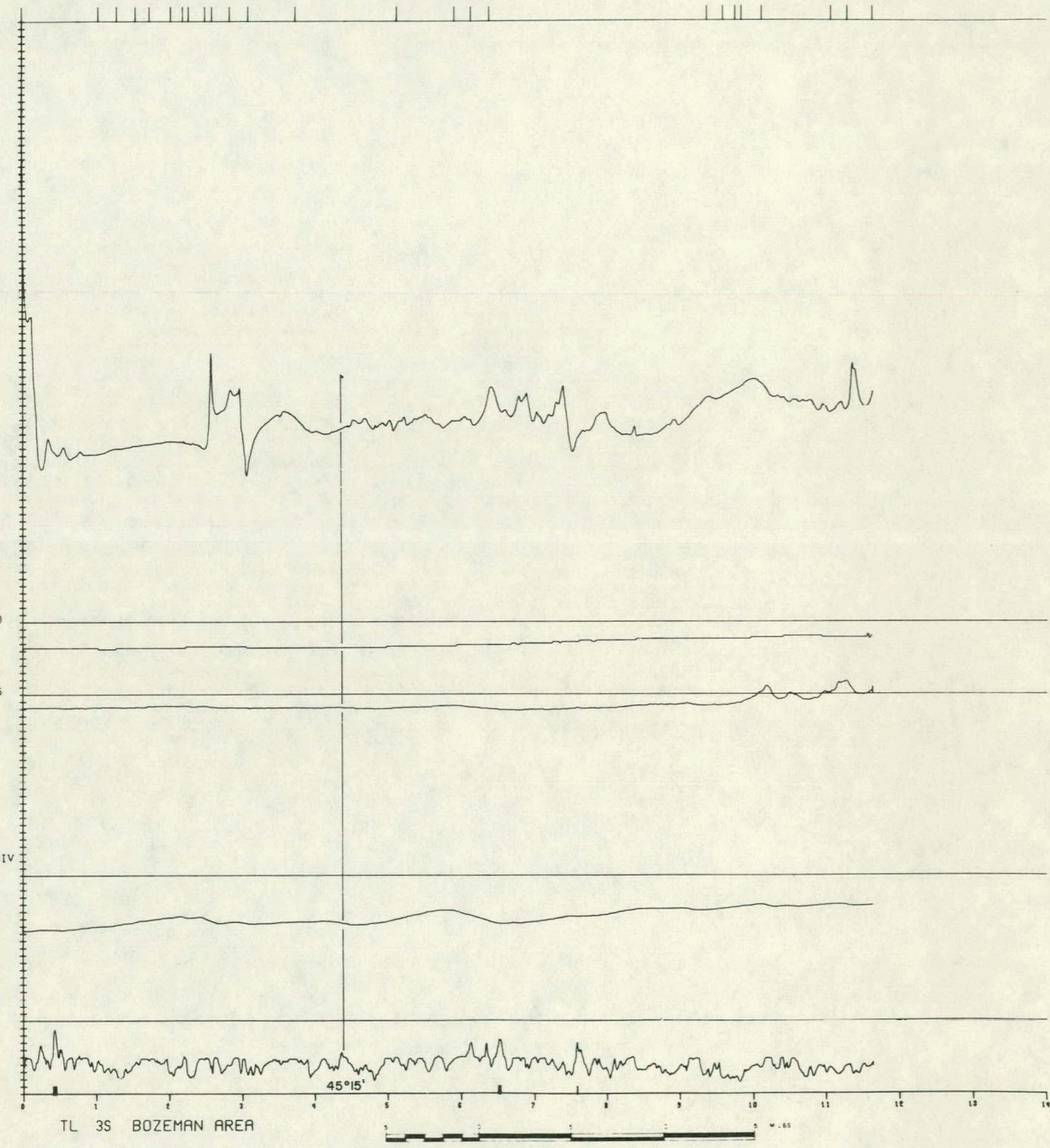
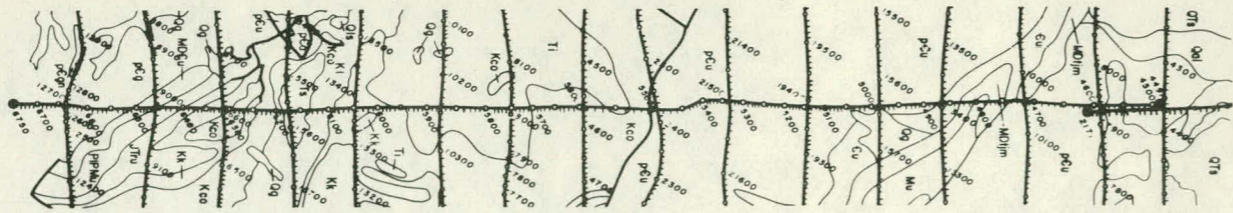


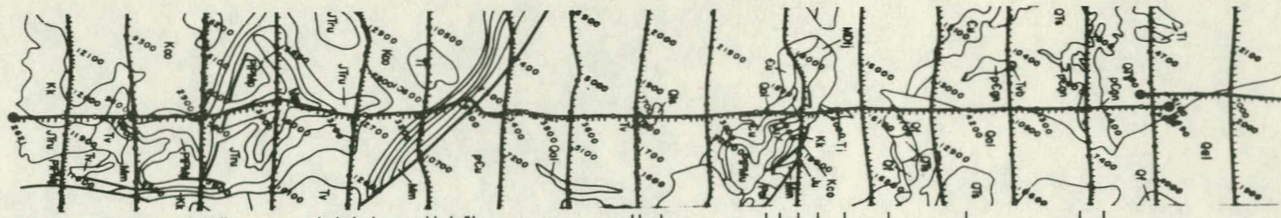
TL 2N BOZEMAN AREA

HORIZONTAL SCALE, 1:250000.

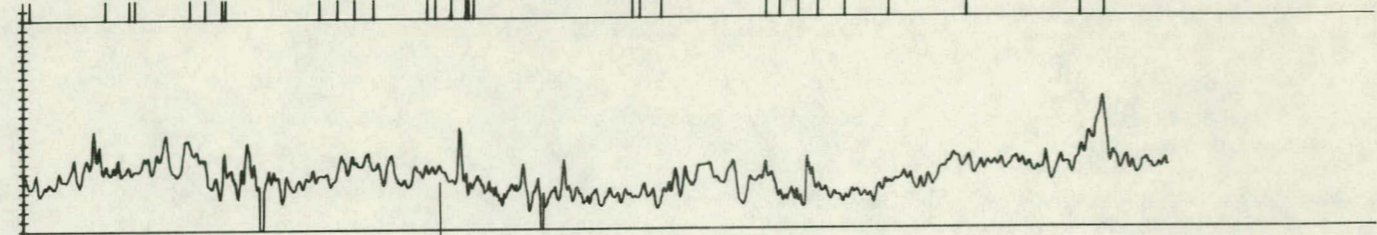




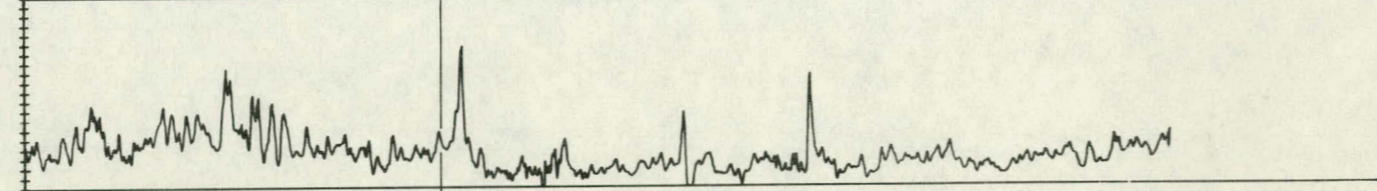




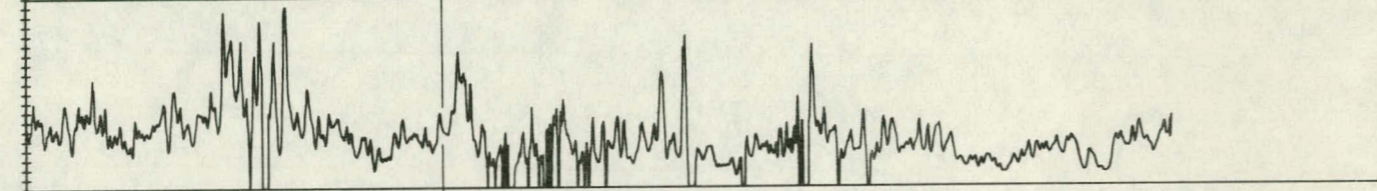
TL/K
.06 /DIV



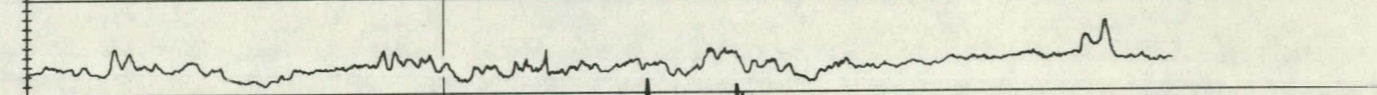
BI/K
.04 /DIV



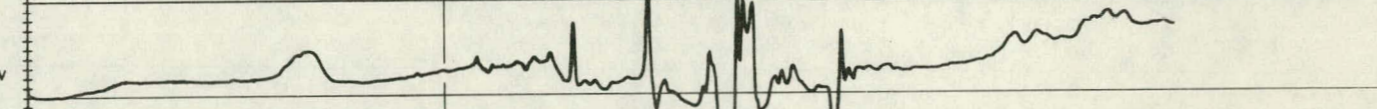
BI/TL
.08 /DIV



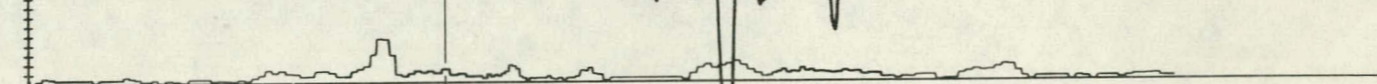
GC
500 C/S/DIV



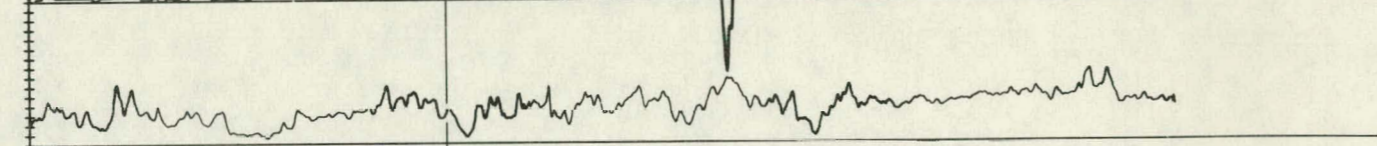
RMAG
50 GAMMAS/DIV
BASE = -300



BIAIR
5 C/S/DIV



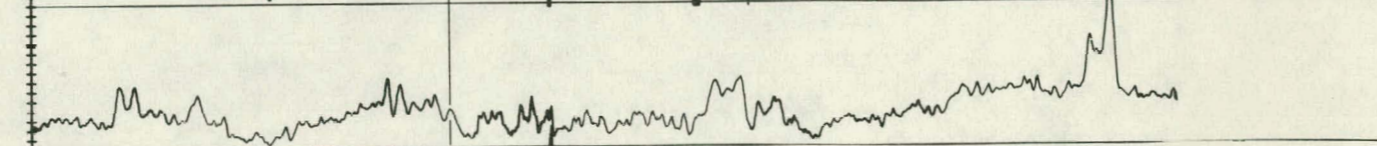
K
30 C/S/DIV



BI
5 C/S/DIV



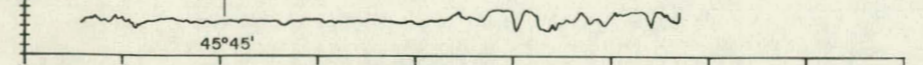
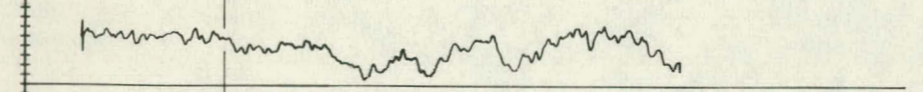
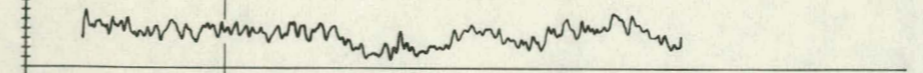
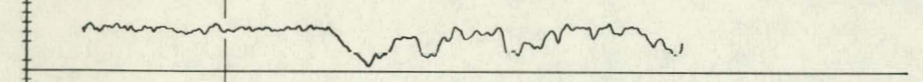
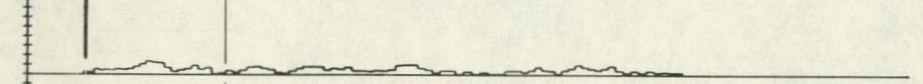
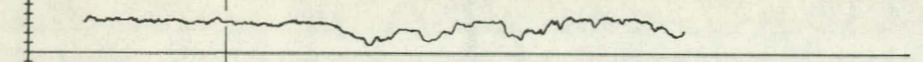
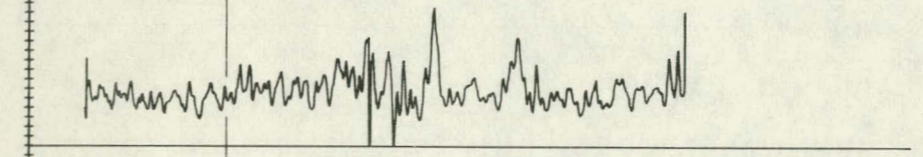
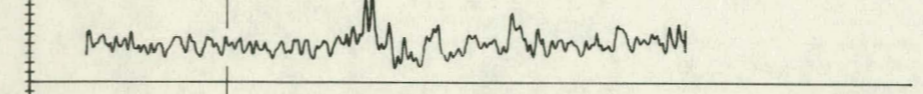
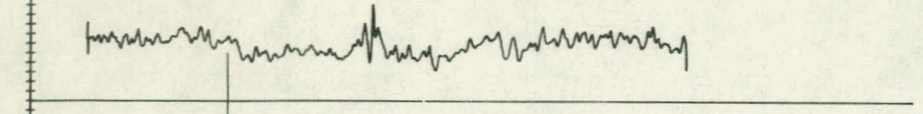
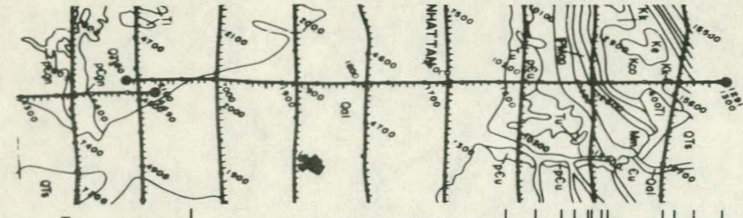
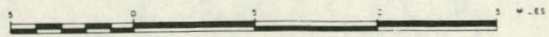
TL
10 C/S/DIV



ALT
100 FT/DIV

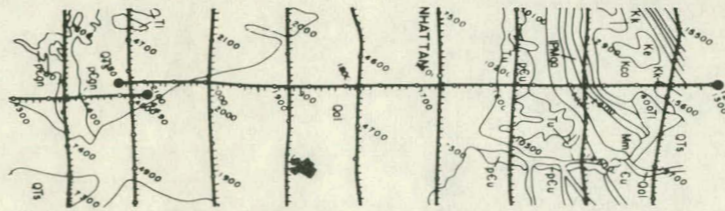
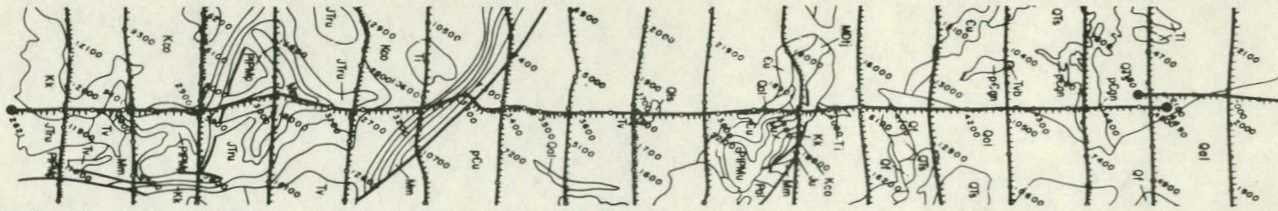


TL 4S BOZEMAN AREA



TL 4N BOZEMAN AREA

HORIZONTAL SCALE, 1:250000.



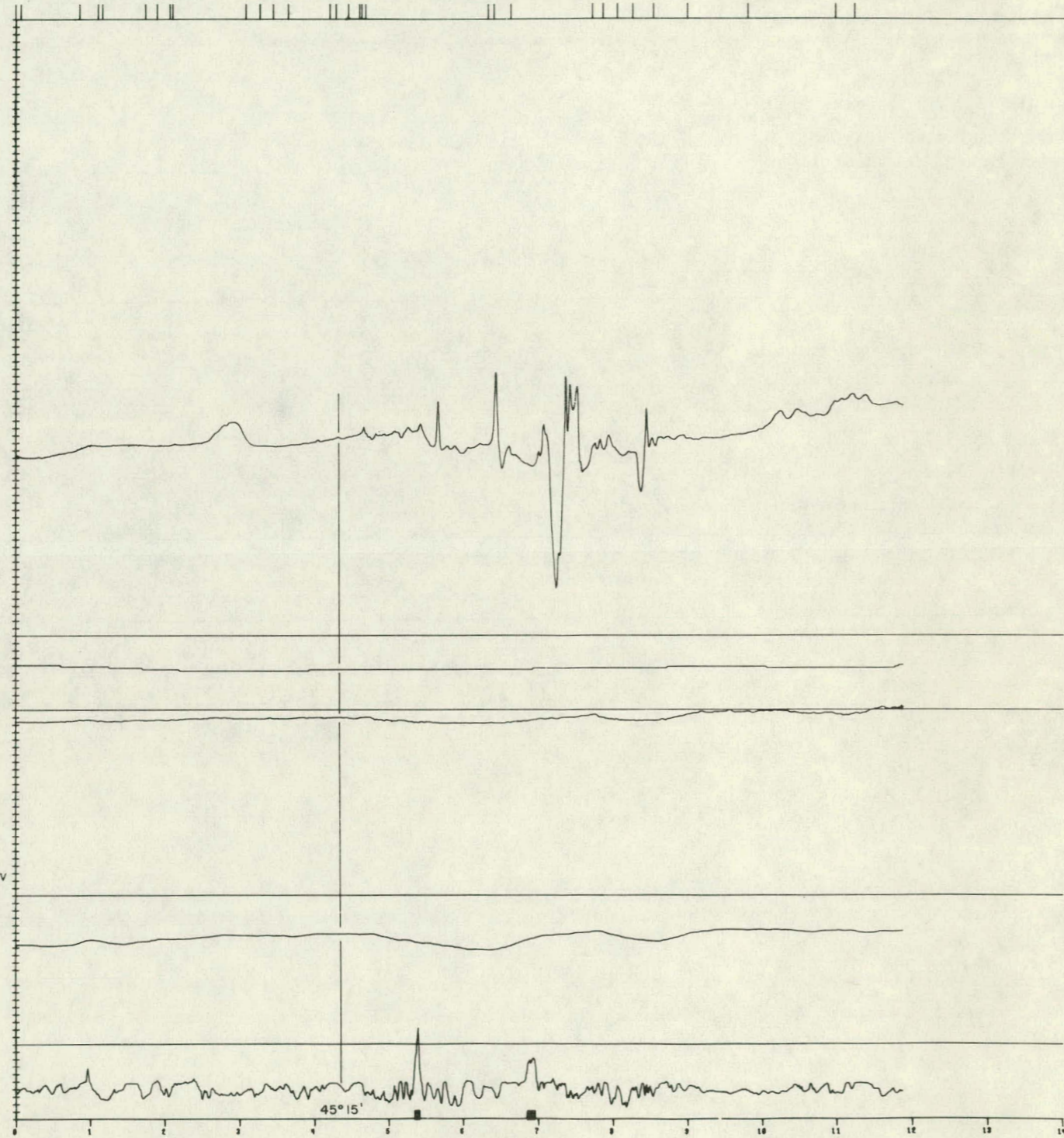
RMAG
50 GAMMA/DIV
BASE = -1500

BMAG
5 GAMMA/DIV
BASE = 56275

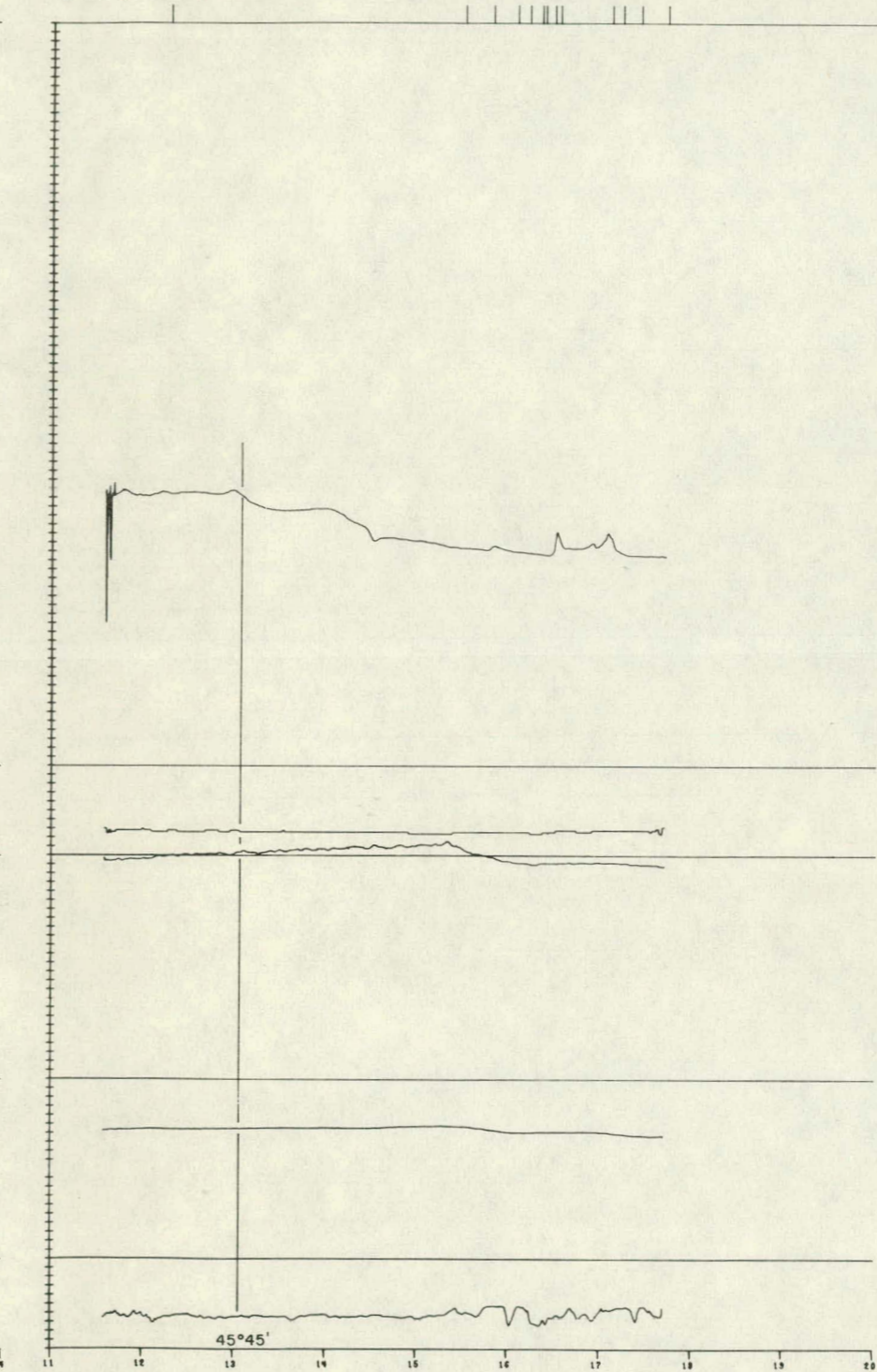
PRESSURE
0.25 IN HG/DIV
BASE = 20

TEMP
2 DEG C/DIV
BASE = -15

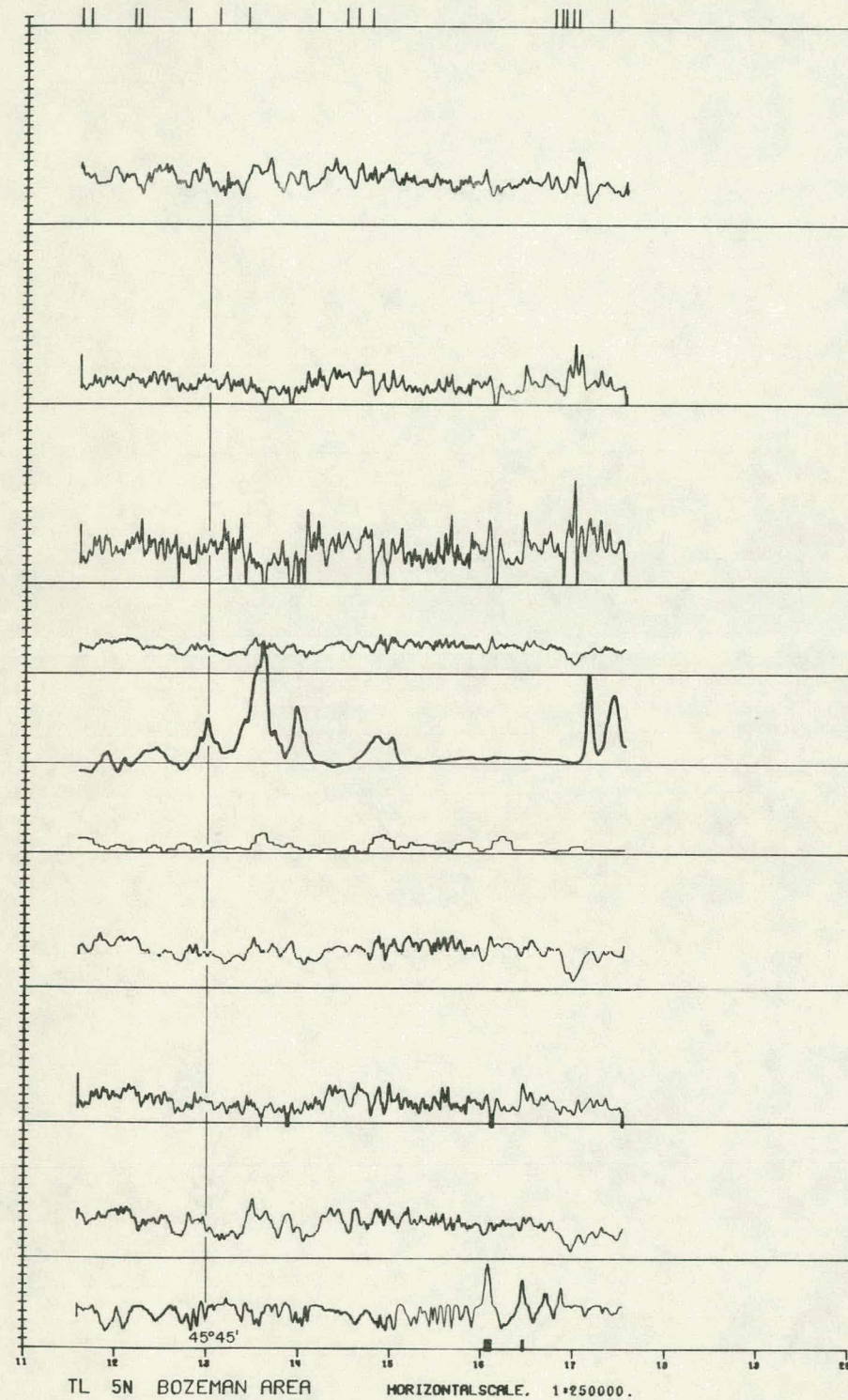
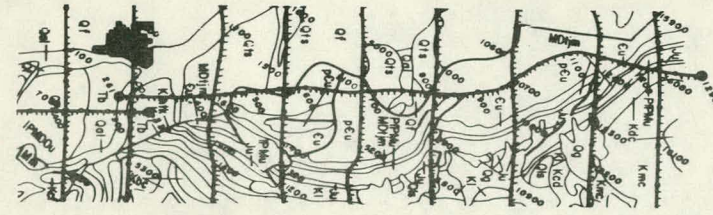
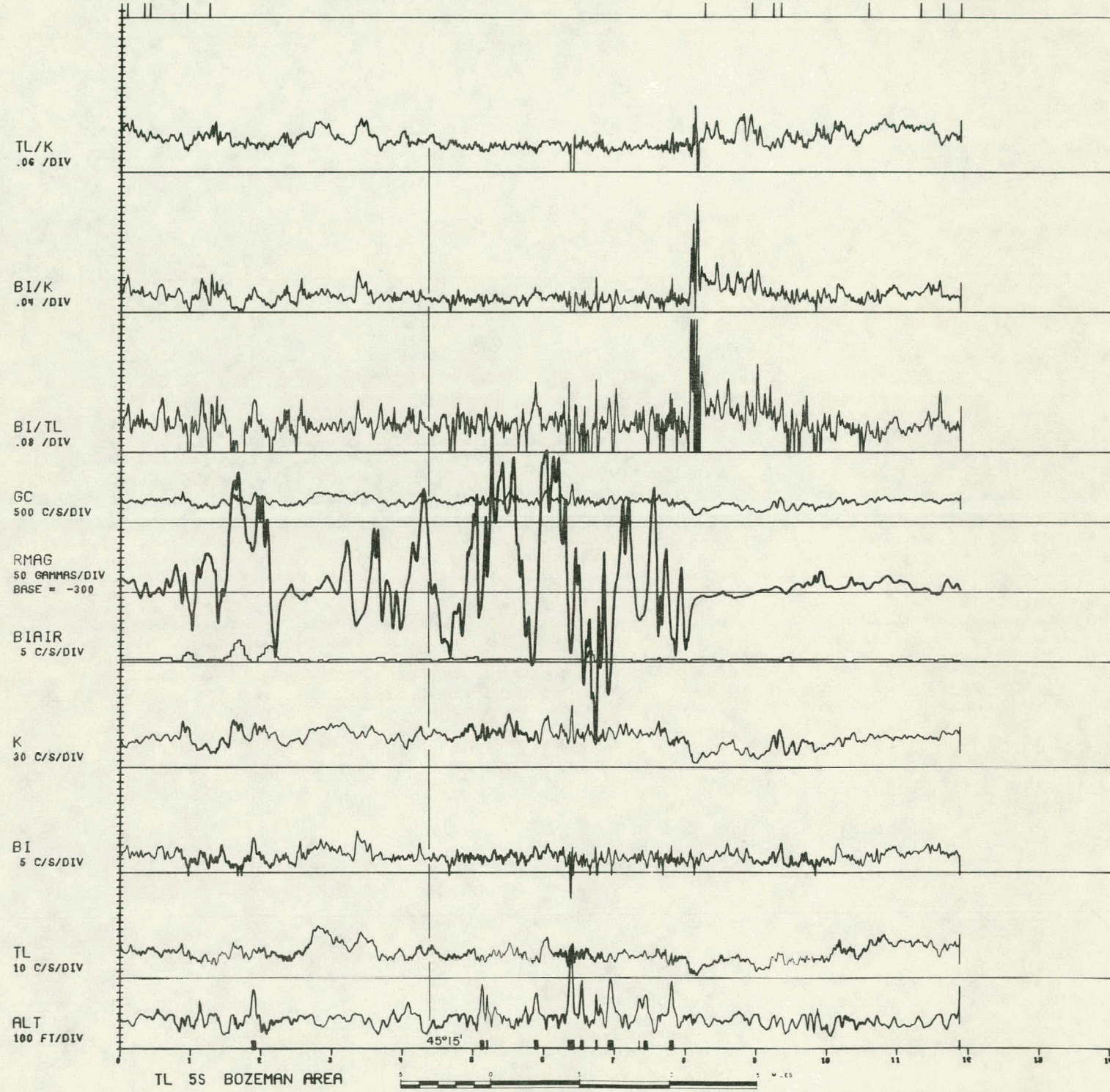
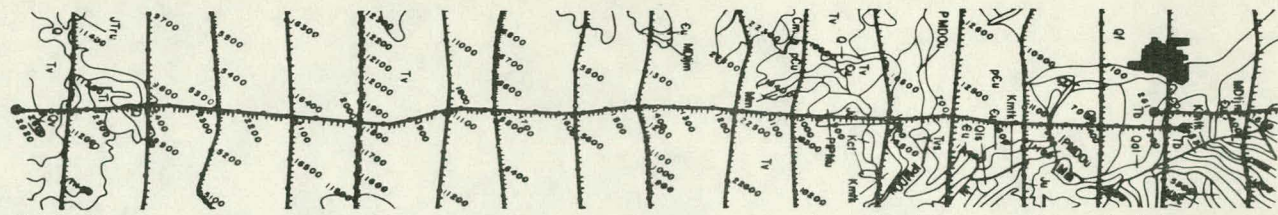
ALT
100 FT/DIV

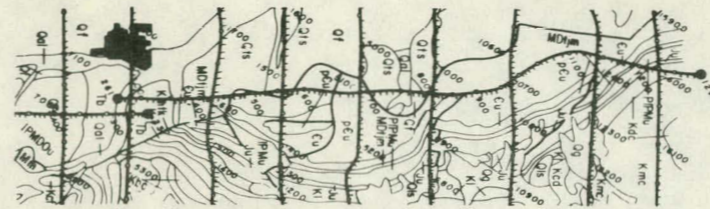
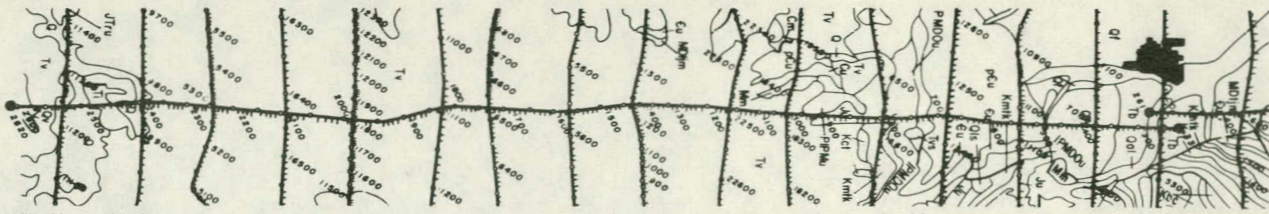


TL 4S BOZEMAN AREA



TL 4N BOZEMAN AREA





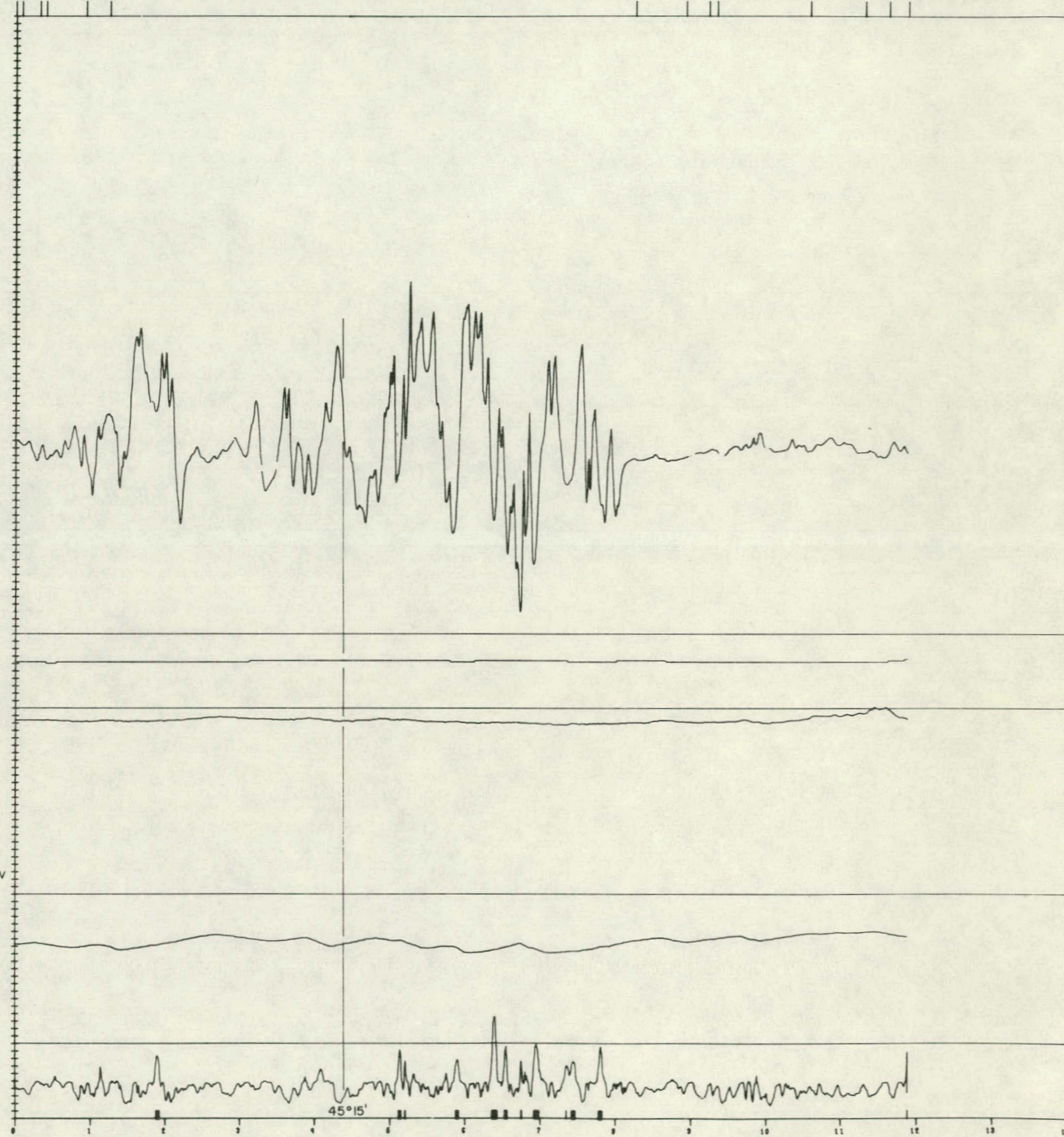
RMAG
50 GAMMA/DIV
BASE = -1500

BMAG
5 GAMMA/DIV
BASE = 56275

PRESSURE
0.25 IN HG/DIV
BASE = 20

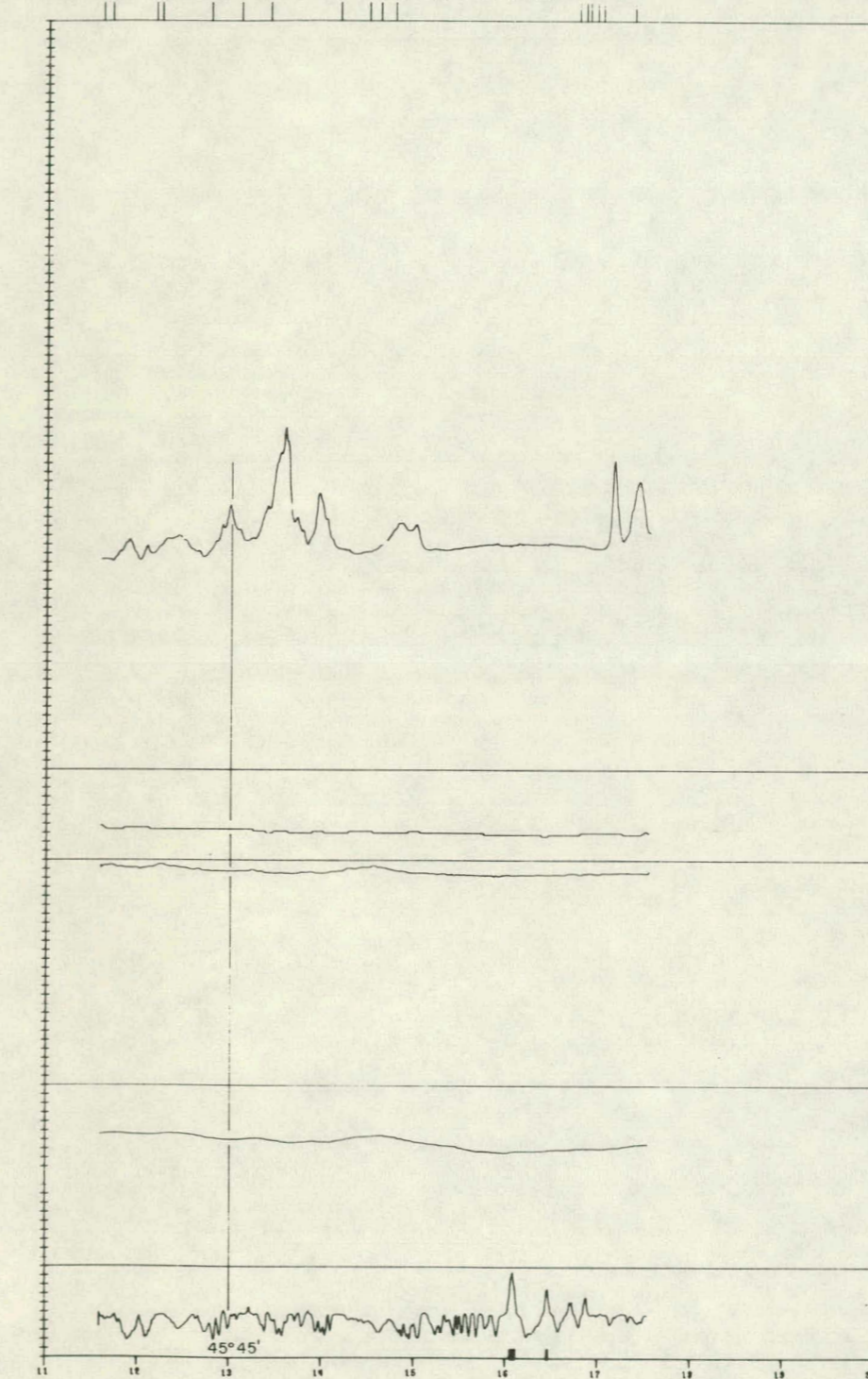
TEMP
2 DEG C/DIV
BASE = -15

ALT
100 FT/DIV



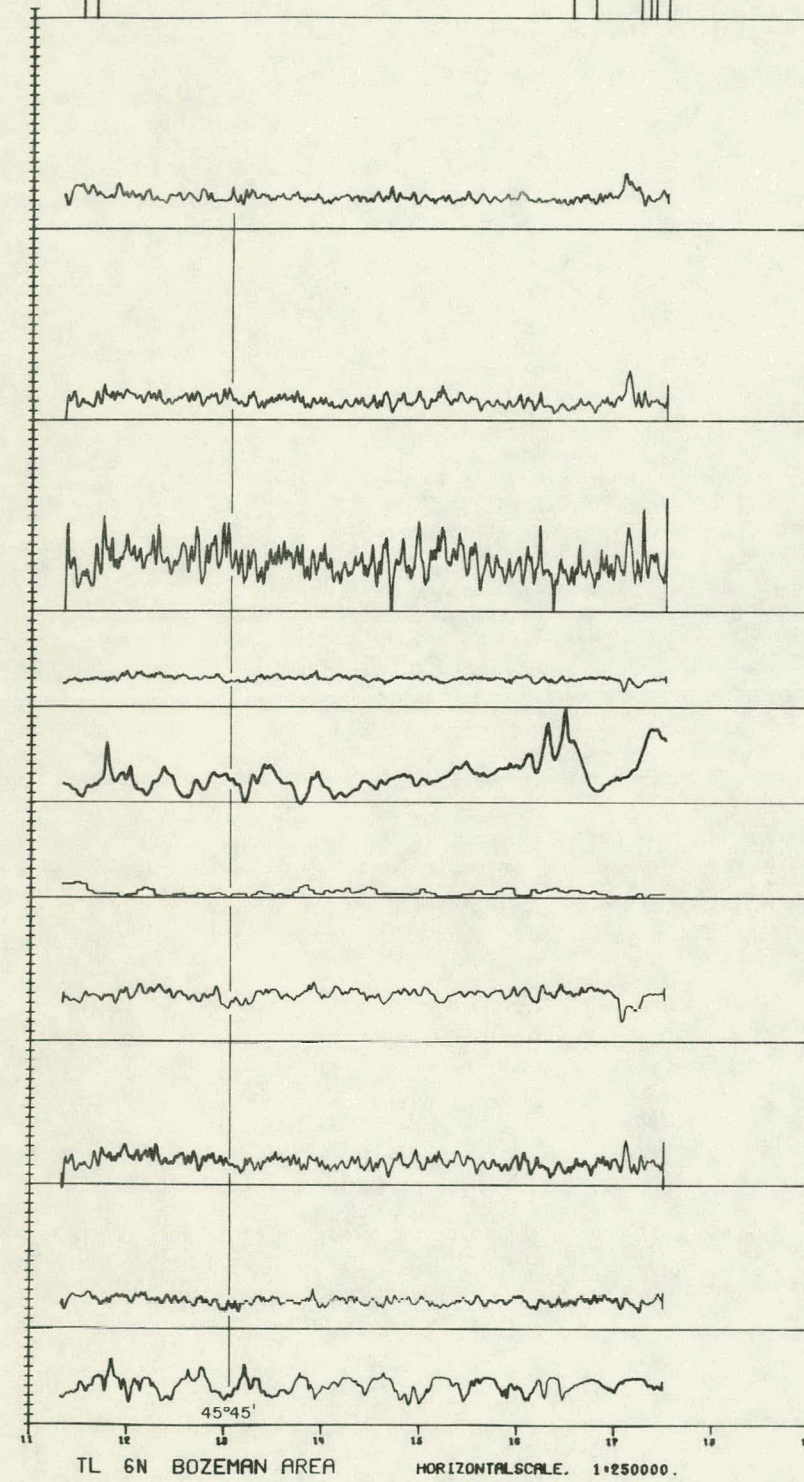
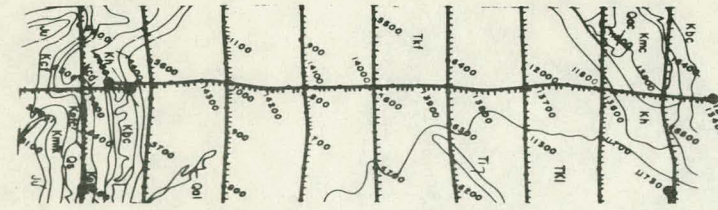
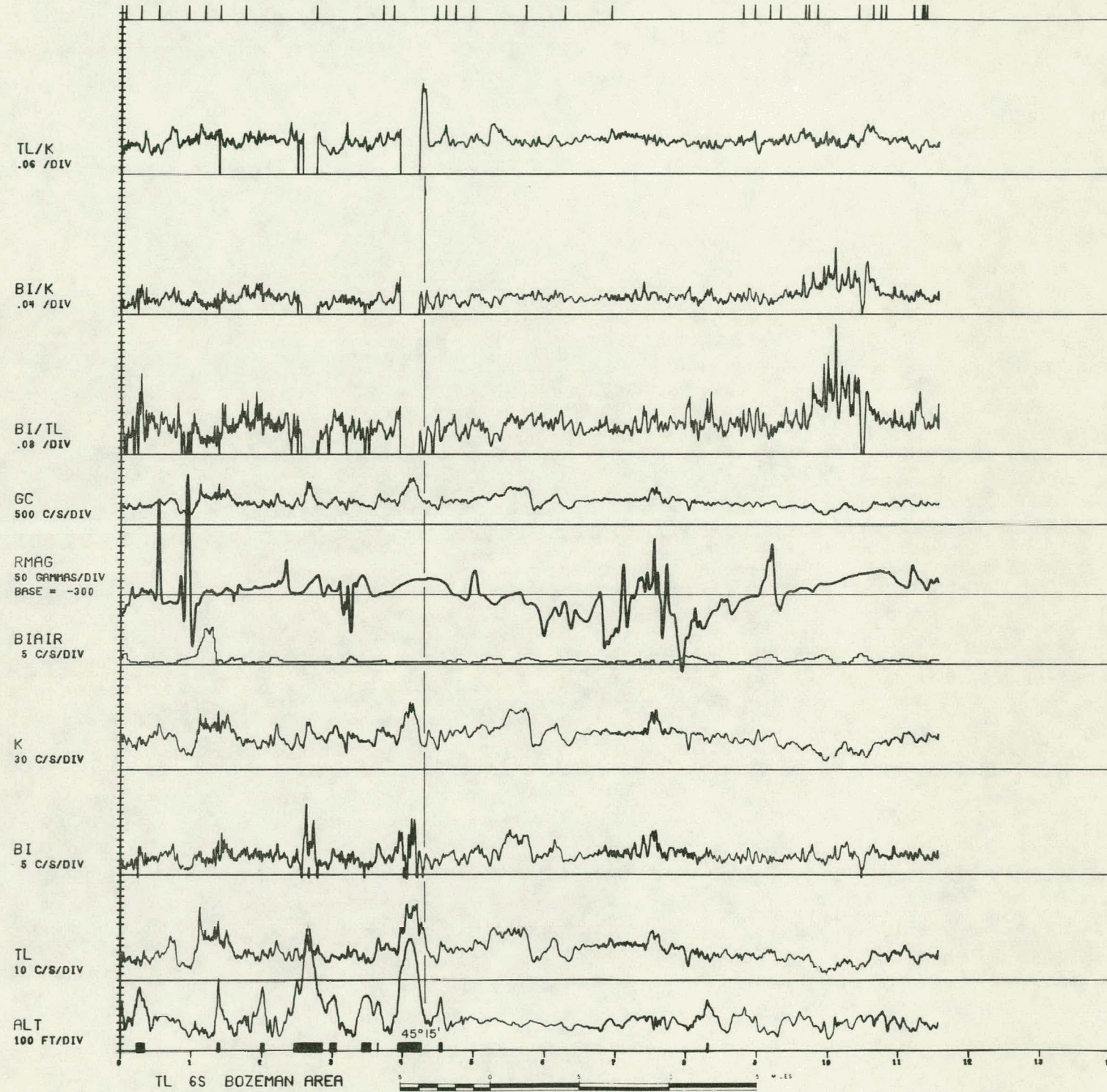
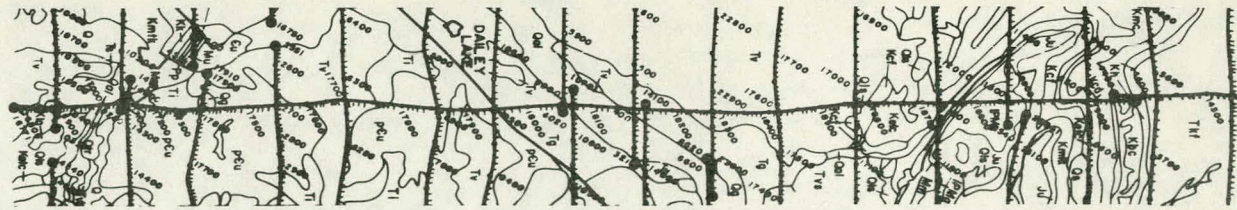
TL 5S BOZEMAN AREA

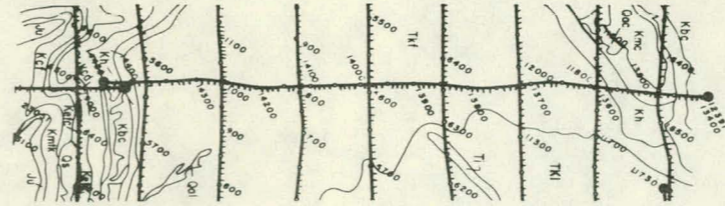
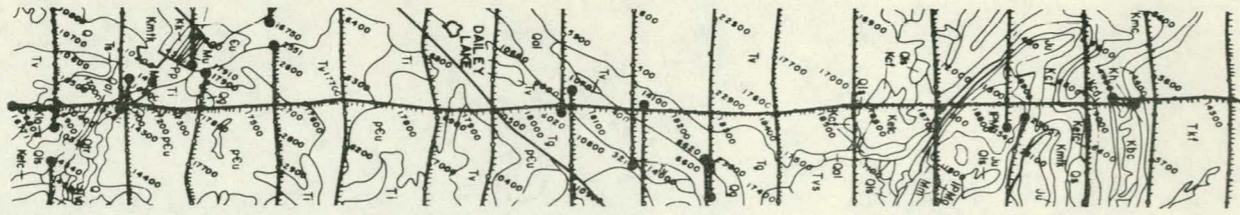
45°15'



TL 5N BOZEMAN AREA

45°45'





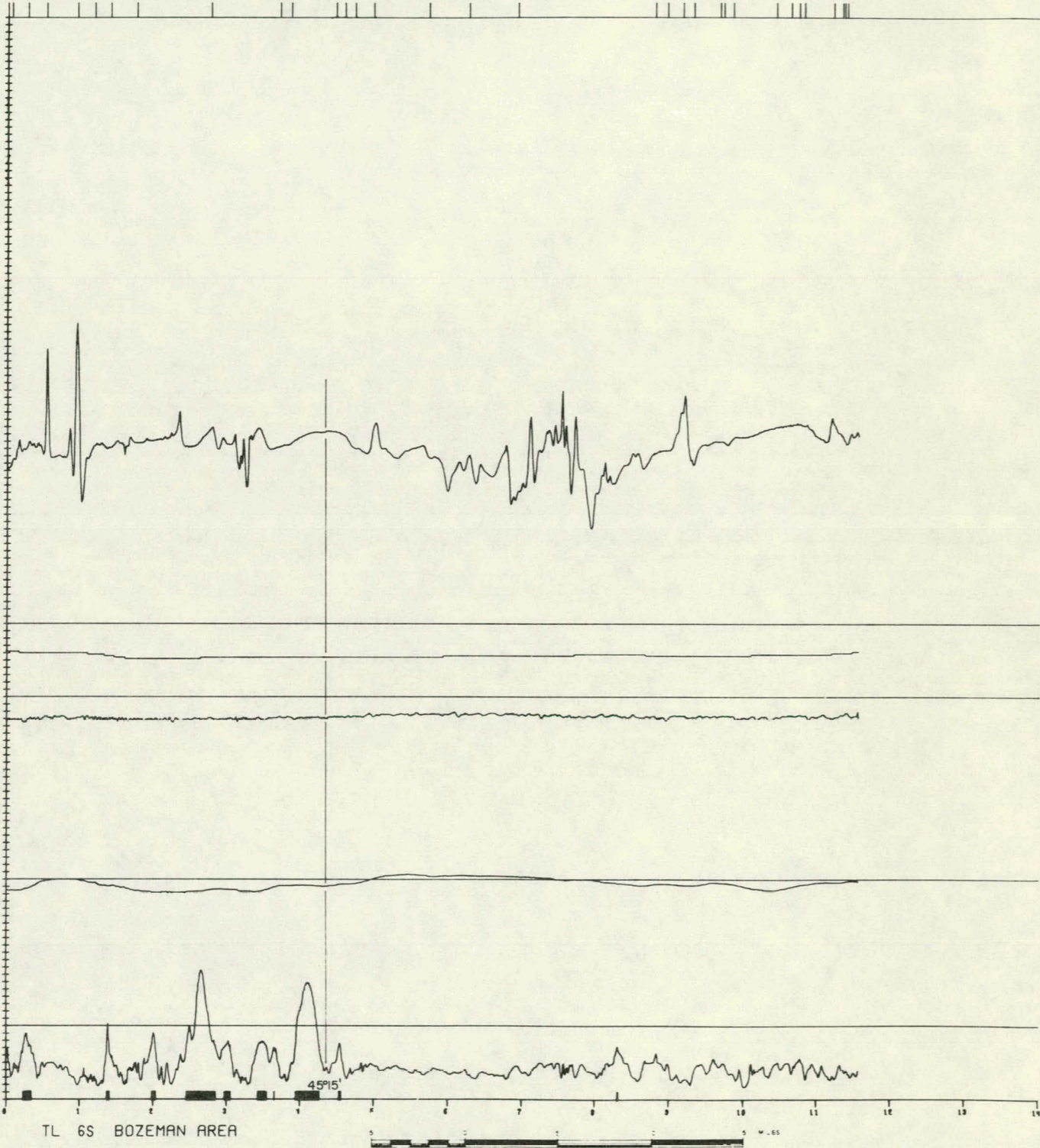
RMAG
50 GAMMA/DIV
BASE = -1500

BMAG
5 GAMMA/DIV
BASE = 56275

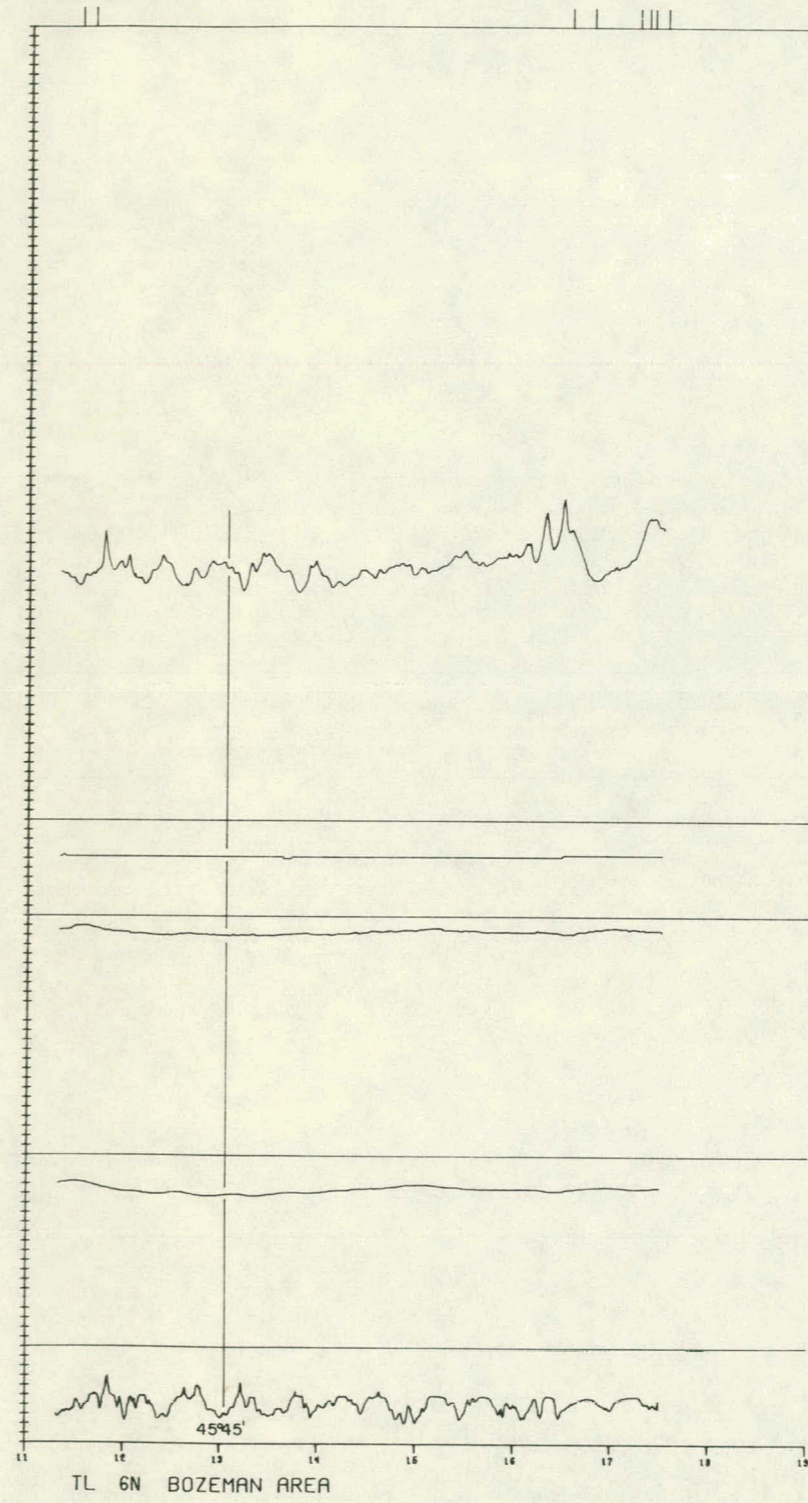
PRESSURE
0.25 IN HG/DIV
BASE = 20

TEMP
2 DEG C/DIV
BASE = -15

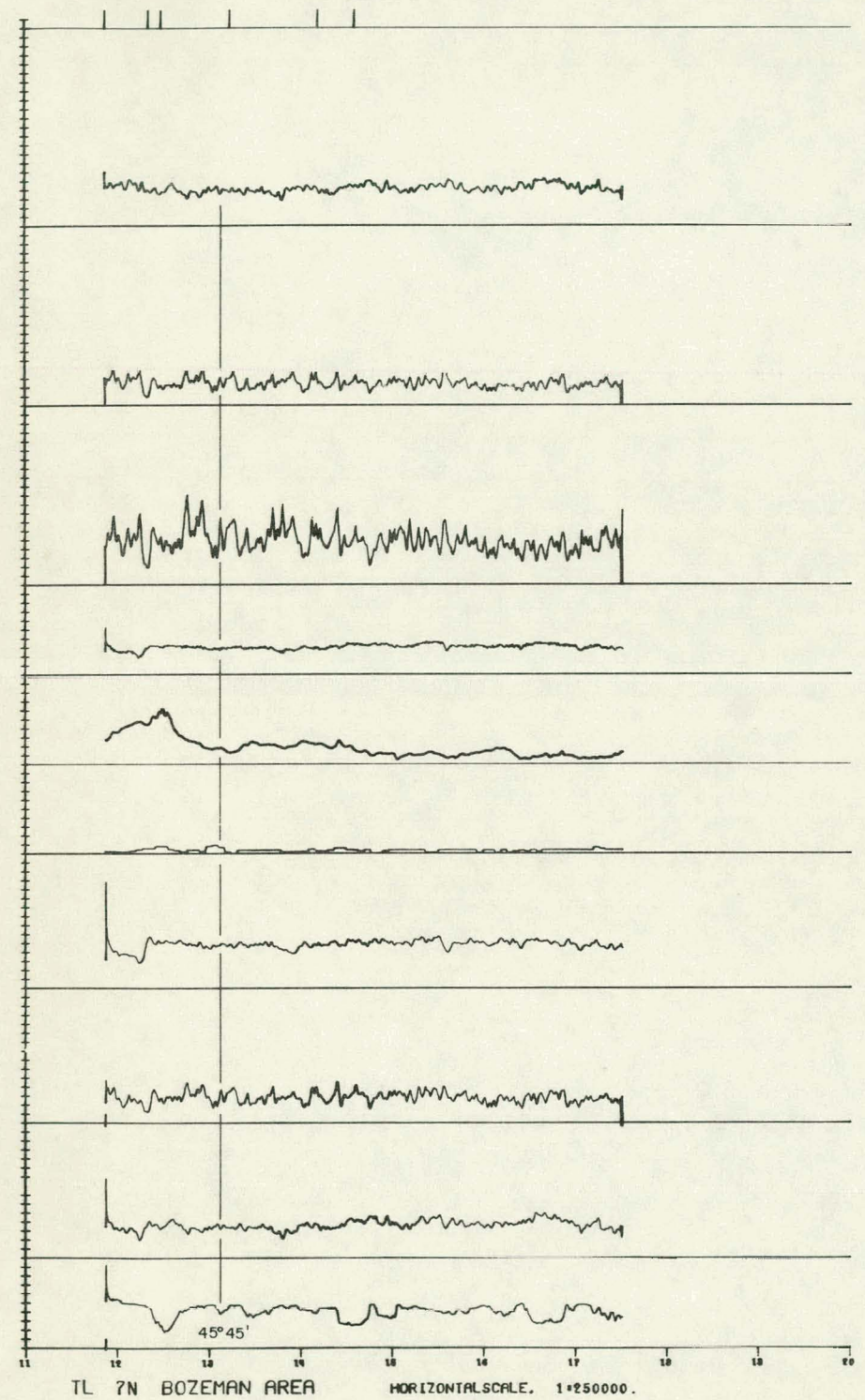
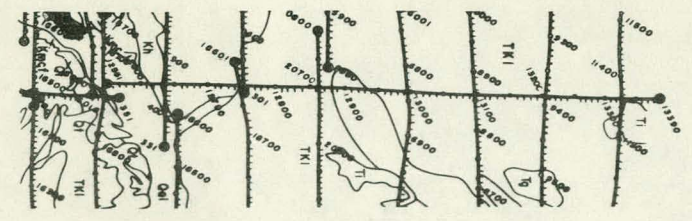
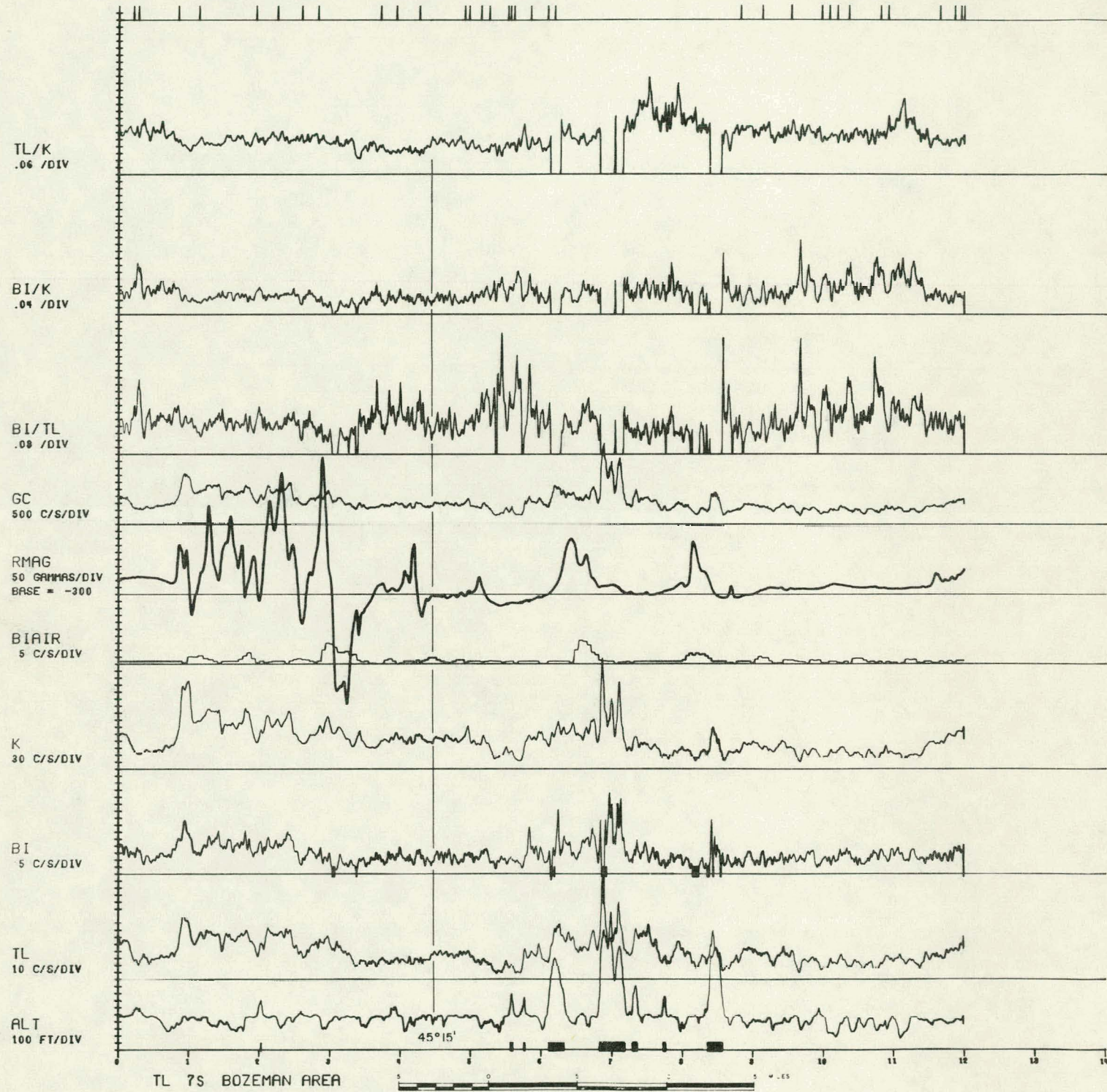
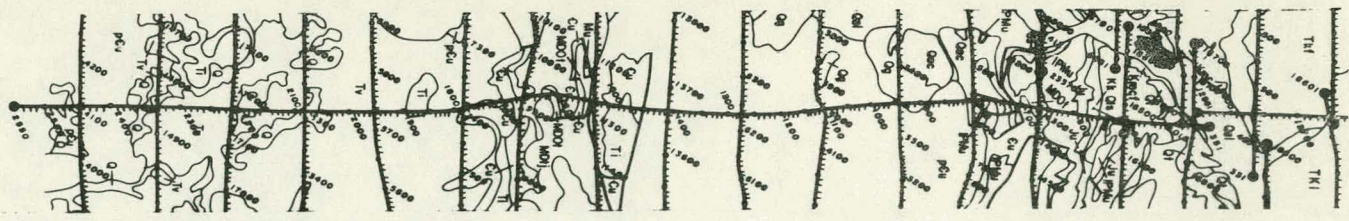
ALT
100 FT/DIV

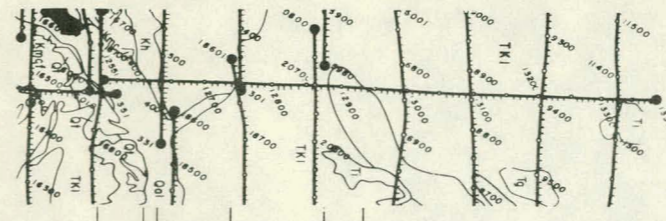
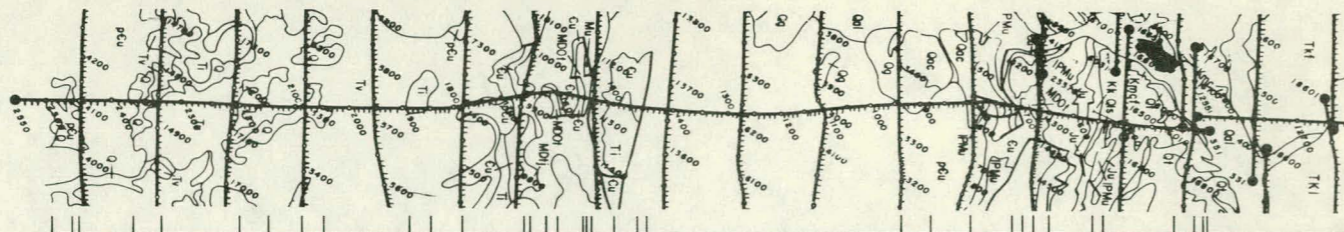


TL 6S BOZEMAN AREA



TL 6N BOZEMAN AREA





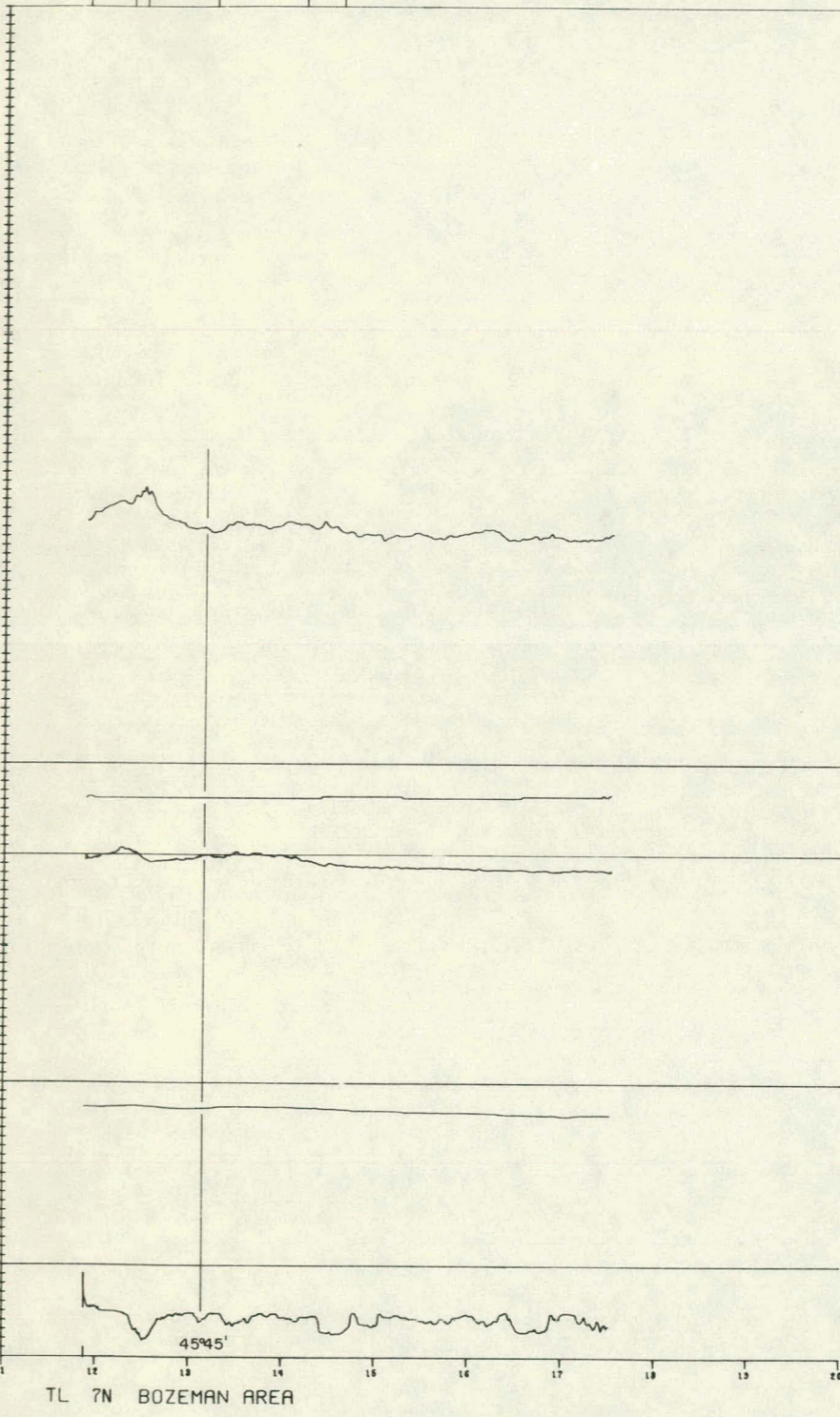
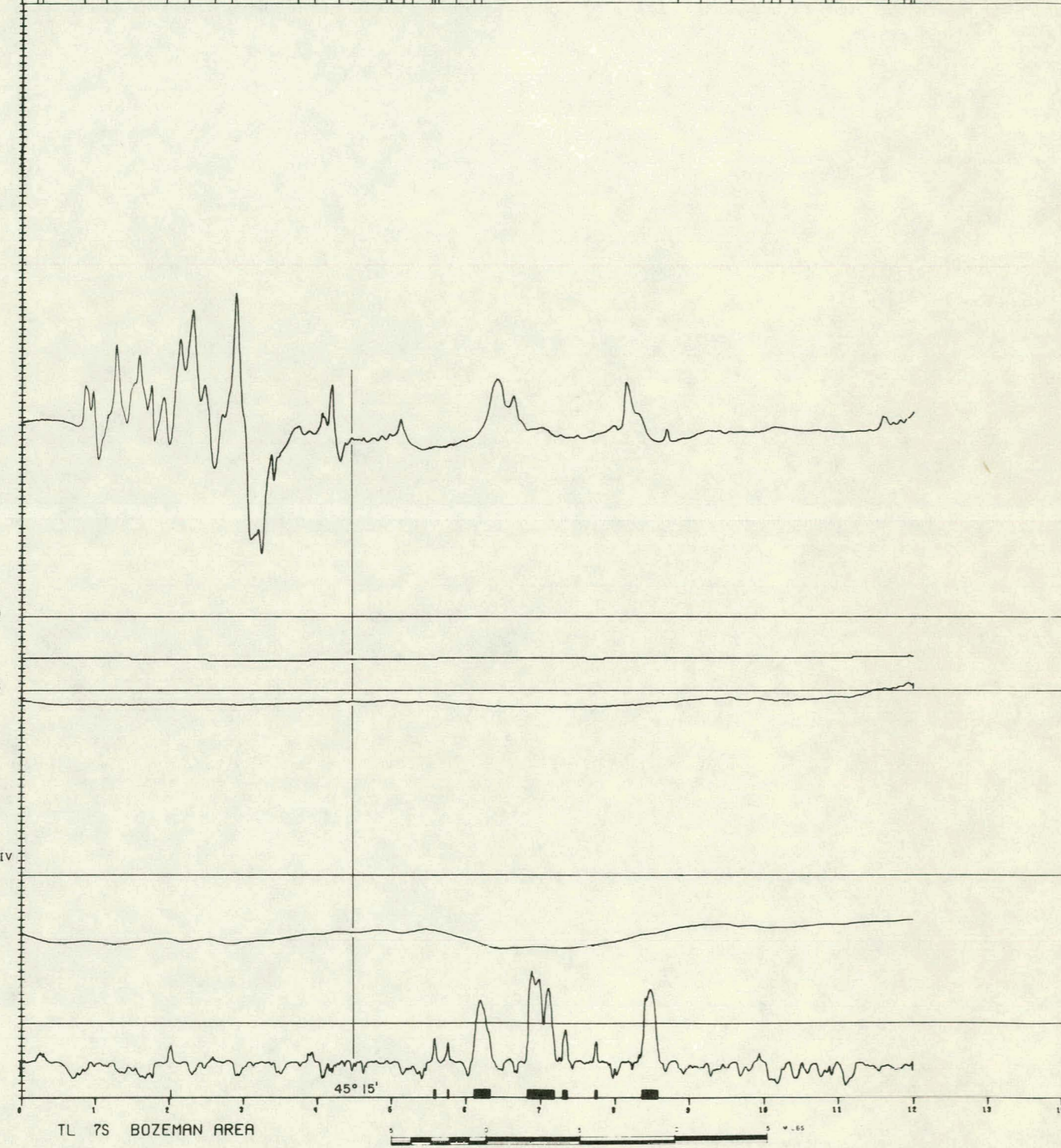
RMAG
50 GAMMA/DIV
BASE = -1500

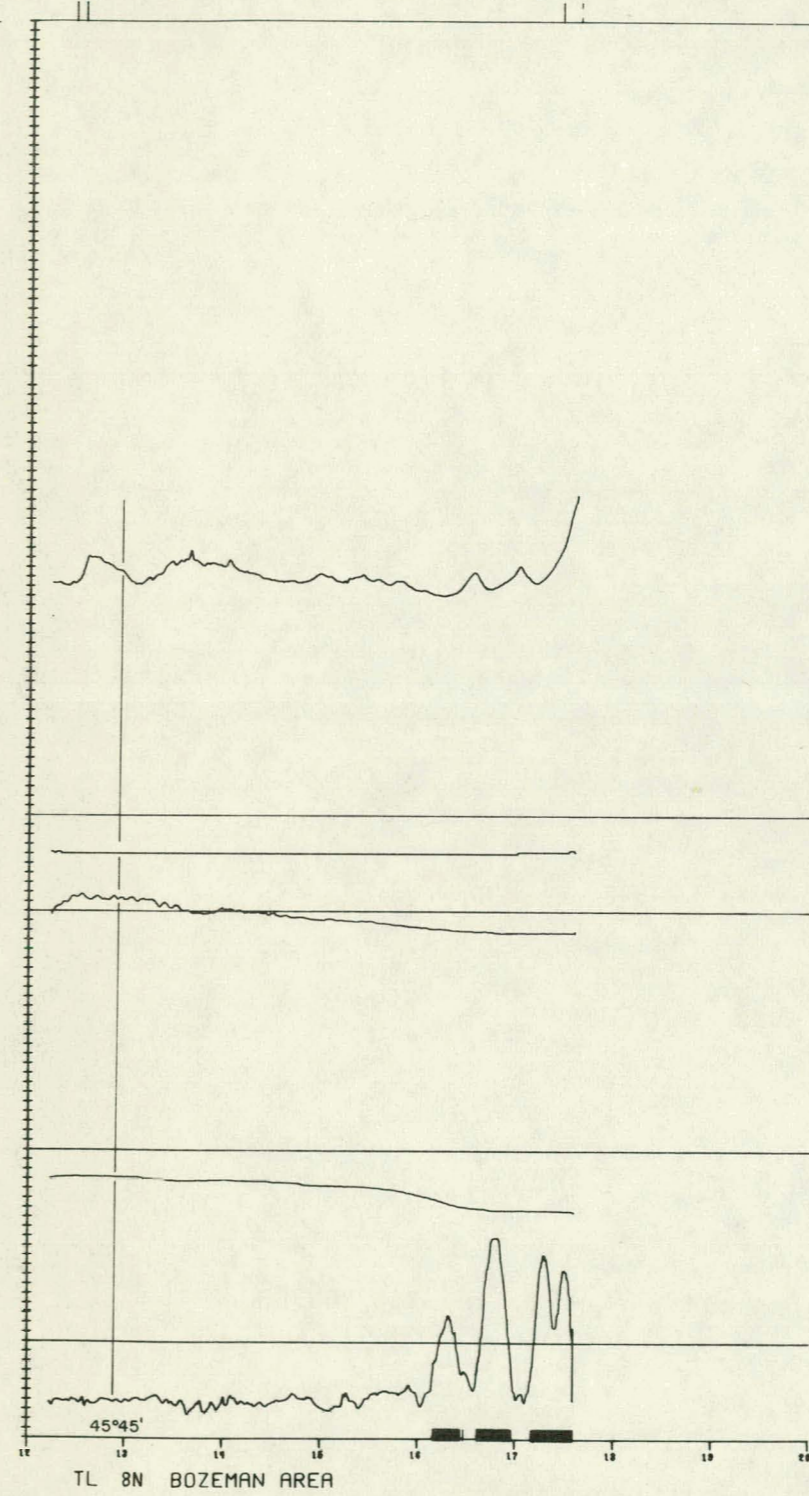
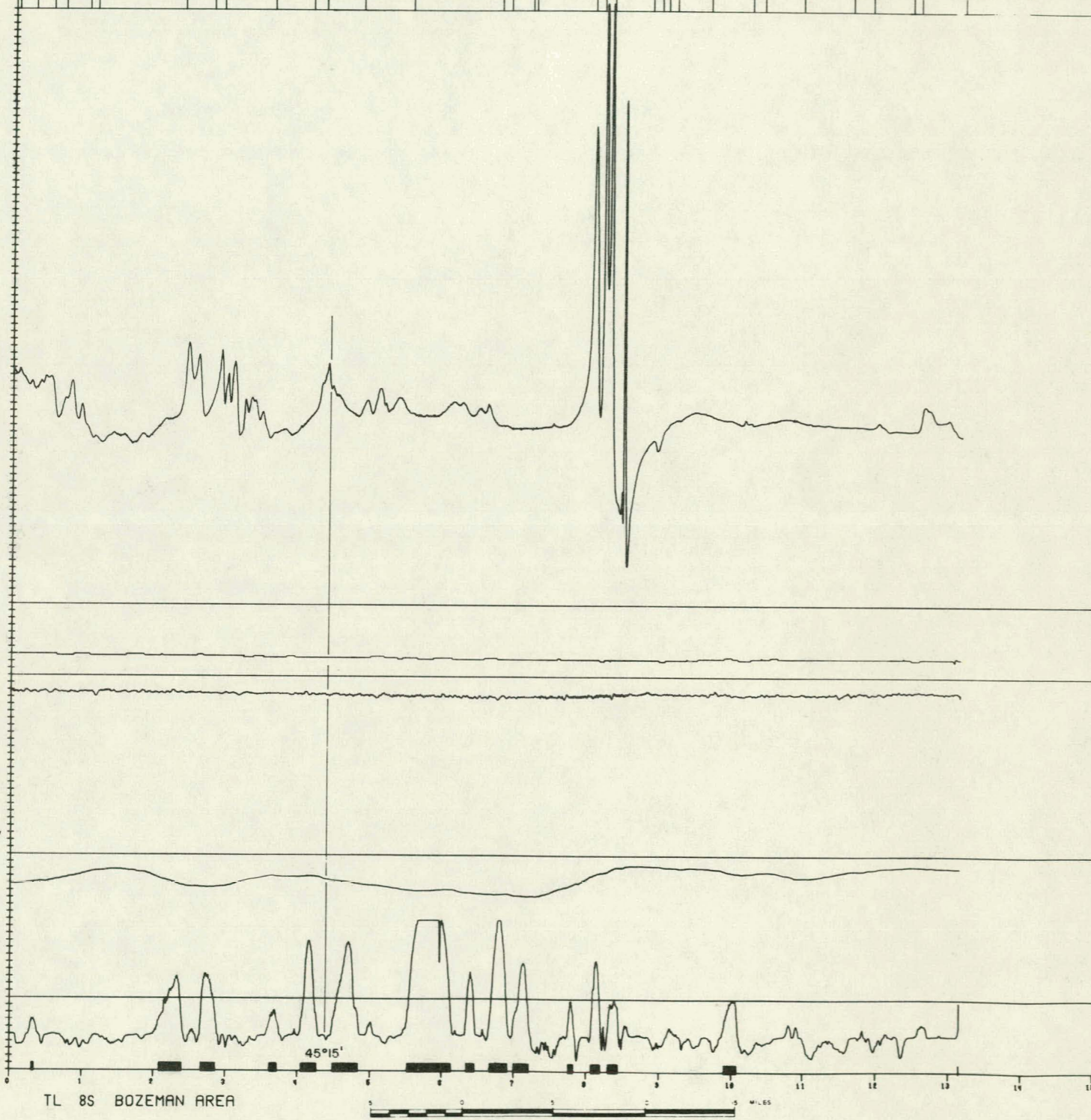
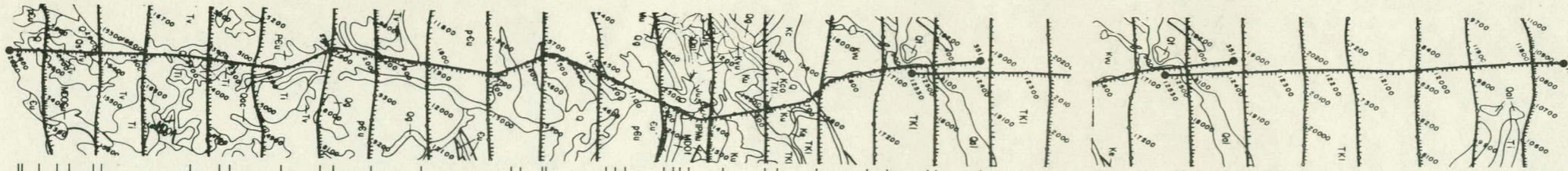
BMAG
5 GAMMA/DIV
BASE = 56275

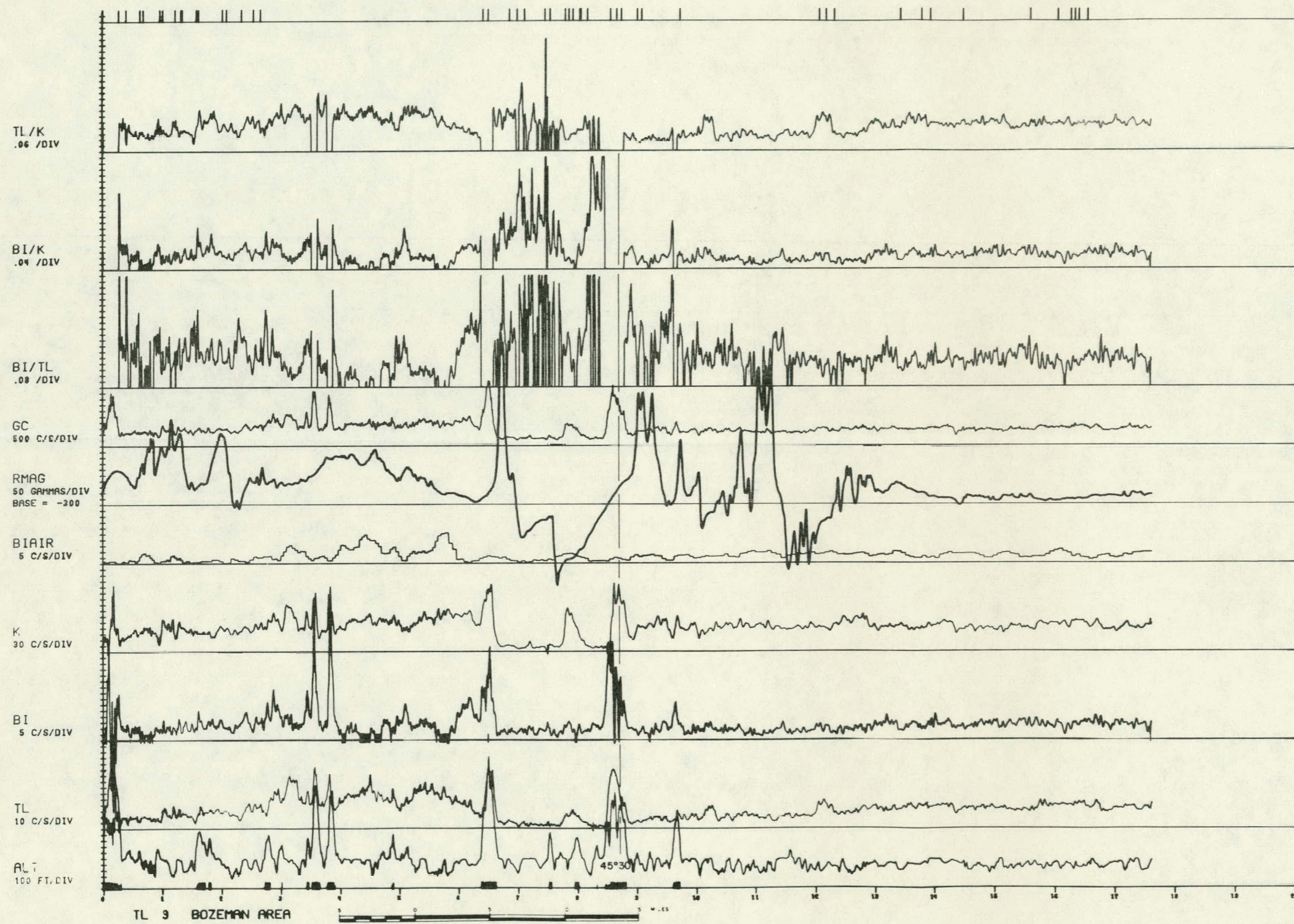
PRESSURE
0.25 IN HG/DIV
BASE = 20

TEMP
2 DEG C/DIV
BASE = -15

ALT
100 FT/DIV







TL 9 BOZEMAN AREA

45°30'

