

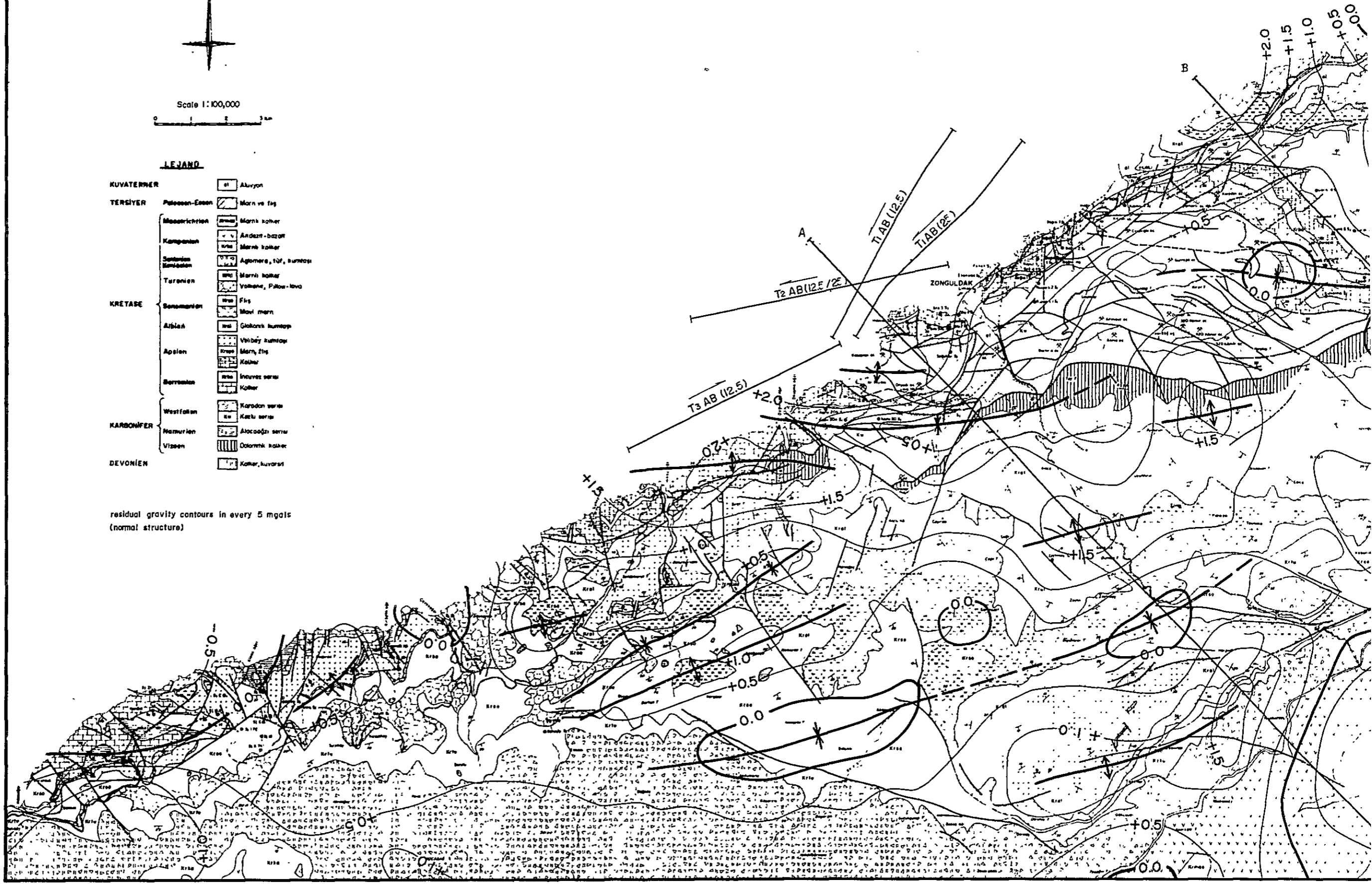


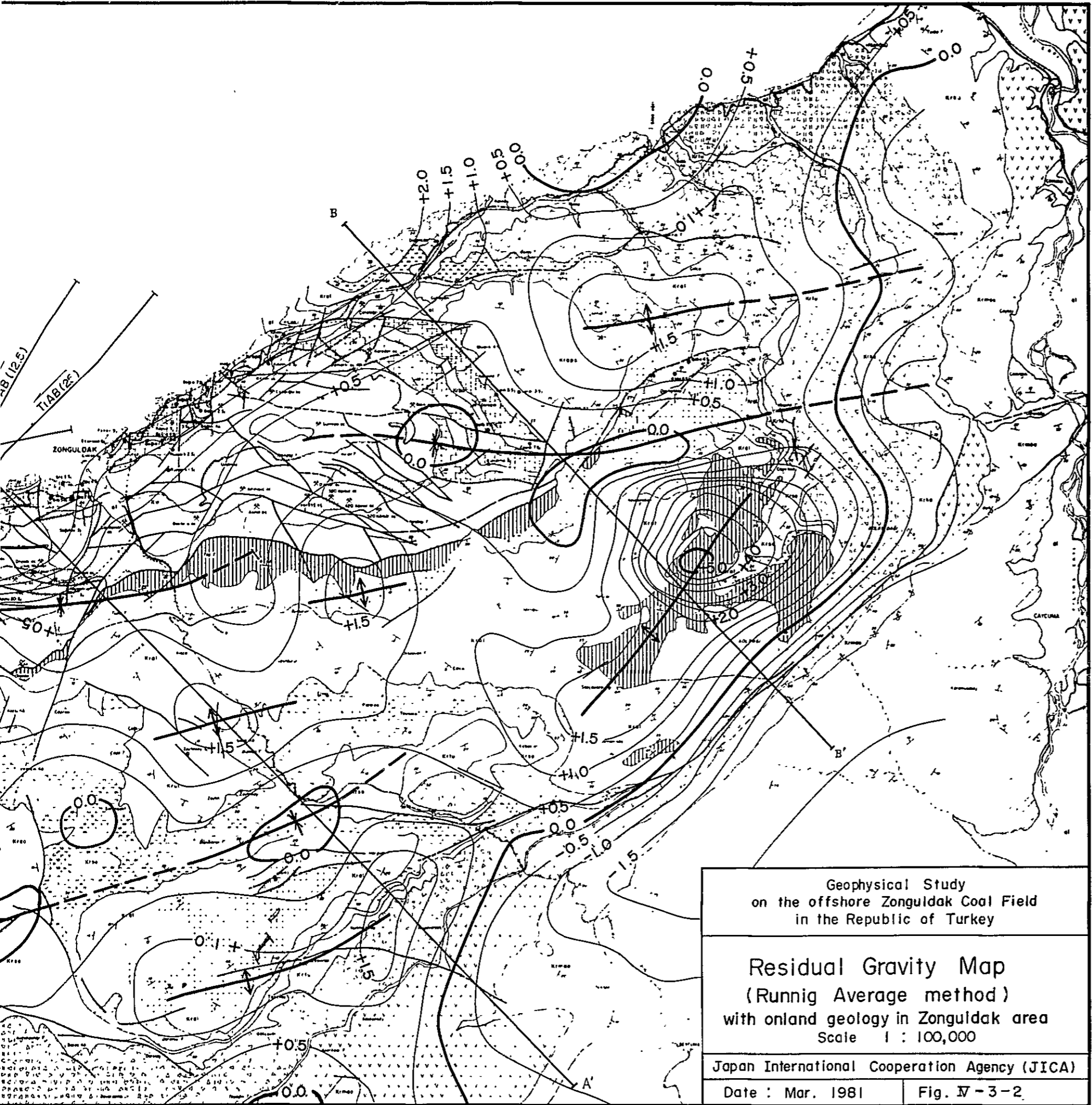
Scale 1:100,000

LEJAND

KUVATERNER		Alluvion
TERSIYER		Marn ve fit
Mesozoikron		Marni kalker
Kampanien		Andazit-bazalt
		Marni kalker
Sarmatien		Agornere, tuf, kumtaşı
Turonien		Marni kalker
		Volbani, Pilloz-lava
KRETASE		Fiks
Sonomanien		Mavi marn
Albien		Globokis kumtaşı
Apsien		Vilyey kumtaşı
		Marni fit
		Kalker
Berrioman		Inceves seris
		Kalker
Westfalien		Karaden seris
		Kalku seris
KARBONIFER		Alaçozlu seris
		Osmanli kalker
DEVONIEN		Kalker, kumtaşı

residual gravity contours in every 5 mgals
(normal structure)





Geophysical Study
 on the offshore Zonguldak Coal Field
 in the Republic of Turkey

Residual Gravity Map
 (Runnig Average method)
 with onland geology in Zonguldak area
 Scale 1 : 100,000

Japan International Cooperation Agency (JICA)
 Date : Mar. 1981 Fig. IV-3-2

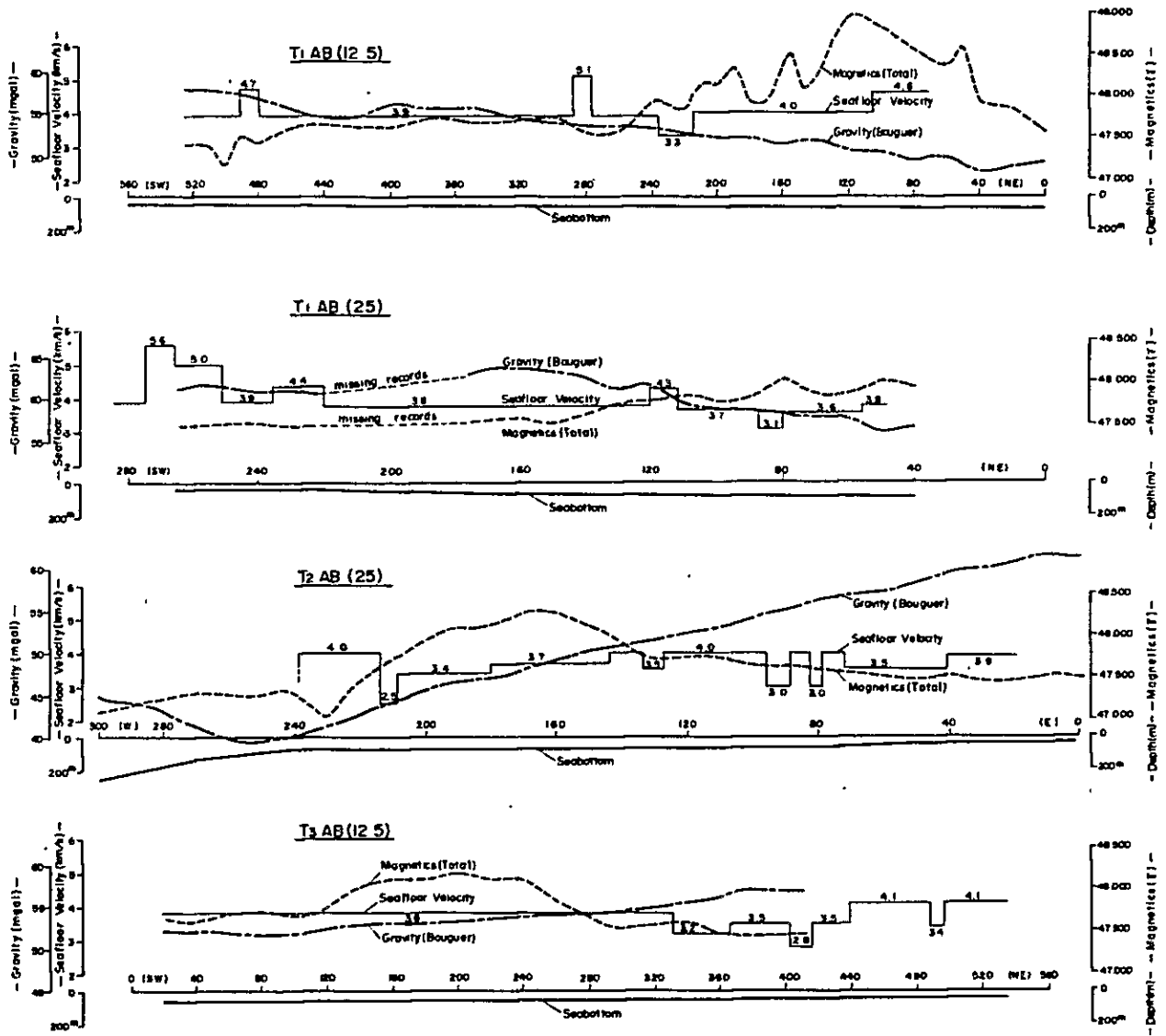
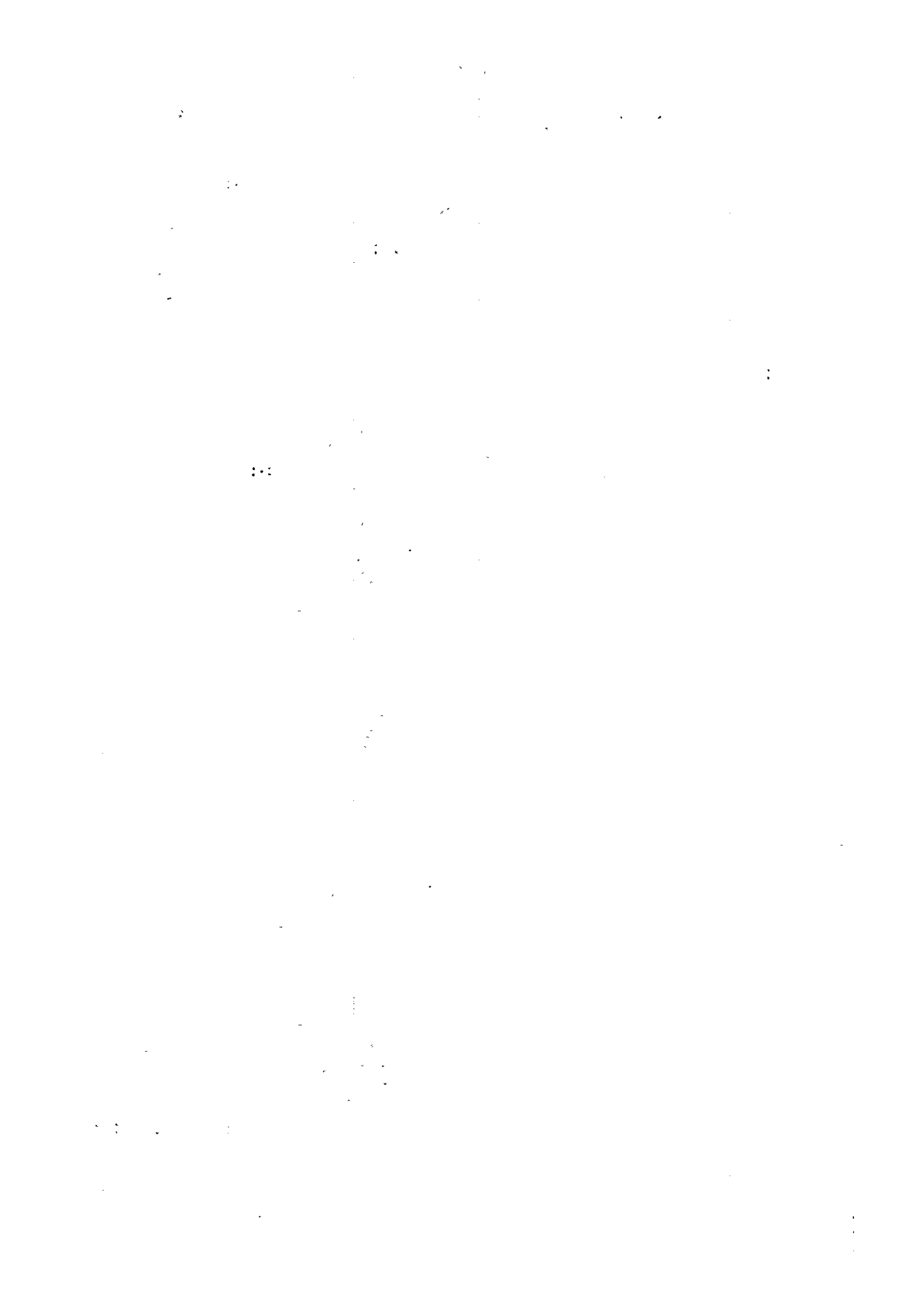
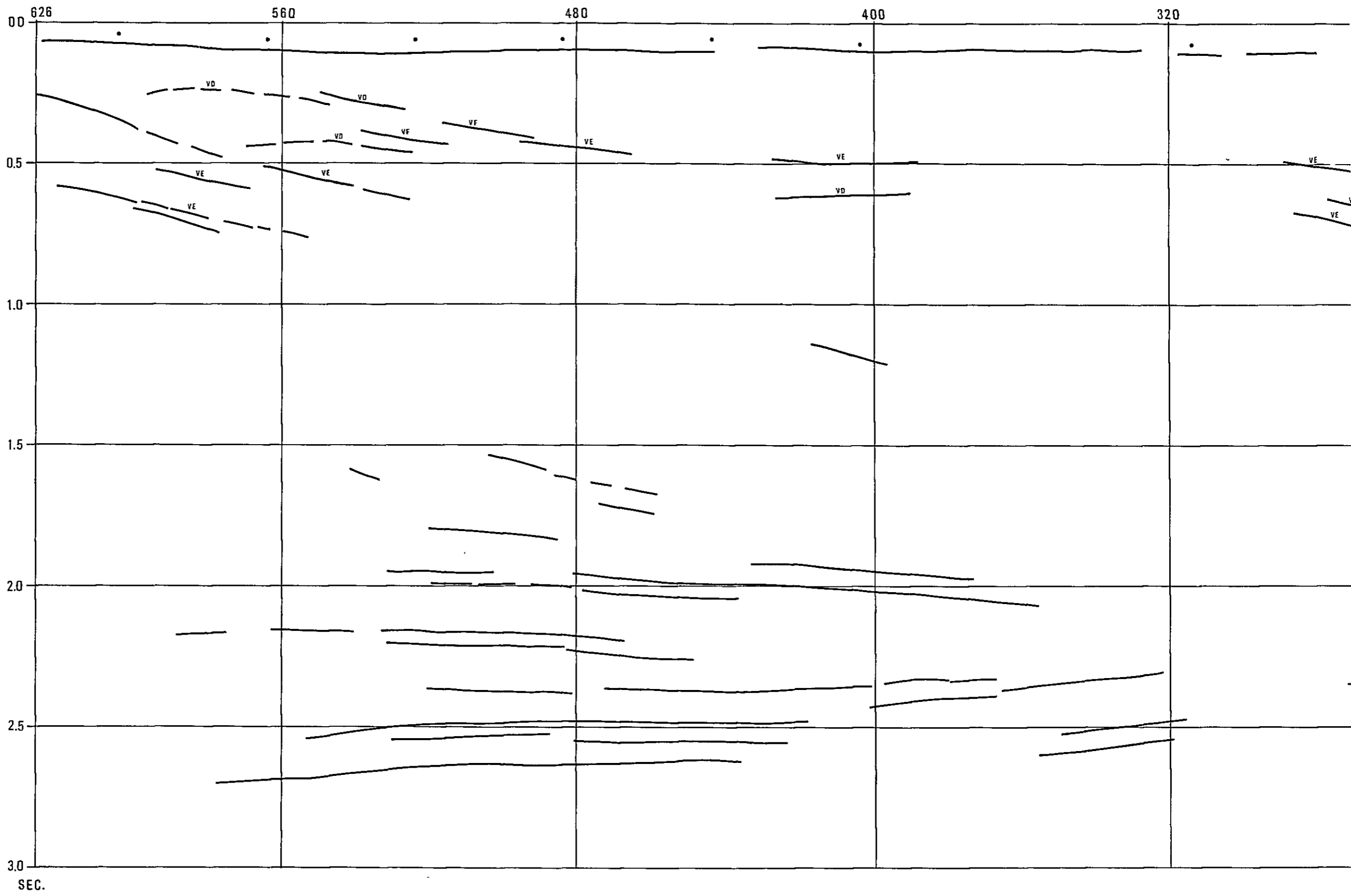
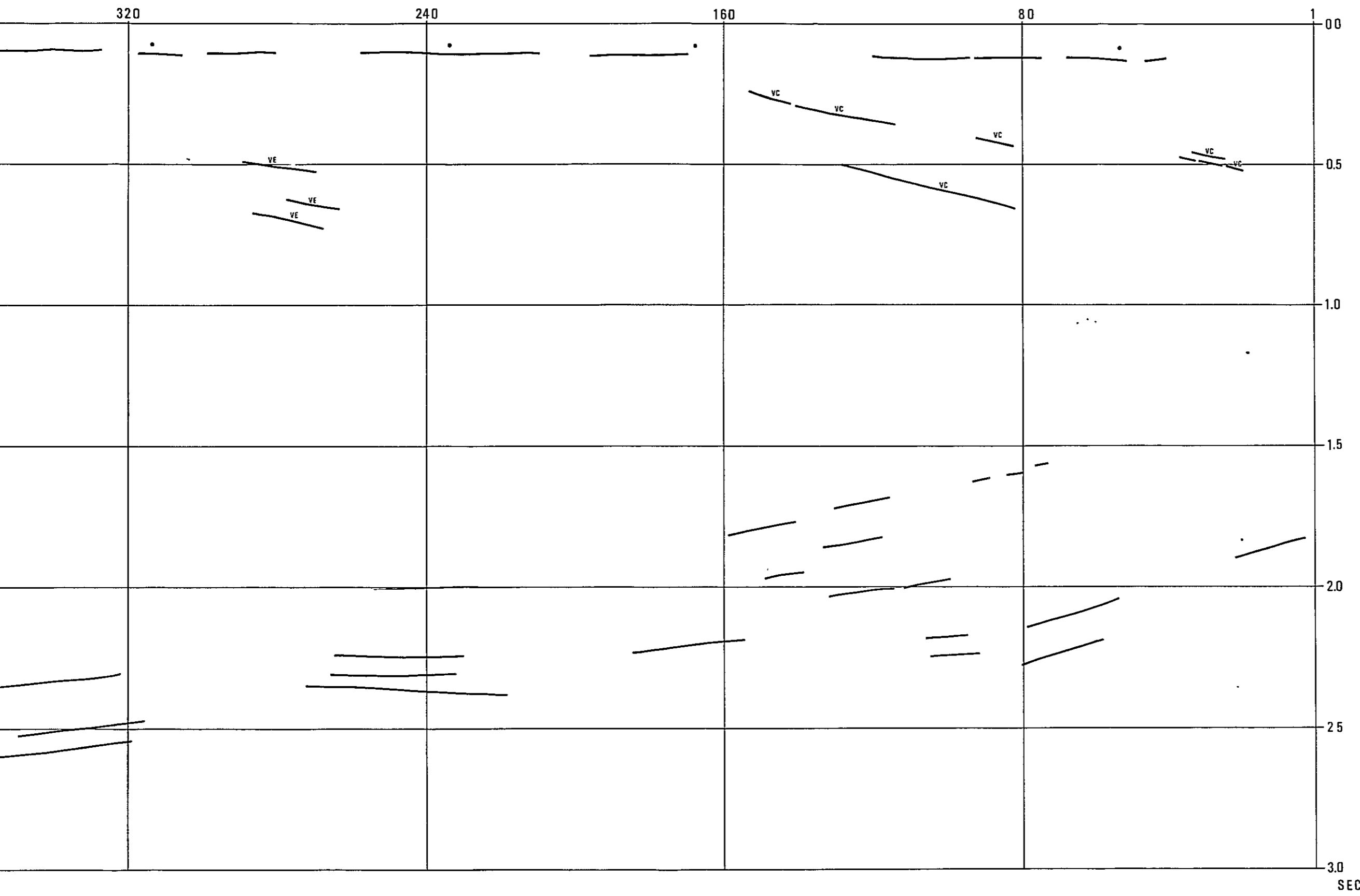
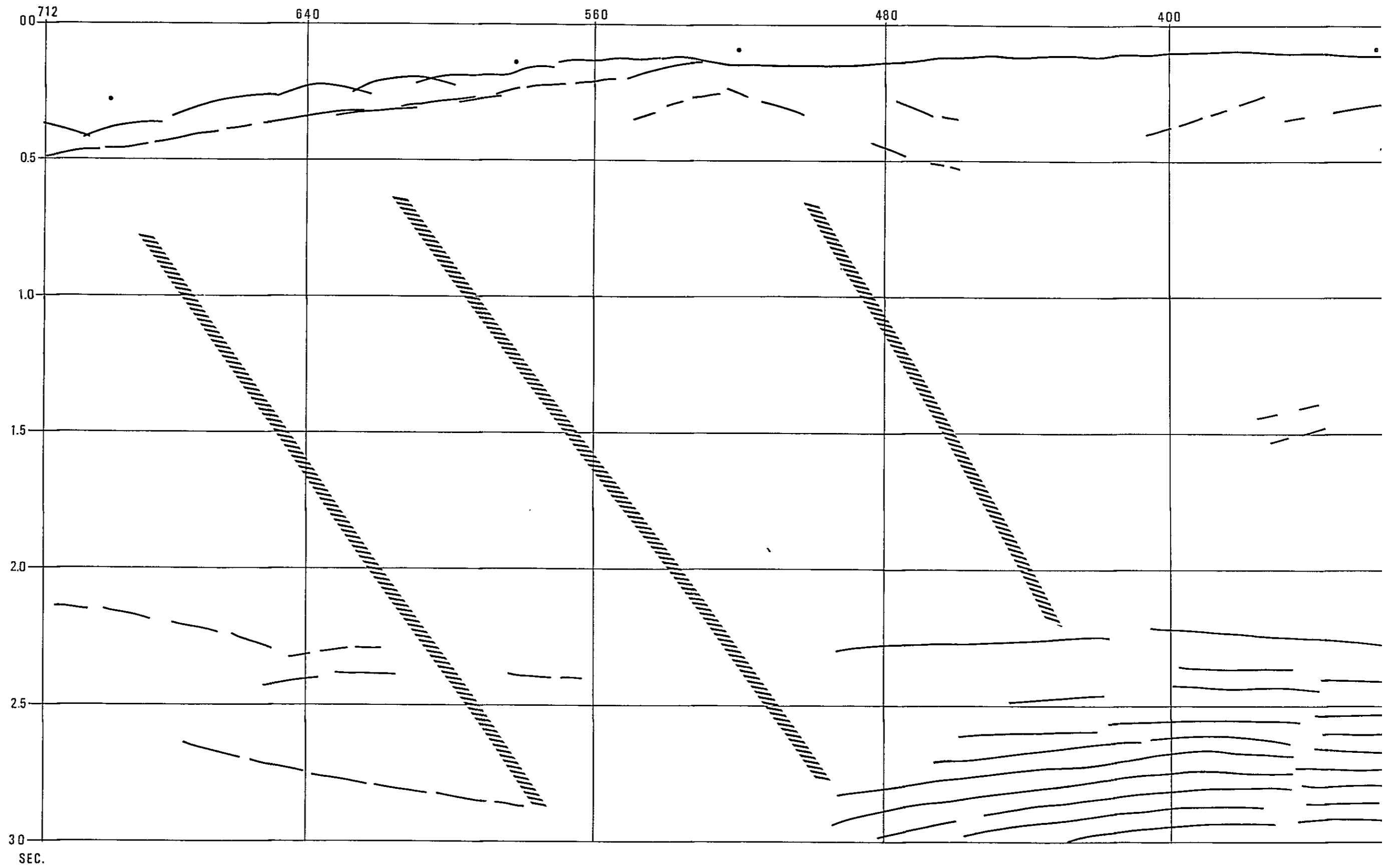


Fig.IV-4-1 Geophysical Profiles along Offshore Survey Lines

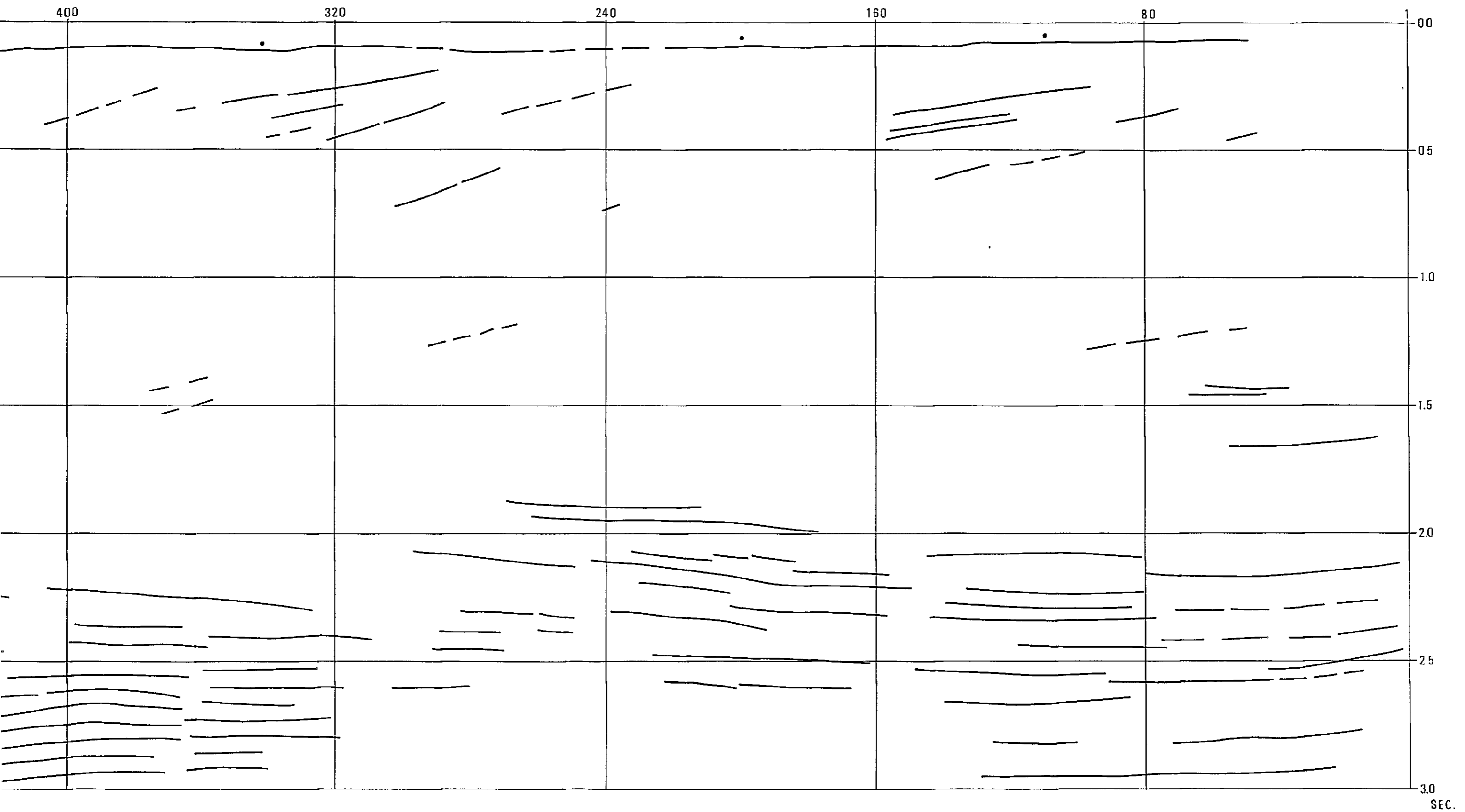


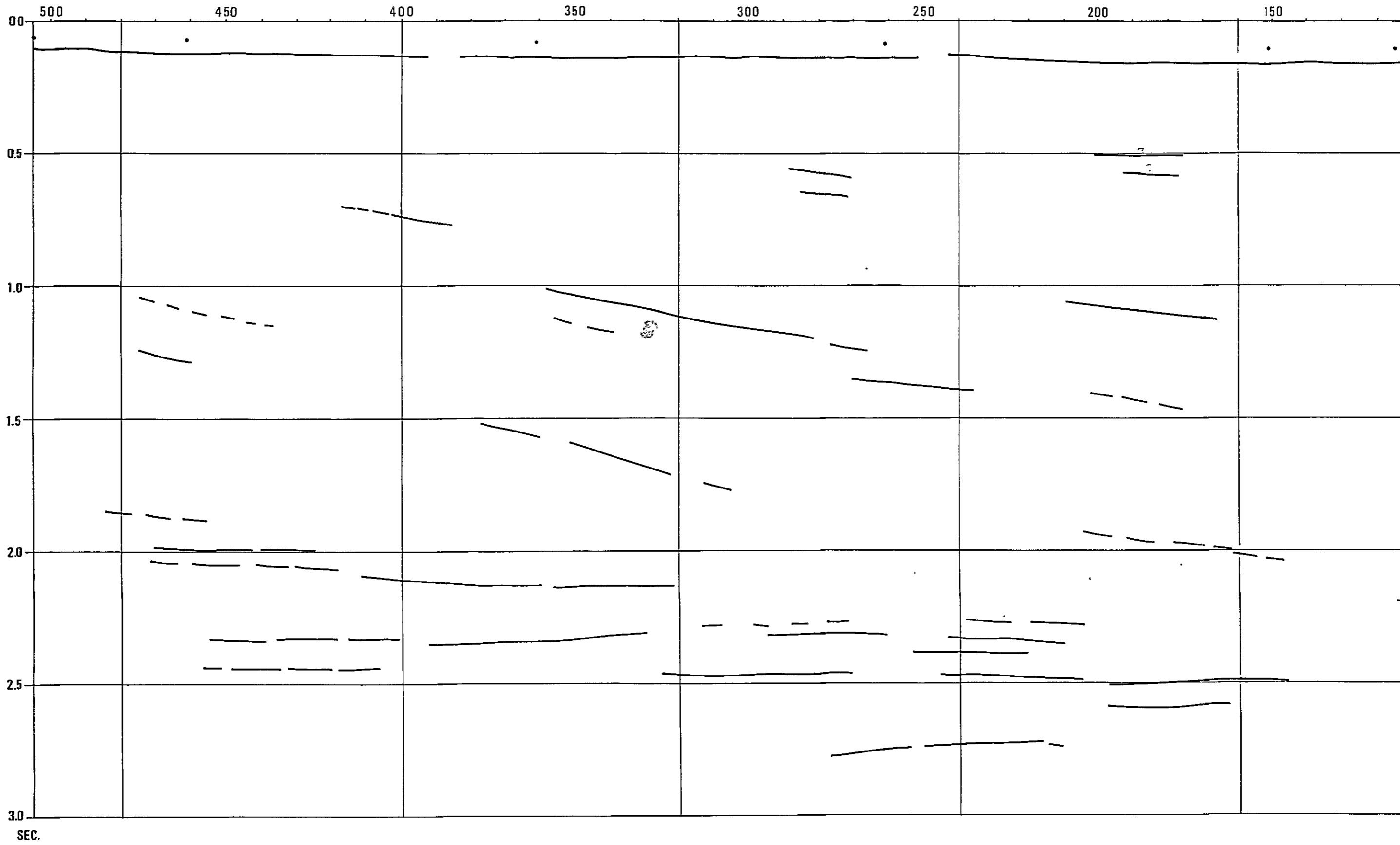




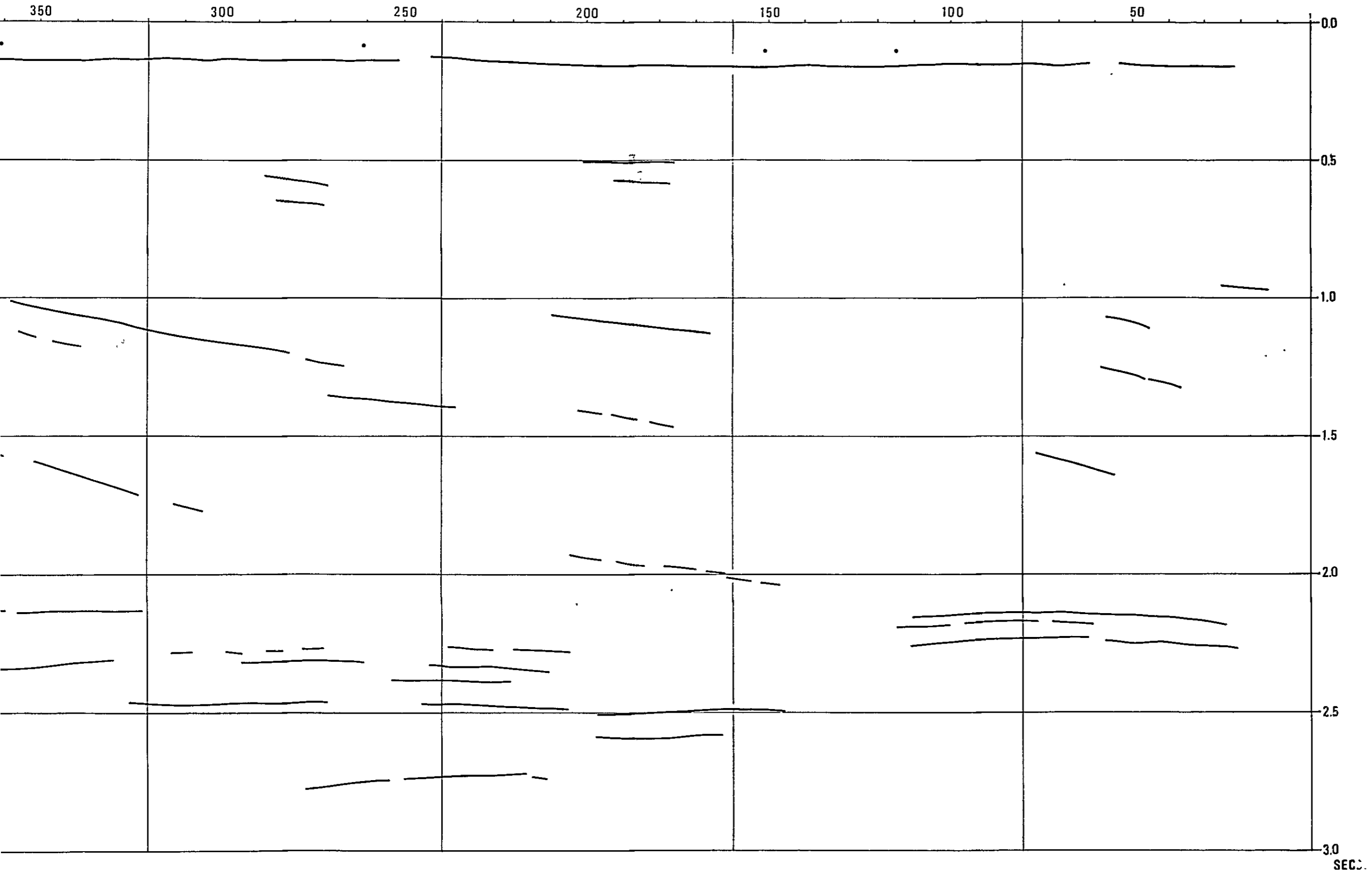


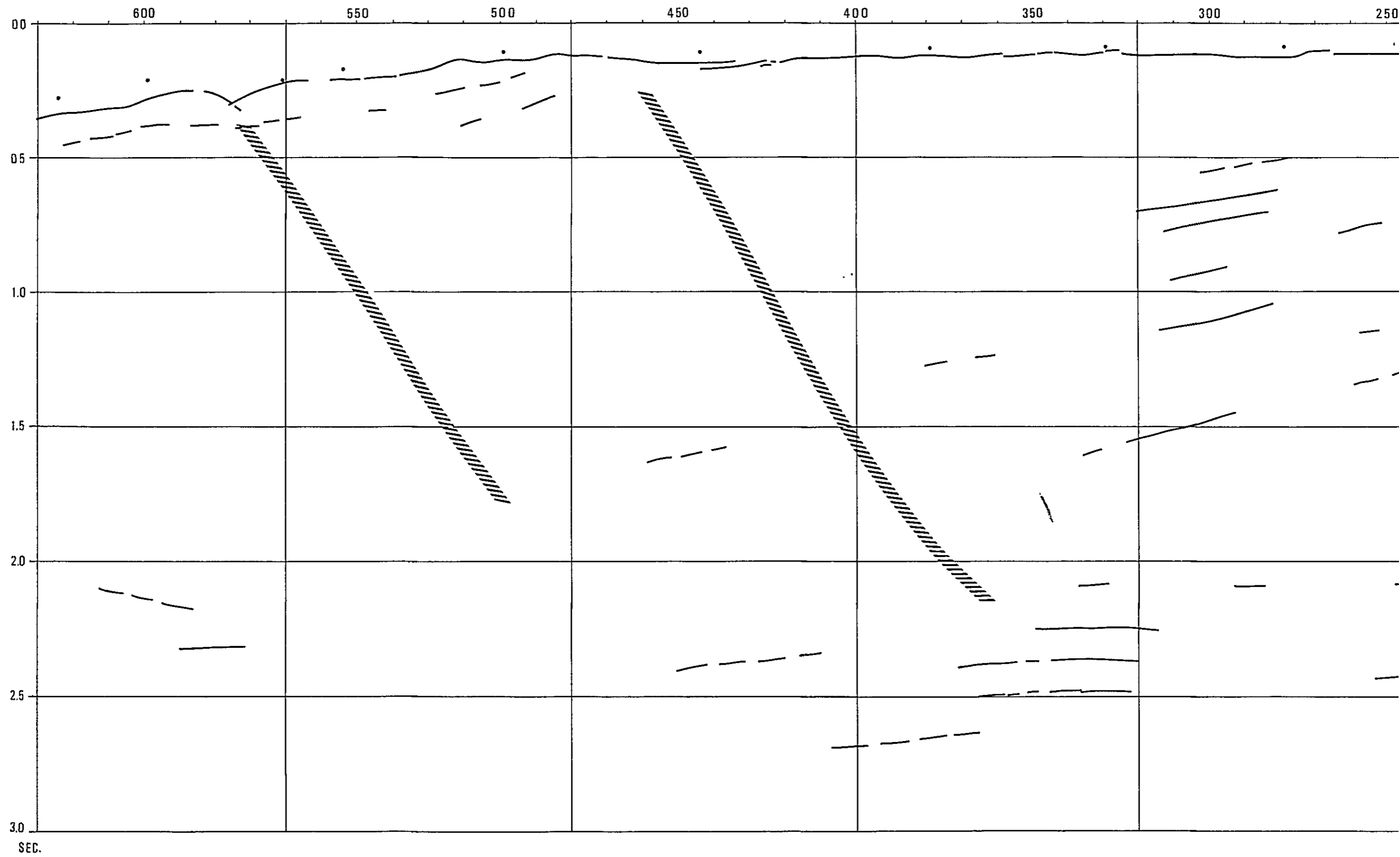
T2-AB (25m)



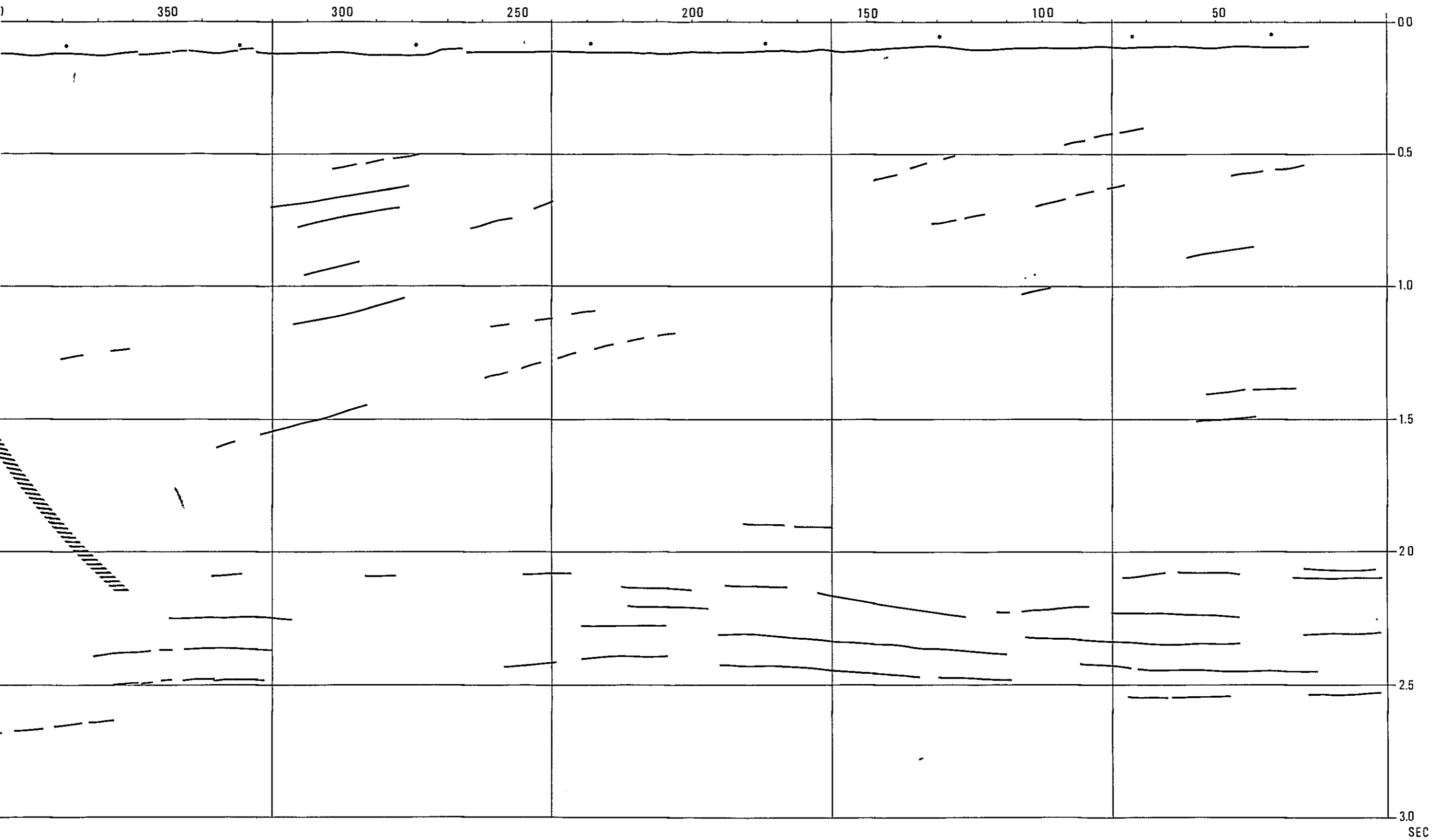


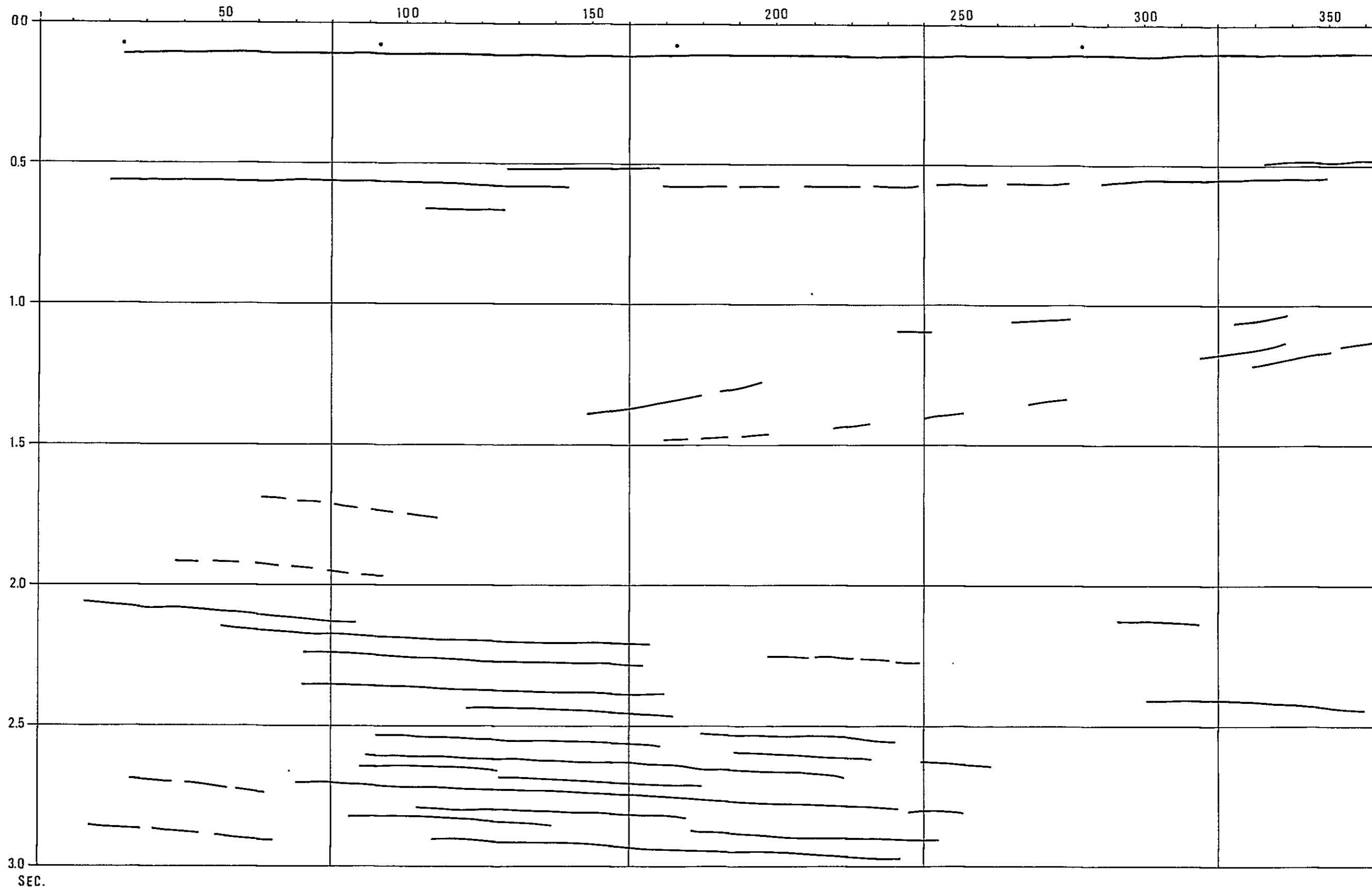
T1 - AB (12.5m)



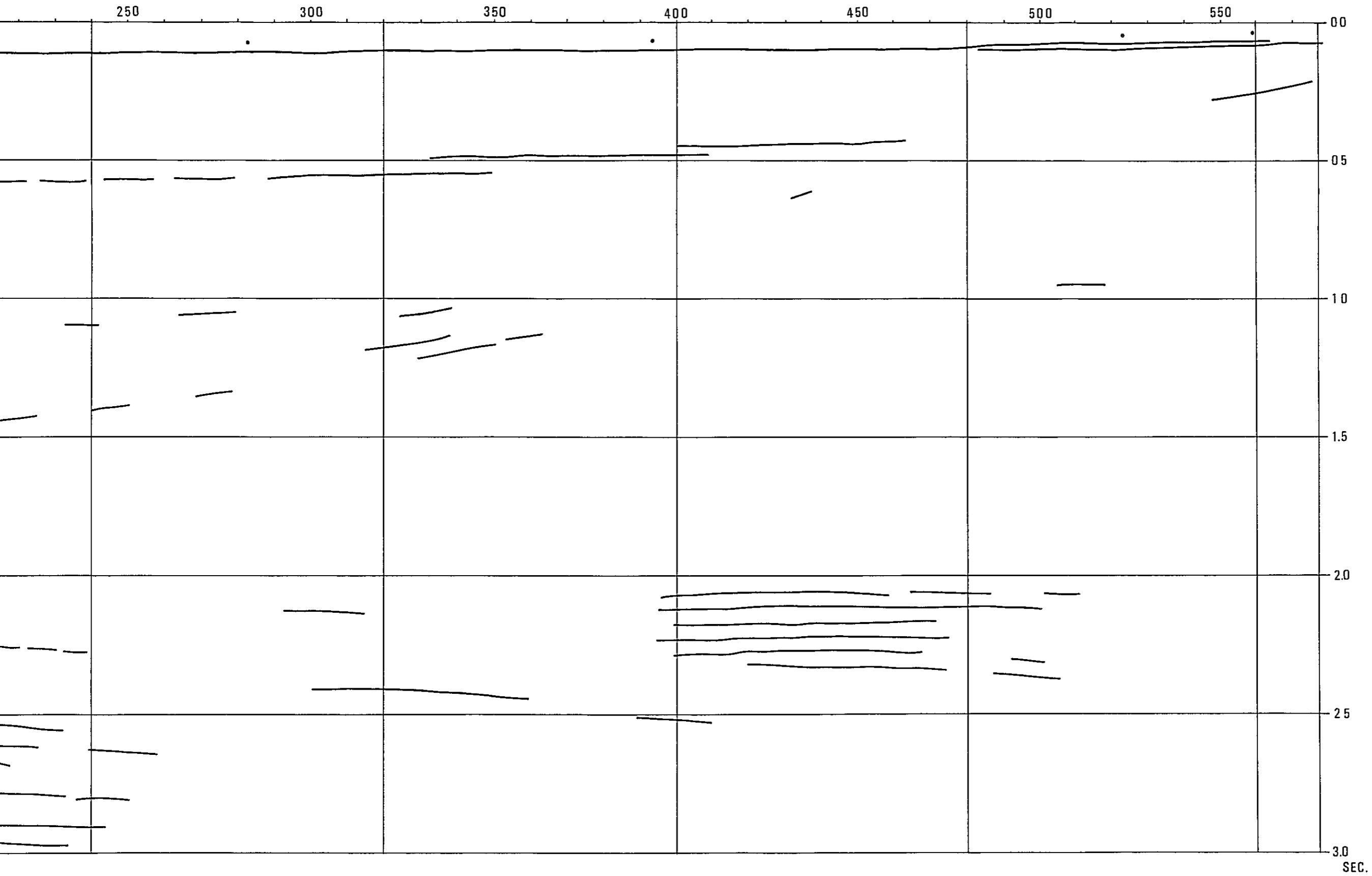


T2 - AB (12.5m)





T3-AB (12.5m)



CDP 405 SP 448			
TIME	CH	TR	AMP
0.100	1137	1000	175
0.200	1120	1000	175
0.300	1110	1000	175
0.400	1100	1000	175
0.500	1090	1000	175
0.600	1080	1000	175
0.700	1070	1000	175
0.800	1060	1000	175
0.900	1050	1000	175
1.000	1040	1000	175
1.100	1030	1000	175
1.200	1020	1000	175
1.300	1010	1000	175
1.400	1000	1000	175
1.500	990	1000	175
1.600	980	1000	175
1.700	970	1000	175
1.800	960	1000	175
1.900	950	1000	175
2.000	940	1000	175

CDP 103 SP 444			
TIME	CH	TR	AMP
0.100	1137	1000	175
0.200	1120	1000	175
0.300	1110	1000	175
0.400	1100	1000	175
0.500	1090	1000	175
0.600	1080	1000	175
0.700	1070	1000	175
0.800	1060	1000	175
0.900	1050	1000	175
1.000	1040	1000	175
1.100	1030	1000	175
1.200	1020	1000	175
1.300	1010	1000	175
1.400	1000	1000	175
1.500	990	1000	175
1.600	980	1000	175
1.700	970	1000	175
1.800	960	1000	175
1.900	950	1000	175
2.000	940	1000	175

VEL. ANALYSIS

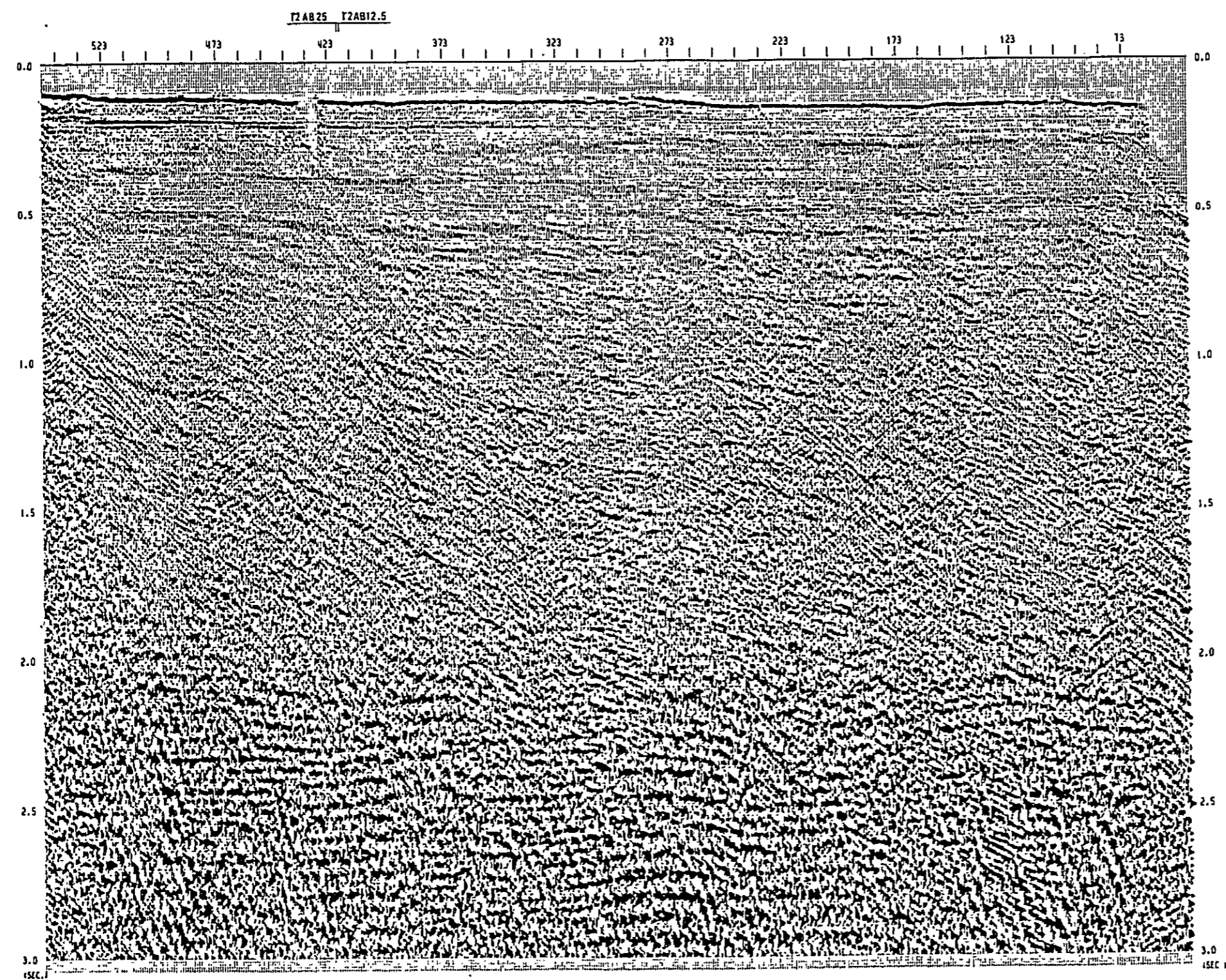
JAPAN INTERNATIONAL COOPERATION AGENCY

NE

SEISMIC SURVEY
24 FOLD RECORD SECTION
OFFSHORE AREA OF ZONGULDAK COAL FIELD IN TURKEY
LINE T1AB12.5
S.P. 73 - 554

CROSS LINE

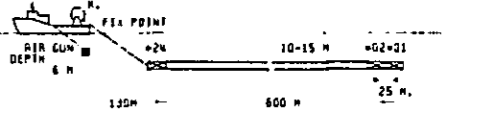
SHOT NUMBER



ENCL. 6

FIELD RECORDING DATA

RECORDED BY: HSB
INSTRUMENT: DFG 11
RECORD LENGTH: 3.0 SEC.
SAMPLE RATE: 100 MSEC.
FILTER: LOW 0.75 HZ (24 FOLD)
GEIN CONTROL: 1.5
ENERGY SOURCE: 5 AIR GUNS 170 CU. IN. 140, 20, 1011
SHOT INTERVAL: 12.5 M.
CDP MULTIPLICITY: 24-FOLD
DETECTOR CABLE: SEC-STRENGTHEN
SURVEY DATE: JUL 1 1979
SURVEY VESSEL: SISHIA 1



PROCESSING SEQUENCE

- | | |
|------------------------|------------------------|
| 1 1) RECORD EDIT | 1 01) MUTE |
| 1 2) CDP SORT | 1 91) STACK 24-FOLD |
| 1 3) GRIN RECOVER | 1 10) DECONVOLUTION |
| 1 4) DECONVOLUTION | 1 11) T.V. FILTER |
| 1 5) RESAMPLE 1 TO 2 | 1 12) DATUM CORRECTION |
| 1 6) VELOCITY ANALYSIS | 1 13) SCALING |
| 1 7) ANO CONNECTION | |

DISPLAY

POLARITY: NORMAL
HORIZONTAL SCALE: 10 TR. CM. (1:12500)
VERTICAL SCALE: 5 INCH/SEC. (1:2.3 CM./SEC.)
DISPLAY GAIN: 3 DECIBEL



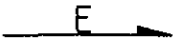
JAPAN PETROLEUM EXPLORATION CO., LTD.
GEOPHYSICAL HEADQUARTERS

CDP424 SP 581				CDP540 SP 581				CDP508 SP 480			
TIME	TRAC	TIME	TRAC	TIME	TRAC	TIME	TRAC	TIME	TRAC	TIME	TRAC
0.100	1150	0.100	1150	0.100	1150	0.100	1150	0.100	1150	0.100	1150
0.200	1150	0.200	1150	0.200	1150	0.200	1150	0.200	1150	0.200	1150
0.300	1150	0.300	1150	0.300	1150	0.300	1150	0.300	1150	0.300	1150
0.400	1150	0.400	1150	0.400	1150	0.400	1150	0.400	1150	0.400	1150
0.500	1150	0.500	1150	0.500	1150	0.500	1150	0.500	1150	0.500	1150
0.600	1150	0.600	1150	0.600	1150	0.600	1150	0.600	1150	0.600	1150
0.700	1150	0.700	1150	0.700	1150	0.700	1150	0.700	1150	0.700	1150
0.800	1150	0.800	1150	0.800	1150	0.800	1150	0.800	1150	0.800	1150
0.900	1150	0.900	1150	0.900	1150	0.900	1150	0.900	1150	0.900	1150
1.000	1150	1.000	1150	1.000	1150	1.000	1150	1.000	1150	1.000	1150
1.100	1150	1.100	1150	1.100	1150	1.100	1150	1.100	1150	1.100	1150
1.200	1150	1.200	1150	1.200	1150	1.200	1150	1.200	1150	1.200	1150
1.300	1150	1.300	1150	1.300	1150	1.300	1150	1.300	1150	1.300	1150
1.400	1150	1.400	1150	1.400	1150	1.400	1150	1.400	1150	1.400	1150
1.500	1150	1.500	1150	1.500	1150	1.500	1150	1.500	1150	1.500	1150
1.600	1150	1.600	1150	1.600	1150	1.600	1150	1.600	1150	1.600	1150
1.700	1150	1.700	1150	1.700	1150	1.700	1150	1.700	1150	1.700	1150
1.800	1150	1.800	1150	1.800	1150	1.800	1150	1.800	1150	1.800	1150
1.900	1150	1.900	1150	1.900	1150	1.900	1150	1.900	1150	1.900	1150
2.000	1150	2.000	1150	2.000	1150	2.000	1150	2.000	1150	2.000	1150

CDP714 SP 420			
TIME	TRAC	TIME	TRAC
0.100	1150	0.100	1150
0.200	1150	0.200	1150
0.300	1150	0.300	1150
0.400	1150	0.400	1150
0.500	1150	0.500	1150
0.600	1150	0.600	1150
0.700	1150	0.700	1150
0.800	1150	0.800	1150
0.900	1150	0.900	1150
1.000	1150	1.000	1150
1.100	1150	1.100	1150
1.200	1150	1.200	1150
1.300	1150	1.300	1150
1.400	1150	1.400	1150
1.500	1150	1.500	1150
1.600	1150	1.600	1150
1.700	1150	1.700	1150
1.800	1150	1.800	1150
1.900	1150	1.900	1150
2.000	1150	2.000	1150

VEL. ANALYSIS

JAPAN INTERNATIONAL COOPERATION AGENCY



CROSS LINE

SEISMIC SURVEY
24 FOLD RECORD SECTION

SHOT NUMBER

OFFSHORE AREA OF ZONGULDAK COAL FIELD IN TURKEY
LINE T2AB12.5
S.P. 0 - 602
ENCL. 7

FIELD RECORDING DATA

RECORDED BY	INT
INSTRUMENT	DP'S 14
RECORD LENGTH	3.0 SEC.
SAMPLE RATE	1 MSEC.
FILTER	LOW 0.36 HZ/OB/OCT
CRIN CONTROL	NT: 248 INCH
ENERGY SOURCE	1.5 J.
	3 AIR GUNS 170 CU. IN. (400.00.100)
	1950 PST.1
	12.5 M
	24-FOLD
	SEC-STRETCHED
	JULY 1978
	SISMIN 1

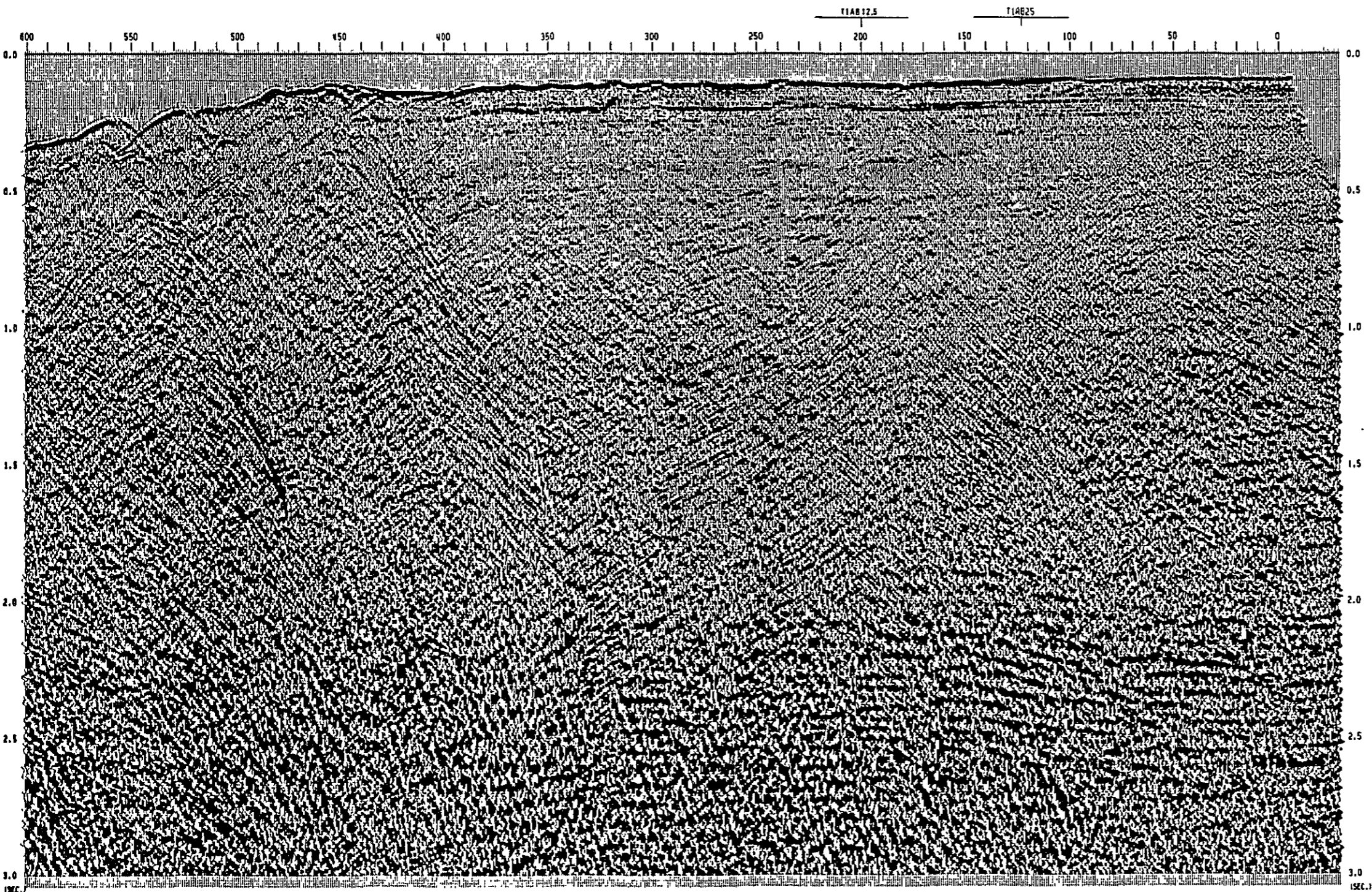
PROCESSING SEQUENCE

1 01 RECORD EDIT	1 04 MUTE
1 21 COP SORT	1 05 STACK 24-FOLD
1 31 GAIN RECOVERY	1 06 DECONVOLUTION
1 41 DECONVOLUTION	1 07 FILTER
1 51 RESAMPLE 1 TO 2 INSEC.	1 08 ORIGIN CORRECTION
1 61 VELOCITY ANALYSIS	1 09 SCALING
1 71 NMO CORRECTION	1 10 TRACE SIGN SCALE

DISPLAY

POLARITY	NORMAL
HORIZONTAL SCALE	10 CM/SEC. (1:10000)
VERTICAL SCALE	5 INCH/SEC. (1:2.5 CM./SEC.)
DISPLAY GAIN	3 DECIBEL

JAPAN PETROLEUM EXPLORATION CO., LTD.
GEOPHYSICAL HEADQUARTERS



CDP 100		SP 5	
TIME	AMPLITUDE	TIME	AMPLITUDE
0.00	1431	1431	15
0.00	3523	1432	275
0.00	1319	1433	5
0.00	3544	1434	1875
0.00	1643	1435	875
0.00	1748	1436	1125
0.00	1824	1437	1075
1.00	1884	1438	1875
2.00	1913	1439	1875
3.00	1943	1440	1874

CDP 377		SP 468	
TIME	AMPLITUDE	TIME	AMPLITUDE
0.00	1497	1497	25
0.00	1523	1498	275
0.00	1574	1499	5
0.00	1594	1500	1875
0.00	1643	1501	875
0.00	1748	1502	1125
1.00	1824	1503	1075
1.00	1884	1504	1875
2.00	1913	1505	1875
3.00	1943	1506	1874

VEL. ANALYSIS

CROSS LINE

SHOT NUMBER

JAPAN INTERNATIONAL
COOPERATION AGENCY

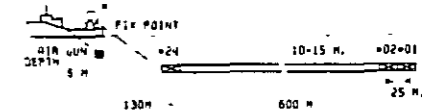
NE

SEISMIC SURVEY
24 FOLD RECORD SECTIONOFFSHORE AREA OF
ZONGULDAK COAL
FIELD IN TURKEY
LINE T3AB12.5
S.P. 1 - 549

ENCL. 8

FIELD RECORDING DATA

RECORDED BY: WRA
 INSTRUMENT: OPS 1V
 RECORD LENGTH: 3.0 SEC.
 SAMPLE RATE: 1 MSEC.
 FILTER: LM 8/36 INZ/ODCTH
 W: 244 HZ
 F: 2
 GAIN: 0.01
 ENERGY SOURCE: 3 81A GUNS 170 CU IN 140.20.101
 11750 PSI
 12.5 M
 SHOT INTERVAL: 40-FOLD
 CDP MULTIPLICITY: 24-FOLD
 SECTION CABLE: SEC-STRONGER
 SURVEY DATE: JULY 1979
 SURVEY VESSEL: 515MIN 1

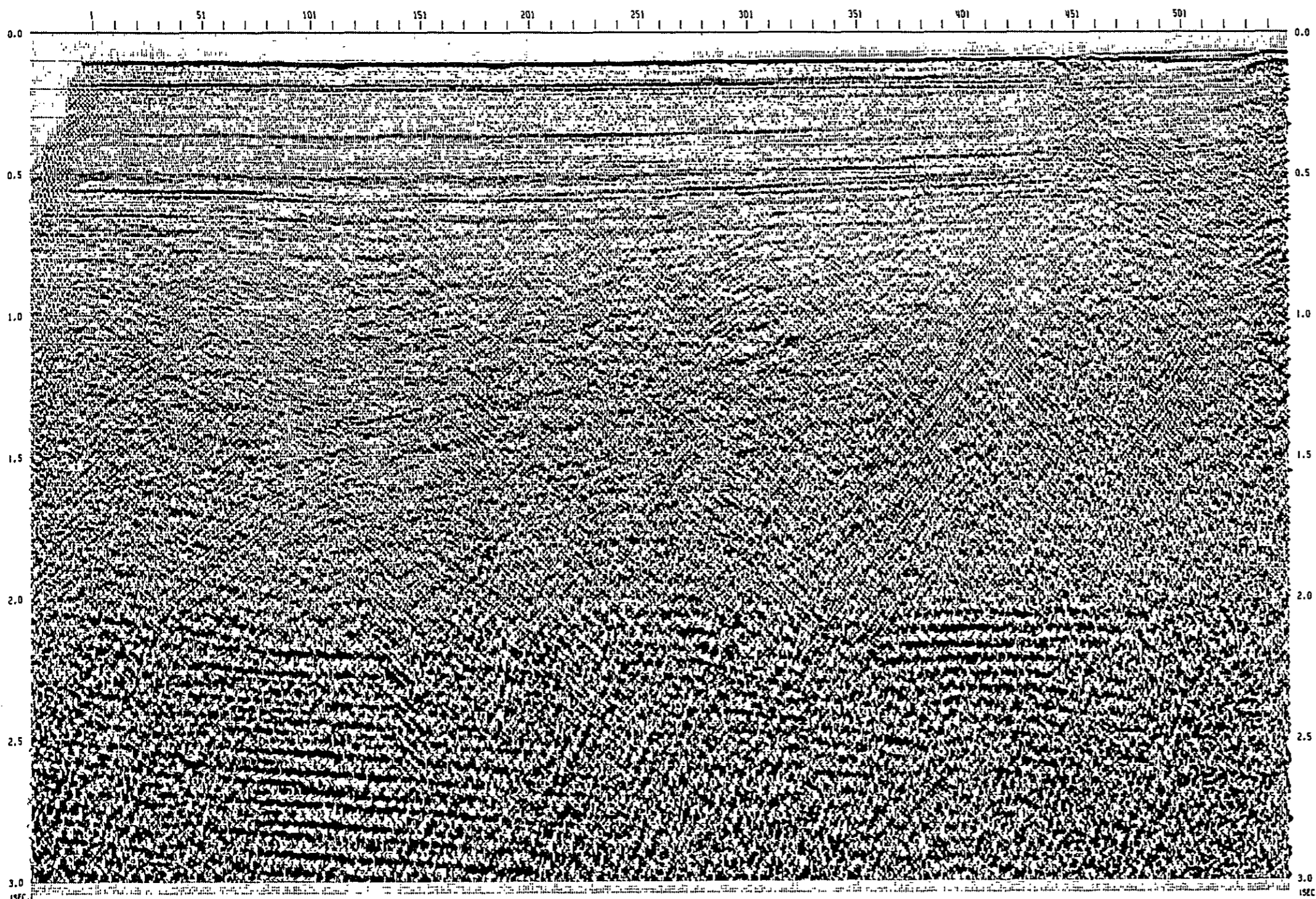


PROCESSING SEQUENCE

PROCESS LENGTH	3.0 SEC.
SAMPLE RATE	1-2 MSEC.
1) RECORD EDIT	1) 01 MUTE
2) CDP SORT	1) 01 STRCH 24-FOLD
CDP INTERVAL 12.5 M	1) 01 DECONVOLUTION
3) GAIN RECOVER	PA. DISTANCE 2 MSEC.
GRC LENGTH 150 MSEC	DP. LENGTH 200 MSEC.
4) DECONVOLUTION	DESIGN GATE LENGTH 2000 MSEC.
DP. LENGTH 300 MSEC.	1) 1) F.V. FILTER
PA. DISTANCE MSEC	DP. LENGTH 300 MSEC.
DESIGN GATE LENGTH MSEC.	S - 10 MZ
	S - 60 MZ
	S - 50 MZ
5) RESAMPLE 1 TO 2 INSEC.	1) 2) DATUM CONNECTION +12 MSEC
6) VELOCITY ANALYSIS BY C.V. STRCH	1) 3) SCALING LARGE SIGMA SCALE
7) WIG CORRECTION	

DISPLAY

POLARITY: NORMAL
 HORIZONTAL SCALE: 10 M / CM 1:12500
 VERTICAL SCALE: 5 INCH/SEC. 112.7 CM./SEC.
 DISPLAY GAIN: 3 DECIBEL

JAPAN PETROLEUM
EXPLORATION CO., LTD.
GEOPHYSICAL HEADQUARTERS

CDP 025			
TR	CDP	TIME	DEPTH
0.100	1187	1497	15
0.200	1187	1497	15
0.300	1187	1497	15
0.400	1187	1497	15
0.500	1187	1497	15
0.600	1187	1497	15
0.700	1187	1497	15
0.800	1187	1497	15
0.900	1187	1497	15
1.000	1187	1497	15
1.100	1187	1497	15
1.200	1187	1497	15
1.300	1187	1497	15
1.400	1187	1497	15
1.500	1187	1497	15
1.600	1187	1497	15
1.700	1187	1497	15
1.800	1187	1497	15
1.900	1187	1497	15
2.000	1187	1497	15

CDP 100			
TR	CDP	TIME	DEPTH
0.100	1187	1497	15
0.200	1187	1497	15
0.300	1187	1497	15
0.400	1187	1497	15
0.500	1187	1497	15
0.600	1187	1497	15
0.700	1187	1497	15
0.800	1187	1497	15
0.900	1187	1497	15
1.000	1187	1497	15
1.100	1187	1497	15
1.200	1187	1497	15
1.300	1187	1497	15
1.400	1187	1497	15
1.500	1187	1497	15
1.600	1187	1497	15
1.700	1187	1497	15
1.800	1187	1497	15
1.900	1187	1497	15
2.000	1187	1497	15

VEL. ANALYSIS

JAPAN INTERNATIONAL COOPERATION AGENCY

NE

CROSS LINE

SHOT NUMBER

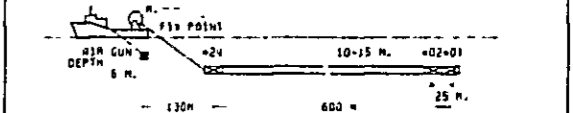
SEISMIC SURVEY
TIME MIGRATED SECTION

OFFSHORE AREA OF
ZONGULDAK COAL
FIELD IN TURKEY
LINE T1AB12.5
S.P. 73 - 554

ENCL. 9

FIELD RECORDING DATA

RECORDED BY	MTA
INSTRUMENT	QPS 14
RECORD LENGTH	3.0 SEC.
SAMPLE RATE	1 MSEC.
FILTER	LOW 8736 HZ/OBJCT
	H1 248 HZ
	1.5 F
GAIN CONTROL	3 AIR GUNS 170 CU. IN 140.20.101
ENERGY SOURCE	11750 PSI.1
SHOT INTERVAL	12.5 M
CDP MULTIPLIER	24-FOLD
DETECTOR CABLE	SEC-SUPERSEA
SURVEY DATE	JULY 1978
SURVEY VESSEL	SISMAF 1



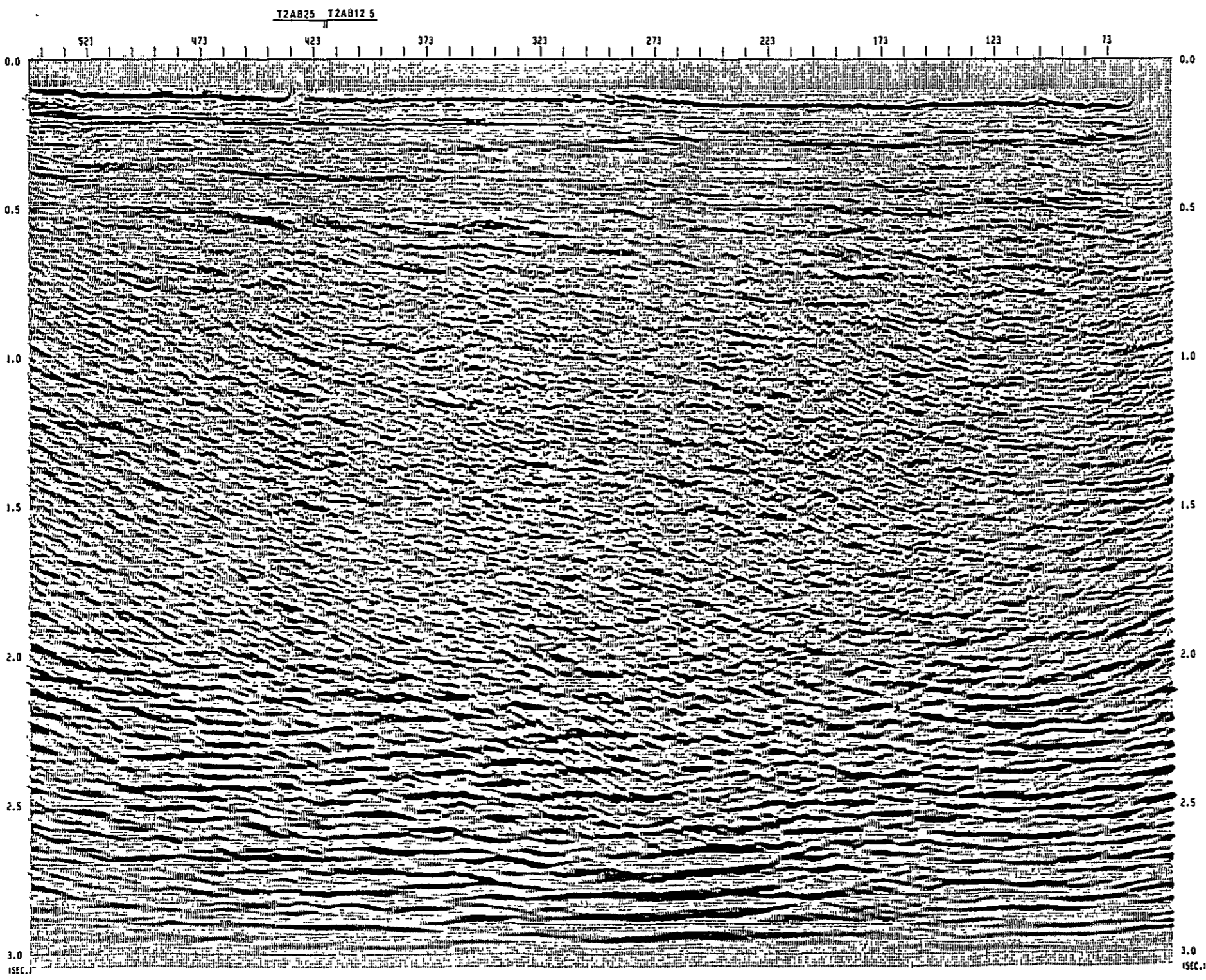
PROCESSING SEQUENCE

1) RECORD EDIT	1) 01 MUTE
2) CDP SORT	4) 01 STACK 24-FOLD
3) GAIN RECOVERY	10) DECONVOLUTION
	PR. DISTANCE 200 MSEC.
	OP. LENGTH 200 MSEC.
	DESIGN GATE LENGTH 2000 MSEC
4) DECONVOLUTION	11) T.V. FILTER
	OP. LENGTH 300 MSEC.
	PR. DISTANCE 1 MSEC.
	4 - 70 MZ
	5 - 60 MZ
	5 - 50 MZ
5) RESAMPLE 1 TO 2 INSEC.	12) DATUM CORRECTION +12 MSEC.
6) VELOCITY ANALYSIS BY C.F. STACK	13) SCALING TRACE SIGMA SCALE
7) ANO CORRECTION	14) F-K MIGRATION

DISPLAY

POLARITY	NORMAL
HORIZONTAL SCALE	10 FT./IN. (1:12500)
VERTICAL SCALE	7.5 CM/SEC. (1:3333)
DISPLAY GAIN	1 DECIBEL

JAPAN PETROLEUM EXPLORATION CO., LTD. GEOPHYSICAL HEADQUARTERS



TURKEY T2-AB 1 / 2

CDP#28			
SP 50'			
TIME	CDP#	TIME	CDP#
0.000	1180	0.000	1180
0.000	1181	0.000	1181
0.000	1182	0.000	1182
0.000	1183	0.000	1183
0.000	1184	0.000	1184
0.000	1185	0.000	1185
0.000	1186	0.000	1186
0.000	1187	0.000	1187
0.000	1188	0.000	1188
0.000	1189	0.000	1189
0.000	1190	0.000	1190
0.000	1191	0.000	1191
0.000	1192	0.000	1192
0.000	1193	0.000	1193
0.000	1194	0.000	1194
0.000	1195	0.000	1195
0.000	1196	0.000	1196
0.000	1197	0.000	1197
0.000	1198	0.000	1198
0.000	1199	0.000	1199
0.000	1200	0.000	1200

CDP#60			
SP 51			
TIME	CDP#	TIME	CDP#
0.000	1185	0.000	1185
0.000	1186	0.000	1186
0.000	1187	0.000	1187
0.000	1188	0.000	1188
0.000	1189	0.000	1189
0.000	1190	0.000	1190
0.000	1191	0.000	1191
0.000	1192	0.000	1192
0.000	1193	0.000	1193
0.000	1194	0.000	1194
0.000	1195	0.000	1195
0.000	1196	0.000	1196
0.000	1197	0.000	1197
0.000	1198	0.000	1198
0.000	1199	0.000	1199
0.000	1200	0.000	1200

CDP#50			
SP 400			
TIME	CDP#	TIME	CDP#
0.000	1185	0.000	1185
0.000	1186	0.000	1186
0.000	1187	0.000	1187
0.000	1188	0.000	1188
0.000	1189	0.000	1189
0.000	1190	0.000	1190
0.000	1191	0.000	1191
0.000	1192	0.000	1192
0.000	1193	0.000	1193
0.000	1194	0.000	1194
0.000	1195	0.000	1195
0.000	1196	0.000	1196
0.000	1197	0.000	1197
0.000	1198	0.000	1198
0.000	1199	0.000	1199
0.000	1200	0.000	1200

CDP#9			
SP 120			
TIME	CDP#	TIME	CDP#
0.000	1185	0.000	1185
0.000	1186	0.000	1186
0.000	1187	0.000	1187
0.000	1188	0.000	1188
0.000	1189	0.000	1189
0.000	1190	0.000	1190
0.000	1191	0.000	1191
0.000	1192	0.000	1192
0.000	1193	0.000	1193
0.000	1194	0.000	1194
0.000	1195	0.000	1195
0.000	1196	0.000	1196
0.000	1197	0.000	1197
0.000	1198	0.000	1198
0.000	1199	0.000	1199
0.000	1200	0.000	1200

VEL. ANALYSIS

JAPAN INTERNATIONAL COOPERATION AGENCY

E

CROSS LINE

SHOT NUMBER

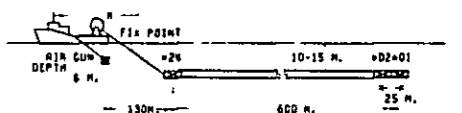
SEISMIC SURVEY
TIME MIGRATED SECTION

OFFSHORE AREA OF
ZONGULDAK COAL
FIELD IN TURKEY
LINE T2AB12.5
S.P. 0 - 602

ENCL. 10

FIELD RECORDING DATA

RECORDED BY	MTA
INSTALMENT	1st
RECORD LENGTH	3.0 SEC.
SAMPLE RATE	1 MSEC.
FILTER	LOW #336 (HZ/DB/DC)
	HI 240 (HZ)
GEOM. CONTR. ENERGY SOURCE	1 AIR GUNS (70 CU. IN. 140.20.10X)
	12.5 M
	24-FOLD
	SEC-STRENGTH
	4x118
	513X11



PROCESSING SEQUENCE

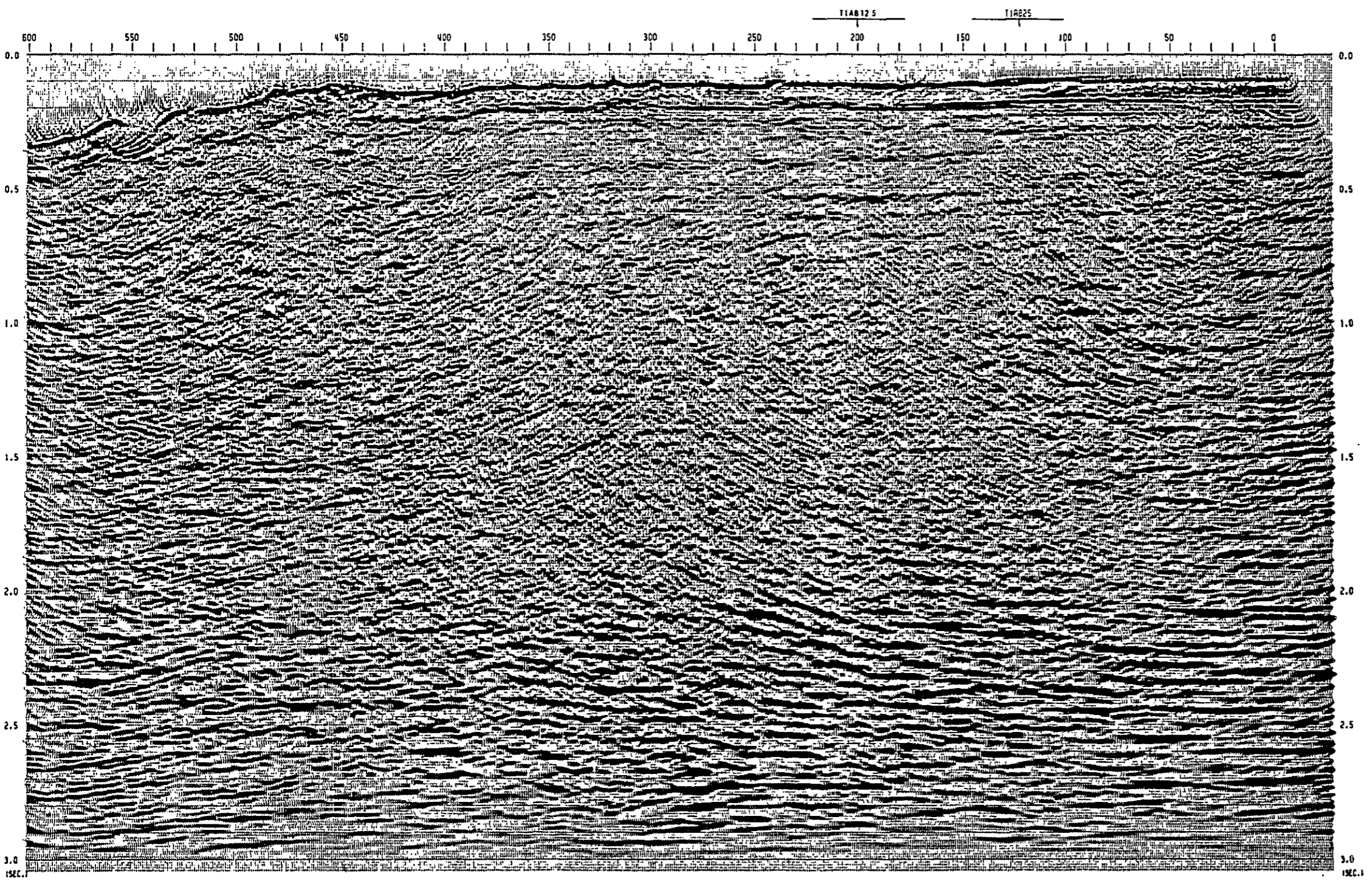
PROCESS LENGTH	3.0 SEC.
SAMPLE RATE	1-2 MSEC.
1 1) RECORD EDIT	1 8) MUTE
1 2) CDP SORT	1 9) STACK 24-FOLD
CDP INTERVAL 12.5 M.	10) DECONVOLUTION
1 3) GAIN RECOVERY	PA. DISTANCE 2 MSEC.
ARC	OP. LENGTH 300 MSEC.
GATE LENGTH 150 MSEC.	DESIGN GATE LENGTH 2000 MSEC.
1 4) DECONVOLUTION	11) T. F. FILTER
OP. LENGTH 300 MSEC.	OP. LENGTH 300 MSEC.
PA. DISTANCE 2 MSEC.	ARC - 10 M.
DESIGN GATE LENGTH 2000 MSEC.	S - 50 M.
1 5) RESAMPLE 1 TO 2 INSEC.	112) DATA CORRECTION *12 MSEC.
1 6) VELOCITY ANALYSIS	113) SCALING
BY C.V. STACK	TRACE SIGNA SCALE
1 7) NMO CORRECTION	114) P-N MIGRATION

DISPLAY

POLARITY	NORMAL
HORIZONTAL SCALE	30 TR./CM. 1000000
VERTICAL SCALE	7.5 CM./SEC. 1000000
DISPLAY GAIN	3 DECIBEL



JAPAN PETROLEUM
EXPLORATION CO., LTD.
GEOPHYSICAL HEADQUARTERS



CDP 100		SP 72	
LOC	TIME	LOC	TIME
100	1149	100	1149
100	1150	100	1150
100	1151	100	1151
100	1152	100	1152
100	1153	100	1153
100	1154	100	1154
100	1155	100	1155
100	1156	100	1156
100	1157	100	1157
100	1158	100	1158
100	1159	100	1159
100	1160	100	1160
100	1161	100	1161
100	1162	100	1162
100	1163	100	1163
100	1164	100	1164
100	1165	100	1165
100	1166	100	1166
100	1167	100	1167
100	1168	100	1168
100	1169	100	1169
100	1170	100	1170
100	1171	100	1171
100	1172	100	1172
100	1173	100	1173
100	1174	100	1174
100	1175	100	1175
100	1176	100	1176
100	1177	100	1177
100	1178	100	1178
100	1179	100	1179
100	1180	100	1180
100	1181	100	1181
100	1182	100	1182
100	1183	100	1183
100	1184	100	1184
100	1185	100	1185
100	1186	100	1186
100	1187	100	1187
100	1188	100	1188
100	1189	100	1189
100	1190	100	1190
100	1191	100	1191
100	1192	100	1192
100	1193	100	1193
100	1194	100	1194
100	1195	100	1195
100	1196	100	1196
100	1197	100	1197
100	1198	100	1198
100	1199	100	1199
100	1200	100	1200

CDP 177		SP 149	
LOC	TIME	LOC	TIME
177	1149	177	1149
177	1150	177	1150
177	1151	177	1151
177	1152	177	1152
177	1153	177	1153
177	1154	177	1154
177	1155	177	1155
177	1156	177	1156
177	1157	177	1157
177	1158	177	1158
177	1159	177	1159
177	1160	177	1160
177	1161	177	1161
177	1162	177	1162
177	1163	177	1163
177	1164	177	1164
177	1165	177	1165
177	1166	177	1166
177	1167	177	1167
177	1168	177	1168
177	1169	177	1169
177	1170	177	1170
177	1171	177	1171
177	1172	177	1172
177	1173	177	1173
177	1174	177	1174
177	1175	177	1175
177	1176	177	1176
177	1177	177	1177
177	1178	177	1178
177	1179	177	1179
177	1180	177	1180
177	1181	177	1181
177	1182	177	1182
177	1183	177	1183
177	1184	177	1184
177	1185	177	1185
177	1186	177	1186
177	1187	177	1187
177	1188	177	1188
177	1189	177	1189
177	1190	177	1190
177	1191	177	1191
177	1192	177	1192
177	1193	177	1193
177	1194	177	1194
177	1195	177	1195
177	1196	177	1196
177	1197	177	1197
177	1198	177	1198
177	1199	177	1199
177	1200	177	1200

VEL. ANALYSIS

JAPAN INTERNATIONAL
COOPERATION AGENCY

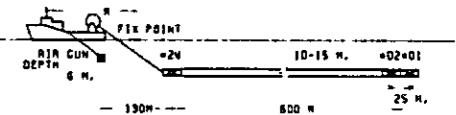
NE

SEISMIC SURVEY
TIME MIGRATED SECTIONOFFSHORE AREA OF
ZONGULDAK COAL
FIELD IN TURKEY
LINE T3AB12.5
S.P. 1 - 549

ENCL. 11

FIELD RECORDING DATA

RECORDED BY	WTA
INSTRUMENT	OP5 IV
RECORD LENGTH	3.0 SEC.
SAMPLE RATE	1 MSEC.
FILTER	LOW 8/36 HZ/OCT
GEIN CONTROL	1 F.P.
ENERGY SOURCE	3 RIA CUMS 170 CU-IN. 140.20.1011
SHOT INTERVAL	12.5 M.
CDP MULTIPLICITY	24-FOLD
DETECTOR CABLE	SEC-STREAMER
SURVEY DATE	JULY 1978
SURVEY VESSEL	SISMAK I

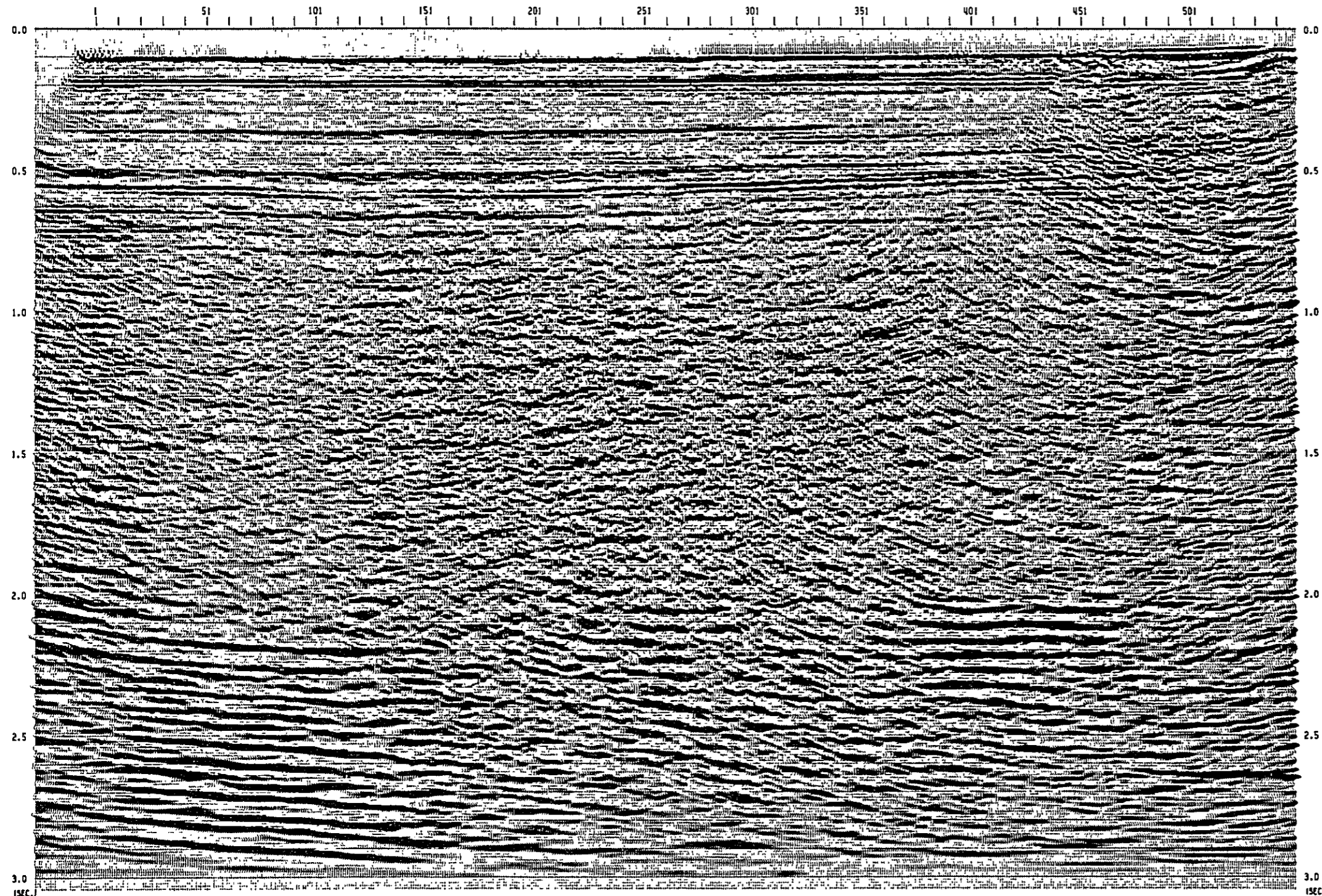


PROCESSING SEQUENCE

PROCESS LENGTH	3.0 SEC.
SAMPLE RATE	1-2 MSEC.
1) RECORD EDIT	1) MUTE
2) CDP SORT	2) STACK 24-FOLD
CDP INTERVAL 12.5 M.	3) DECONVOLUTION
3) GAIN RECOVERY	PA. DISTANCE 2 MSEC.
BAC	OP. LENGTH 200 MSEC.
GATE LENGTH 150 MSEC.	DESIGN GATE LENGTH 2000 MSEC.
4) DECONVOLUTION	5) T.W. FILTER
OP. LENGTH 300 MSEC.	OP. LENGTH 300 MSEC.
PA. DISTANCE 1 MSEC.	S = 10 M2
DESIGN GATE LENGTH 2000 MSEC.	S = 60 M2
5) RESAMPLE 1 TO 2 INSEC.1	6) WIGWAG CORRECTION +12 MSEC.
6) VELOCITY ANALYSIS	7) SCALING
BY E.V. STACK	TRACE SIGN SCALE
7) NMO CORRECTION	8) F-K MIGRATION

DISPLAY

POLARITY	NORMAL
HORIZONTAL SCALE	10 CM./CM. 11:125000
VERTICAL SCALE	7.5 CM./CM. 11:155550
DISPLAY GAIN	3 DECIBEL

JAPAN PETROLEUM
EXPLORATION CO., LTD.
GEOPHYSICAL HEADQUARTERS

CDP 405			
NO.	TIME	DEPTH	SP
1	100	100	100
2	100	100	100
3	100	100	100
4	100	100	100
5	100	100	100
6	100	100	100
7	100	100	100
8	100	100	100
9	100	100	100
10	100	100	100
11	100	100	100
12	100	100	100
13	100	100	100
14	100	100	100
15	100	100	100
16	100	100	100
17	100	100	100
18	100	100	100
19	100	100	100
20	100	100	100
21	100	100	100
22	100	100	100
23	100	100	100
24	100	100	100
25	100	100	100
26	100	100	100
27	100	100	100
28	100	100	100
29	100	100	100
30	100	100	100
31	100	100	100
32	100	100	100
33	100	100	100
34	100	100	100
35	100	100	100
36	100	100	100
37	100	100	100
38	100	100	100
39	100	100	100
40	100	100	100
41	100	100	100
42	100	100	100
43	100	100	100
44	100	100	100
45	100	100	100
46	100	100	100
47	100	100	100
48	100	100	100
49	100	100	100
50	100	100	100

CDP 100			
NO.	TIME	DEPTH	SP
1	100	100	100
2	100	100	100
3	100	100	100
4	100	100	100
5	100	100	100
6	100	100	100
7	100	100	100
8	100	100	100
9	100	100	100
10	100	100	100
11	100	100	100
12	100	100	100
13	100	100	100
14	100	100	100
15	100	100	100
16	100	100	100
17	100	100	100
18	100	100	100
19	100	100	100
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25	100	100	100
26	100	100	100
27	100	100	100
28	100	100	100
29	100	100	100
30	100	100	100
31	100	100	100
32	100	100	100
33	100	100	100
34	100	100	100
35	100	100	100
36	100	100	100
37	100	100	100
38	100	100	100
39	100	100	100
40	100	100	100
41	100	100	100
42	100	100	100
43	100	100	100
44	100	100	100
45	100	100	100
46	100	100	100
47	100	100	100
48	100	100	100
49	100	100	100
50	100	100	100

VEL. ANALYSIS

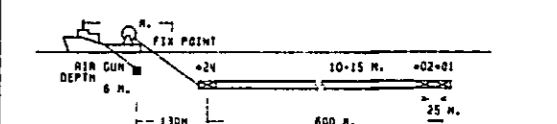
JAPAN INTERNATIONAL COOPERATION AGENCY

NE

SEISMIC SURVEY
DEPTH MIGRATED SECTION
OFFSHORE AREA OF ZONGULDAK COAL FIELD IN TURKEY
LINE T1AB12.5
S.P. 73 - 554
ENCL. 12

FIELD RECORDING DATA

RECORDED BY	HTA
INSTRUMENT	OPS 17
RECORD LENGTH	3.0 SEC.
SAMPLE RATE	1 MSEC.
FILTER	LOW 8/36 HZ/DN/OCT1
	HZ, 2ND HZ
	1/2 P.
GAIN CONTROL	3 MIN GUNS 170 CU. IN. INO. 20.1011
ENERGY SOURCE	11750 PSI, 1
	12.5 M
SHOT INTERVAL	24-FOLD
CDP MULTIPLICITY	SEC-SYSTEMER
DETECTOR CABLE	JUL 1978
SURVEY ORG.	SISMIN I
SURVEY VESSEL	



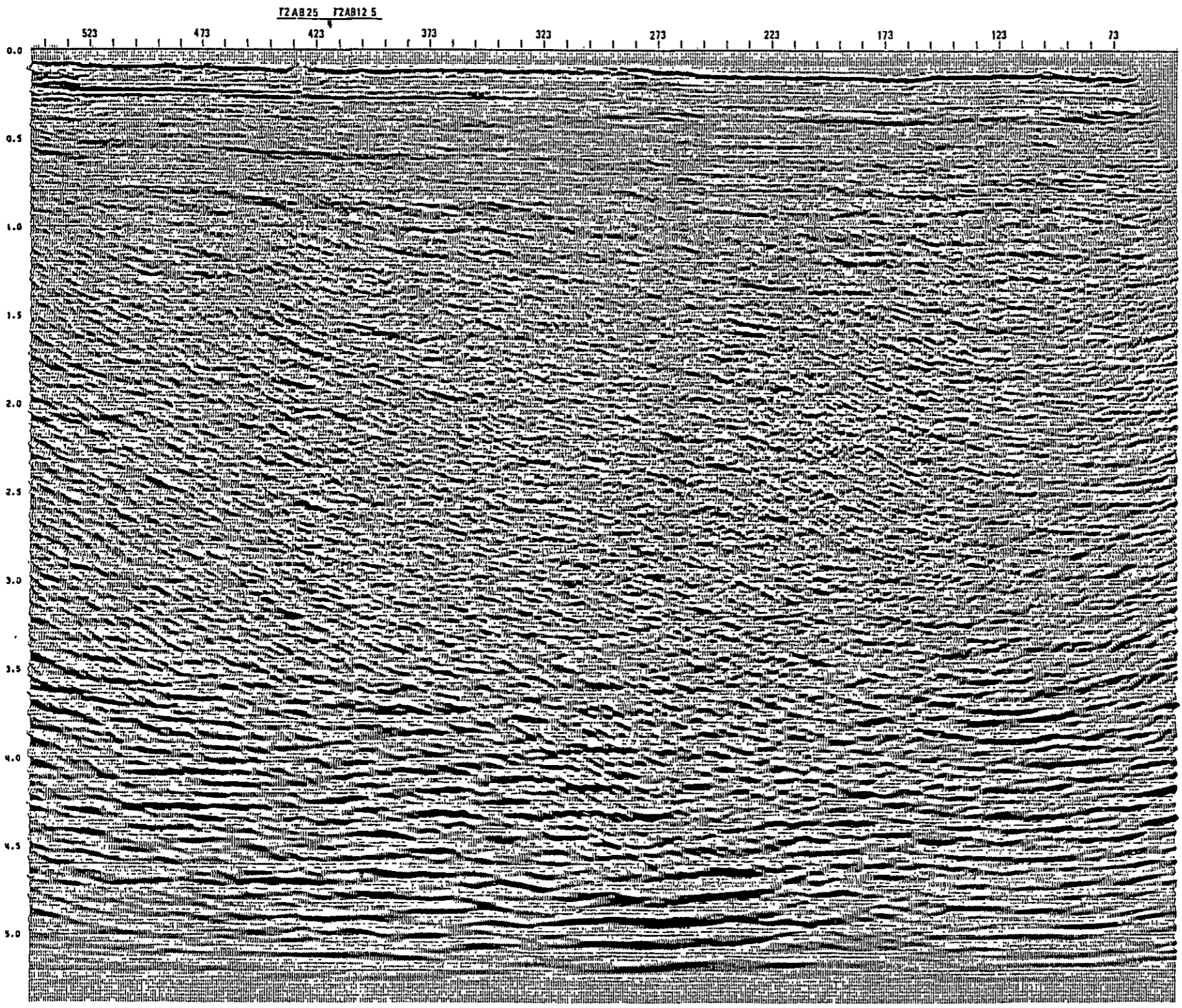
PROCESSING SEQUENCE

PROCESS LENGTH	3.0 SEC.
SAMPLE RATE	1-2 MSEC.
1 01 RECORD EDIT	1 01 MUTE
1 21 CDP SORT	1 31 STRETCH 24-FOLD
CDP INTERVAL 12.5 M.	
1 31 GAIN RECOVERY	1101 DECONVOLUTION
ARC GATE LENGTH 150 MSEC.	OP. DISTANCE 200 MSEC.
	DESIGN GATE LENGTH 2000 MSEC.
1 41 DECONVOLUTION	1111 T.V. FILTER
OP. LENGTH 300 MSEC.	OP. LENGTH 300 MSEC.
PA. DISTANCE 1 MSEC.	S = 30 MZ
DESIGN GATE LENGTH 2000 MSEC.	S = 50 MZ
1 51 RESAMPLE 1 TO 2 (INSEC.)	1121 DATA CORRECTION +12 MSEC.
1 61 VELOCITY ANALYSIS BY C.V. STACK	1131 SCALING TRACE SIGMA SCALE
1 71 NMO CORRECTION	1141 F-N DEPTH MIGRATION

DISPLAY

POLARITY	NORMAL
HORIZONTAL SCALE	10 IN./CH (1:12500)
VERTICAL SCALE	7.5 CM./IN. (1:13333)
DISPLAY GAIN	3 DECIBEL

JAPAN PETROLEUM EXPLORATION CO., LTD. GEOPHYSICAL HEADQUARTERS



5.5 INCH

5.5 INCH

VEL. ANALYSIS

JAPAN INTERNATIONAL COOPERATION AGENCY

E

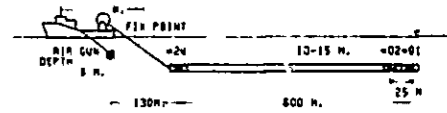
SEISMIC SURVEY
DEPTH MIGRATED SECTION

OFFSHORE AREA OF
ZONGULDAK COAL
FIELD IN TURKEY
LINE T2AB12.5
S.P. 0 - 602

ENCL. 13

FIELD RECORDING DATA

RECORDED BY	MM
INSTAUMENT	OPS 10
RECORD LENGTH	3.0 SEC.
SAMPLE RATE	1 MSEC.
FILTER	LOW 5736 HZ/OB/OCTI
	H 248 HZ
GEOM. CONTRAL	1.7.1.1
EMANCY SOURCE	1 MIP GUNS 170 CU. IN. (40.20.101)
	12.5 M
SHOT INTERVAL	24-FOLD
CDP MULTIPLIER	SEC-STREAMER
DETECTOR GAIN	20.1
SURVEY DATE	JUN 1 1979
SURVEY VESSEL	SISHA 1




PROCESSING SEQUENCE

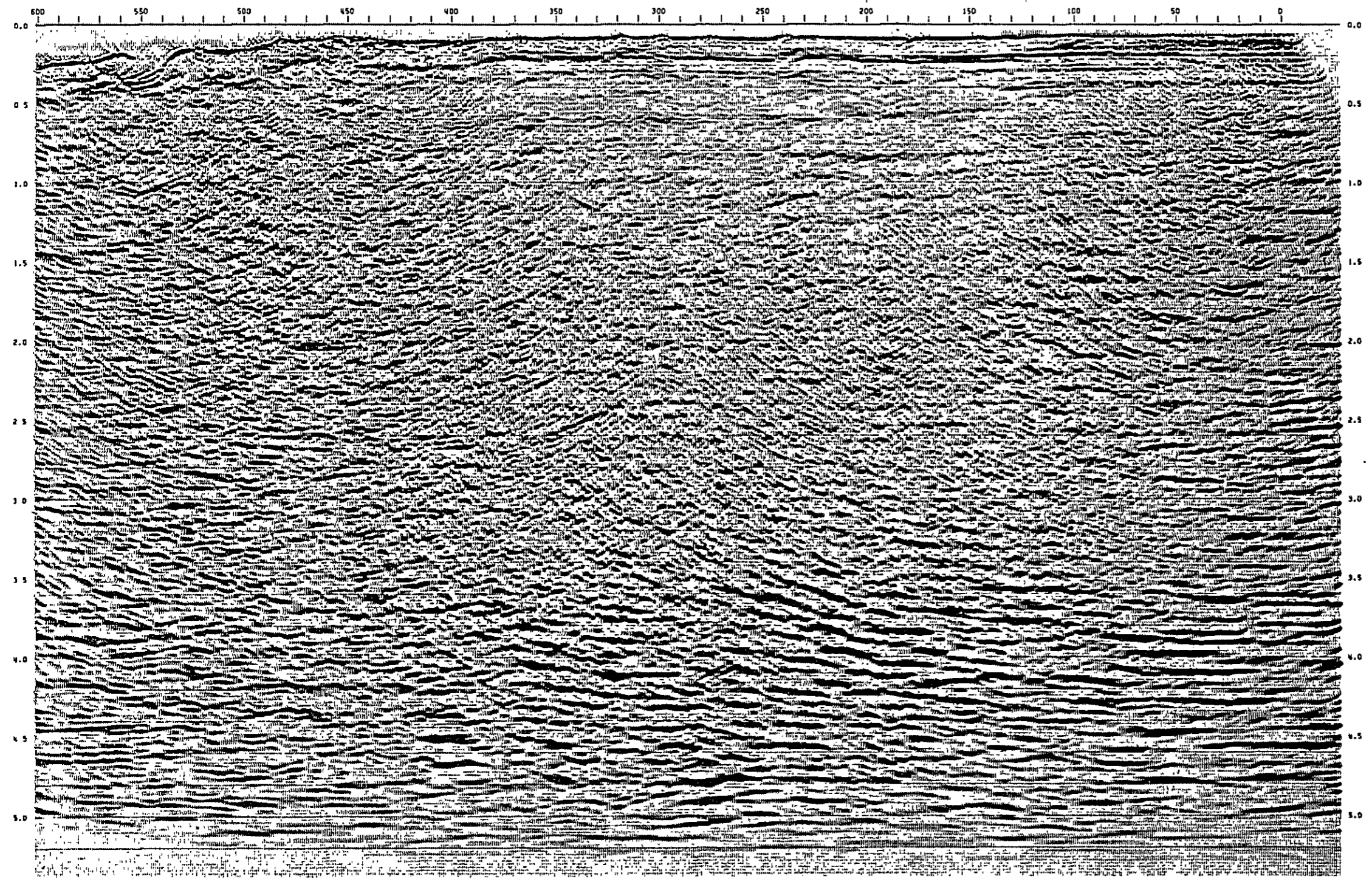
PROCESS LENGTH	3.0 SEC.
SAMPLE RATE	1-2 MSEC.
1) RECORD EDIT	1) 0) MUTE
2) CDP SORT	1) 0) STACK 24-FOLD
CDP INTERVAL 12.5 M.	1) 0) DECONVOLUTION
3) GAIN RECOVERY	PA. DISTANCE 2 MSEC.
AMP. GATE LENGTH 150 MSEC	OP. LENGTH 200 MSEC
4) DECONVOLUTION	DESIGN GATE LENGTH 2000 MSEC.
OP. LENGTH 300 MSEC.	1) 0) T-W FILTER
PA. DISTANCE 1 MSEC.	OP. LENGTH 300 MSEC.
DESIGN GATE LENGTH 2000 MSEC	2 - 70 HZ
	5 - 50 HZ
5) RESAMPLE 1 TO 2 INSEC.	1) 0) DUTON CORRECTION +12 MSEC.
6) VELOCITY ANALYSIS	1) 0) SCALING
BY C.V. STACK	TRACE SIGMA SCALE
7) NMO CORRECTION	1) 0) P-N DEPTH MIGRATION

DISPLAY

POLARITY	NORMAL
HORIZONTAL SCALE	10 CM./EN. 1:117000
VERTICAL SCALE	1.5 CM./EN. 1:117000
DISPLAY GAIN	3 DECIBEL

 JAPAN PETROLEUM EXPLORATION CO., LTD. GEOPHYSICAL HEADQUARTERS

CDP 377				CDP 380				CDP 383				CDP 386			
NO.	TIME	DEPTH	AMPLITUDE	NO.	TIME	DEPTH	AMPLITUDE	NO.	TIME	DEPTH	AMPLITUDE	NO.	TIME	DEPTH	AMPLITUDE
1	0.000	0.000	0.000	1	0.000	0.000	0.000	1	0.000	0.000	0.000	1	0.000	0.000	0.000
2	0.000	0.000	0.000	2	0.000	0.000	0.000	2	0.000	0.000	0.000	2	0.000	0.000	0.000
3	0.000	0.000	0.000	3	0.000	0.000	0.000	3	0.000	0.000	0.000	3	0.000	0.000	0.000
4	0.000	0.000	0.000	4	0.000	0.000	0.000	4	0.000	0.000	0.000	4	0.000	0.000	0.000
5	0.000	0.000	0.000	5	0.000	0.000	0.000	5	0.000	0.000	0.000	5	0.000	0.000	0.000
6	0.000	0.000	0.000	6	0.000	0.000	0.000	6	0.000	0.000	0.000	6	0.000	0.000	0.000
7	0.000	0.000	0.000	7	0.000	0.000	0.000	7	0.000	0.000	0.000	7	0.000	0.000	0.000
8	0.000	0.000	0.000	8	0.000	0.000	0.000	8	0.000	0.000	0.000	8	0.000	0.000	0.000
9	0.000	0.000	0.000	9	0.000	0.000	0.000	9	0.000	0.000	0.000	9	0.000	0.000	0.000
10	0.000	0.000	0.000	10	0.000	0.000	0.000	10	0.000	0.000	0.000	10	0.000	0.000	0.000



S.S

S.S

100	151	181	201	251	301	351	401	451	501
100	151	181	201	251	301	351	401	451	501
100	151	181	201	251	301	351	401	451	501
100	151	181	201	251	301	351	401	451	501
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100	151	181	201	251	301	351	401	451	501
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100	151	181	201	251	301	351	401	451	501
100	151	181	201	251	301	351	401	451	501
100	151	181	201	251	301	351	401	451	501

VEL. ANALYSIS

JAPAN INTERNATIONAL COOPERATION AGENCY

NE

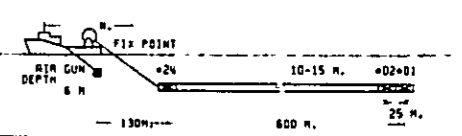
SEISMIC SURVEY
DEPTH MIGRATED SECTION

OFFSHORE AREA OF
ZONGULDAK COAL
FIELD IN TURKEY
LINE T3AB12.5
S.P. 1 - 549

ENCL. 14

FIELD RECORDING DATA

RECORDED BY: MIN 24
 INSTRUMEN: OPS 24
 RECORD LENGTH: 3.0 SEC.
 SAMPLE RATE: 1 MSEC.
 FILTER: LOW 5736 INT/OB/DC1
 24
 246 INT2
 COIN CONTROL: 1.7
 ENERGY SOURCE: 2 AIR GUNS (70 CU. IN. 140.20. 101)
 12.5 M
 SHOT INTERVAL: 24-FOLD
 CDP MULTIPLICITY: 24-FOLD
 DETECTOR CABLE: SEC-STREAMER
 SURVEY DATE: SUR 1979
 SURVEY VESSEL: SISHA 1



PROCESSING SEQUENCE

PROCESS LENGTH: 3.0 SEC.
 SAMPLE RATE: 1 MSEC.

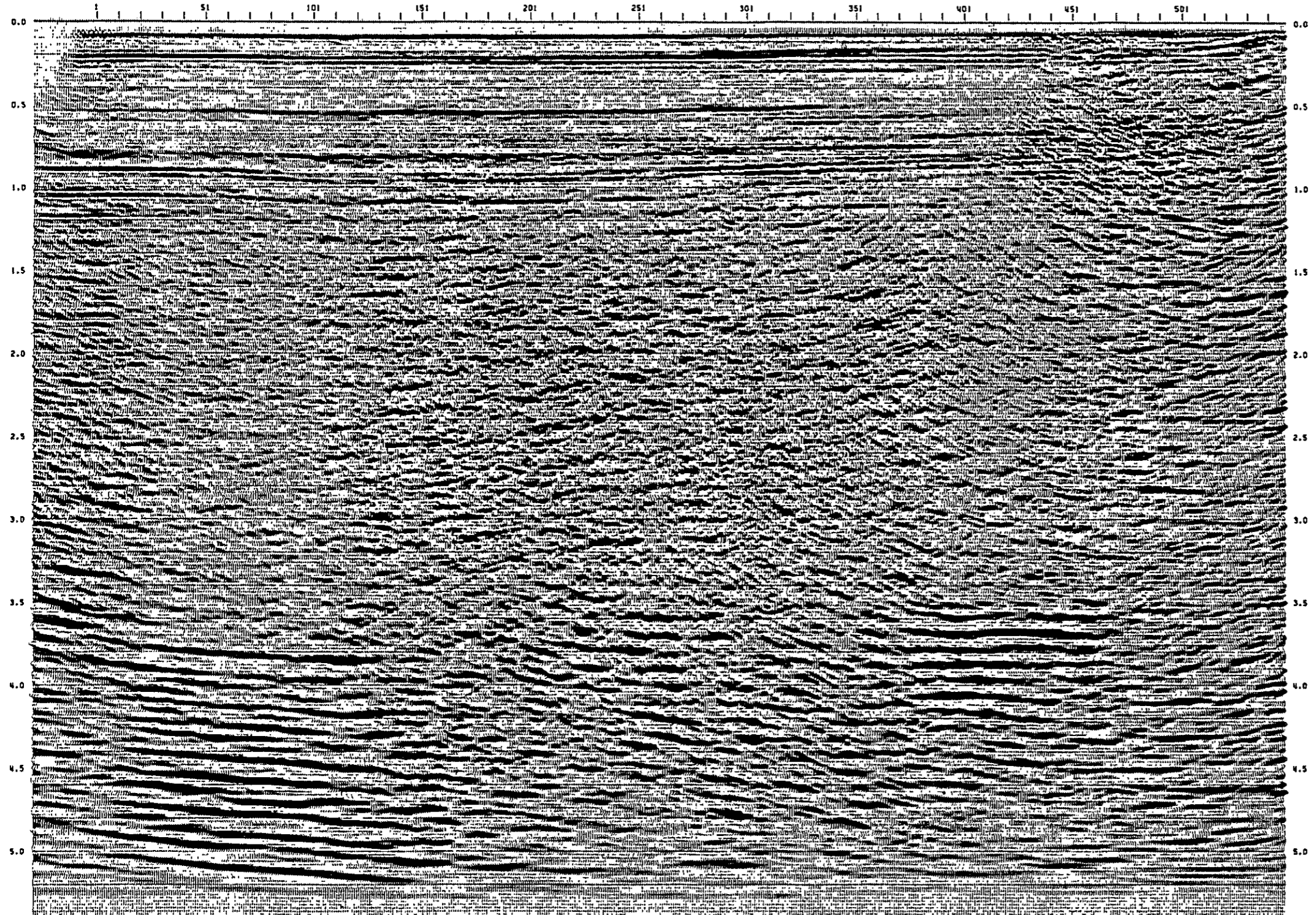
- 1 01 RECORD EDIT
- 1 02 CDP SORT
- 1 03 COIN RECOVERY
- 1 04 DECONVOLUTION
- 1 05 RESAMPLE 1 TO 2 (MSEC.)
- 1 06 VELOCITY ANALYSIS
- 1 07 ANO CORRECTION
- 1 08 MUTE
- 1 09 STRETCH 24-FOLD
- 110 DECONVOLUTION
- 111 T.W. FILTER
- 112 DATUM CORRECTION +12 MSEC.
- 113 SCALING
- 114 F.A. DEPTH MIGRATION

110 DECONVOLUTION: AM. DISTANCE 2 MSEC., OP. LENGTH 200 MSEC., DESIGN GATE LENGTH 2000 MSEC.
 111 T.W. FILTER: OP. LENGTH 300 MSEC., AM. DISTANCE 5 - 70 MZ, DESIGN GATE LENGTH 2000 MSEC., 2 - 80 MZ, 5 - 50 MZ

DISPLAY

POLARITY: NORMAL
 HORIZONTAL SCALE: 10 CM / CM
 VERTICAL SCALE: 7.5 CM / M
 DISPLAY GAIN: 11:125000
 11:133333
 5 DECIBEL

JAPAN PETROLEUM EXPLORATION CO., LTD.
GEOPHYSICAL HEADQUARTERS



CDP 291				CDP 466				CDP 634				CDP 802			
TIME	CH 1	CH 2	CH 3	TIME	CH 1	CH 2	CH 3	TIME	CH 1	CH 2	CH 3	TIME	CH 1	CH 2	CH 3
0.000	2750	2750	2750	0.000	2750	2750	2750	0.000	2750	2750	2750	0.000	2750	2750	2750
0.100	3827	4359	4680	0.100	3827	4359	4680	0.100	3827	4359	4680	0.100	3827	4359	4680
0.200	3852	4241	4873	0.200	3852	4241	4873	0.200	3852	4241	4873	0.200	3852	4241	4873
0.300	3895	4203	5122	0.300	3895	4203	5122	0.300	3895	4203	5122	0.300	3895	4203	5122
0.400	3940	4138	5371	0.400	3940	4138	5371	0.400	3940	4138	5371	0.400	3940	4138	5371
0.500	3986	4231	5581	0.500	3986	4231	5581	0.500	3986	4231	5581	0.500	3986	4231	5581
0.600	4032	4148	5791	0.600	4032	4148	5791	0.600	4032	4148	5791	0.600	4032	4148	5791
0.700	4078	4167	6001	0.700	4078	4167	6001	0.700	4078	4167	6001	0.700	4078	4167	6001

JAPAN INTERNATIONAL COOPERATION AGENCY

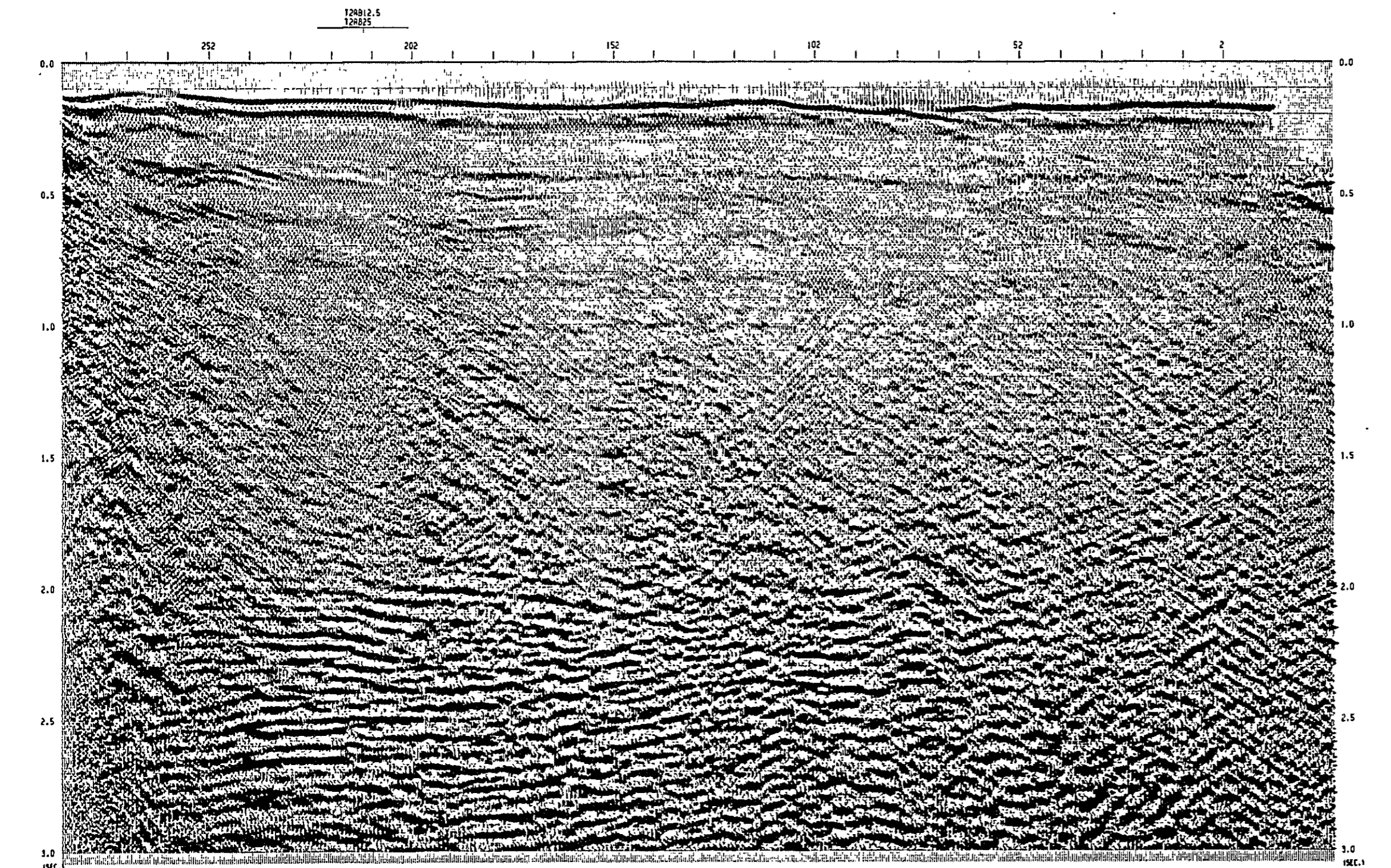
NE

SEISMIC SURVEY
24 FOLD RECORD SECTION
OFFSHORE AREA OF ZONGULDAK COAL FIELD IN TURKEY
LINE T1A825
S.P.291 - 2
ENCL. 15

VEL. ANALYSIS

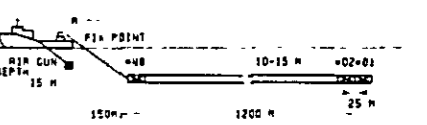
CROSS LINE

SHOT NUMBER



FIELD RECORDING DATA

RECORDED BY	HKG
INSTRUMENT	DP-5
RECORD LENGTH	2 SEC.
SAMPLE RATE	2 HSEC.
FILTER	LOW 8 36 HZ 00-OCT1
CRIN. CONTROL	Y1 124 6427
ENERGY SOURCE	5 000 CUMS 11693 CU. IN.
SHOT INTERVAL	1800 PSL.
CDP MULTIPLICITY	24
SECTION CABLE	20 FEET
SURVEY DATE	JUL 1 1976
SURVEY VESSEL	SISARU 1



- PROCESSING SEQUENCE
- | | | |
|----------------------|----------------------|-------------------|
| 1: RECORD EDIT | 2: STAC | 24-FOLD |
| 2: CDP SORT | 10: DATUM CORRECTION | +10 HSEC. |
| 3: GAIN RECOVERY | 110: SCALING | TRACE SIGNA SCALE |
| ARC GATE LENGTH | 150 HSEC. | |
| 4: DECONVOLUTION | 300 HSEC. | |
| SP. LENGTH | 300 HSEC. | |
| PH. DISTANCE | 2 HSEC. | |
| DESIGN GATE LENGTH | 3000 HSEC. | |
| 5: BANDPASS FILTER | 0-70 HZ | |
| OP. LENGTH | 300 HSEC. | |
| 6: VELOCITY ANALYSIS | BY C.L. SCAN/GATHER | |
| 7: NMC CORRECTION | | |

DISPLAY

POLARITY	NORMAL
HORIZONTAL SCALE	10 CM. CH 11:2500'
VERTICAL SCALE	5 INCH-SEC. 112.7 CM / SEC.
DISPLAY GAIN	3 DECIBEL



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GEOPHYSICAL HEADQUARTERS