

TAVOLA 3

SEZIONI DI SISMICA A RIFRAZIONE

TAVOLA 3. SEZIONE DI SISMICA. SEZ. ZARG

D	5	3.0	136.
D	6	3.0	167.
D	7	6.5	171.
D	8	11.5	183.
D	9	16.3	199.
D	10	21.3	282.
D	11	26.2	290.
D	12	31.1	308.
E	1	30.7	326.
E	2	25.8	315.
E	3	20.8	296.
E	4	16.4	283.
E	5	13.3	258.
E	6	7.6	84.
E	7	3.9	129.
E	8	1.2	103.
E	9	6.0	200.
E	10	11.0	200.
E	11	16.0	179.
E	12	20.9	228.
B	3	44.7	310.
B	4	40.4	299.
B	5	37.1	293.
B	6	31.1	297.
B	7	27.8	251.
B	8	22.9	194.
B	9	18.0	183.
B	10	13.0	188.
B	11	8.0	177.
B	12	3.0	166.

308.

302.

285.

 Wtd Avg Velocity computed for Layer 1 = 324.

Arrival times T and distances X corrected to datum. (Datum Elev = 3.2 + -.0556X)

Spread A	Elev	SP A	SP C	SP D	SP E	SP B
		3.5	2.4	2.1	1.5	.2
Geo	Corr T	T-X	T-X	T-X	T-X	T-X
1	3.2	18.0	0	76.0	0	232.3
2	4.1	29.0	5.0	60.0	2	136.0
3	2.7	42.0	10.0	41.0	4.8	120.0
4	2.4	53.0	14.4	26.0	9.7	106.0
5	2.2	-10.0	18.0	22.0	14.3	90.0
6	1.9	-11.4	24.0	18.0	17.8	84.0
7	1.7	-3.2	32.0	18.0	23.8	90.0
8	1.5	2.9	31.7	38.0	27.3	30.0
9	1.2	1.7	104.0	36.7	32.3	12.0
10	.9	3.9	147.0	41.6	37.1	30.0
11	.6	2.7	162.0	46.6	42.1	55.0
12	.4	1.6	183.0	51.6	47.0	89.0
				52.0	51.7	22.0
				92.0	46.7	48.0
				143.0	41.7	98.0
				158.0	36.7	138.0
				183.0	26.9	158.0
				213.0	17.5	176.0
				226.1	14.3	166.0
				232.3	10.0	117.5
				232.3	5.0	23.5
				232.3	0	28.9
				232.3	-0.0	31.7
				232.3	-0.0	36.7
				232.3	-0.0	41.6
				232.3	-0.0	46.6
				232.3	-0.0	51.6

Layer 2 Velocity V and Intercept time Ti computed by regression:

Spread A	Geo	SP	Geo	Ti	V	AVG V	AVG Ti	Pts
788.	163.0	1	2	B	0	0	.0	000.
								788.
								163.0
								2.
								AVG = 788.
								for 2. Pts

Layer 2 Velocity V, Avg dTi and Eps computed by Hobson-Overton method:
 Not enough points.

TAVOLA 3. SEZIONE DI SISMICA. SEZ. ZARG

Time-Distance Plot -- Raw data with no corrections applied.

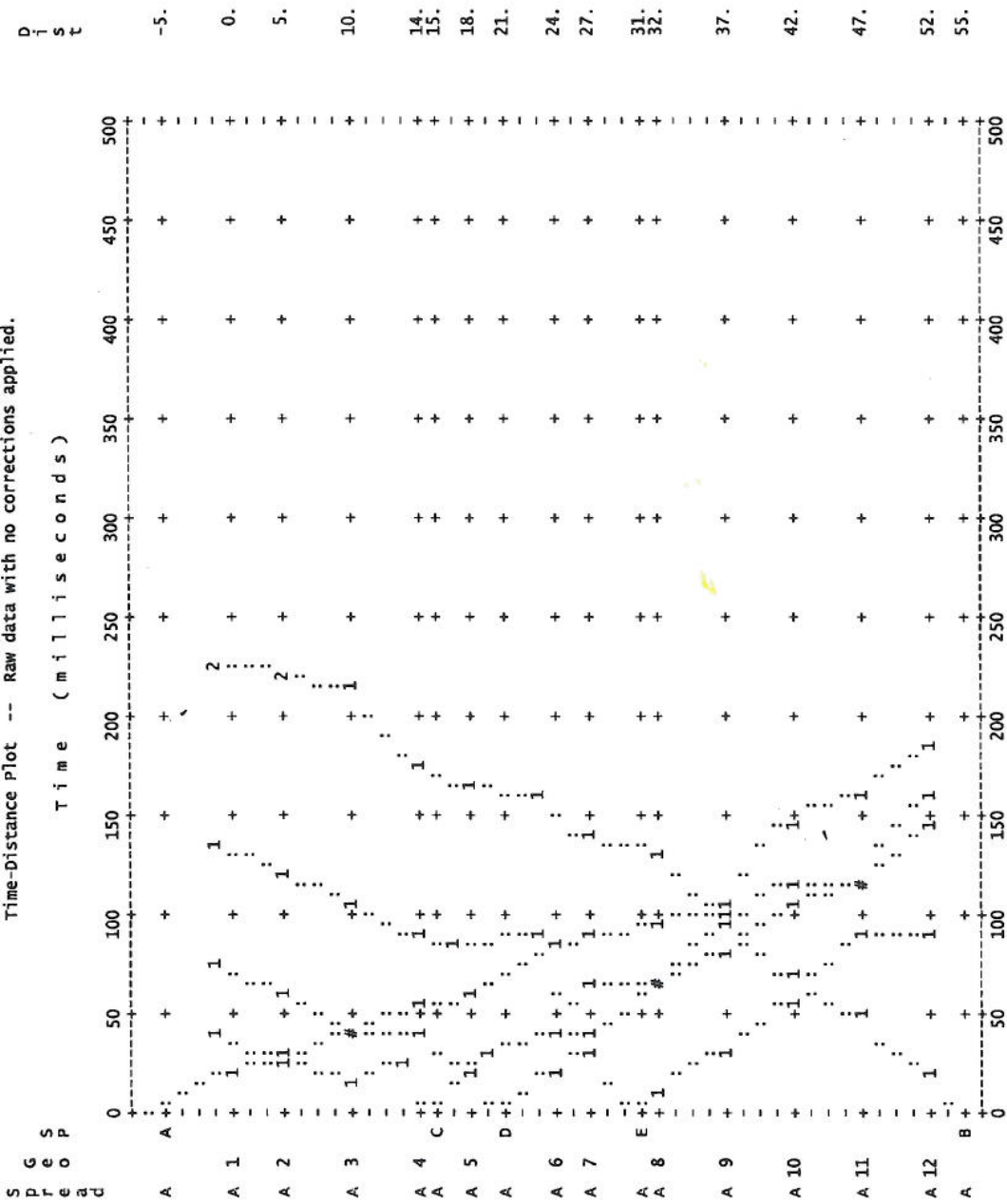


TAVOLA 3. SEZIONE DI SISMICA. SEZ. ZARG

Wtd Avg Velocity computed for Layer 2 = 788.

Arrival times T corrected to base of Layer 1, and Elev of base of Layer 1

Geo	SP A	SP C	SP D	SP E	SP B
1	-16.9	78.0	96.5	86.7	86.9
2	-17.2	81.3	0.0	0.0	60.1
3	-17.4	82.3	0.0	0.0	53.7
4	-17.7	82.6	0.0	0.0	10.0
5	-18.0	82.8	0.0	0.0	14.3
6	-18.4	83.2	0.0	0.0	17.5
7	-18.6	83.4	0.0	0.0	23.2
8	-18.9	83.7	0.0	0.0	26.9
9	-19.3	84.0	0.0	0.0	31.7
10	-19.6	84.3	0.0	0.0	36.7
11	-20.0	84.6	0.0	0.0	41.6
12	-20.3	86.1	0.0	0.0	46.6

Ray end points below geophones

Geo	SP A	SP C	SP D	SP E	SP B
1	X-LOC	0.1	0.1	0.1	5.52
	Elev	0.0	0.0	0.0	-17.2
2	X-LOC	0.1	0.1	0.1	10.02
	Elev	0.0	0.0	0.0	-17.4
3	X-LOC	0.1	0.1	0.1	0.1
	Elev	0.0	0.0	0.0	0.0
4	X-LOC	0.1	0.1	0.1	0.1
	Elev	0.0	0.0	0.0	0.0
5	X-LOC	0.1	0.1	0.1	0.1
	Elev	0.0	0.0	0.0	0.0
6	X-LOC	0.1	0.1	0.1	0.1
	Elev	0.0	0.0	0.0	0.0
7	X-LOC	0.1	0.1	0.1	0.1
	Elev	0.0	0.0	0.0	0.0
8	X-LOC	0.1	0.1	0.1	0.1
	Elev	0.0	0.0	0.0	0.0
9	X-LOC	0.1	0.1	0.1	0.1
	Elev	0.0	0.0	0.0	0.0
10	X-LOC	0.1	0.1	0.1	0.1
	Elev	0.0	0.0	0.0	0.0
11	X-LOC	0.1	0.1	0.1	0.1
	Elev	0.0	0.0	0.0	0.0
12	X-LOC	0.1	0.1	0.1	0.1
	Elev	0.0	0.0	0.0	0.0

Ray end points below shotpoints

Geo	SP A	SP B
L=2 Right	X-LOC	0.0
	Elev	-16.9
L=2 Left	Pos	0.0
	Elev	46.8
		-20.0

TAVOLA 3. SEZIONE DI SISMICA. SEZ. ZARG

Spread A Depth and Elev of layers directly beneath SPS and Geos

SP	X-Loc	Surface	Elev	Depth	Elev
A	-5.0		1.5	18.1	-16.6
C	13.3		1.0	18.8	-17.8
D	20.8		4.6	22.8	-18.2
E	30.7		1.6	20.5	-18.9
B	54.6		.0	20.5	-20.5
Geo					
1	.0		1.5	18.4	-16.9
2	5.0		2.0	19.2	-17.2
3	10.0		3.0	19.4	-17.4
4	14.4		4.6	20.7	-17.7
5	17.8		4.6	18.6	-18.0
6	23.8		2.5	18.0	-18.4
7	27.0		2.5	21.1	-18.6
8	31.7		.8	19.7	-18.9
9	36.7		.8	20.1	-19.3
10	41.6		.0	19.6	-19.6
11	46.6		.0	20.0	-20.0
12	51.6		.0	20.3	-20.3

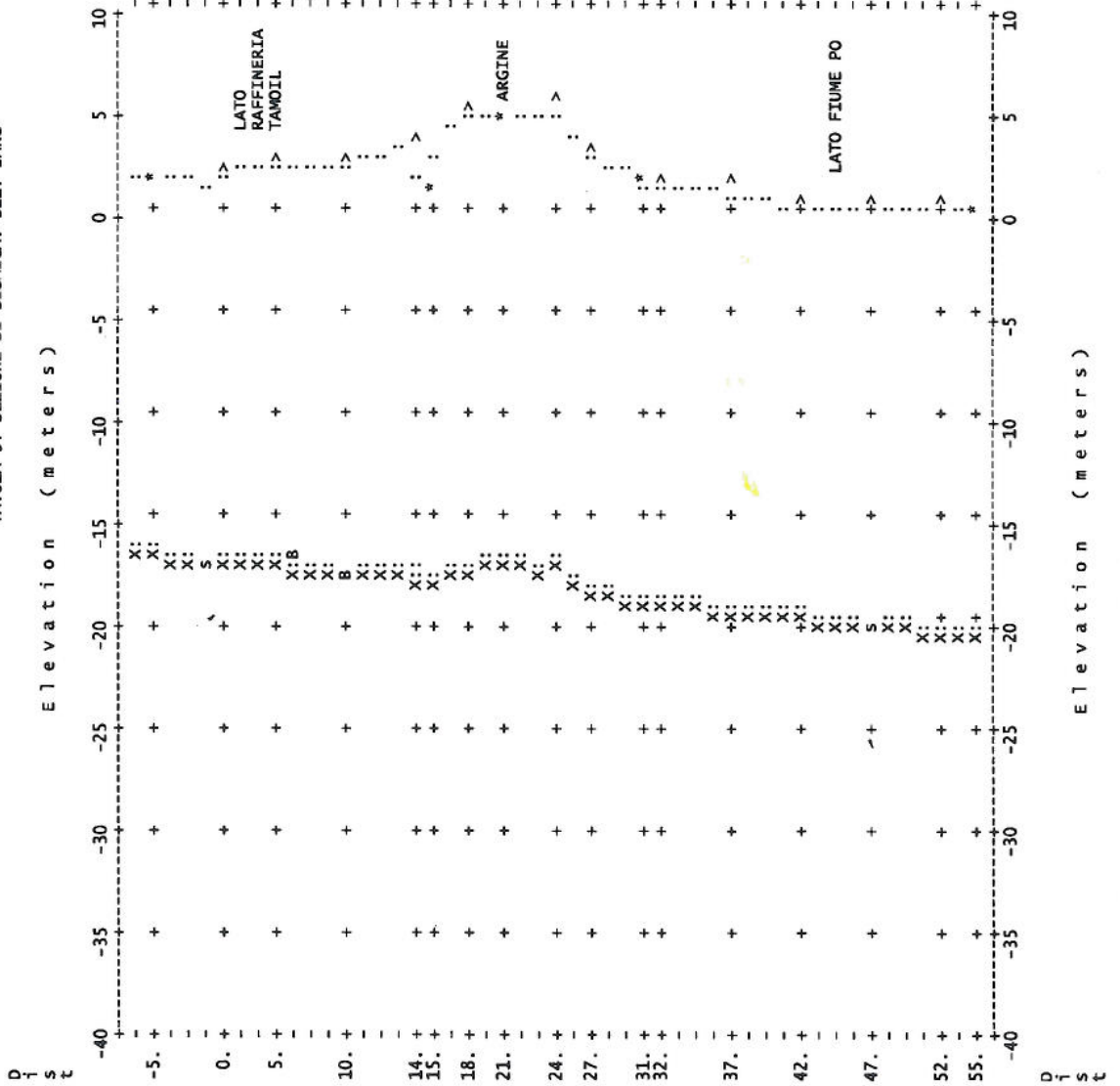
Velocities used, Spread A

Layer 1	Layer 2
324.	788.

Vertical
Horizontal

TAVOLA 3. SEZIONE DI SISMICA. SEZ. ZARG

Grid
Section



Printer Plot Scales

Elev: .50 m/col
Dist: 1.25 m/row

Legend

- > Geophone Location - * Shotpoint Location - A,B,C Emergent Raypoint Location
- ? Questionable Emergent Raypoint - s Ray Entrypoint Beneath SP -
- # More Than One Symbol to Plot Here - + Grid Mark - X: SUBSTRATE

TAVOLA 3. SEZIONE DI SISMICA. SEZ. 2ARG

B 11 4.0 114.
 B 12 1.0 85.
 296.

Wtd Avg Velocity computed for Layer 1 = 330.

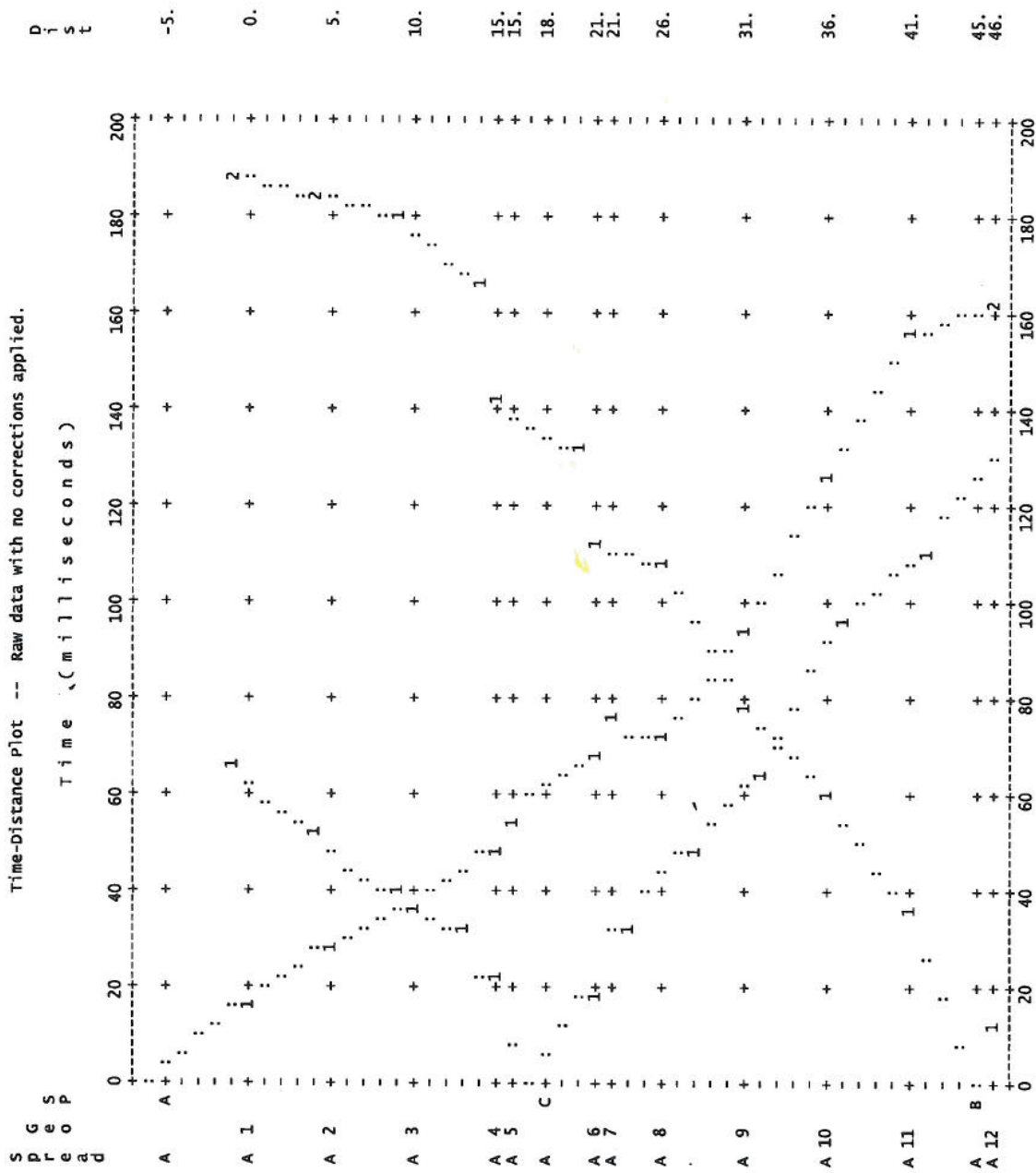


TAVOLA 3. SEZIONE DI SISMICA. SEZ. ZARG

PRINTER PLOT SCALES

Time: 2.00 ms/col
Dist: 1.00 m/row

Arrival times T and distances X corrected to datum. (Datum Elev = 1.6 + -.0304X)
Spread A SP A SP C SP B

Geo	1.6	1.8	1.1	1.1	.3
Elev	.0	.0	.0	.0	.0
Corr T	T	X	T	X	T
1	16.0	0	65.0	4	192.6
2	4.6	5.0	52.0	4.4	187.9
3	3.9	10.0	39.0	9.1	180.0
4	3.3	36.0	31.0	13.0	165.0
5	2.7	47.0	22.0	15.0	142.0
6	-13.3	54.0	17.0	21.0	132.0
7	-14.1	67.0	11.0	23.0	111.0
8	2.0	75.0	31.0	27.2	108.0
9	3.4	71.0	48.0	31.7	78.0
10	2.8	94.0	64.0	36.5	60.0
11	2.2	126.0	95.0	41.4	35.0
12	1.6	155.0	110.0	46.3	12.0
12	.9	162.9	132.0	46.3	46.0

Layer 2 Velocity V and Intercept time Ti computed by regression:

Spread A	Geos	SP	Geos	Ti	V	Avg V	Avg Ti	Pts
1084.	151.1	1	2	8	0	0	.0	000.
								Avg = 1084. for 2. Pts
								1084. 151.1 2.

Layer 2 Velocity V, Avg dTi and Eps computed by Hobson-Overton method:
Not enough points.

wtd Avg Velocity computed for Layer 2 = 1084.

Arrival times T corrected to base of Layer 1, and Elev of base of Layer 1

Spread A	SP A	SP C	SP B	
Elev	-14.9	-15.6	-16.2
Corr T	T	X	T	X
1	62.6	0	80.9	65.1
2	63.2	5.0	4.4	60.3
3	63.9	10.0	9.1	55.7
4	64.5	15.0	13.0	10.0
5	80.5	0	15.4	0
6	81.3	0	21.3	0
7	81.7	0	21.0	0
8	63.8	0	26.0	0
9	64.4	0	31.0	0
10	65.0	0	36.0	0
11	60.6	0	41.0	0
12	66.2	33.7	46.0	0

Ray end points below geophones

Geo	SP A	SP C	SP B
1	.0	.0	.0
2	.0	.0	.0
X-Loc	.0	.0	.0
Elev	.0	.0	.0
X-Loc	.0	.0	.0

TAVOLA 3. SEZIONE DI SISMICA. SEZ. 2ARG

3	Elev	.0	.0	-10.3 ?
	X-Loc Elev	.0 1	.0 1	.0 1
4	X-Loc Elev	.0 1	.0 1	.0 1
5	X-Loc Elev	.0 1	.0 1	.0 1
6	X-Loc Elev	.0 1	.0 1	.0 1
7	X-Loc Elev	.0 1	.0 1	.0 1
8	X-Loc Elev	.0 1	.0 1	.0 1
9	X-Loc Elev	.0 1	.0 1	.0 1
10	X-Loc Elev	.0 1	.0 1	.0 1
11	X-Loc Elev	.0 1	.0 1	.0 1
12	X-Loc Elev	41.6 2	.0 1	.0 1
	Elev	-15.1	.0	.0

Spread A Ray end points below shotpoints

L=2	Right	X-Loc Elev	-4.9	.0	.0
L=2	Left	Pos Elev	.0	.0	40.6
					-15.1 ?

Spread A Depth and Elev of layers directly beneath SPS and Geos

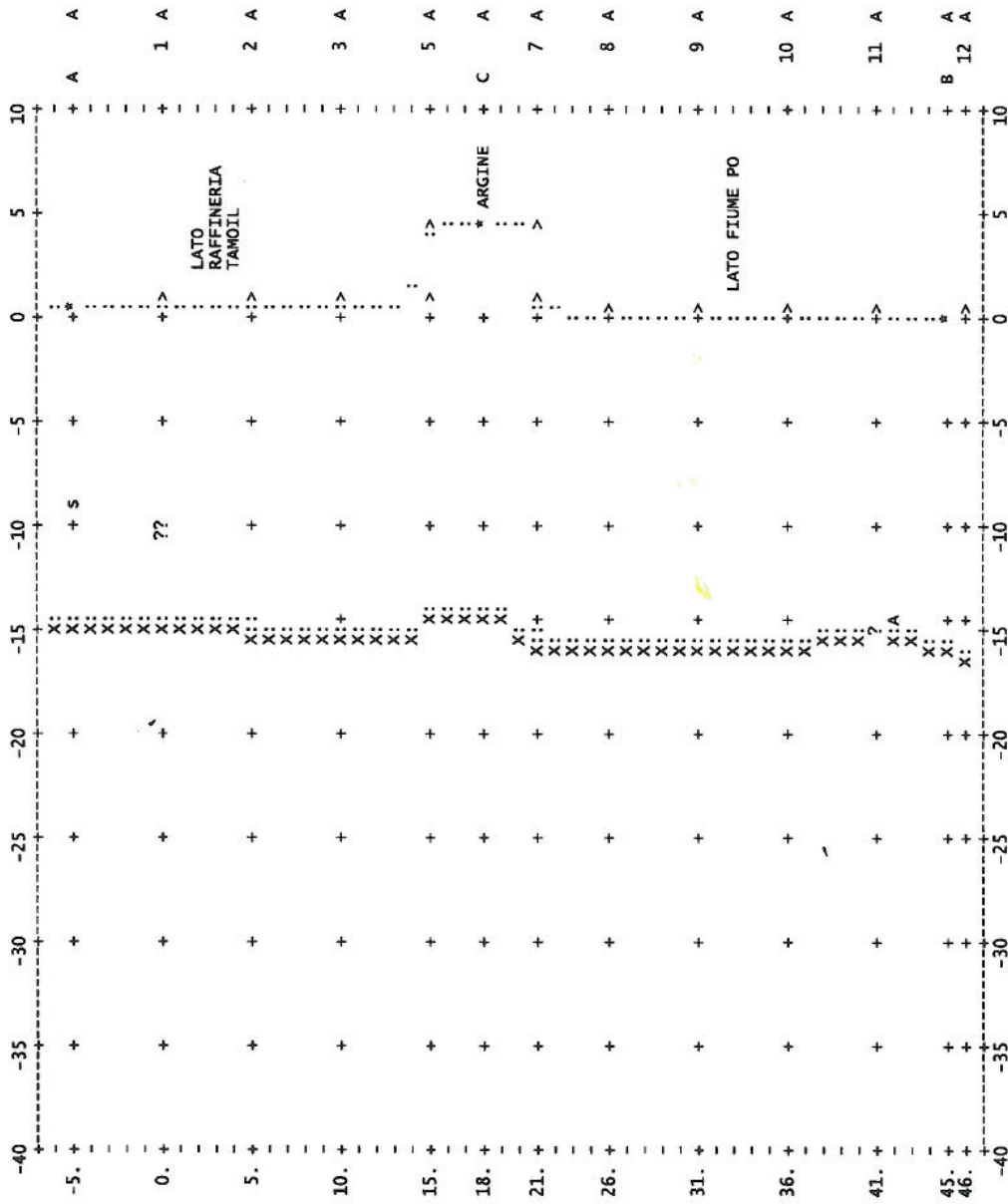
SP	X-Loc	Surface		Layer 2	
		Elev	Depth	Depth	Elev
A	-5.0	.5	15.4	-14.9	
C	18.0	4.5	20.1	-15.6	
B	44.9	.0	16.2	-16.2	
Geo					
1	.0	.5	15.6	-15.1	
2	5.0	.5	15.7	-15.2	
3	10.0	.5	15.9	-15.4	
4	15.0	.5	16.0	-15.5	
5	20.0	4.5	18.0	-15.5	
6	21.0	4.5	18.2	-15.7	
7	21.0	.5	16.2	-15.7	
8	28.0	.0	15.9	-15.9	
9	31.0	.0	16.0	-16.0	
10	36.0	.0	16.2	-16.2	
11	41.0	.0	15.1	-15.1	
12	46.0	.0	16.5	-16.5	

Velocities used, Spread A

Layer 1	-----	Layer 2	-----
Vertical	330.		
Horizontal			1084.

TAVOLA 3. SEZIONE DI SISMICA. SEZ. ZARG

Elevation (meters)



Dist

Elevation (meters)

PRINTER PLOT SCALES

Elev: .50 m/co]

Dist: 1.00 m/row

LEGEND

- > Geophone Location - * Shotpoint Location - A,B,C Emergent Raypoint Location
- ? Questionable Emergent Raypoint - s Ray Entrypoint Beneath SP
- # More Than One Symbol to Plot Here - + Grid Mark - X: SUBSTRATE