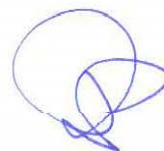



POGGIODOMO
scala 1:5.000

PETRALLA RAFFAELA



	TRACCIA DEI PROFILI SISMICI
---	-----------------------------

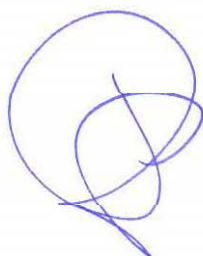
PROFILO SISMICO A RIFRAZIONE

PROFILO n° 1

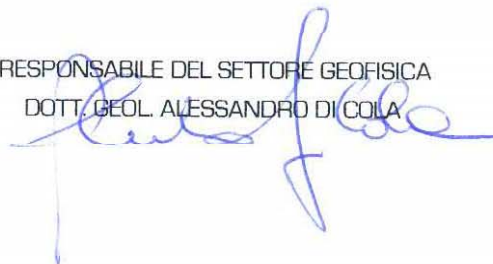
COMMITTENTE: DOTT. GEOLOGO RAFFAELLA PETRALLA

LOCALITA': POGGIODOMO
COMUNE: POGGIODOMO

DATA: 26 febbraio 1999



RESPONSABILE DEL SETTORE GEOFISICA
DOTT. GEOL. ALESSANDRO DI COLA



PROFILO SISMICO A RIFRAZIONE

PROFILO n° 1
COMMITTENTE: DOTT. GEOLOGO RAFFAELLA PETRALLA
CANTIERE: POGGIODOMO
DATA: 26/02/99

CARATTERISTICHE TECNICHE DELLA STRUMENTAZIONE

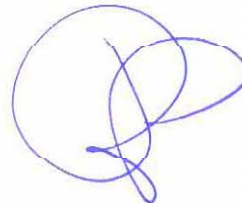
risoluzione di acquisizione: 16 bits
geofoni tipo: verticali
frequenza geofoni: 10 Hz
energizzazione: a percussione di massa battente su piattello orizzontale
elaborazione dati: ITM - GRM

GEOMETRIA DELLO STENDIMENTO

geofoni n°	G = 12	
distanza intergeofonica (m)	d = 5	
scoppi n°	s = 7	
profondità di energizzazione (m)	h = 0,0	
lunghezza stendimento (m)	L = 60	
distanza 1° geofono (m)	G1 = 2,5	
distanza 2° geofono (m)	G2 = 7,5	
distanza 3° geofono (m)	G3 = 12,5	
distanza 4° geofono (m)	G4 = 17,5	
distanza 5° geofono (m)	G5 = 22,5	
distanza 6° geofono (m)	G6 = 27,5	
distanza 7° geofono (m)	G7 = 32,5	
distanza 8° geofono (m)	G8 = 37,5	
distanza 9° geofono (m)	G9 = 42,5	
distanza 10° geofono (m)	G10 = 47,5	
distanza 11° geofono (m)	G11 = 52,5	
distanza 12° geofono (m)	G12 = 57,5	ORA REG.
distanza 1° scoppio (m)	T2 = 0	15,30
distanza 2° scoppio (m)	T3 = 15	15,37
distanza 3° scoppio (m)	T4 = 30	15,39
distanza 4° scoppio (m)	T5 = 45	15,41
distanza 5° scoppio (m)	T6 = 60	15,43
offset n°1 (m)	T0 =	
offset n°2 (m)	T1 = -20	15,33
offset n°3 (m)	T7 = 90	15,52
offset n°4 (m)	T8 =	

NOTE

a) vedi quote geofoni e punti di energizzazione sul profilo geofisico



PROFILO SISMICO A RIFRAZIONE: ELABORAZIONE DATI

PROFILO n° 1
COMMITTENTE DOTT. GEOLOGO RAFFAELLA PETRALLA
CANTIERE POGGIODOMO
DATA 26/02/99

PROFILO GEOFISICO

LAYER	V_p (m/s)	V_s (m/s)*	γ (t/mc)
1	160	65	1,70
2	650	295	1,80
3	1270	610	2,00
4	3500	2020	2,50
5			

MODULI ELASTICI DINAMICI

coefficiente di Poisson
mod. di Young (MPa)
mod. di incomp. (MPa)
mod. di taglio (MPa)

	LAYER 1	LAYER 2	LAYER 3	LAYER 4	LAYER 5
$\nu =$	0,40	0,37	0,35	0,25	
$E =$	20	405	2009	25508	
$K =$	34	552	2234	17024	
$\mu =$	7	157	744	10201	

STRATIGRAFIA GEOFISICA **

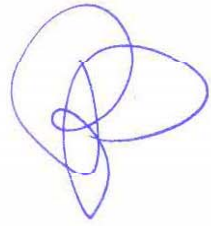
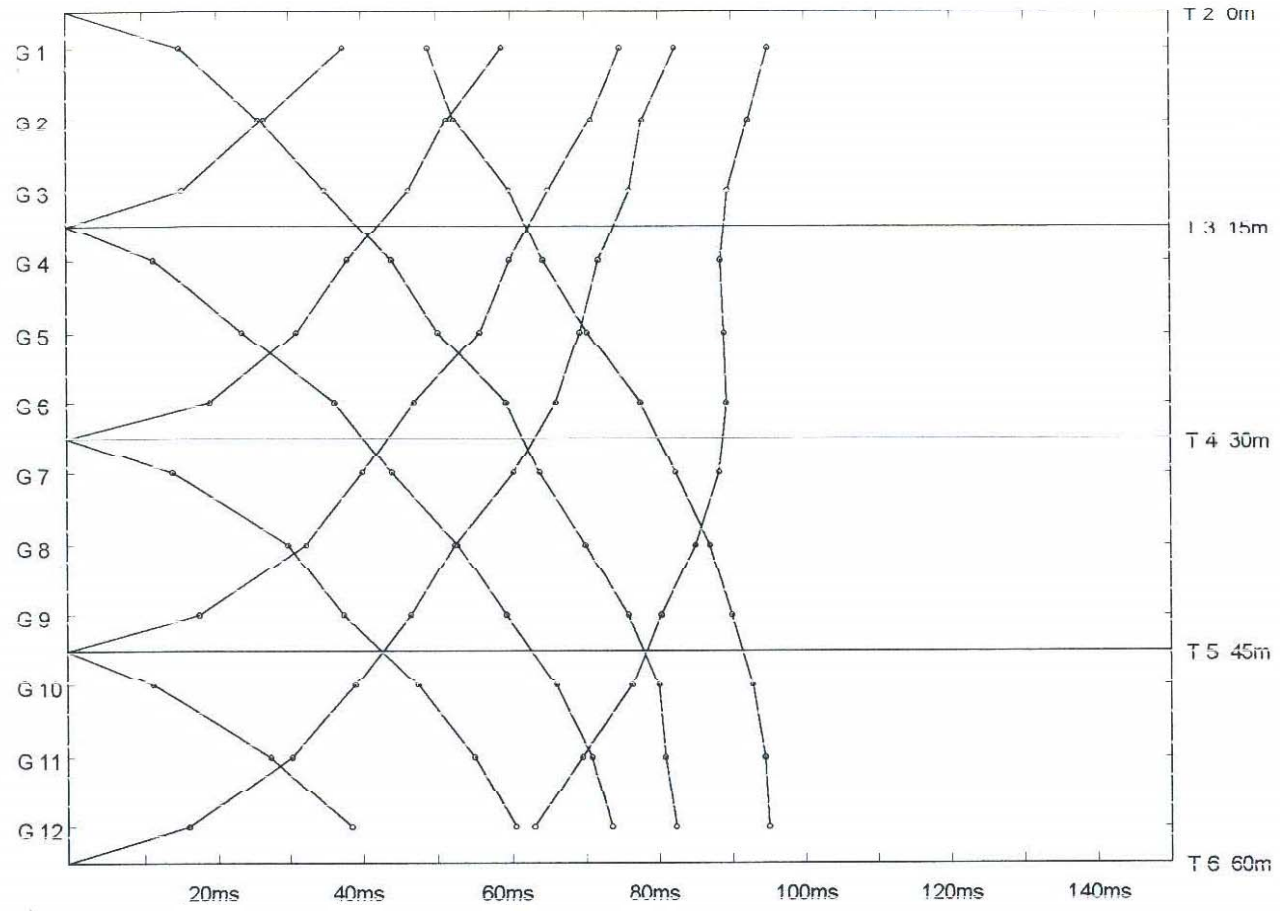
	SHOT 2		SHOT 3		SHOT 4		SHOT 5	
LAYER	thickness	depht	thickness	depht	thickness	depht	thickness	depht
1	1,00		1,00		1,50		1,60	
2	6,20	1,00	6,20	1,00	6,20	1,50	5,60	1,60
3	25,00	7,20		7,20		7,70		7,40
4		32,20						
5								
	SHOT 6							
LAYER	thickness	depht						
1	1,60							
2	7,80	1,60						
3	15,00	9,40						
4		24,40						
5								

(*) calcolata per dati valori di ν

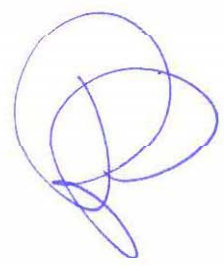
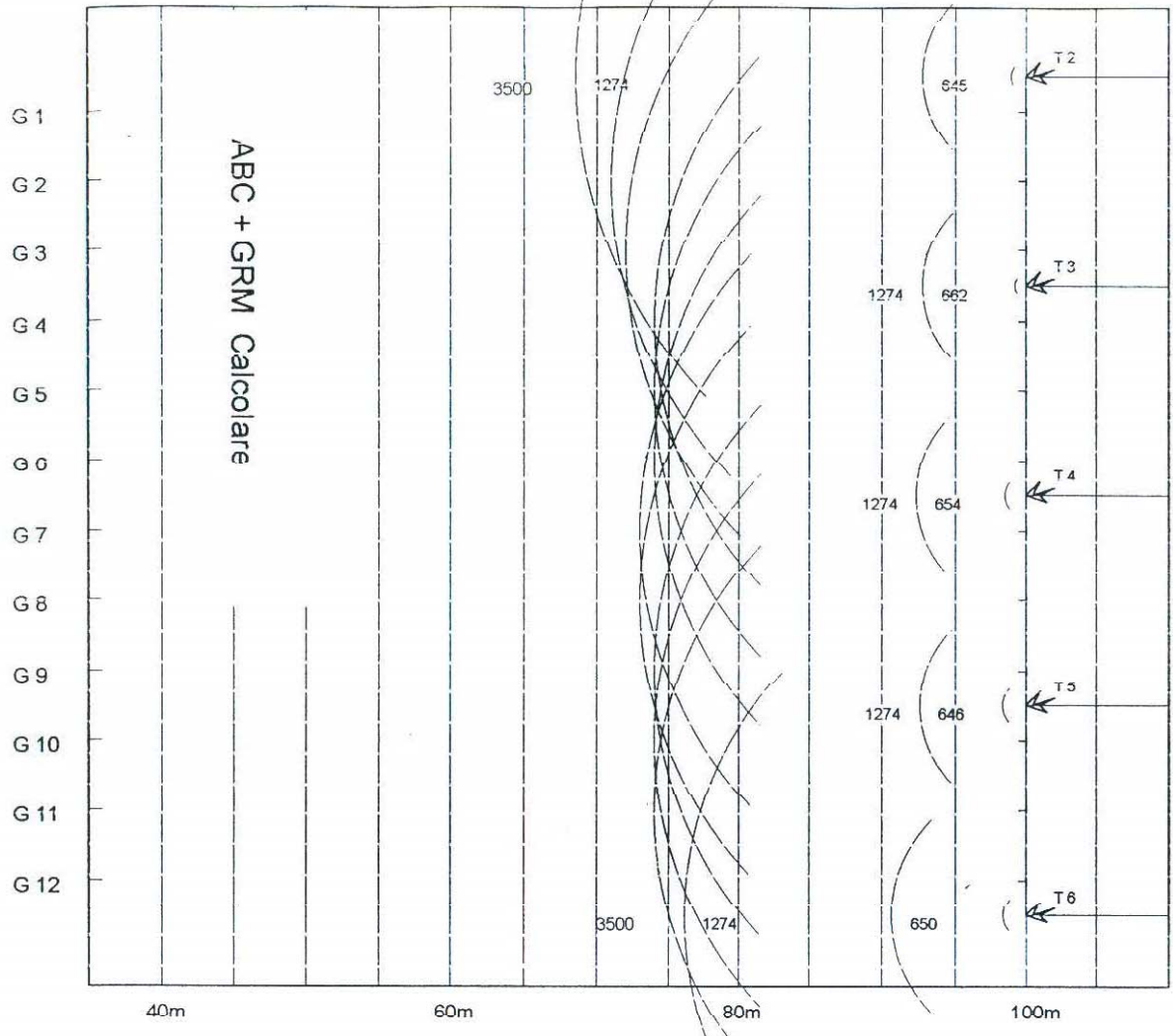
(**) calcolato con ITM - le profondità e gli spessori calcolati con il GRM sono riportati sul profilo geofisico



Foggiodoro 1 X 1/500 Y 1/1000



Poggiodoro 1 X 1/ 500 Y 1/ 500



PAST INSTRUMENT

Time ACQ 15:30:00
Date ACQ (yy/mm/dd) 99/02/26

SONDAGGIO Rifrazione

Durata 256 ms

RITARDO 0 ms

Offsety 0 m

Offsetx 0 m

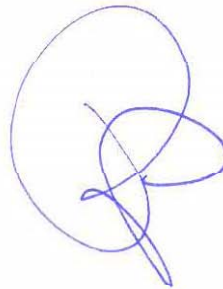
CAMPIONAMENTO 250.00 μ s

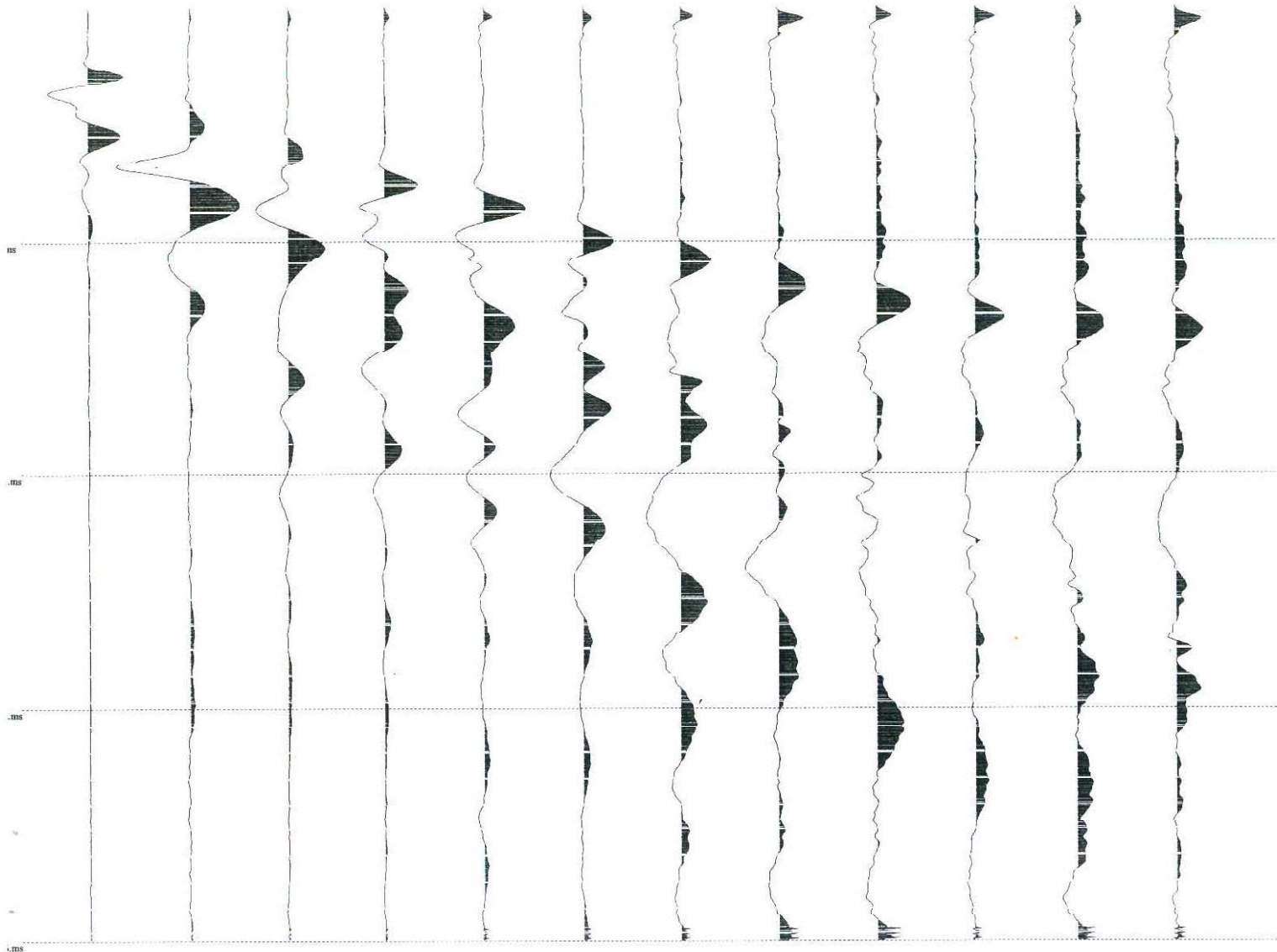
GUADAGNO COSTANTE

FILTRO:

LP 250Hz

C	ENH	Trs [dB]	X	Y	Q	G
1	0	60	0.0	0.0	0.0	200
2	1	75	0.0	0.0	0.0	1000
3	0	87	0.0	0.0	0.0	5000
4	0	93	0.0	0.0	0.0	10000
5	0	99	0.0	0.0	0.0	15000
6	0	99	0.0	0.0	0.0	15000
7	0	105	0.0	0.0	0.0	15000
8	0	105	0.0	0.0	0.0	15000
9	0	108	0.0	0.0	0.0	15000
10	0	105	0.0	0.0	0.0	15000
11	0	108	0.0	0.0	0.0	15000
12	0	108	0.0	0.0	0.0	15000





Q

PASI INSTRUMENT

Time ACQ 15:33:07
Date ACQ (yy/mm/dd) 99/02/26

SONDAGGIO Rifrazione

Durata 256 ms

RITARDO 0 ms

Offsety 0 m

Offsetx 0 m

CAMPIONAMENTO 250.00 μ s

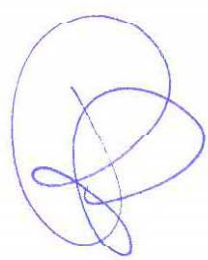
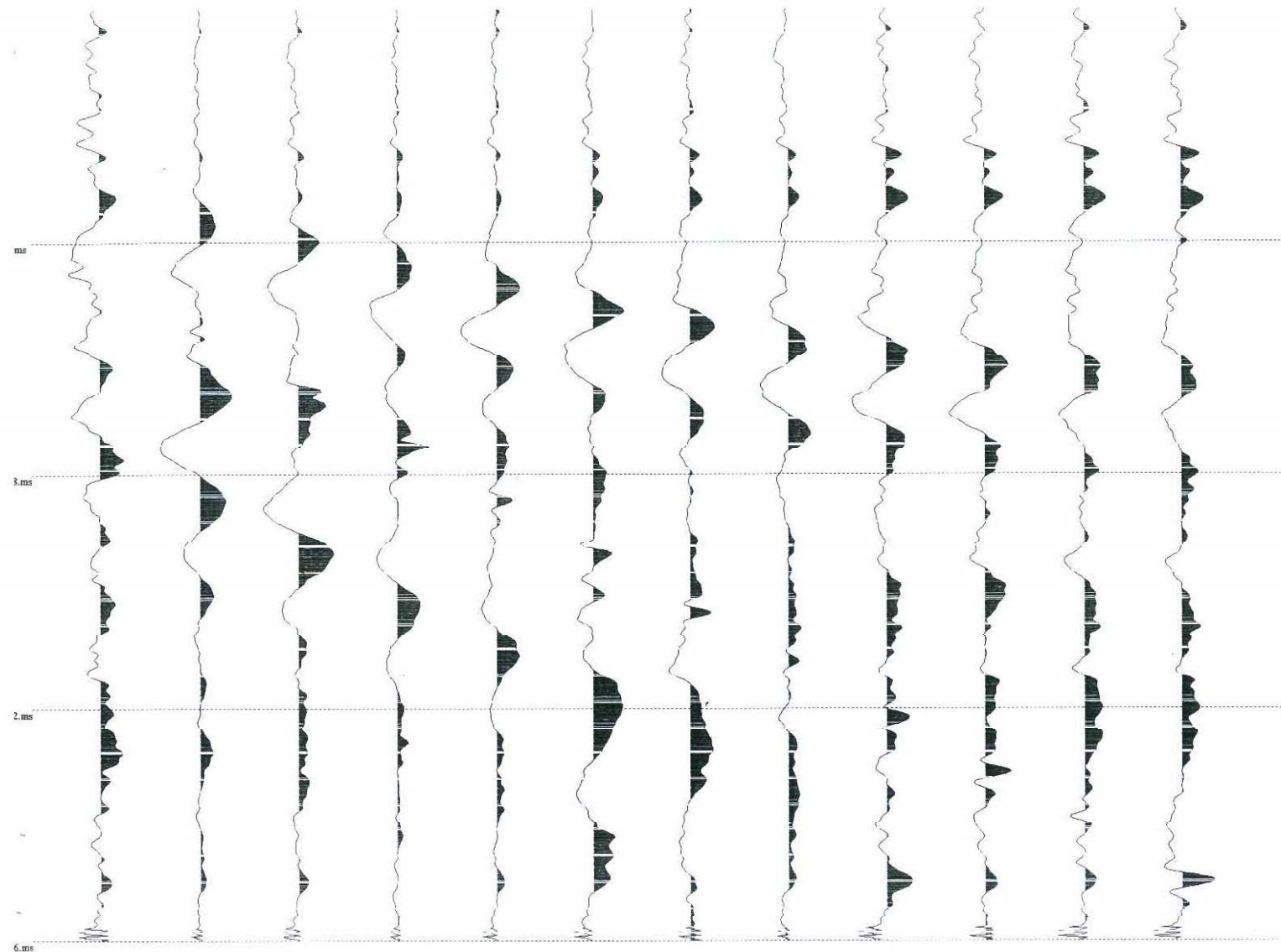
GUADAGNO COSTANTE

FILTRO:

LP 250Hz

C	ENH	Trs [dB]	X	Y	Q	G
1	0	93	0.0	0.0	0.0	1000
2	0	102	0.0	0.0	0.0	10000
3	0	105	0.0	0.0	0.0	10000
4	0	105	0.0	0.0	0.0	15000
5	0	105	0.0	0.0	0.0	15000
6	0	108	0.0	0.0	0.0	15000
7	0	108	0.0	0.0	0.0	15000
8	0	108	0.0	0.0	0.0	15000
9	0	111	0.0	0.0	0.0	15000
10	0	111	0.0	0.0	0.0	15000
11	0	111	0.0	0.0	0.0	15000
12	0	111	0.0	0.0	0.0	15000





PASI INSTRUMENT

Time ACQ 15:37:50
Date ACQ (yy/mm/dd) 99/02/26

SONDAGGIO Rifrazione

Durata 256 ms

RITARDO 0 ms

Offsety 0 m

Offsetx 0 m

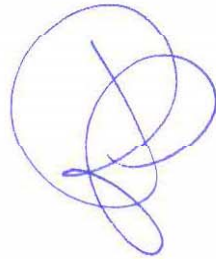
CAMPIONAMENTO 250.00 μ s

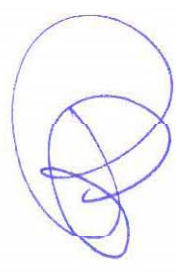
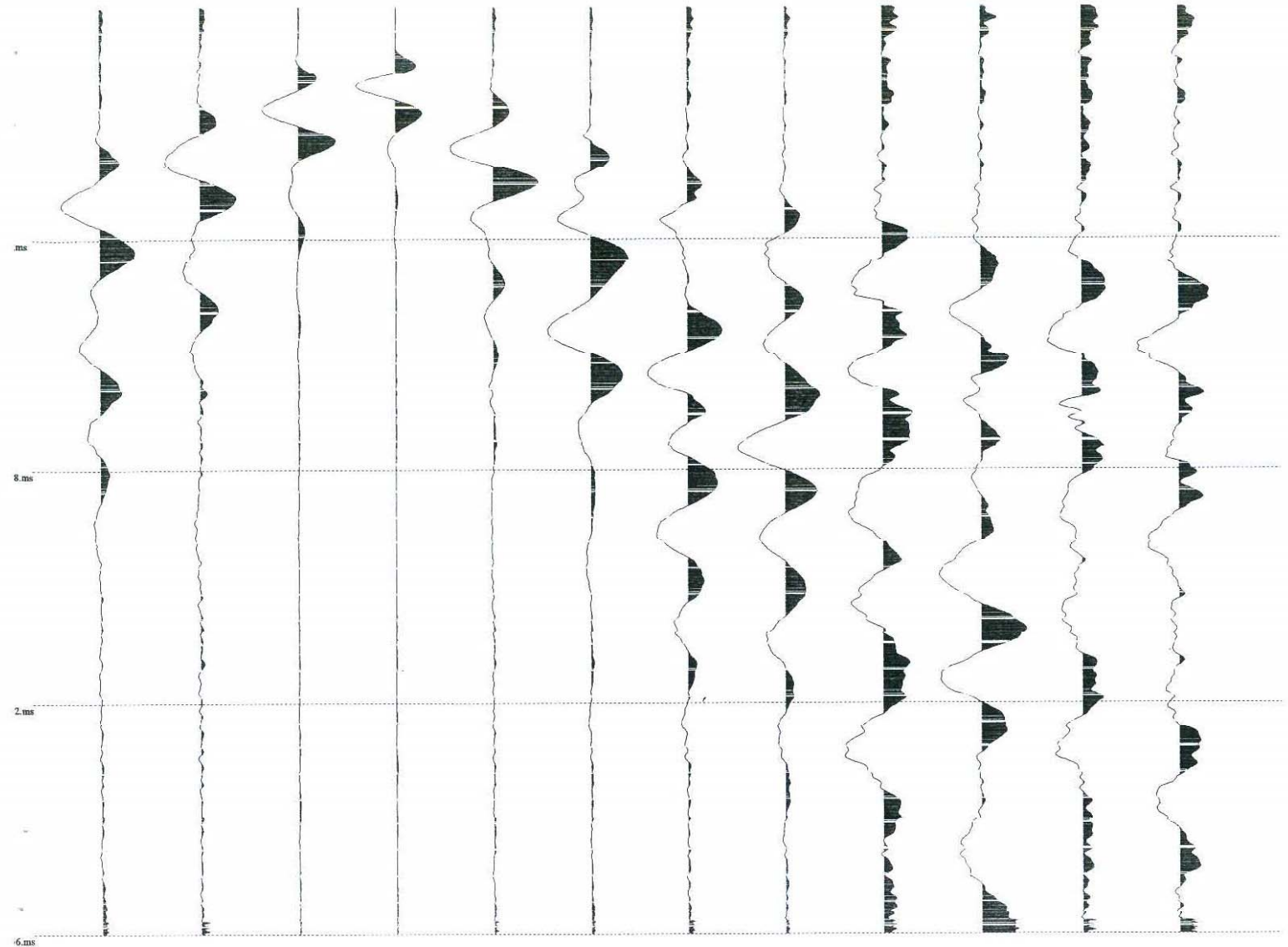
GUADAGNO COSTANTE

FILTRO:

LP 250Hz

C	ENH	Trs [dB]	X	Y	Q	G
1	0	90	0.0	0.0	0.0	5000
2	0	81	0.0	0.0	0.0	500
3	0	63	0.0	0.0	0.0	50
4	0	54	0.0	0.0	0.0	50
5	0	75	0.0	0.0	0.0	500
6	0	87	0.0	0.0	0.0	5000
7	0	93	0.0	0.0	0.0	5000
8	0	96	0.0	0.0	0.0	10000
9	0	105	0.0	0.0	0.0	10000
10	0	105	0.0	0.0	0.0	15000
11	0	108	0.0	0.0	0.0	15000
12	0	108	0.0	0.0	0.0	15000





PAST INSTRUMENT

Time ACQ 15:41:45
Date ACQ (yy/mm/dd) 99/02/26

SONDAGGIO Rifrazione

Durata 256 ms

RITARDO 0 ms

Offsety 0 m

Offsetx 0 m

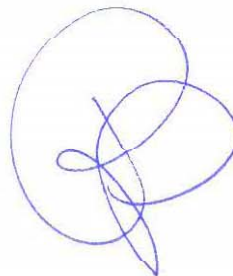
CAMPIONAMENTO 250.00 μ s

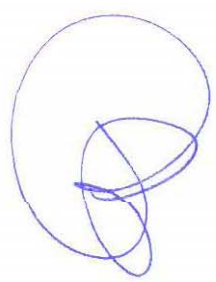
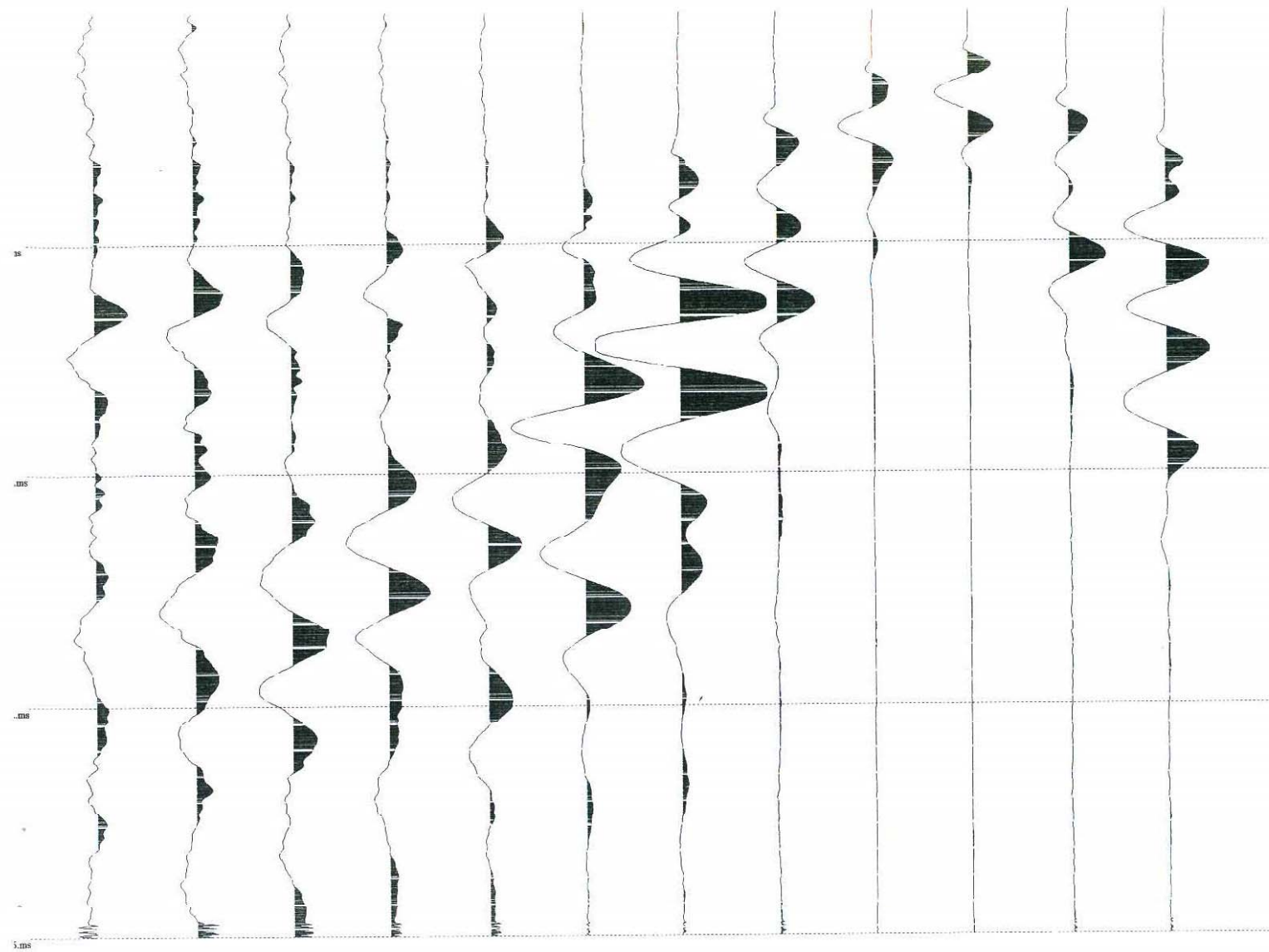
GUADAGNO COSTANTE

FILTRO:

LP 250Hz

C	ENH	Trs [dB]	X	Y	Q	G
1	0	108	0.0	0.0	0.0	15000
2	0	108	0.0	0.0	0.0	15000
3	0	105	0.0	0.0	0.0	15000
4	0	102	0.0	0.0	0.0	15000
5	0	96	0.0	0.0	0.0	10000
6	1	87	0.0	0.0	0.0	10000
7	1	81	0.0	0.0	0.0	5000
8	0	72	0.0	0.0	0.0	500
9	0	57	0.0	0.0	0.0	50
10	0	48	0.0	0.0	0.0	50
11	0	69	0.0	0.0	0.0	500
12	0	81	0.0	0.0	0.0	5000





PASI INSTRUMENT

Time ACQ 15:43:16
Date ACQ (yy/mm/dd) 99/02/26

SONDAGGIO Rifrazione

Durata 256 ms

RITARDO 0 ms

Offsety 0 m

Offsetx 0 m

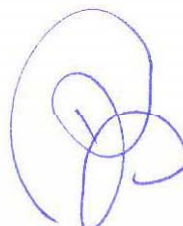
CAMPIONAMENTO 250.00 μ s

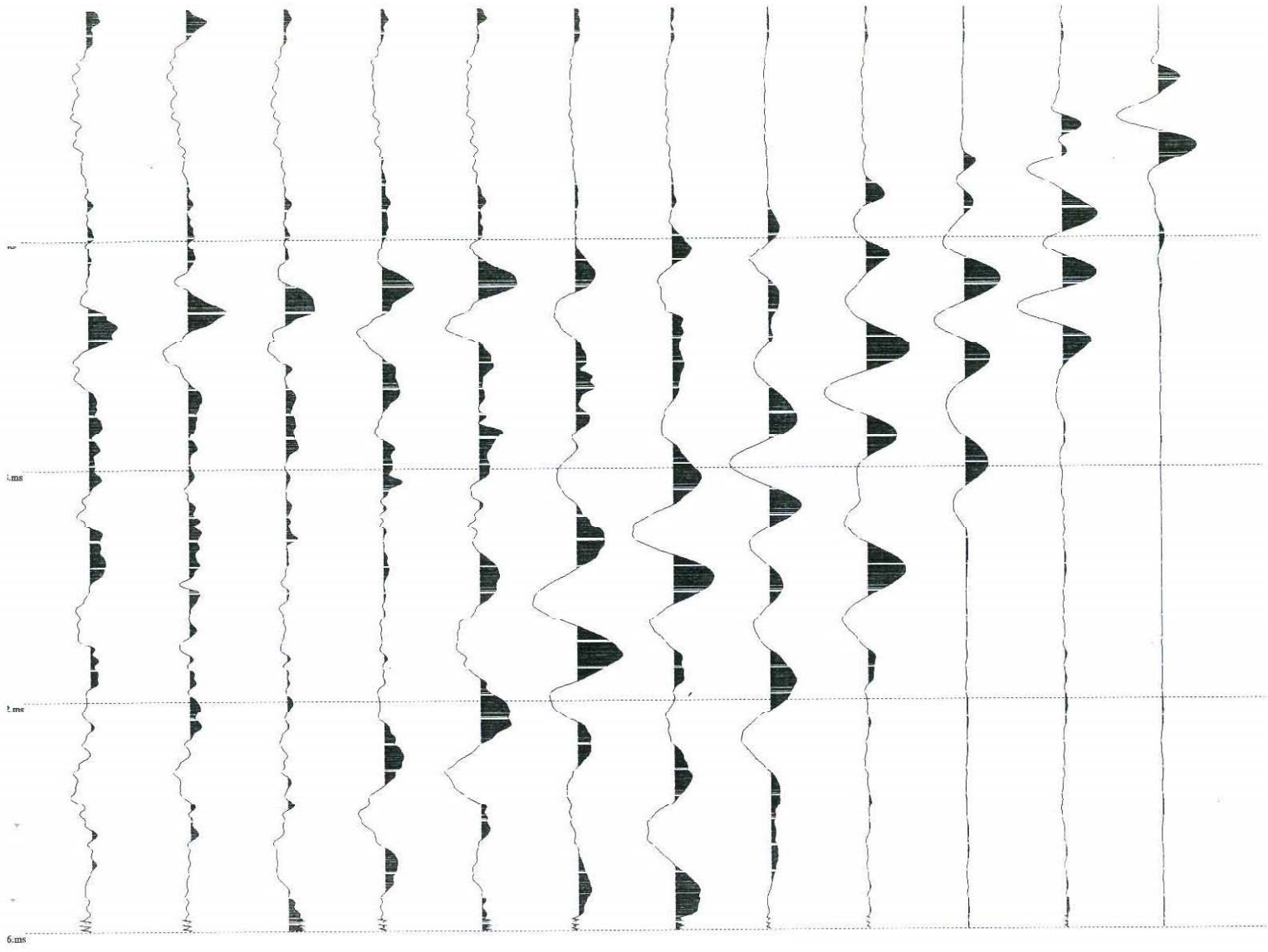
GUADAGNO COSTANTE

FILTRO:

LP 250Hz

C	ENH	Trs [dB]	X	Y	Q	G
1	0	111	0.0	0.0	0.0	15000
2	0	111	0.0	0.0	0.0	15000
3	0	108	0.0	0.0	0.0	15000
4	0	108	0.0	0.0	0.0	15000
5	0	108	0.0	0.0	0.0	15000
6	0	102	0.0	0.0	0.0	15000
7	0	99	0.0	0.0	0.0	10000
8	0	93	0.0	0.0	0.0	10000
9	0	90	0.0	0.0	0.0	5000
10	0	81	0.0	0.0	0.0	5000
11	0	75	0.0	0.0	0.0	500
12	0	57	0.0	0.0	0.0	50





Handwritten signature or mark in blue ink.

FASI INSTRUMENT

Time ACQ 15:52:08
Date ACQ (yy/mm/dd) 99/02/26

SONDAGGIO Rifrazione

Durata 256 ms

RITARDO 0 ms

Offsety 0 m

Offsetx 0 m

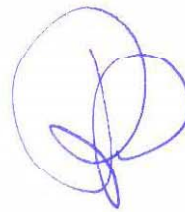
CAMPIONAMENTO 250.00 μ s

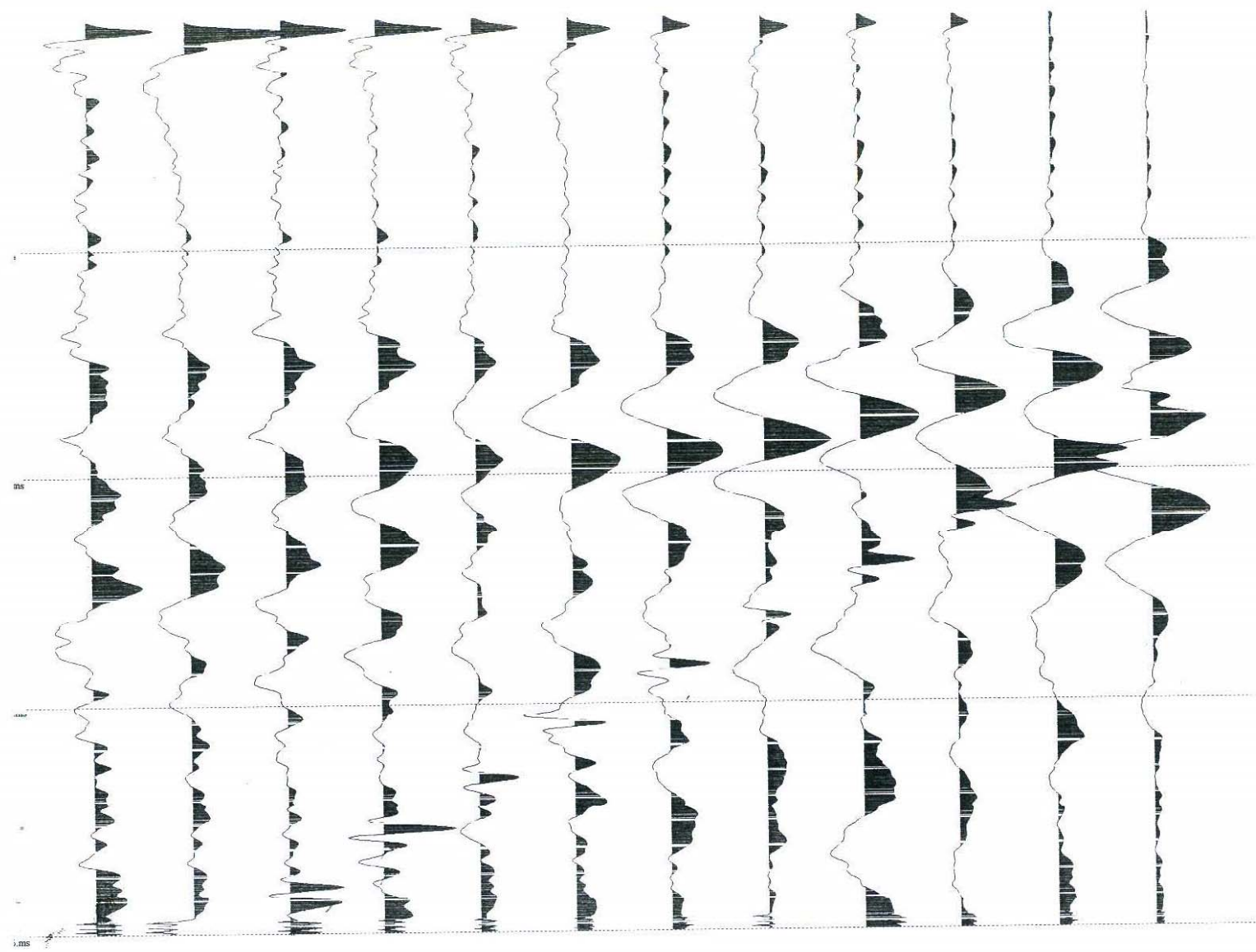
GUADAGNO COSTANTE

FILTRO:

LP 250Hz

C	ENH	Trs [dB]	X	Y	Q	G
1	3	111	0.0	0.0	0.0	15000
2	3	108	0.0	0.0	0.0	15000
3	3	108	0.0	0.0	0.0	15000
4	3	108	0.0	0.0	0.0	15000
5	2	105	0.0	0.0	0.0	15000
6	2	105	0.0	0.0	0.0	15000
7	1	105	0.0	0.0	0.0	15000
8	1	105	0.0	0.0	0.0	15000
9	1	105	0.0	0.0	0.0	15000
10	1	102	0.0	0.0	0.0	15000
11	1	102	0.0	0.0	0.0	15000
12	1	99	0.0	0.0	0.0	15000





②

PROFILO SISMICO A RIFRAZIONE

PROFILO n° 2

COMMITTENTE: DOTT. GEOLOGO RAFFAELLA PETRALLA

LOCALITA': POGGIODOMO
COMUNE: POGGIODOMO

DATA: 26 febbraio 1999

RESPONSABILE DEL SETTORE GEOFISICA
DOTT. GEOL. ALESSANDRO DI COLA

PROFILO SISMICO A RIFRAZIONE

PROFILO n°

2

COMMITTENTE:

DOTT. GEOLOGO RAFFAELLA PETRALLA

CANTIERE:

POGGIODOMO

DATA:

26/02/99

CARATTERISTICHE TECNICHE DELLA STRUMENTAZIONE

risoluzione di acquisizione: 16 bits
geofoni tipo: verticali
frequenza geofoni: 10 Hz
energizzazione: a percussione di massa battente su piattello orizzontale
elaborazione dati: ITM - GRM

GEOMETRIA DELLO STENDIMENTO

geofoni n°

distanza intergeofonica (m)

scoppi n°

profondità di energizzazione (m)

lunghezza stendimento (m)

distanza 1° geofono (m)

distanza 2° geofono (m)

distanza 3° geofono (m)

distanza 4° geofono (m)

distanza 5° geofono (m)

distanza 6° geofono (m)

distanza 7° geofono (m)

distanza 8° geofono (m)

distanza 9° geofono (m)

distanza 10° geofono (m)

distanza 11° geofono (m)

distanza 12° geofono (m)

distanza 1° scoppio (m)

distanza 2° scoppio (m)

distanza 3° scoppio (m)

distanza 4° scoppio (m)

distanza 5° scoppio (m)

offset n°1 (m)

offset n°2 (m)

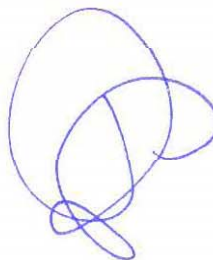
offset n°3 (m)

offset n°4 (m)

G =	12	
d =	5	
S =	7	
h =	0,0	
L =	60	
G1 =	2,5	
G2 =	7,5	
G3 =	12,5	
G4 =	17,5	
G5 =	22,5	
G6 =	27,5	
G7 =	32,5	
G8 =	37,5	
G9 =	42,5	
G10 =	47,5	
G11 =	52,5	
G12 =	57,5	ORA REG.
T2 =	0	16,50
T3 =	15	16,58
T4 =	30	17,01
T5 =	45	17,03
T6 =	60	17,05
T0 =		
T1 =	-30	16,54
T7 =	80	17,07
T8 =		

NOTE

a) vedi quote geofoni e punti di energizzazione sul profilo geofisico



PROFILO SISMICO A RIFRAZIONE: ELABORAZIONE DATI

PROFILO n°
COMMITTENTE
CANTIERE
DATA

2
DOTT. GEOLOGO RAFFAELLA PETRALLA
POGGIODOMO
26/02/99

PROFILO GEOFISICO

LAYER	V _P (m/s)	V _S (m/s)*	γ (t/mc)
1	160	65	1,70
2	750	340	1,80
3	3000	1730	2,40
4			
5			

MODULI ELASTICI DINAMICI

coefficiente di Poisson
mod. di Young (MPa)
mod. di incomp. (MPa)
mod. di taglio (MPa)

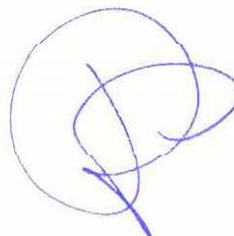
	LAYER 1	LAYER 2	LAYER 3	LAYER 4	LAYER 5
ν =	0,40	0,37	0,25		
E =	20	539	17970		
K =	34	735	12023		
μ =	7	208	7183		

STRATIGRAFIA GEOFISICA **

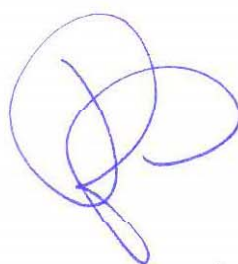
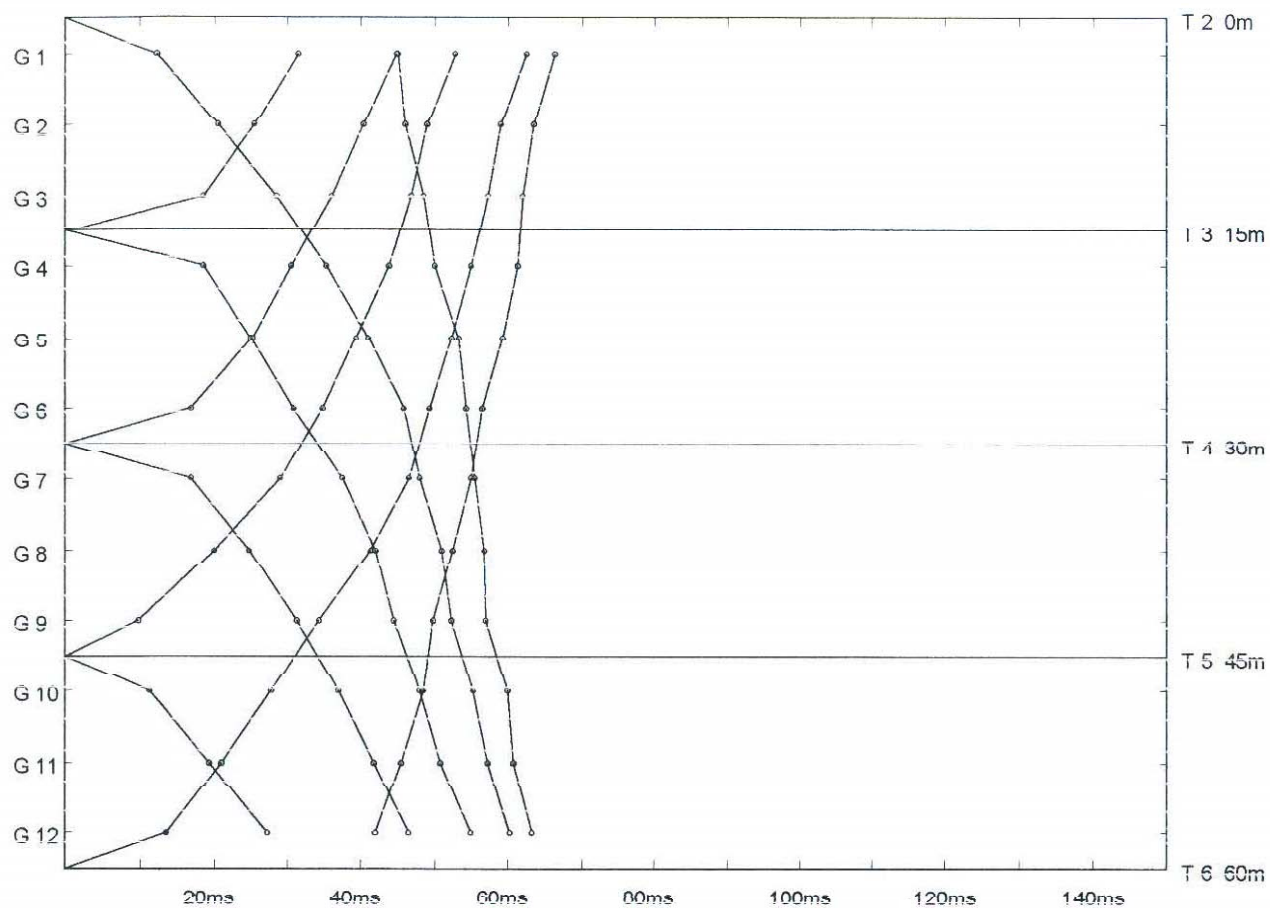
	SHOT 2		SHOT 3		SHOT 4		SHOT 5	
LAYER	thickness	depht	thickness	depht	thickness	depht	thickness	depht
1	1,00		1,00		1,20		1,10	
2	10,20	1,00	9,70	1,00		1,20	9,20	1,10
3		11,20		10,70				10,30
4								
5								
	SHOT 6							
LAYER	thickness	depht						
1	1,00							
2	8,80	1,00						
3		9,80						
4								
5								

(*) calcolata per dati valori di ν

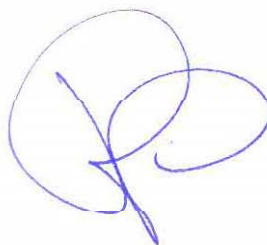
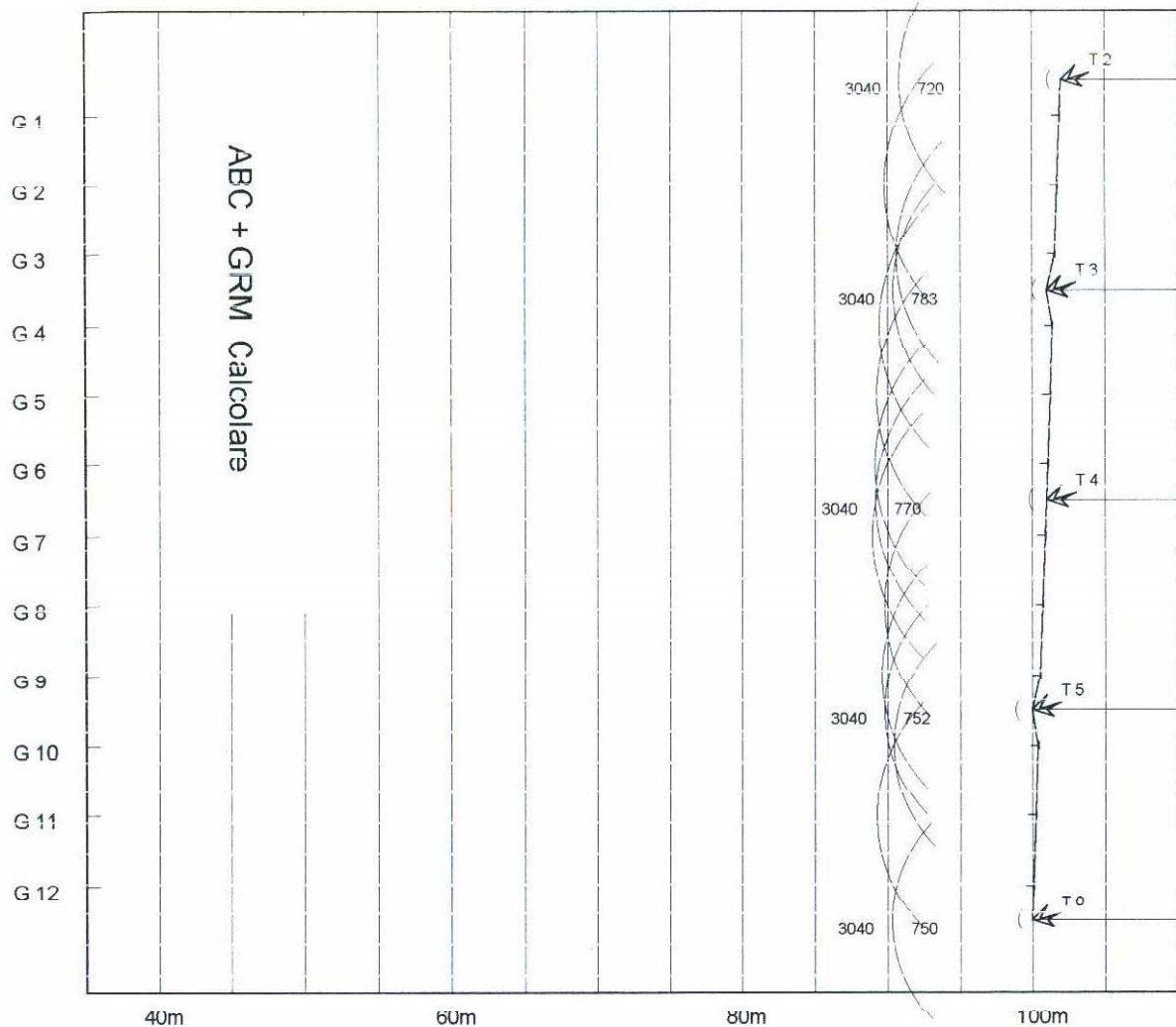
(**) calcolato con ITM - le profondità e gli spessori calcolati con il GRM sono riportati sul profilo geofisico



Poggiodomo 2 X 1/ 500 Y 1/ 1000



Poggiodoro 2 X 1 / 500 Y 1 / 500



PASI INSTRUMENT

Time ACQ 16:50:43

Date ACQ (yy/mm/dd) 99/02/26

SONDAGGIO Rifrazione

Durata 256 ms

RITARDO 0 ms

Offsety 0 m

Offsetx 0 m

CAMPIONAMENTO 250.00 μ s

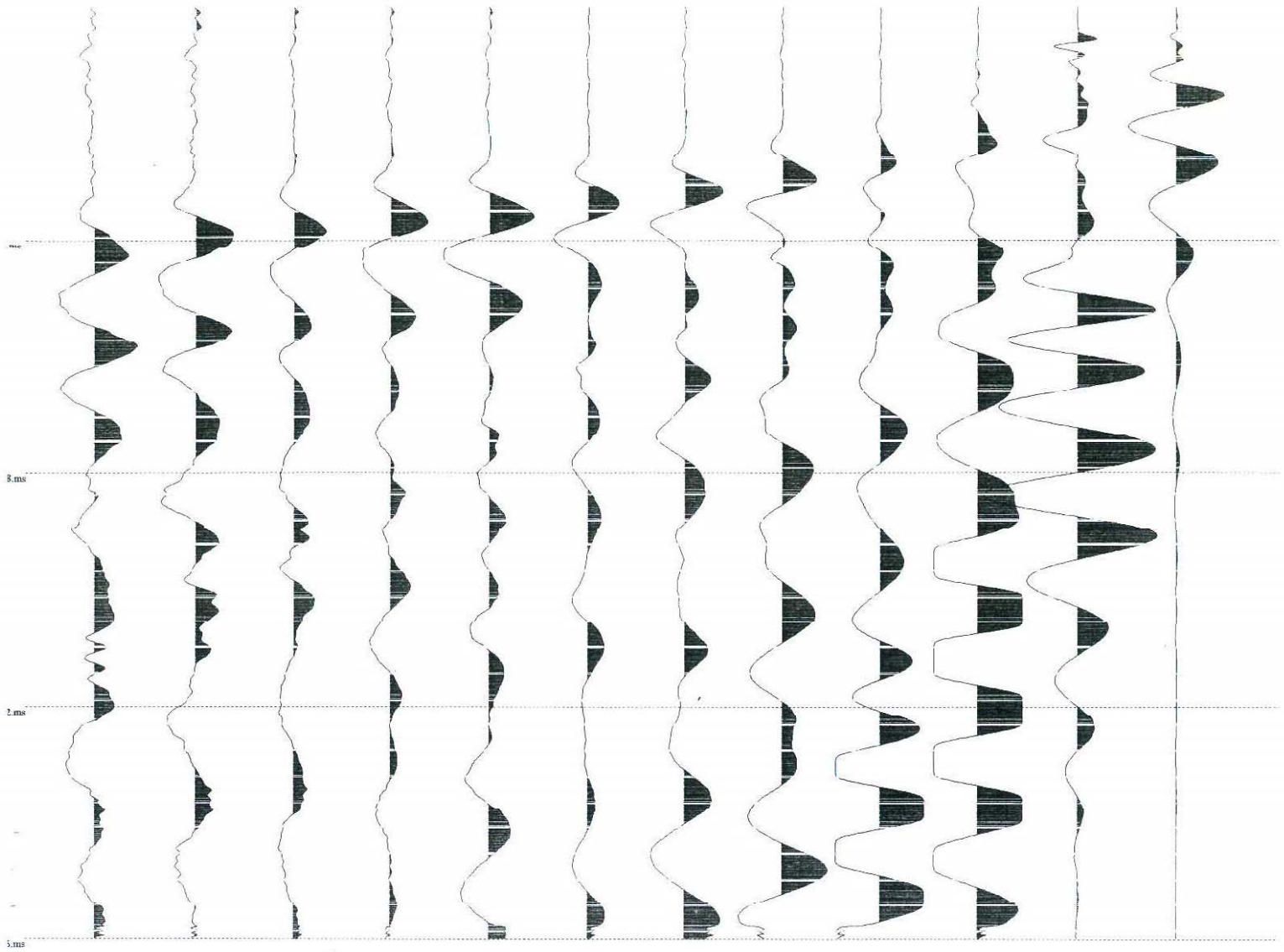
GUADAGNO COSTANTE

FILTRO:

LP 250Hz

C	ENH	Trs [dB]	X	Y	Q	G
1	0	108	0.0	0.0	0.0	15000
2	0	108	0.0	0.0	0.0	15000
3	0	102	0.0	0.0	0.0	15000
4	0	102	0.0	0.0	0.0	15000
5	0	99	0.0	0.0	0.0	15000
6	0	93	0.0	0.0	0.0	15000
7	0	93	0.0	0.0	0.0	10000
8	0	90	0.0	0.0	0.0	10000
9	0	81	0.0	0.0	0.0	5000
10	0	81	0.0	0.0	0.0	5000
11	1	66	0.0	0.0	0.0	500
12	0	42	0.0	0.0	0.0	20





②

PASI INSTRUMENT

Time ACQ 16:54:00
Date ACQ (yy/mm/dd) 99/02/26

SONDAGGIO Rifrazione

Durata 256 ms

RITARDO 0 ms

Offsety 0 m

Offsetx 0 m

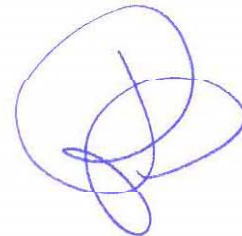
CAMPIONAMENTO 250.00 μ s

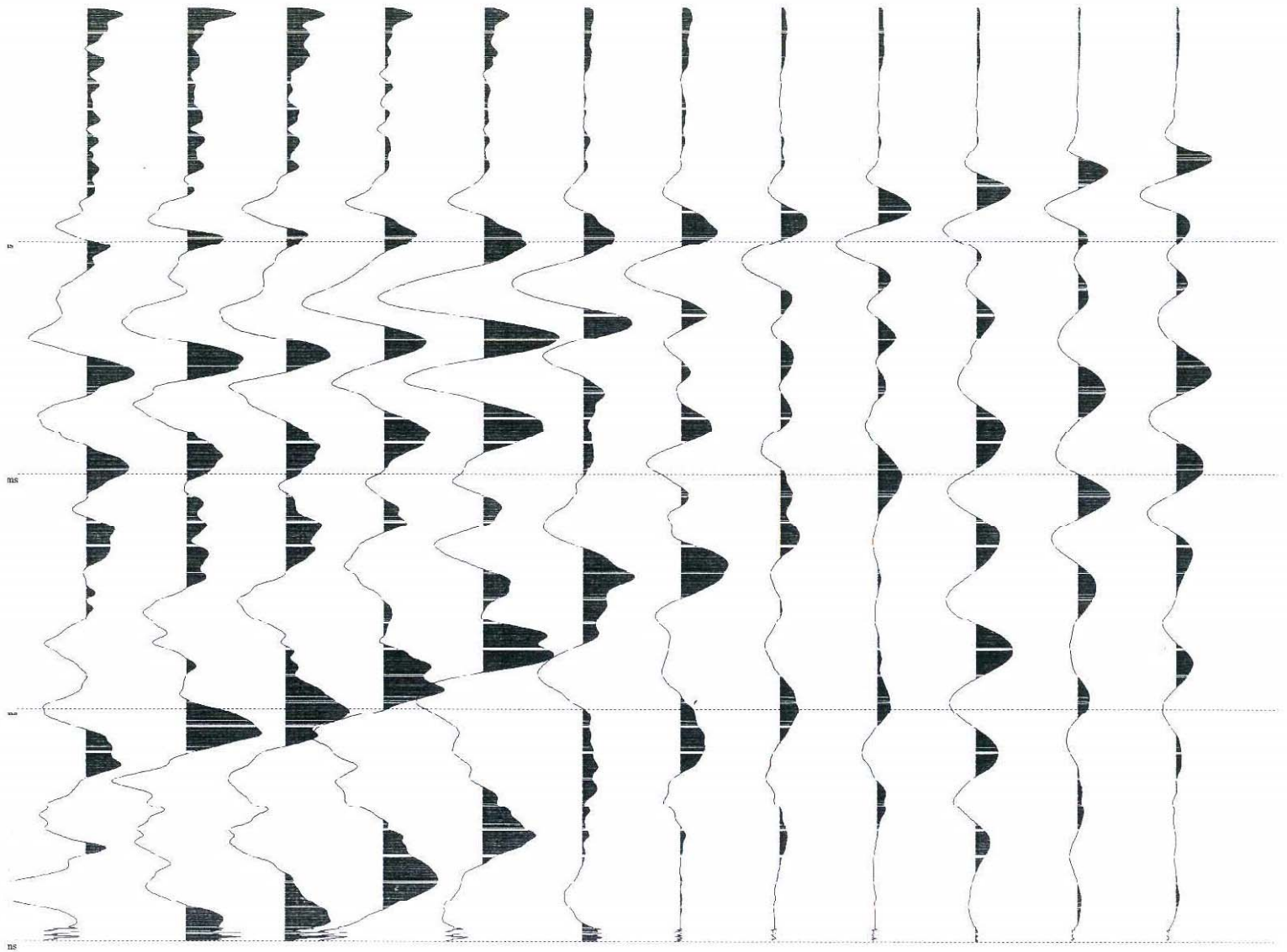
GUADAGNO COSTANTE

FILTRO:

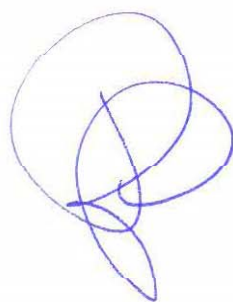
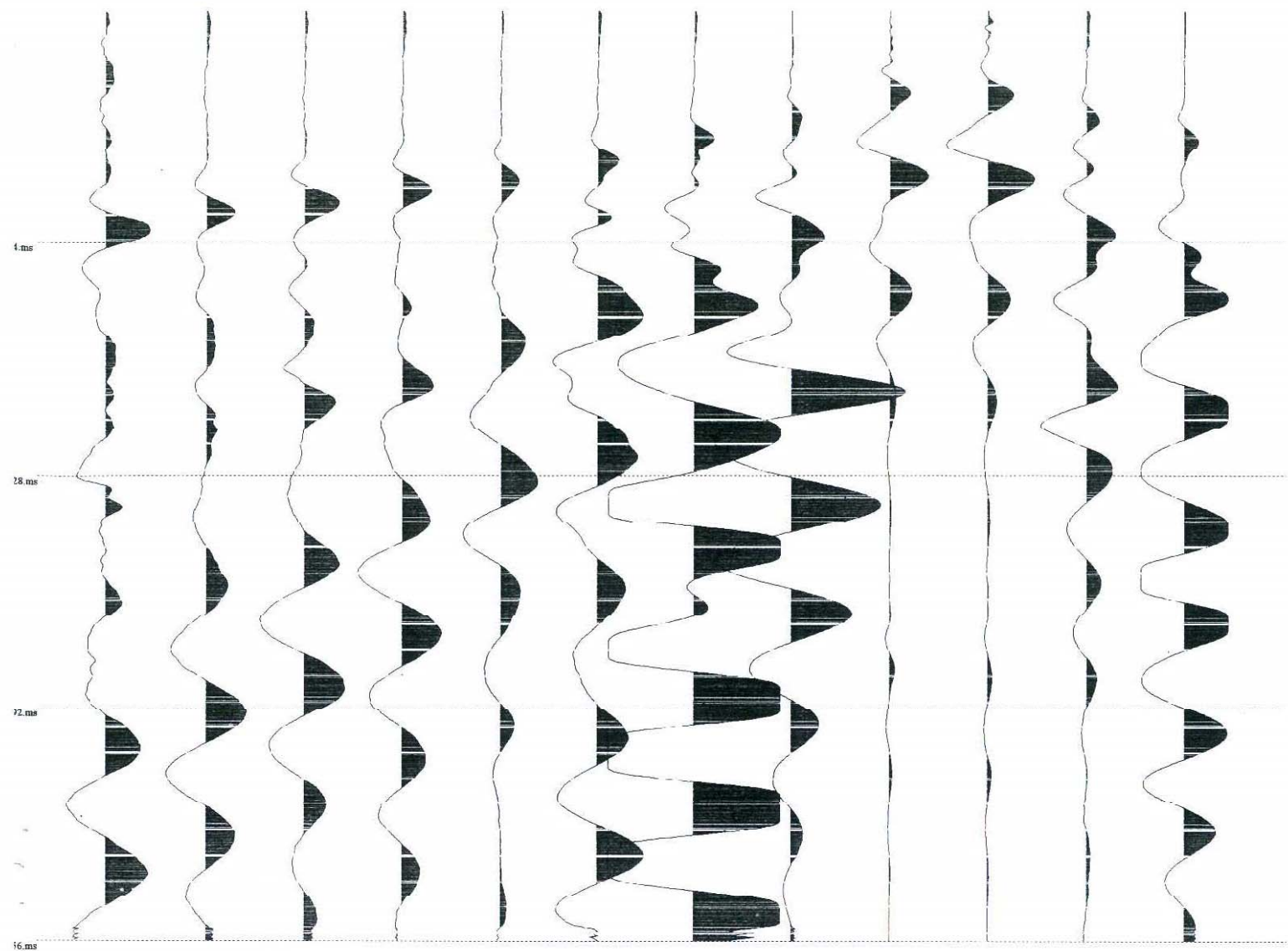
LP 250Hz

C	ENH	Trs [dB]	X	Y	Q	G
1	3	111	0.0	0.0	0.0	15000
2	2	114	0.0	0.0	0.0	15000
3	2	111	0.0	0.0	0.0	15000
4	2	111	0.0	0.0	0.0	15000
5	2	108	0.0	0.0	0.0	15000
6	1	105	0.0	0.0	0.0	15000
7	1	102	0.0	0.0	0.0	15000
8	0	102	0.0	0.0	0.0	15000
9	0	99	0.0	0.0	0.0	15000
10	0	96	0.0	0.0	0.0	15000
11	0	90	0.0	0.0	0.0	10000
12	0	87	0.0	0.0	0.0	5000





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PASI INSTRUMENT

Time ACQ 17:01:19
Date ACQ (yy/mm/dd) 99/02/26

SONDAGGIO Rifrazione

Durata 256 ms

RITARDO 0 ms

Offsety 0 m

Offsetx 0 m

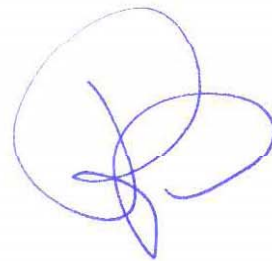
CAMPIONAMENTO 250.00 μ s

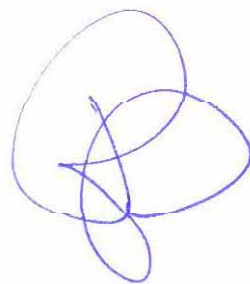
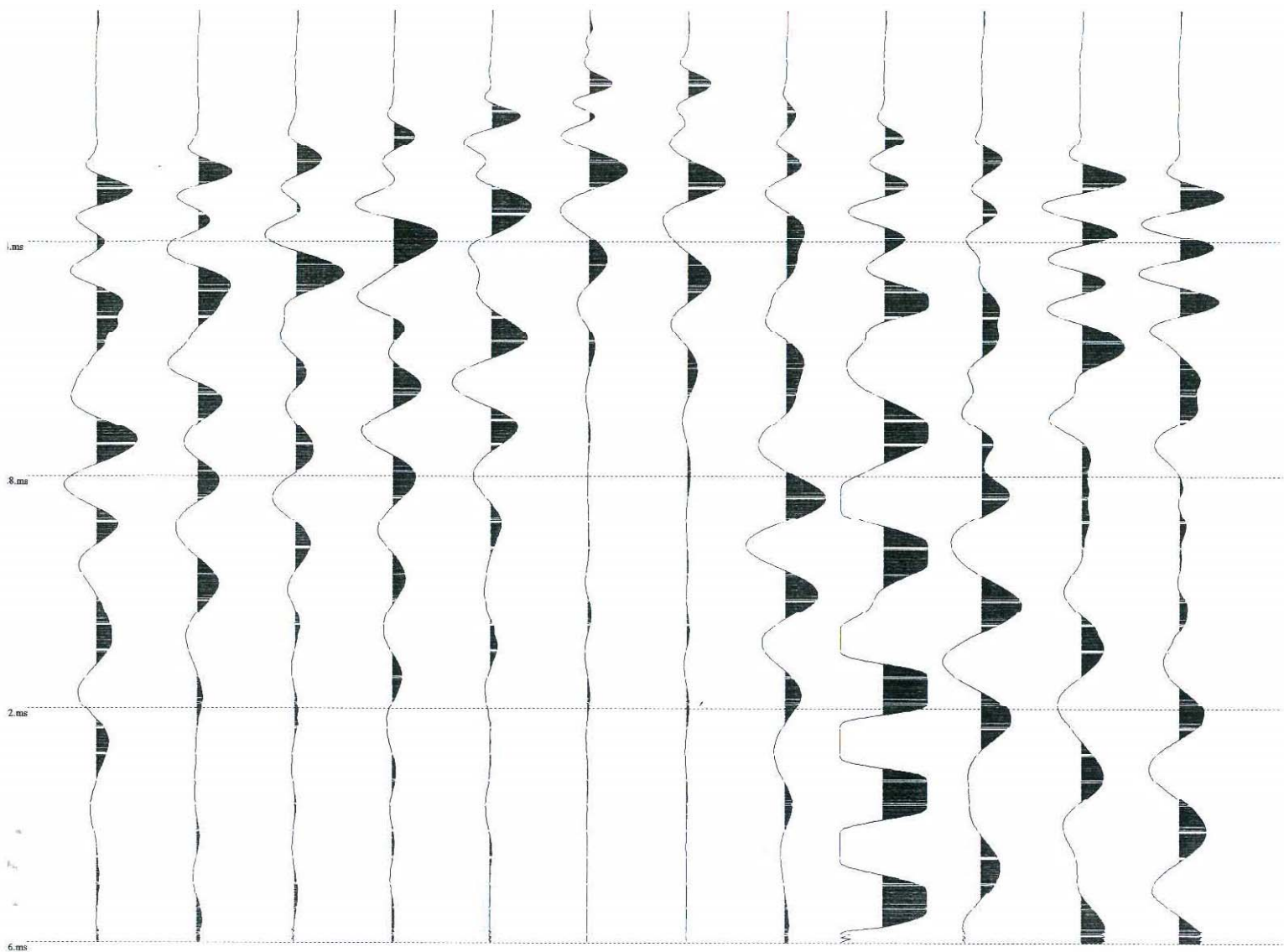
GUADAGNO COSTANTE

FILTRO:

LP 250Hz

C	ENH	Trs [dB]	X	Y	Q	G
1	0	90	0.0	0.0	0.0	10000
2	0	87	0.0	0.0	0.0	10000
3	0	84	0.0	0.0	0.0	5000
4	0	81	0.0	0.0	0.0	5000
5	0	72	0.0	0.0	0.0	500
6	0	48	0.0	0.0	0.0	50
7	0	48	0.0	0.0	0.0	50
8	0	66	0.0	0.0	0.0	500
9	0	81	0.0	0.0	0.0	5000
10	0	84	0.0	0.0	0.0	5000
11	0	90	0.0	0.0	0.0	10000
12	0	90	0.0	0.0	0.0	10000





PASI INSTRUMENT

Time ACQ 17:03:10
Date ACQ (yy/mm/dd) 99/02/26

SONDAGGIO Rifrazione

Durata 256 ms

RITARDO 0 ms

Offsety 0 m

Offsetx 0 m

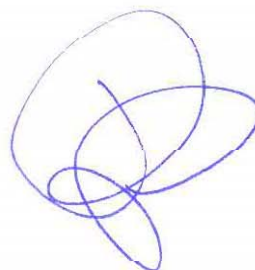
CAMPIONAMENTO 250.00 μ s

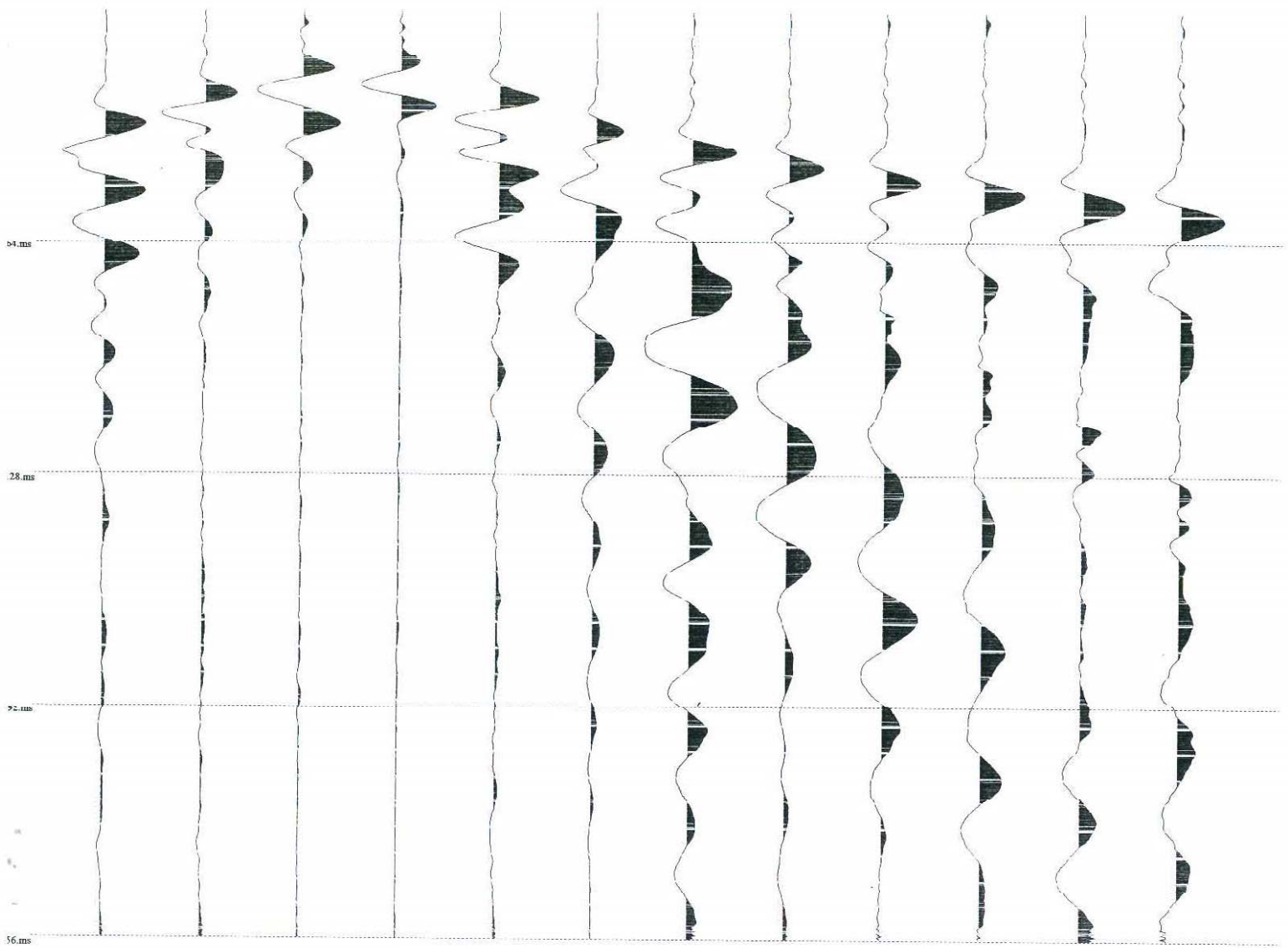
GUADAGNO COSTANTE

FILTRO:

LP 250Hz

C	ENH	Trs [dB]	X	Y	Q	G
1	0	84	0.0	0.0	0.0	5000
2	0	75	0.0	0.0	0.0	500
3	0	60	0.0	0.0	0.0	50
4	0	51	0.0	0.0	0.0	50
5	0	75	0.0	0.0	0.0	500
6	0	81	0.0	0.0	0.0	5000
7	0	90	0.0	0.0	0.0	5000
8	0	90	0.0	0.0	0.0	10000
9	0	93	0.0	0.0	0.0	10000
10	0	96	0.0	0.0	0.0	15000
11	0	99	0.0	0.0	0.0	15000
12	0	102	0.0	0.0	0.0	15000





Handwritten signature in blue ink.

PASI INSTRUMENT

Time ACQ 17:05:05
Date ACQ (yy/mm/dd) 99/02/26

SONDAGGIO Rifrazione

Durata 256 ms

RITARDO 0 ms

Offsety 0 m

Offsetx 0 m

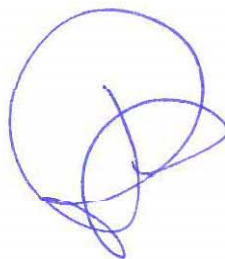
CAMPIONAMENTO 250.00 μ s

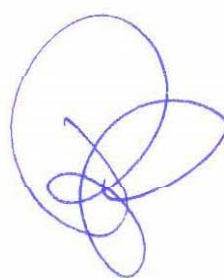
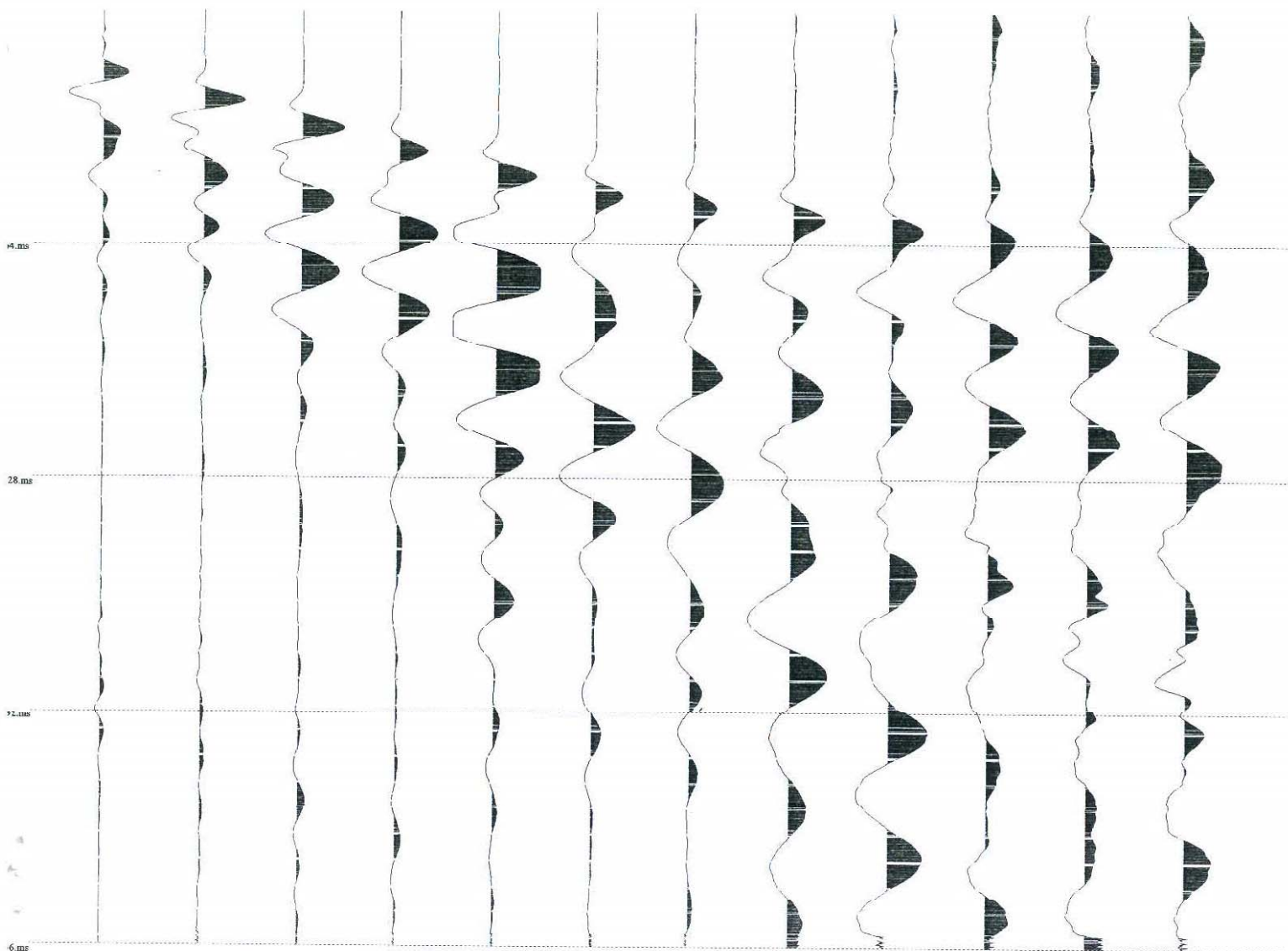
GUADAGNO COSTANTE

FILTRO:

LP 250Hz

C	ENH	Trs [dB]	X	Y	Q	G
1	0	51	0.0	0.0	0.0	50
2	0	72	0.0	0.0	0.0	500
3	0	81	0.0	0.0	0.0	5000
4	0	81	0.0	0.0	0.0	5000
5	0	87	0.0	0.0	0.0	10000
6	0	87	0.0	0.0	0.0	10000
7	0	90	0.0	0.0	0.0	15000
8	0	96	0.0	0.0	0.0	15000
9	0	99	0.0	0.0	0.0	15000
10	0	102	0.0	0.0	0.0	15000
11	0	102	0.0	0.0	0.0	15000
12	0	105	0.0	0.0	0.0	15000





PASI INSTRUMENT

Time ACQ 17:07:50
Date ACQ (yy/mm/dd) 99/02/26

SONDAGGIO Rifrazione

Durata 256 ms

RITARDO 0 ms

Offsety 0 m

Offsetx 0 m

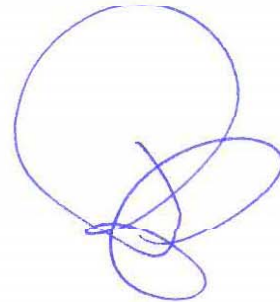
CAMPIONAMENTO 250.00 μ s

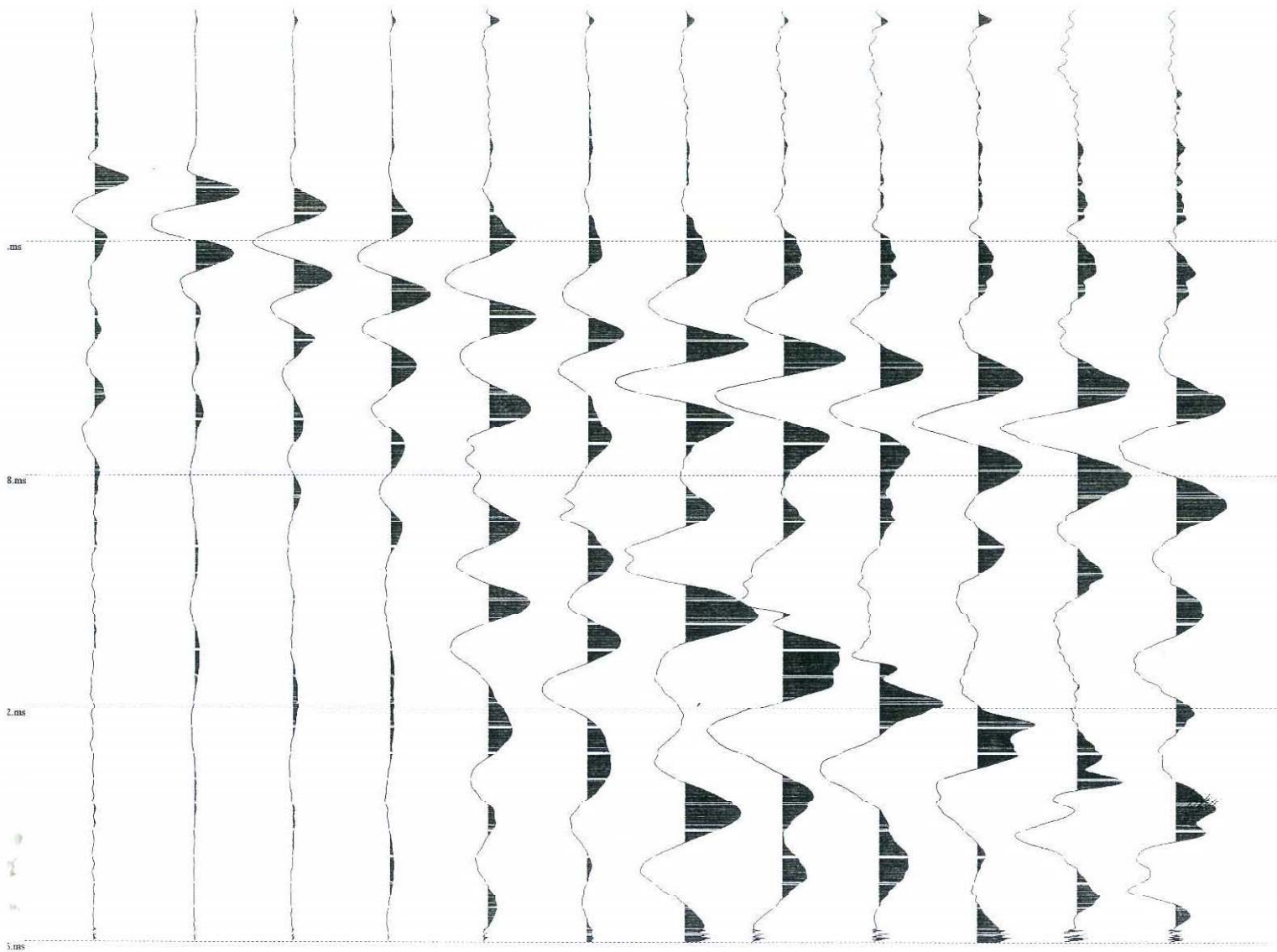
GUADAGNO COSTANTE

FILTRO:

LP 250Hz

C	ENH	Trs [dB]	X	Y	Q	G
1	0	78	0.0	0.0	0.0	1000
2	0	87	0.0	0.0	0.0	10000
3	0	90	0.0	0.0	0.0	10000
4	0	93	0.0	0.0	0.0	15000
5	0	99	0.0	0.0	0.0	15000
6	0	99	0.0	0.0	0.0	15000
7	1	99	0.0	0.0	0.0	15000
8	1	102	0.0	0.0	0.0	15000
9	1	102	0.0	0.0	0.0	15000
10	1	102	0.0	0.0	0.0	15000
11	1	105	0.0	0.0	0.0	15000
12	1	105	0.0	0.0	0.0	15000





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