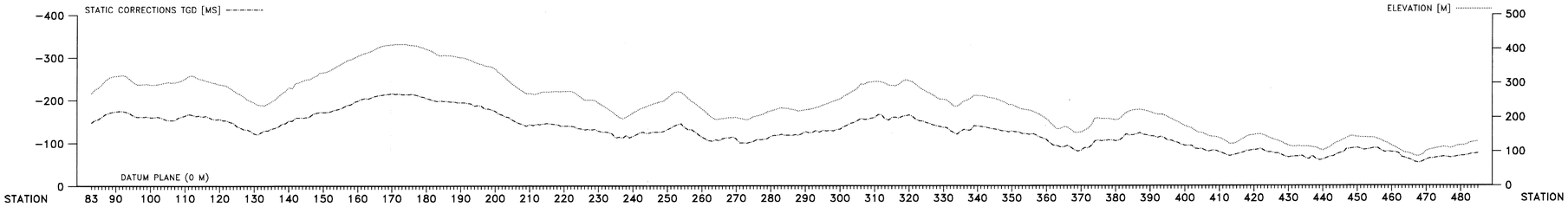
CBF-06-89



Time ms	Vrms m/s	Vint m/s
90	2010	2010
210	2190	2316
330	2340	2582
400	2410	2716
480	2490	2857
610	2590	2930
740	2690	3117
840	2720	2932
930	2770	3199
1070	2850	3333
1210	2910	3333
1420	3000	3473
1600	3100	3798
1730	3150	3711
1910	3220	3828
2480	3390	3906
3000	3560	4279
3980	3820	4524
4990	4000	4642
6000	4145	4797
ITL -284		
CDP 236		

Time ms	Vrms m/s	Vint m/s
140	2100	2100
210	2170	2304
290	2260	2481
410	2410	2739
490	2500	2918
600	2580	2910
680	2620	2902
780	2670	2988
880	2710	3004
1000	2750	3027
1180	2830	3239
1270	2900	3687
1500	3010	3557
1670	3090	3722
1940	3260	4160
2420	3420	4002
2980	3600	4292
4000	3930	4765
5000	4090	4676
6000	4217	4802
ITL -342		
CDP 348		

Time ms	Vrms m/s	Vint m/s
100	2020	2020
190	2080	2145
330	2190	2331
390	2260	2612
490	2370	2757
620	2500	2939
690	2590	3281
800	2700	3308
880	2830	3795
1030	3000	3912
1190	3080	3552
1360	3110	3312
1600	3160	3430
1790	3190	3432
1990	3230	3568
2450	3320	3684
2990	3480	4129
4000	3820	4684
5000	3930	4342
6000	4088	4801
ITL -244		
CDP 464		

Time ms	Vrms m/s	Vint m/s
100	2020	2020
200	2120	2215
310	2190	2312
400	2290	2605
460	2340	2649
610	2530	3019
710	2620	3113
860	2750	3286
1000	2850	3400
1100	2900	3359
1190	2980	3825
1430	3060	3429
1580	3100	3458
1700	3140	3626
1880	3230	3981
2170	3360	4104
2990	3660	4355
4000	3860	4399
4990	4000	4522
6000	4140	4797
ITL -230		
CDP 552		

Time ms	Vrms m/s	Vint m/s
90	2130	2130
180	2260	2383
270	2360	2548
340	2420	2639
480	2490	2652
550	2510	2643
670	2670	3306
810	2790	3304
920	2860	3330
1040	2940	3493
1190	3020	3525
1280	3060	3547
1580	3140	3461
1790	3180	3466
1990	3220	3558
2340	3320	3839
2990	3500	4083
3990	3800	4581
4990	3940	4455
6000	4097	4798
ITL -243		
CDP 660		

Time ms	Vrms m/s	Vint m/s
110	2030	2030
260	2180	2284
330	2250	2493
410	2310	2543
510	2370	2602
620	2410	2587
710	2470	2849
800	2540	3036
890	2620	3248
1060	2720	3193
1310	2930	3690
1390	2980	3704
1540	3050	3635
1780	3110	3470
2100	3170	3485
2490	3270	3763
3010	3440	4159
4110	3820	4705
4990	3960	4557
6000	4113	4798
ITL -179		
CDP 760		

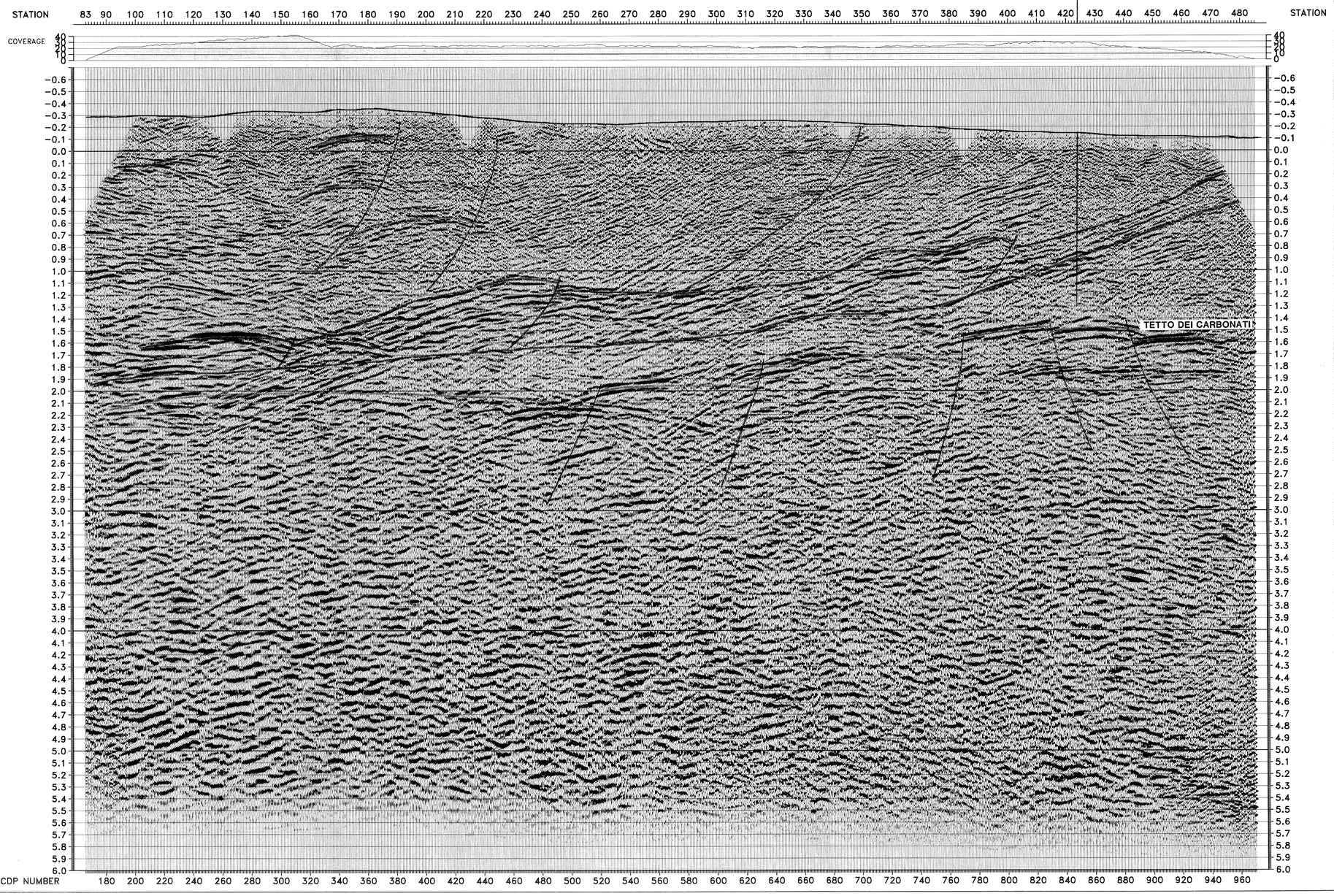
Time ms	Vrms m/s	Vint m/s
100	2010	2010
230	2060	2098
300	2090	2186
400	2130	2246
550	2190	2342
600	2220	2527
700	2270	2549
800	2330	2713
890	2390	2869
960	2430	2891
1190	2590	3172
1400	2760	3574
1660	3030	4195
1790	3140	4304
1970	3310	4675
2500	3510	4170
2970	3640	4265
3740	3780	4277
5000	3900	4236
6000	4064	4801
ITL -141		
CDP 848		

Time ms	Vrms m/s	Vint m/s
90	2020	2020
200	2070	2110
310	2110	2181
400	2190	2446
540	2340	2723
600	2370	2625
700	2430	2507
800	2410	2545
890	2420	2507
1050	2570	3282
1200	2720	3599
1390	2840	3504
1680	3030	3811
1800	3060	3453
1980	3110	3572
2360	3290	4102
2770	3490	4470
4100	3820	4429
5000	3990	4687
6000	4136	4800
ITL -114		
CDP 920		

SW

NE

FIUME BIFERNO 1



RECORDING

FIELD PARTY: SIAG 04
CONTRACTOR: SIAG S.P.A.

RECORDING PERIOD: 22.11.-04.12.1989
RECORDING SYSTEM: SERCEL SN 388, 144 CHANNELS
TAPE FORMAT: SEG-D, 9 TRACK, 6250 BPI
POLARITY OF SYSTEM: SEG-CODE 0001
COMPRESSIONAL EVENTS = NEGATIVE NUMBERS
SUBSURFACE COVERAGE: 24 FOLD
RECORD LENGTH: 6 SEC
SAMPLING RATE: 2 MSEC
FILTER: LOW-CUT 12 HZ 18 DB/OCT
HIGH-CUT 178 HZ 72 DB/OCT
NOTCH OUT
GAIN CONTROL: CONSTANT GAIN
RECEIVER TYPE: SM 4 (10 HZ)
NO. OF GROUPS 144, SPACING 30 M
GROUP LENGTH 55 M
24 RECEIVERS PER GROUP
RECEIVER ARRAY: TWO GROUPS OF 12 GEOPHONES
EMITTER ARRAY: SINGLE HOLE SHOT
ENERGY SOURCE: EXPLOSIVE
AVERAGE SPACING: 90 M
CHARGE: 5.0 KG
CHARGE DEPTH: 27 M

EMITTER RECEIVER CONFIGURATION:

SW ——————————————————> NE
1 72 73 144
[————————] X [————————]
<——2130 M——><45 M> <45 M><——2130 M——>

PROCESSING

INPUT CREW: KOELLE / GOETZE
SUPERVISOR: ROSILIUS
PRAKLA-SEISMOS PROCESSING NO. 90 5 130 50

1 INPUT : TAPE FORMAT: SEG-D, 9 TRACK, 6250 BPI
SAMPLING RATE 2 MSEC, 144 CHANNELS,
PROCESSING LENGTH 6 SEC
2 GAIN REMOVAL
3 RESAMPLING TO 4 MSEC (ANTIALIAS FILTER 90 HZ)
4 CDP SORT
5 MINIMUM-PHASE TRANSFORMATION OF RECORDER RESPONSE
6 CORRECTION OF SPHERICAL DIVERGENCE
7 TIMEVARIANT FREQUENCY FILTER

100% TIME MSEC	LOW-CUT HZ	LOW-CUT DB/OCT	HIGH-CUT HZ	HIGH-CUT DB/OCT
0	12	24	80	48
1000	12	24	60	48
2000	10	24	50	48
4000	8	24	40	48

8 DECONVOLUTION:
TYPE PREDICTIVE, TIME AND OFFSET DEPENDENT
PREWHITENING FACTOR 1%,OPERATOR LENGTH:120 MSEC
2 GATES

TRAVEL TIMES [MS]		100% TIME [MS]		PRED.INTV. [MS]
45 M	2175 M	45 M	2175 M	
300-2000	1500-3500	1150	2500	0
1100-2400	2000-3500	1750	2750	12

9 STATIC CORRECTIONS (CALCULATED BY THE FIELD PARTY)
CORRECTION VELOCITY: 2000 M/SEC,DATUM PLANE:0 M
RECALCULATED FOR INTERMEDIATE TIME LEVEL (ITL)
INC. AUTOMATIC RESIDUAL STATIC CORRECTIONS
(SURFACE CONSISTANT, 4 ITERATIONS,
GATE: 800-2800, 400-2300)
10 DYNAMIC CORRECTIONS DERIVED FROM VELOCITY ANALYSES
(CVS AND CDP-GATHER)
11 NORMALIZATION (5 GATES, SEE TABLE)
12 MUTING
13 HORIZONTAL STACKING: 24 FOLD
14 CORRECTION FROM INTERMEDIATE TIME LEVEL TO
DATUM PLANE 0 M, CORRECTION VELOCITY: 2000 M/SEC
BLOCK CORRION: 700 MSEC
15 NOISE REDUCTION FILTER
16 FX DECONVOLUTION
OPERATOR: LENGTH 200 M, RECOMPUTED EVERY 165 M
17 COHERENCY FILTER
(40-30% MODEL,MAX DIP +/- 8 MS/TRACE)
18 TIMEVARIANT FREQUENCY FILTER

100% TIME MSEC	LOW-CUT HZ	LOW-CUT DB/OCT	HIGH-CUT HZ	HIGH-CUT DB/OCT
0	12	24	80	48
1700	10	24	50	48
3000	8	24	40	48

19 NORMALIZATION (9 GATES, SEE TABLE)
20 DISPLAY: SCALE 1:25000,
1 S = 5 CM,TRACE SPACING: 0.6 MM
POLARITY : SEG (COMPRESSIONAL EVENTS = WHITE)

* WA27738/07/90 DATE: 31.07.90

TIMES REFER TO INTERMEDIATE TIME LEVEL

FINA ITALIANA S.P.A. ITALY

INPUT CREW:
DATE:

S.1:25000

All. 2

SAN LEONARDO 1989
LINE CBF-06-89 (SP 83-485)
COHERENCY FILTER
24 FOLD

905 130

PRAKLA-SEISMOS

NORMALIZATION BEFORE STACK

GATE	LENGTH [MSEC]	CENTRE [MSEC]
1.	400	200
2.	800	600
3.	1700	1850
4.	2000	3400
5.	2000	5000

NORMALIZATION AFTER STACK

GATE	LENGTH [MSEC]	CENTRE [MSEC]
1.	300	200
2.	300	450
3.	400	700
4.	400	1000
5.	400	1200
6.	400	1500
7.	800	2100
8.	800	2800
9.	1000	3800
10.	2000	5000

TIMES REFER TO INTERMEDIATE TIME LEVEL