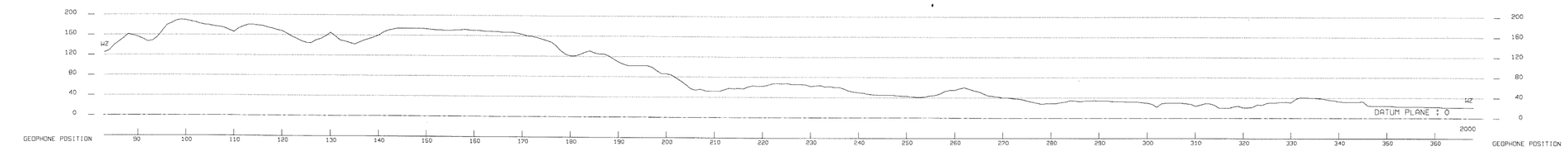
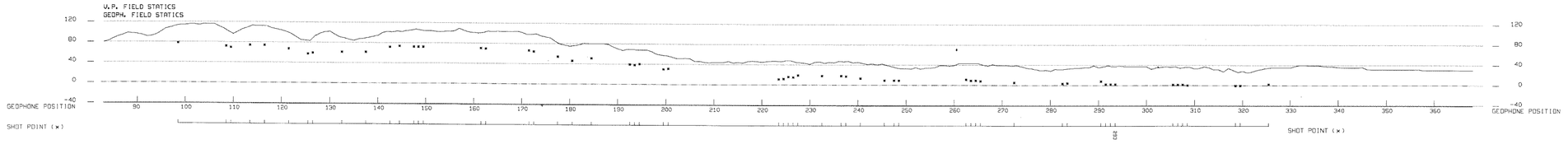
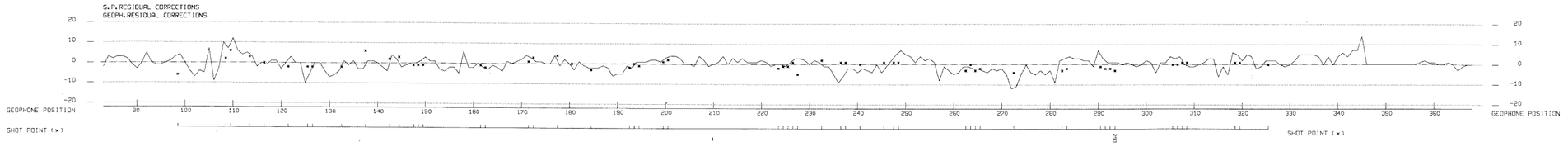
ELEVATION IN METERS




U.P. FIELD STATICS
GEOPH. FIELD STATICS




S.P. RESIDUAL CORRECTIONS
GEOPH. RESIDUAL CORRECTIONS




| CDP 1 DC -174 | | | |
|---|---|---|---|
| TIME | V | NMO | V INT |
| 88 | 2047 | 2047 | |
| 140 | 2087 | 2139 | |
| 466 | 2117 | 2129 | |
| 666 | 2169 | 2284 | |
| 740 | 2190 | 2272 | |
| 860 | 3240 | 3515 | |
| 1160 | 2656 | 2346 | |
| 1300 | 2923 | 2423 | |
| 1580 | 2350 | 2538 | |
| 1903 | 2425 | 2755 | |
| 2703 | 2461 | 2544 | |
| 3009 | 2506 | 4736 | |
| 3700 | 2584 | 3671 | |
| 4000 | 2822 | 4153 | |
| | | 4000 | |

| CDP 40 DC -169 | | | |
|---|---|---|---|
| TIME | V | NMO | V INT |
| 60 | 2041 | 2041 | |
| 140 | 2099 | 2124 | |
| 440 | 2130 | 2148 | |
| 666 | 2189 | 2282 | |
| 760 | 2217 | 2293 | |
| 1146 | 2883 | 2469 | |
| 1380 | 2924 | 2569 | |
| 1620 | 3367 | 3680 | |
| 2120 | 2425 | 2684 | |
| 2660 | 2488 | 2660 | |
| 3280 | 2541 | 2676 | |
| 3780 | 2719 | 3678 | |
| 4100 | 2856 | 4146 | |
| | | 4000 | |

| CDP 79 DC -166 | | | |
|---|---|---|---|
| TIME | V | NMO | V INT |
| 58 | 2043 | 2043 | |
| 132 | 2086 | 2121 | |
| 260 | 2109 | 2124 | |
| 388 | 2155 | 2159 | |
| 520 | 2174 | 2172 | |
| 800 | 2235 | 2280 | |
| 1080 | 2382 | 2438 | |
| 1400 | 2911 | 2466 | |
| 1640 | 2371 | 2694 | |
| 1840 | 2414 | 2741 | |
| 2000 | 2433 | 2641 | |
| 2960 | 2601 | 2637 | |
| 3480 | 2626 | 2148 | |
| 3800 | 2724 | 3761 | |
| 4000 | 2816 | 4115 | |
| 4220 | 2894 | 4123 | |
| | | 4000 | |

| CDP 105 DC -162 | | | |
|---|---|---|---|
| TIME | V | NMO | V INT |
| 40 | 2043 | 2043 | |
| 120 | 2072 | 2092 | |
| 240 | 2104 | 2124 | |
| 370 | 2140 | 2156 | |
| 520 | 2172 | 2171 | |
| 780 | 2244 | 2273 | |
| 1020 | 2380 | 2401 | |
| 1140 | 2302 | 2452 | |
| 1800 | 2377 | 2602 | |
| 1960 | 2419 | 2642 | |
| 2580 | 2409 | 2376 | |
| 2920 | 2493 | 2955 | |
| 3300 | 2512 | 3175 | |
| 3860 | 2794 | 3510 | |
| 4040 | 2902 | 4137 | |
| | | 4000 | |

| CDP 153 DC -144 | | | |
|---|---|---|---|
| TIME | V | NMO | V INT |
| 72 | 2044 | 2044 | |
| 120 | 2091 | 2130 | |
| 280 | 2114 | 2142 | |
| 420 | 2151 | 2162 | |
| 540 | 2194 | 2196 | |
| 720 | 2233 | 2246 | |
| 820 | 2273 | 2314 | |
| 1000 | 2293 | 2388 | |
| 1260 | 2364 | 2473 | |
| 1840 | 2419 | 2587 | |
| 2120 | 2434 | 2527 | |
| 2560 | 2445 | 2467 | |
| 2840 | 2515 | 2149 | |
| 3280 | 2642 | 3371 | |
| 3960 | 2782 | 3771 | |
| 4300 | 2918 | 4119 | |
| | | 4000 | |

| CDP 190 DC -121 | | | |
|---|---|---|---|
| TIME | V | NMO | V INT |
| 60 | 2048 | 2048 | |
| 180 | 2106 | 2128 | |
| 300 | 2151 | 2138 | |
| 420 | 2181 | 2178 | |
| 750 | 2248 | 2331 | |
| 800 | 2282 | 2374 | |
| 960 | 2316 | 2431 | |
| 1080 | 2318 | 2381 | |
| 1800 | 2415 | 2629 | |
| 1960 | 2435 | 2660 | |
| 2620 | 2454 | 2566 | |
| 3220 | 2509 | 2743 | |
| 3920 | 2757 | 3683 | |
| 4280 | 2904 | 4119 | |
| | | 4000 | |

| CDP 288 DC -95 | | | |
|---|---|---|---|
| TIME | V | NMO | V INT |
| 52 | 2048 | 2048 | |
| 140 | 2099 | 2145 | |
| 300 | 2116 | 2117 | |
| 380 | 2134 | 2142 | |
| 640 | 2214 | 2265 | |
| 900 | 2267 | 2292 | |
| 980 | 2306 | 2351 | |
| 1100 | 2325 | 2433 | |
| 1280 | 2339 | 2450 | |
| 1320 | 2351 | 2526 | |
| 1640 | 2400 | 2618 | |
| 1780 | 2431 | 2690 | |
| 2080 | 2438 | 2449 | |
| 2600 | 2455 | 2593 | |
| 3200 | 2524 | 2851 | |
| 3850 | 2757 | 3659 | |
| 4280 | 2916 | 4076 | |
| | | 4000 | |

| CDP 264 DC -71 | | | |
|---|---|---|---|
| TIME | V | NMO | V INT |
| 100 | 2056 | 2056 | |
| 180 | 2096 | 2131 | |
| 380 | 2138 | 2162 | |
| 700 | 2184 | 2196 | |
| 800 | 2229 | 2243 | |
| 1000 | 2312 | 2344 | |
| 1120 | 2336 | 2427 | |
| 1280 | 2368 | 2543 | |
| 1560 | 2409 | 2570 | |
| 1720 | 2423 | 2618 | |
| 2180 | 2456 | 2575 | |
| 3100 | 2515 | 2649 | |
| 3800 | 2736 | 3614 | |
| 4050 | 2918 | 4051 | |
| | | 4000 | |

| CDP 292 DC -60 | | | |
|---|---|---|---|
| TIME | V | NMO | V INT |
| 72 | 2044 | 2044 | |
| 160 | 2083 | 2114 | |
| 400 | 2137 | 2172 | |
| 520 | 2158 | 2158 | |
| 640 | 2200 | 2215 | |
| 760 | 2260 | 2295 | |
| 1020 | 2325 | 2415 | |
| 1100 | 2341 | 2359 | |
| 1260 | 2370 | 2548 | |
| 1620 | 2414 | 2570 | |
| 1860 | 2436 | 2594 | |
| 2220 | 2462 | 2583 | |
| 3060 | 2668 | 3631 | |
| 3830 | 2736 | 3598 | |
| 4230 | 2962 | 4023 | |
| | | 4000 | |

| CDP 328 DC -52 | | | |
|---|---|---|---|
| TIME | V | NMO | V INT |
| 52 | 2042 | 2042 | |
| 156 | 2078 | 2096 | |
| 340 | 2120 | 2153 | |
| 460 | 2156 | 2231 | |
| 540 | 2184 | 2234 | |
| 650 | 2234 | 2328 | |
| 1004 | 2327 | 2501 | |
| 1180 | 2363 | 2573 | |
| 1400 | 2392 | 2541 | |
| 1700 | 2430 | 2610 | |
| 1880 | 2447 | 2594 | |
| 2200 | 2462 | 2540 | |
| 2600 | 2488 | 2560 | |
| 3040 | 2510 | 2745 | |
| 3700 | 2729 | 3568 | |
| 4140 | 2886 | 3957 | |
| | | 4000 | |

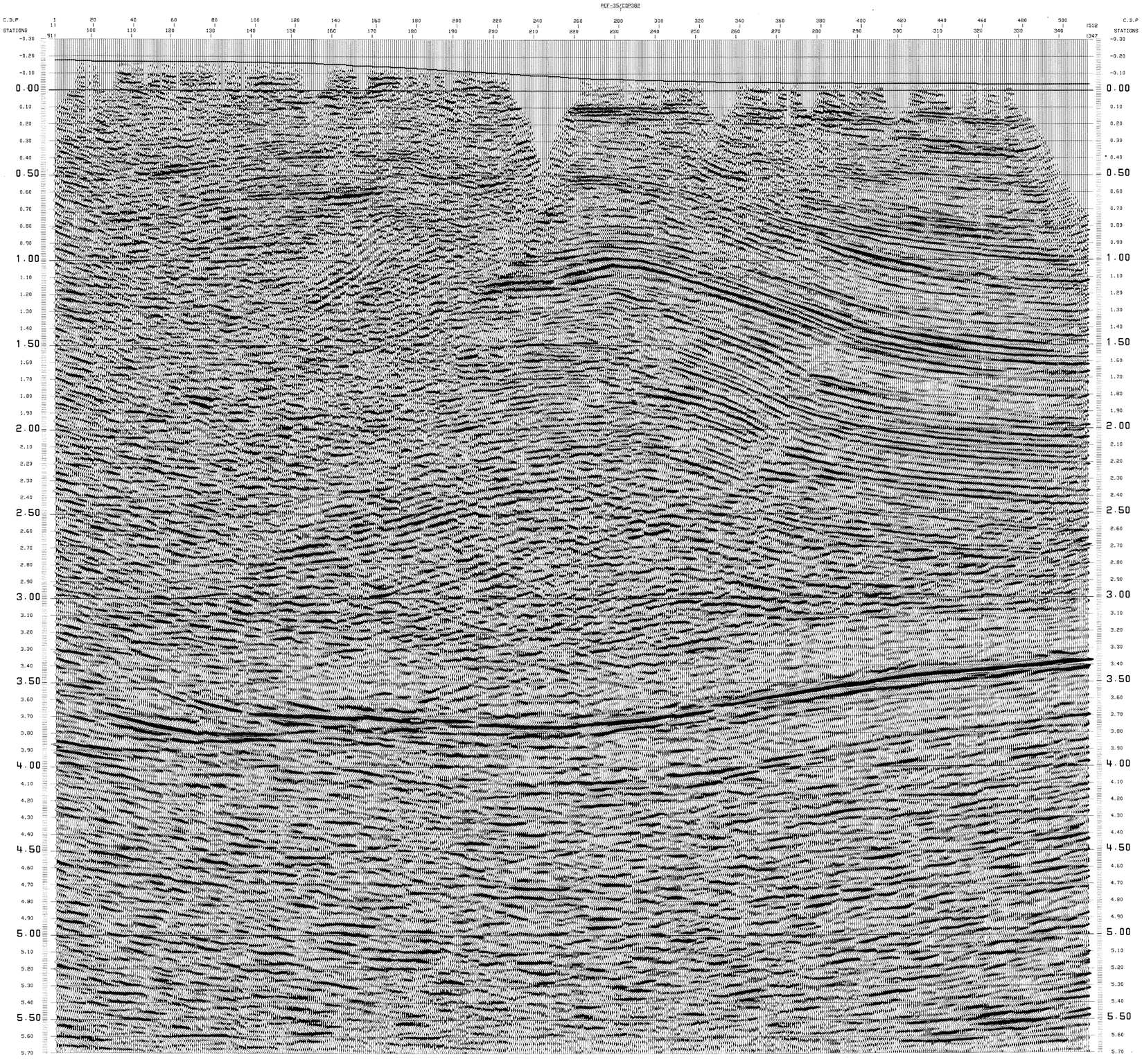
| CDP 357 DC -46 | | | |
|---|---|---|---|
| TIME | V | NMO | V INT |
| 60 | 2040 | 2040 | |
| 176 | 2080 | 2103 | |
| 352 | 2121 | 2137 | |
| 528 | 2161 | 2174 | |
| 640 | 2201 | 2224 | |
| 800 | 2254 | 2288 | |
| 1104 | 2334 | 2505 | |
| 1268 | 2389 | 2553 | |
| 1380 | 2398 | 2329 | |
| 2400 | 2464 | 2541 | |
| 2668 | 2475 | 2648 | |
| 3200 | 2549 | 2847 | |
| 3648 | 2700 | 3747 | |
| 4060 | 2870 | 3925 | |
| | | 4000 | |

| CDP 395 DC -42 | | | |
|---|---|---|---|
| TIME | V | NMO | V INT |
| 72 | 2042 | 2042 | |
| 180 | 2081 | 2116 | |
| 360 | 2121 | 2150 | |
| 520 | 2161 | 2174 | |
| 640 | 2205 | 2229 | |
| 800 | 2265 | 2272 | |
| 1280 | 2367 | 2597 | |
| 1400 | 2406 | 2536 | |
| 1540 | 2426 | 2604 | |
| 1800 | 2456 | 2626 | |
| 2120 | 2508 | 2782 | |
| 3160 | 2538 | 2598 | |
| 3560 | 2716 | 3804 | |
| 3980 | 2856 | 3878 | |
| | | 4000 | |

| CDP 456 DC -30 | | | |
|---|---|---|---|
| TIME | V | NMO | V INT |
| 52 | 2047 | 2047 | |
| 180 | 2084 | 2113 | |
| 420 | 2141 | 2178 | |
| 540 | 2210 | 2236 | |
| 800 | 2280 | 2296 | |
| 1800 | 2365 | 2640 | |
| 1960 | 2377 | 2567 | |
| 1440 | 2403 | 2577 | |
| 1540 | 2430 | 2788 | |
| 1700 | 2463 | 2760 | |
| 2080 | 2511 | 2715 | |
| 3120 | 2521 | 2665 | |
| 3500 | 2706 | 3802 | |
| 3860 | 2849 | 3910 | |
| | | 4000 | |

| CDP 512 DC -34 | | | |
|---|---|---|---|
| TIME | V | NMO | V INT |
| 63 | 2040 | 2040 | |
| 240 | 2082 | 2113 | |
| 420 | 2140 | 2198 | |
| 540 | 2210 | 2236 | |
| 960 | 2300 | 2329 | |
| 1440 | 2341 | 2579 | |
| 1440 | 2357 | 2517 | |
| 1440 | 2400 | 2305 | |
| 1700 | 2466 | 2863 | |
| 1900 | 2474 | 2543 | |
| 2120 | 2500 | 2714 | |
| 3120 | 2603 | 2596 | |
| 3400 | 2682 | 4194 | |
| 3800 | 2839 | 2927 | |
| | | 4000 | |

PEF-28-88/634 — PEF-11-87/268 — PEF-29/CDP565 — PEF-12-87/234 — PEF-35/CDP382




# FINA ITALIANA

## SAN SALVATORE 1991

## PEF-34-90

W 98 — 325 E
SHOT POINTS

DIRECTION OF SHOOTING

## AMCO-D
MIGRATION IN TIME
DIP MOVE OUT PROCESSING

187M269W
* CGG PROJECT NUMBER

PL 134 AMR
DATE 12/11/91

### FIELD PARAMETERS

| | |
|---|---|
| CONTRACTOR....SIAG | RECORDING LENGTH....6000 MS |
| PARTY NUMBER....04 | SAMPLE RATE....2 MS |
| DATE....18 TO 28 DECEMBER 1990 | RECORDING FILTERS.... |
| RECORDER....DFS4 | . LOW CUT....88 HZ |
| TAPES....1567 | . HIGH CUT....178 HZ |
| DENSITY....6250 BPI | . PREAMPLIFIER GAIN....7 |

### SOURCE - RECEIVER - SPREAD

** SOURCE **

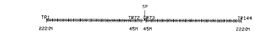
| | |
|---|---|
| ENERGY....DYNAMITE | AVERAGE DEPTH....27 M |
| NB OF HOLES....1 | AVERAGE CHARGE....3 KG |

** RECEIVER **

| | |
|---|---|
| GEOPHONES TYPE....SM4-10HZ | NB OF GEOPHONES/STRING....6 |
| STRINGS NUMBER....4 | GEOPHONES LINES NUMBER....2 |

** SPREAD **

| | |
|---|---|
| SPREAD....144 CHANNELS | S.P. SPACING....120 M |
| TRACE SPACING....30 M | OFFSET MINIMUM....2020 M |




### SURFACE CORRECTIONS

| | |
|---|---|
| METHOD | FIRST BREAKS |
| VELOCITY USED FOR STATIC CORRECTIONS | 2800 M/S |
| DATUM PLANE | 0 M |
| CORRECTIONS SIGN | SHOOTERS TIMES |

CGG - DATA PROCESSING SERVICES
1, RUE LEON MIGAUX 91341 MASSY CEDEX FRANCE

### PROCESSING

SIGNAL LENGTH PROCESSED : 6 S
SAMPLING INTERVAL : 4 MS

DEMULTIPLEXING
. AND RESAMPLING @ 2 TO 4 MS
LABELLING AND TRACE EDITING
REFLECTION POINT GATHERING
. (SALOM LINE**)
AMPLITUDE RECOVERY
INSTRUMENT & GEOPHONE
. PHASE DISTORTION REMOVAL
MINIMUM PHASE DECONVOLUTION

| . WINDOW(MS) | OPER.L | PREWHIT.F |
|---|---|---|
| . 0200-1000 | L120 | 1050 |
| . 1000-3000 | L120 | 1050 |
| . 2700-4500 | L120 | 1100 |

PREFILTERING : LOW-CUT AT 11 HZ
STATIC CORRECTIONS (FROM GROUND
. LEVEL TO DPC *)
AUTOMATIC STATICS : MEDIUM
. WAVELENGTH STATICS (SATAN MF))
VELOCITY ANALYSIS (CONSTANT VELOCITY STACKS : VSCAN)
NMO CORRECTIONS
. LINEAR INTERPOLATION BETWEEN VELOCITY FUNCTIONS
MUTING
STATIC CORRECTIONS (FROM DPC* TO DP)
TRACE EQUALIZATION : 400 MS
AUTOMATIC STATICS :
. SHORT WAVELENGTH RESIDUAL SURFACE CONSISTENT STATICS (SATAN))
DMO PROCESSING
MIGRATION IN THE F.K. PLAN (CONSTANT
. MIGRATION VELOCITY : V=2000 M/S)
VELOCITY ANALYSIS

. (CONSTANT VELOCITY STACKS : VSCAN)
NMO CORRECTIONS
. LINEAR INTERPOLATION BETWEEN VELOCITY FUNCTIONS
STACK MODE %
RESIDUAL MIGRATION
. (SMOOTHED VELOCITIES=
. VM = V5 - - T - 0 MS
. VM = V5+ 25% - T = 2500 MS)
RANDOM NOISE ATTENUATION (VIZIR)
. (TWO RUNS)
TRACE EQUALIZATION

| . WINDOW (MS) | OPER.LENGTH(MS) |
|---|---|
| . 0- 1600 | 380 |
| . 1600- 6000 | 600 |

FILTERING

| . BAND-PASS (HZ) | WINDOW (MS) | L.OP. |
|---|---|---|
| . 10-20-50-70 | T 0-T 1800 | 250 |
| . 08-18-45-55 | T 2700-T 3400 | 300 |
| . 07-17-40-50 | T 3800-T 6800 | 400 |

SPATIAL COHERENCY ENHANCEMENT(ANDOD)
. DIPS : -8/+4 MS PER TRACE
. PERCENTAGE :

| TIME | PERCENTAGE |
|---|---|
| 0 | 20 |
| 2000 | 20 |
| 4000 | 40 |
| 6000 | 50 |

TRACE EQUALIZATION

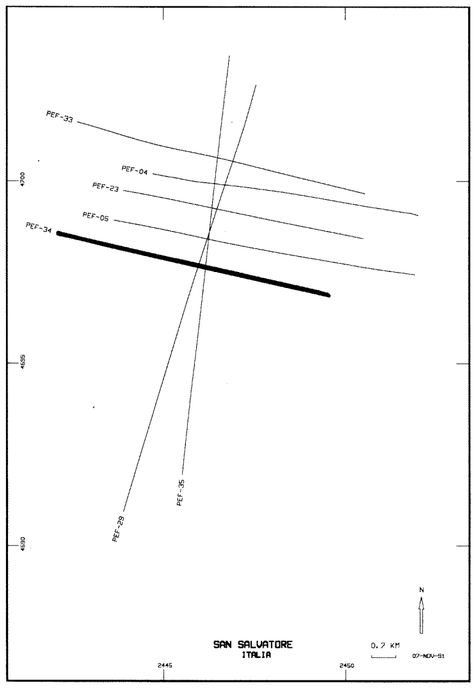
| . WINDOW (MS) | LENGTH OPER(MS) |
|---|---|
| . 0 - 4000 | 600 |
| . 4000 - 6000 | 1000 |

ANALOG DISPLAY

(*) DPC : THIS AUXILIARY DATUM (AVERAGE GROUND LEVEL) IS AN INTERMEDIATE DATUM USED AS TIME ZERO FOR NMO CORRECTIONS. IT IS SHOWN AS A BLACK PEAK ON TOP OF THE SECTION. ADD THE TIME NOTED AS 'DC' TO TIMES OF EACH VELOCITY FUNCTION TO REDUCE THESE TIMES TO THE DATUM PLANE.
(**) CGG TRADEMARK

### POLARITY CONVENTION

COMPRESSION=NEGATIVE VALUE ON TAPE
AFTER PROCESSING=WHITE TROUGH ON SECTION

| | |
|---|---|
| . HORIZONTAL SCALE : | 1 / 25000 |
| . VERTICAL SCALE : | 1 SEC = 5 CM |

SCALE
65.7 TR. = 1 KILOMETER