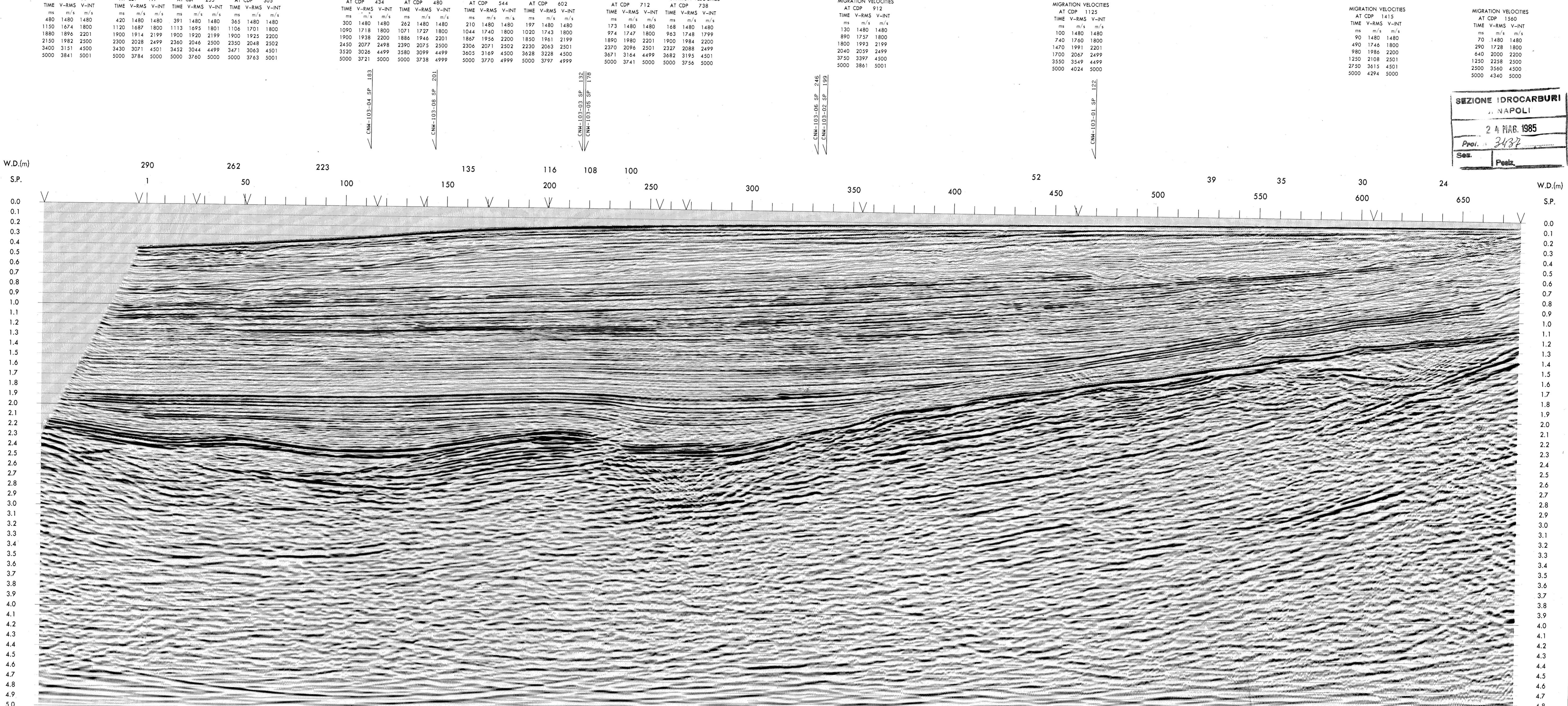


JOB: CNW LINE: 07 NAME: TVF DEPT: FRAN
 SEQ: FSM7 PART: 1 DATE: 10/17/83
 MERLIN GEOPHYSICAL COMPANY LIMITED
 CNW-103-07 MIGRATED STACK



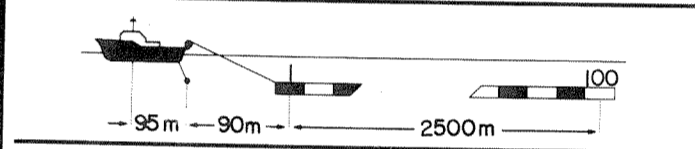
CANADA NORTHWEST (CNW)
 ITALIANA SPA

line: CNW-103-07 sp: 1-680
 area: OFFSHORE SICILY
 title: PERMIT CR.103.CN
 5000% MIGRATED STACK
 direction: (N)

SEZIONE IDROCARBURI
 NAPOLI
 25 MAR. 1985
 Profilo 3437
 Sez. Pelez



ACQUISITION:
 SHOT BY: SEISMIC PROFILERS S.V. ROMA PROFILERS (L. 1983)
 ENERGY SOURCE: wide array
 type: wide array
 pop interval: 25m
 shot point interval: 25m
 source depth: 7.5m
 source volume: 3640 cuins
 RECEIVING ARRANGEMENT:
 fold of recording: 50
 no. of groups: 100 interval 25m
 cable length: 2500m depth 8.0m
 near trace: 1 offset 90m
 INSTRUMENTATION:
 recording system: DFS V
 gain type: I.F.F.
 filters: low cut: 3.5 Hz slope 18 dB/octave
 high cut: 128 Hz slope 7.2 dB/octave
 record format: reqd. 1600 bps, 100 channels
 record length: 6s
 sample rate: 2ms
 POSITIONING SYSTEM:
 primary: TRISPONDER
 secondary: SATNAV



PROCESSED BY: MERLIN GEOPHYSICAL CO. LTD., WOODHALL, ENGLAND.
 (SEPTEMBER 1983, CONTRACT 401)

- DEMULPLEX
- 2MS TO 4MS SUBSAMPLE:
anti alias filter: 90(36)Hz (dB/oct)
- STATIC CORRECTIONS:
source and receiver depth: +13ms
- DECONVOLUTION BEFORE STACK:
pre-deconvolution amplitude scaling: 12dB/s exp. to 3.0s
type: minimum phase least squares inverse
zone I zone II
autocorrelation window length: 1450ms 2200ms
max. prediction lag: 240ms 240ms
min. prediction lag: 12ms 12ms
post-deconvolution inverse scaling: -12dB/s exp. to 3.0s
- NMO CORRECTION:
velocity derivation: contoured semblance spectro
offset dependent mute
- STACK:
type: standard mean amplitude CDP
coverage: 5000%
- DECONVOLUTION AFTER STACK:
type: space variant geometrical divergence compensation
minimum phase least squares inverse
zone I zone I
autocorrelation window length: 1800ms 2000ms
max. prediction lag: 240ms 240ms
min. prediction lag: 60ms 60ms
- WAVE EQUATION MIGRATION:
finite difference solution: 48ms depth step
pre-migration filter: 8(24)-80(36)Hz (dB/oct)
migration velocity derivation: interval velocity model
- SPACE TIME VARIETY FILTER:
sp 1: time low cut high cut
(ms) (ms) (ms) (dB/oct)
500 10(18) 80(36)
2170 8(24) 60(36)
3390 8(24) 30(36)
- TWO DIMENSIONAL FILTER:
number of adjacent traces: 7
passband: +8 to -8ms dip per trace
percentage input feedback: 70
- AMPLITUDE BALANCE:
a) general amplitude trend analysis and compensation
b) robust AGC

DISPLAY:
 system: SCITEX laser plotter
 vertical scale: 10.0 cm/sec
 5.0 cm/sec
 horizontal scale: 1:12500 (10 traces/cm)
 1:25000 (20 traces/cm)
 gain: 2.5dB 1.0dB
 bias: 10% 5%
 polarity: compression: negative: trough
 datum plane: sea level
 shotpoint location: source position