MIGRATION VELOCITIES AT CDP 890

TIME	V-RMS	V-INT
ms	m/s	m/s
400	1480	1480
1090	1690	1801
1450	1830	2200
1900	2009	2500
3100	3211	4499
5000	3987	5001

MIGRATION VELOCITIES AT CDP 735

TIME	V-RMS	V-INT
ms	m/s	m/s
319	1480	1480
1100	1713	1799
1880	1930	2200
2390	2065	2500
3500	3055	4500
5000	3746	5000

MIGRATION VELOCITIES AT CDP 640

TIME	V-RMS	V-INT
ms	m/s	m/s
269	1480	1480
1072	1725	1800
1869	1942	2200
2384	2075	2498
3680	3149	4499
5000	3728	5000

MIGRATION VELOCITIES AT CDP 566

TIME	V-RMS	V-INT
ms	m/s	m/s
230	1480	1480
1050	1735	1800
1860	1951	2200
2380	2083	2499
3670	3151	4499
5000	3733	4999

MIGRATION VELOCITIES AT CDP 390

TIME	V-RMS	V-INT
ms	m/s	m/s
170	1480	1480
1020	1751	1800
1790	1957	2200
2420	2112	2501
3680	3141	4500
5000	3723	5000

MIGRATION VELOCITIES AT CDP 250

TIME	V-RMS	V-INT
ms	m/s	m/s
134	1480	1480
940	1758	1800
1700	1968	2200
2430	2142	2501
3694	3154	4500
5000	3725	4999

MIGRATION VELOCITIES AT CDP 194

TIME	V-RMS	V-INT
ms	m/s	m/s
120	1480	1480
900	1761	1800
1610	1967	2201
2470	2168	2501
3700	3142	4501
5000	3716	5001

MIGRATION VELOCITIES AT CDP 103

TIME	V-RMS	V-INT
ms	m/s	m/s
110	1480	1480
820	1760	1799
1550	1979	2199
2320	2166	2500
3640	3215	4501
5000	3785	5001

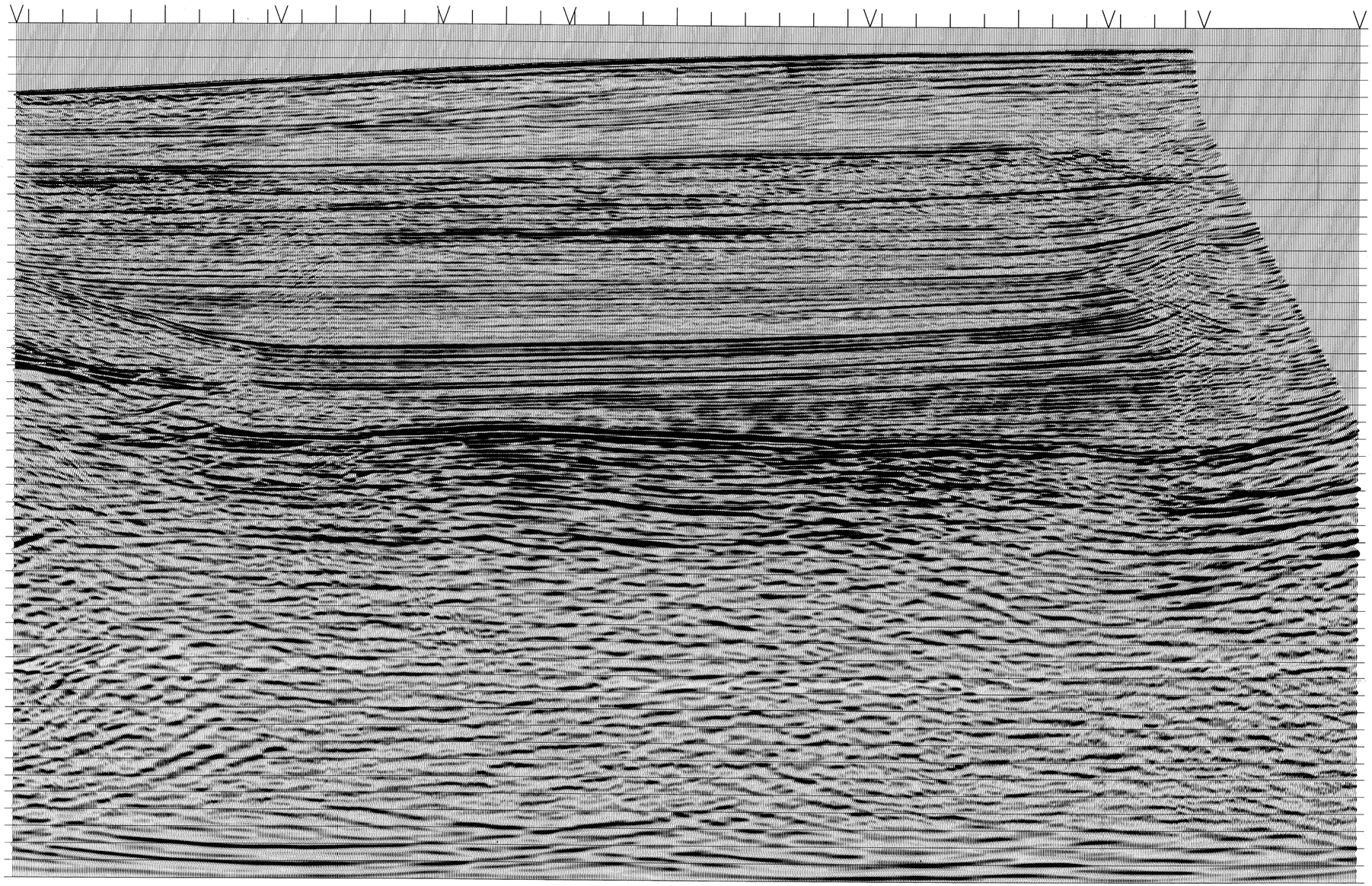
CNW-103-04 SP 142

CNW-103-07 SP 144

CNW-103-03 SP 43

W.D.(m) 283 253 219 176 146 120 102 88 79 W.D.(m)

S.P. 300 250 200 150 100 50 1 S.P.



CDP 882 872 862 852 842 832 822 812 802 792 782 772 762 752 742 732 722 712 702 692 682 672 662 652 642 632 622 612 602 592 582 572 562 552 542 532 522 512 502 492 482 472 462 452 442 432 422 412 402 392 382 372 362 352 342 332 322 312 302 292 282 272 262 252 242 232 222 212 202 192 182 172 162 152 142 132 122 112 CDP

MERLIN GEOPHYSICAL COMPANY LIMITED DATE: 10/16/83

CNW-103-08 MIGRATED STACK

CANADA NORTHWEST (CNW)
ITALIANA SPA

line: CNW-103-08 sp: 1-345
area: OFFSHORE SICILY
PERMIT CR.103.CN
title: 5000% MIGRATED STACK
direction: ← (WSW)

MERLIN GEOPHYSICAL COMPANY LTD

ACQUISITION:

SHOT BY: SEISMIC PROFILERS M.V. NINA PROFILER (JUNE 1983)

ENERGY SOURCE:

type	wide airgun array	
pop interval	25m	
shot point interval	25m	
source depth	7.5m	
source volume	3640 cu.ins	

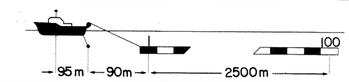
RECEIVING ARRANGEMENT:

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.P.	
filters: low cut	3.5 Hz	slope 18 dB/octave
high cut	128 Hz	slope 72 dB/octave
record format	segB, 1600 bpi, 100 channels	
record length	6s	
sample rate	2ms	

POSITIONING SYSTEM:
primary: TRISPONDER secondary: SATNAV



PROCESSING:

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

1. DEMULTIPLEX
2. 2MS TO 4MS SUBSAMPLE:
   anti alias filter: 90(36)Hz (dB/oct)
3. STATIC CORRECTIONS:
   source and receiver depth: +13ms
4. 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	

5. NMO CORRECTION:
   velocity derivation: contoured semblance spectra
   offset dependent mute
6. STACK:
   type: standard mean amplitude CDP
   coverage: 5000%
   space variant geometrical divergence compensation
7. DECONVOLUTION AFTER STACK:

type	minimum phase least squares inverse	
	zone I	zone I
autocorrelation window length	1800ms	2000ms
max. prediction lag	240ms	240ms
min. prediction lag	60ms	60ms

8. 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
9. SPACE TIME VARIANT FILTER:

sp 1	time (ms)	low cut hz (dB/oct)	high cut hz (dB/oct)
filters linearly interpolated	140	10(18)	80(36)
in space and time.	2180	8(24)	60(36)
cuts and slopes specified	3470	8(24)	30(36)
at −3dB point.			

10. TWO DIMENSIONAL FILTER:
    number of adjacent traces: 7
    passband: +8 to −8ms dip per trace
    percentage input feedback: 70
11. 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)
	1:25,000 (20 traces/cm)
gain	2.5dB : 1.0dB
bias	10% : 5%
polarity	compression : negative : trough
datum plane	sea level
shotpoint location	source position