MIGRATION VELOCITIES AT CDP 1020

TIME ms	V-RMS m/s	V-INT m/s
100	1480	1480
300	1700	1800
600	1966	2200
800	2112	2499
2700	3946	4500
5000	4462	5000

MIGRATION VELOCITIES AT CDP 898

TIME ms	V-RMS m/s	V-INT m/s
101	1480	1480
310	1702	1800
660	1982	2200
860	2114	2501
2750	3913	4499
5000	4435	5000

MIGRATION VELOCITIES AT CDP 715

TIME ms	V-RMS m/s	V-INT m/s
103	1480	1480
550	1744	1800
850	1917	2199
1050	2041	2500
2990	3821	4500
5000	4334	5001

MIGRATION VELOCITIES AT CDP 600

TIME ms	V-RMS m/s	V-INT m/s
105	1480	1480
660	1753	1800
1200	1967	2200
1480	2078	2498
3210	3592	4500
5000	4151	4999

MIGRATION VELOCITIES AT CDP 358

TIME ms	V-RMS m/s	V-INT m/s
107	1480	1480
760	1758	1800
1000	1874	2201
1800	2175	2501
3530	3512	4499
5000	4007	4999

MIGRATION VELOCITIES AT CDP 103

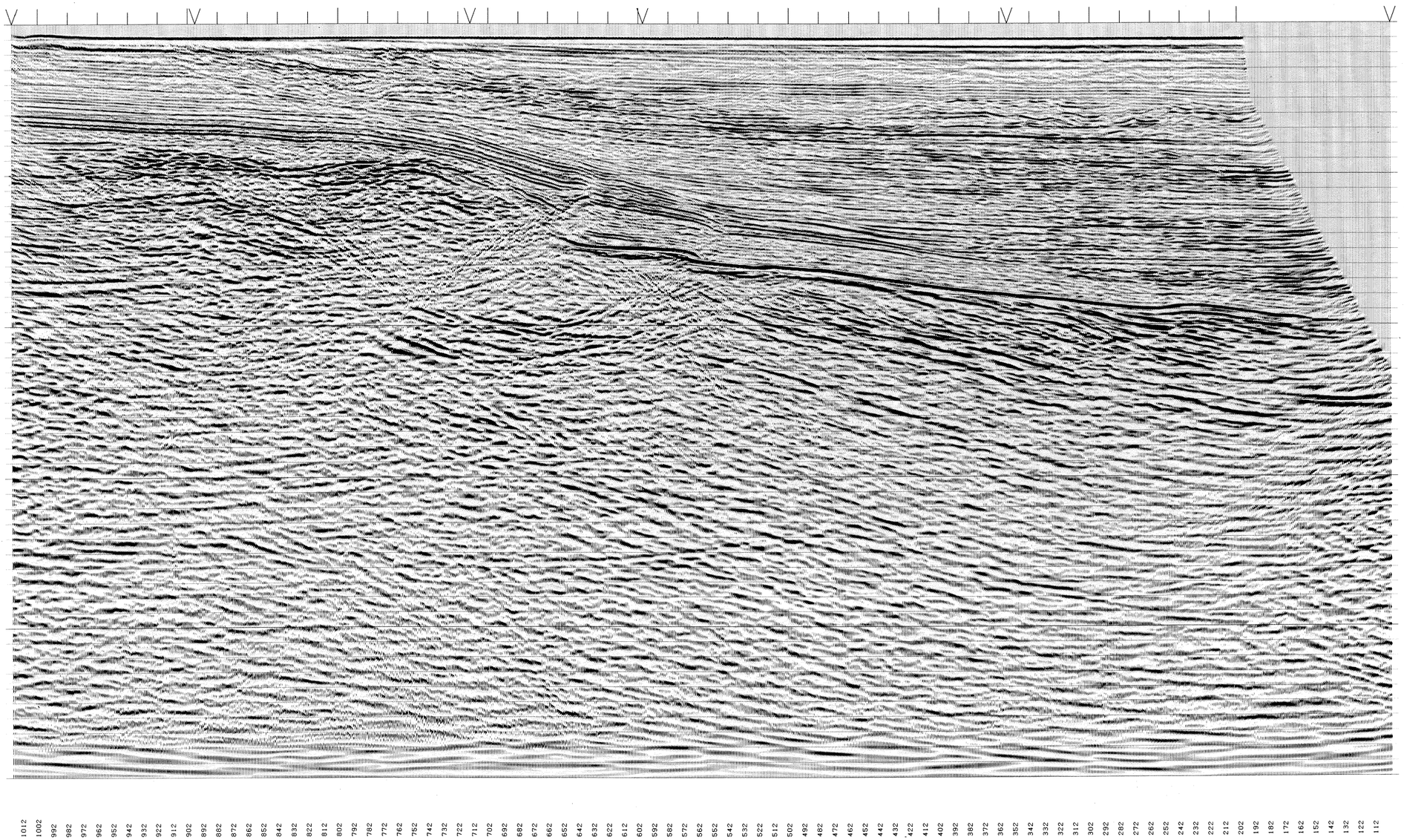
TIME ms	V-RMS m/s	V-INT m/s
110	1480	1480
840	1761	1800
1660	1990	2200
2030	2092	2499
3610	3365	4500
5000	3889	5000

CNW-103-07 SP 469

CNW-103-06 SP 361

W.D.(m) 30 41 43 44 46 47 49 51 52 53 W.D.(m)

S.P. 400 350 300 250 200 150 100 50 1 S.P.



CDP 1012 1002 992 982 972 962 952 942 932 922 912 902 892 882 872 862 852 842 832 822 812 802 792 782 772 762 752 742 732 722 712 702 692 682 672 662 652 642 632 622 612 602 592 582 572 562 552 542 532 522 512 502 492 482 472 462 452 442 432 422 412 402 392 382 372 362 352 342 332 322 312 302 292 282 272 262 252 242 232 222 212 202 192 182 172 162 152 142 132 122 112 CDP

DATE: 10/17/83

MERLIN GEOPHYSICAL COMPANY LIMITED

CNW-103-01 MIGRATED STACK

CANADA NORTHWEST (CNW) ITALIANA SPA

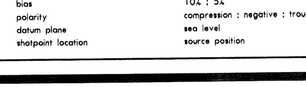
line: CNW-103-01 sp: 1-410
area: OFFSHORE SICILY
PERMIT CR.103.CN
title: 5000% MIGRATED STACK
direction: ← (WNW)

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 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.P.	
filters: low cut	3.5 Hz	slope 18 dB/octave
high cut	128 Hz	slope 72 dB/octave
record format	seg@, 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
filters linearly interpolated	120 10(18) 80(36)
in space and time.	2100 8(24) 60(36)
cuts and slopes specified	3830 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