

DATE: 09/16/83

MERLIN GEOPHYSICAL COMPANY LIMITED

CNW-103-06 MIGRATED STACK

MIGRATION VELOCITIES

AT CDP 103		
TIME	V-RMS	V-INT
ms	m/s	m/s
500	1480	1480
1150	1668	1799
1400	1775	2201
1650	1903	2502
3650	3568	4500
5000	4005	4999

MIGRATION VELOCITIES

AT CDP 252		
TIME	V-RMS	V-INT
ms	m/s	m/s
305	1480	1480
1093	1717	1800
1550	1872	2199
1920	2008	2499
3850	3487	4499
5000	3887	4998

MIGRATION VELOCITIES

AT CDP 365		
TIME	V-RMS	V-INT
ms	m/s	m/s
205	1480	1480
1050	1742	1800
1800	1946	2200
2250	2069	2501
3836	3299	4500
5000	3764	4999

MIGRATION VELOCITIES

AT CDP 480		
TIME	V-RMS	V-INT
ms	m/s	m/s
190	1480	1480
992	1743	1800
1900	1975	2200
2400	2095	2499
3822	3208	4500
5000	3709	5000

MIGRATION VELOCITIES

AT CDP 660		
TIME	V-RMS	V-INT
ms	m/s	m/s
110	1480	1480
900	1764	1800
1860	2001	2200
2200	2086	2500
3800	3323	4499
5000	3794	5001

MIGRATION VELOCITIES

AT CDP 838		
TIME	V-RMS	V-INT
ms	m/s	m/s
100	1480	1480
800	1763	1800
1700	2006	2200
1910	2066	2499
3600	3431	4500
5000	3934	5000

MIGRATION VELOCITIES

AT CDP 980		
TIME	V-RMS	V-INT
ms	m/s	m/s
95	1480	1480
703	1760	1800
1600	2019	2201
1800	2078	2500
3551	3489	4500
5000	3986	5000

MIGRATION VELOCITIES

AT CDP 1130		
TIME	V-RMS	V-INT
ms	m/s	m/s
90	1480	1480
600	1756	1800
1400	2022	2200
1600	2109	2499
3500	3559	4500
5000	4046	5001

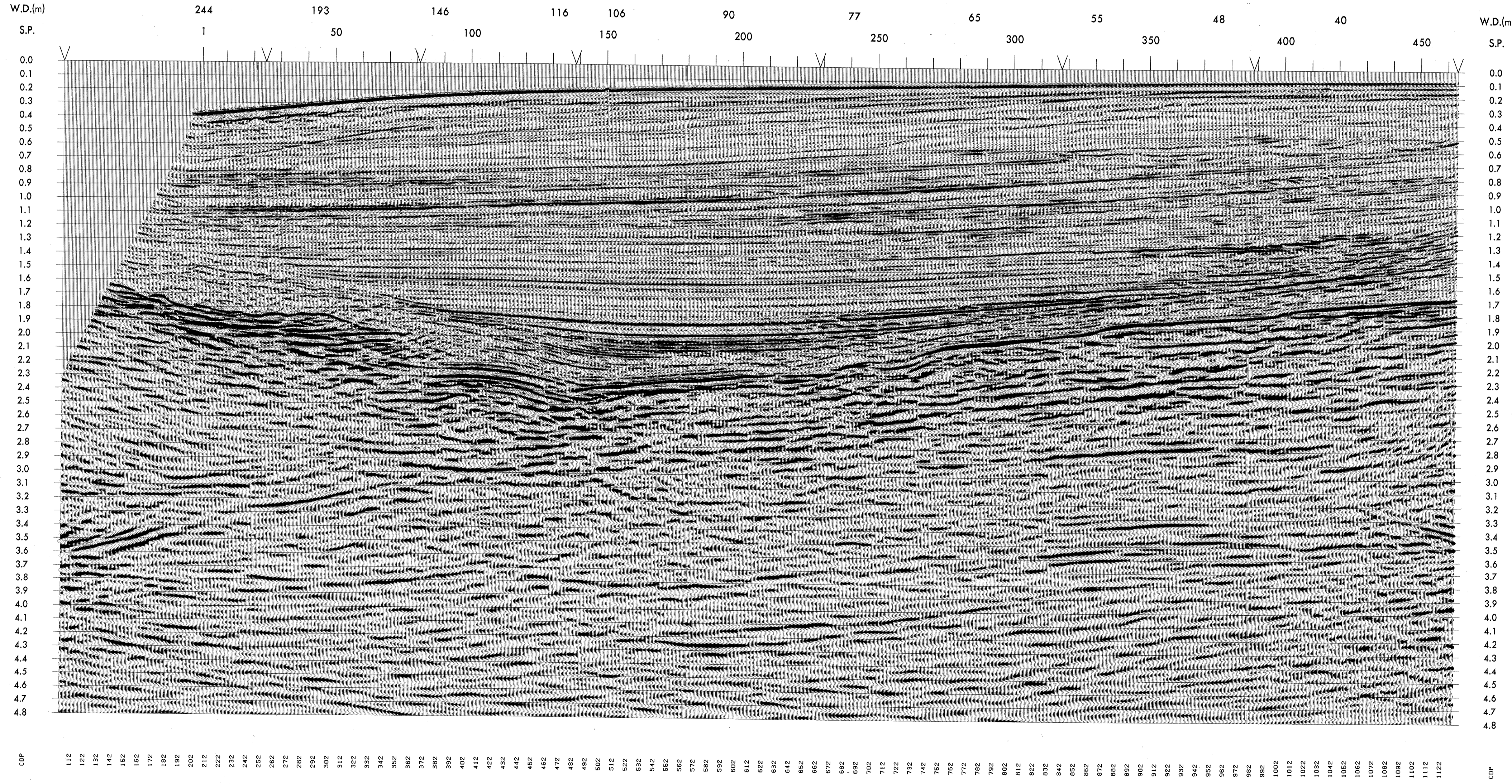
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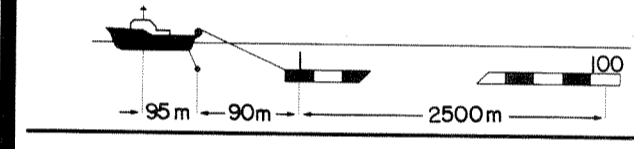
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line: CNW-103-06 sp: 1-465  
 area: OFFSHORE SICILY PERMIT CR.103.CN  
 title: 5000% MIGRATED STACK  
 direction: (NNE)



ACQUISITION:

SHOT BY:	SEISMIC PROFILERS M.V. NNA PROFILER (LIND 1983)
ENERGY SOURCE:	wide airgun array
type	25m
pop interval	25m
shot point interval	7.5m
source depth	3640 cuins
source volume	
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	90(36)Hz (dB/oct)
2. 2MS TO 4MS SUBSAMPLE:	anti alias filter
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 low cut high cut (ms) Hz (dB/oct)
filters linearly interpolated in space and time,	450 10(18) 80(36)
cuts and slopes specified at -3dB point,	1700 8(24) 60(36)
	3100 8(24) 30(36)
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
horizontal scale	5.0 cm/sec
gain	1:12500 (10 traces/cm)
bias	1:25,000 (20 traces/cm)
polarity	2.5dB ; 1.0dB
datum plane	compression : negative ; trough
shotpoint location	src level source position