MIGRATION VELOCITIES AT CDP 1440

TIME ms	V-RMS m/s	V-INT m/s
130	1480	1480
590	1735	1801
820	1877	2200
1080	2044	2499
2990	3801	4501
5000	4323	5000

MIGRATION VELOCITIES AT CDP 1145

TIME ms	V-RMS m/s	V-INT m/s
130	1480	1480
590	1735	1801
750	1844	2200
1020	2038	2499
2980	3839	4500
5000	4346	5001

MIGRATION VELOCITIES AT CDP 1053

TIME ms	V-RMS m/s	V-INT m/s
145	1480	1480
590	1727	1800
800	1863	2201
1030	2023	2501
3030	3842	4501
5000	4335	4999

MIGRATION VELOCITIES AT CDP 875

TIME ms	V-RMS m/s	V-INT m/s
173	1480	1480
890	1743	1801
1200	1872	2201
1520	2020	2498
3470	3629	4501
5000	4098	5001

MIGRATION VELOCITIES AT CDP 702

TIME ms	V-RMS m/s	V-INT m/s
200	1480	1480
1000	1741	1800
1820	1961	2200
2310	2087	2500
3710	3218	4501
5000	3759	4999

MIGRATION VELOCITIES AT CDP 520

TIME ms	V-RMS m/s	V-INT m/s
200	1480	1480
1020	1742	1800
1880	1965	2200
2280	2069	2501
3670	3214	4500
5000	3773	5001

MIGRATION VELOCITIES AT CDP 465

TIME ms	V-RMS m/s	V-INT m/s
200	1480	1480
1026	1742	1800
1863	1961	2200
2220	2057	2499
3678	3253	4500
5000	3794	5000

MIGRATION VELOCITIES AT CDP 322

TIME ms	V-RMS m/s	V-INT m/s
200	1480	1480
1040	1743	1800
1820	1952	2200
2390	2096	2501
3700	3163	4499
5000	3729	5001

MIGRATION VELOCITIES AT CDP 197

TIME ms	V-RMS m/s	V-INT m/s
200	1480	1480
1050	1744	1801
1800	1947	2200
2460	2110	2501
3800	3166	4500
5000	3690	4999

MIGRATION VELOCITIES AT CDP 103

TIME ms	V-RMS m/s	V-INT m/s
200	1480	1480
1050	1744	1801
1770	1942	2199
2500	2120	2500
3820	3153	4501
5000	3674	5001

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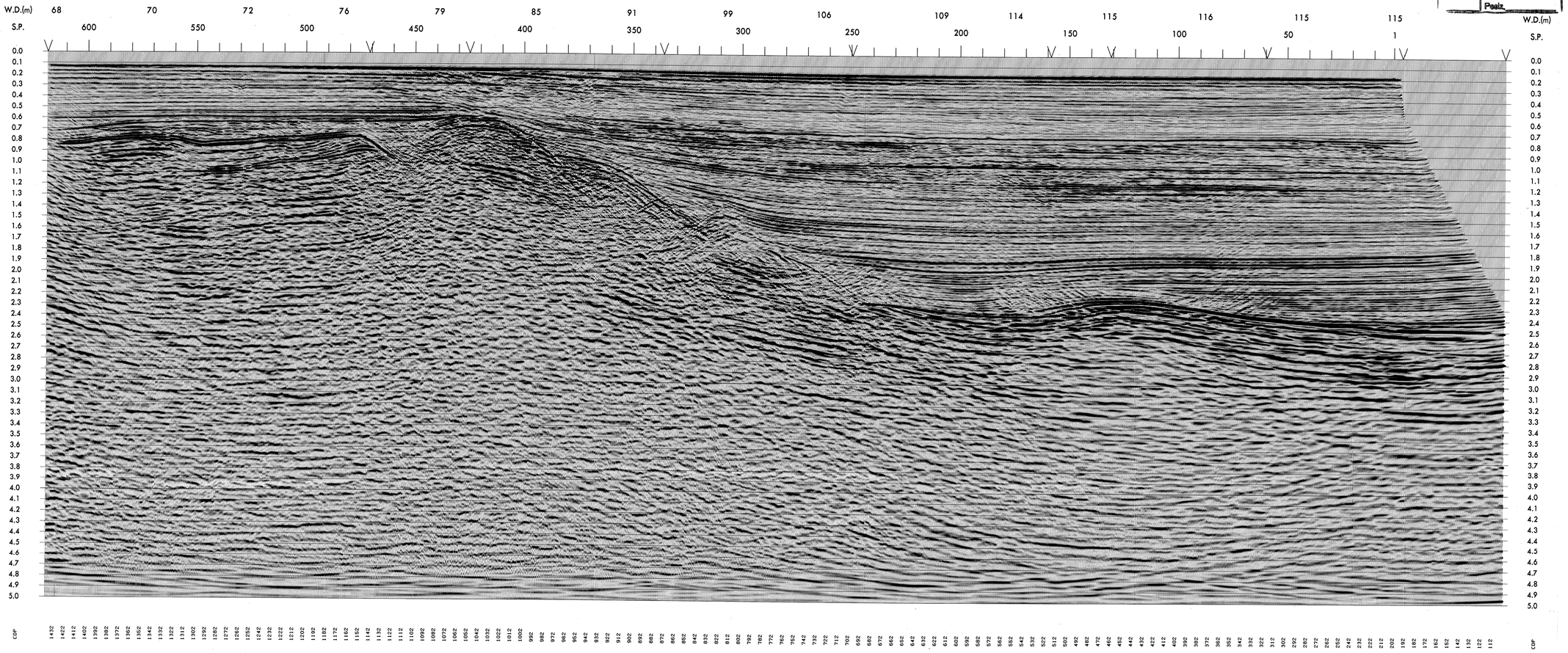
Sez. Posiz.



MERLIN GEOPHYSICAL COMPANY LIMITED

CNW-103-03 MIGRATED STACK

DATE: 09/17/83

CANADA NORTHWEST (CNW)
ITALIANA SPA

line: CNW-103-03 sp: 1-620
area: OFFSHORE SICILY
PERMIT CR.103.CN
title: 5000% MIGRATED STACK
direction: ← (WNW)

MERLIN GEOPHYSICAL COMPANY LTD

ACQUISITION:

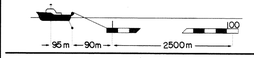
SHOT BY: SEISMIC PROFILERS M.V. NINA PROFILER (JUNE 1983)

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

RECEIVING ARRANGEMENT:
- field 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: seg8, 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	high cut (dB/oct)
filters linearly interpolated	210	10(18)	80(36)
in space and time.	2580	8(24)	60(36)
cuts and slopes specified	3540	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