

Client: **PETREX**
 Area: **B.R169.PX D.R68.PX**
 Location: **Gargano Offshore Italy**
 Line: **D85-161**
 Shotpoints: **100-646**
 Process: **FINAL FILTERED STACK**

Acquisition: **Prakla-Seismos** DATE: DECEMBER 1985
 PARTY NUMBER: SV-MANTA

ENERGY SOURCE: **PRAKLA D**
 type: **25 metres**
 shotpoint interval: **10 guns**
 source depth: **3 m. average**
 source array: **array volume 786 guns.**
 size: **10 guns**

RECEIVING ARRANGEMENT:
 field of recording: **24** type: **C.D.F.**
 no. of groups: **48** interval: **25 metres.**
 cable length: **1275 m.** depth: **5.0 metres.**
 near trace: **48** offset: **100 metres.**
 far trace: **1** offset: **1200 metres.**

INSTRUMENTATION:
 hydrophones: **Multidyn md 5.**
 recording system: **DPS V**
 filters: **low cut 12 Hz slope 18 dB/octave**
high cut 128 Hz slope 70 dB/octave
 record format: **SEGB 1600 B.P.L.**
 record length: **6 Seconds**
 sample interval: **2 ms**
 compression: **negative number**

POSITIONING:
 SOURCE ARRAY: **PRAKLA D**
 10 guns

Processing: **SEISCOM DELTA INC.** DATE: MARCH 1986
 CENTRE: LONDON, ENGLAND
 COMPUTER SYSTEM: **MEGASIS**

INITIAL PROCESS:
 Demultiplex to SEG Y format: **5 seconds**
 90 Hz anti alias filter
 resample to 4ms

EDIT AND AMPLITUDE RECOVERY: **9 dB/Sec. to 4 sec.**

DEPHASE:
 instrument dephase using recorded impulse response
24 FOLD

GATHER: **24 FOLD**
 START OF DATA DELAY: **-10 ms**

DECONVOLUTION BEFORE STACK:
 operator length: **240 ms**
 prediction lag: **200 - 2200ms**
 design windows near trace: **1100ms - 3100ms**
 for trace: **0 - 5000 ms**
 appl.time: **1%**
 percentage white noise: **1%**

VELOCITY ANALYSES:
 velocities from Seiscoms Velocity Spectra and variable
 velocity stacks (every 2 km)
 MUTE - first Break Move

STACK:
 type: **standard CDP**
 fold: **24**

FK VELOCITY FILTERING
 DECONVOLUTION AFTER STACK:
 deconvolution type: **predictive, Wiener**
 ZONE 1: **140 ms** ZONE 2: **300 ms**
 operator length: **40 ms** **60 ms**
 prediction lag: **0 - 1200ms** **1000-4000ms**
 design windows: **0 - 1200ms** **1000 - 5000ms**
 appl.time: **200 ms merge zone**

the above DAS parameters refer to L D85-160 SHOT 100
 design and application times for each line vary
 according to geology

SPHERICAL DIVERGENCE (correction using stack velocities)

TIME AND SPACE VARIANT FREQUENCY FILTERING
 APPLY TIMES:
 A) **50 ms** **16-60 Hz**
 B) **600 ms** **12-50 Hz**
 C) **1500 ms** **10-40 Hz**
 D) **2500 ms** **10-30 Hz**

frequencies specified at 3db attenuation
 linear interpolation between times specified
 times apply to line D85-160 sp 100

STATIC CORRECTION TO MS:
 (filter times change with geology)
+16ms to tie with previous survey
-12 +12 msec per trace

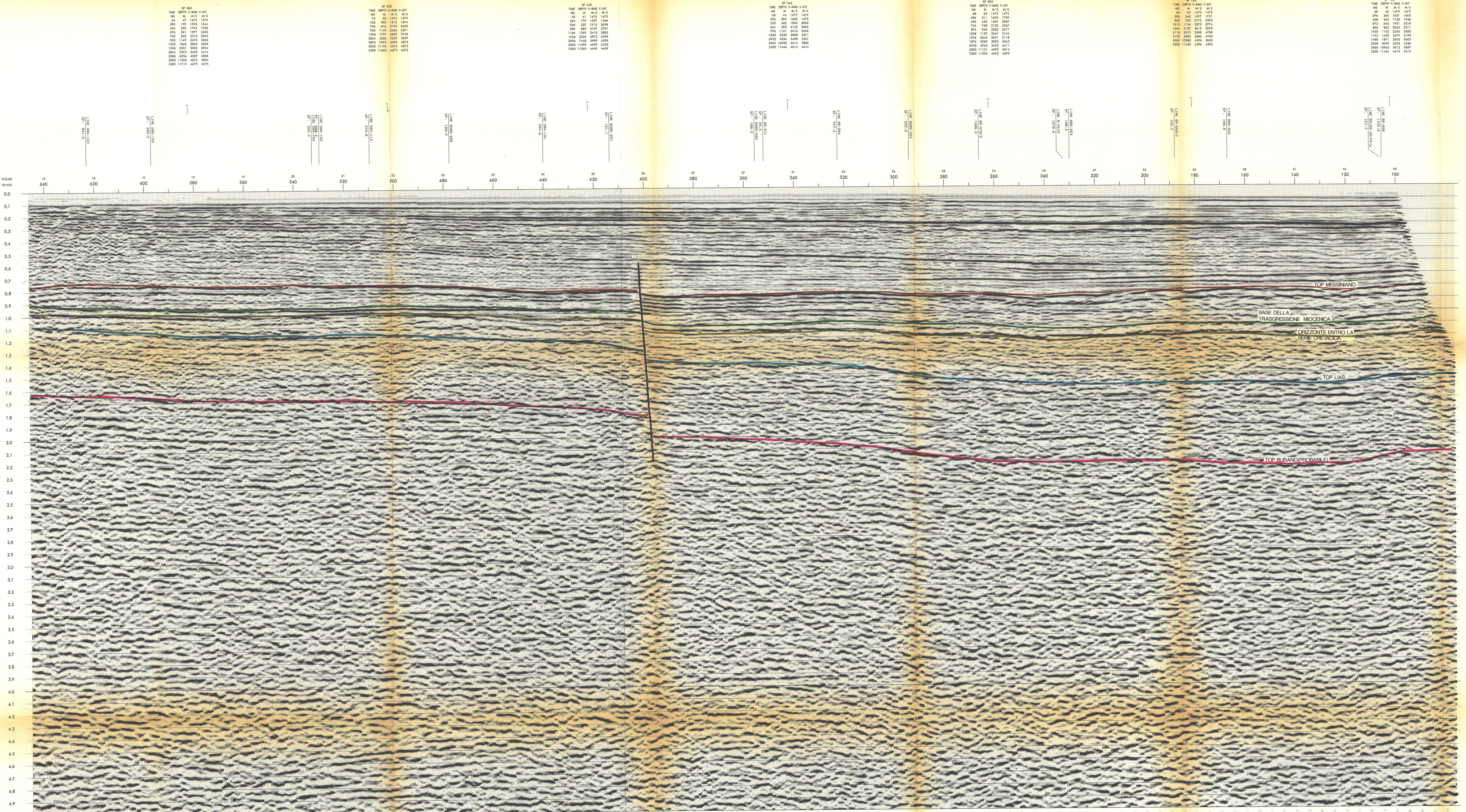
TWO DIMENSIONAL FILTER
 WEIGHTED TRACE SUM: **1:2:1**

TRACE AMPLITUDE BALANCE: **500 ms rolling window**

DISPLAY SYSTEM: **SEISCHROME II**
 type: **trace equalized**
 vertical scale: **10 cm/sec**
 horizontal scale: **(10 m/cm)**

Negative numbers on tape displayed as a white trough
 POLARITY: **SEG Normal**

CONTRACT NUMBER: **1050**
 APPROVED: *[Signature]*
 SCALE: **1:12500**



SP 582
 TIME DEPTH V-RMS V-INT
 MS M M.S M.S
 64 47 1475 1475
 80 51 1475 1475
 200 139 1595 1644
 404 335 1765 1920
 574 561 1975 2402
 760 823 2214 2843
 960 1149 2475 3262
 1332 1648 2833 3563
 1860 2297 3097 3754
 2044 2372 3400 4414
 2380 4234 4000 4368
 5000 11232 4875 5824
 5200 11718 4875 4875

SP 583
 TIME DEPTH V-RMS V-INT
 MS M M.S M.S
 64 47 1475 1475
 80 51 1475 1475
 200 139 1595 1644
 404 335 1765 1920
 574 561 1975 2402
 760 823 2214 2843
 960 1149 2475 3262
 1332 1648 2833 3563
 1860 2297 3097 3754
 2044 2372 3400 4414
 2380 4234 4000 4368
 5000 11232 4875 5824
 5200 11718 4875 4875

SP 422
 TIME DEPTH V-RMS V-INT
 MS M M.S M.S
 64 47 1475 1475
 80 51 1475 1475
 200 139 1595 1644
 404 335 1765 1920
 574 561 1975 2402
 760 823 2214 2843
 960 1149 2475 3262
 1332 1648 2833 3563
 1860 2297 3097 3754
 2044 2372 3400 4414
 2380 4234 4000 4368
 5000 11232 4875 5824
 5200 11718 4875 4875

SP 342
 TIME DEPTH V-RMS V-INT
 MS M M.S M.S
 64 47 1475 1475
 80 51 1475 1475
 200 139 1595 1644
 404 335 1765 1920
 574 561 1975 2402
 760 823 2214 2843
 960 1149 2475 3262
 1332 1648 2833 3563
 1860 2297 3097 3754
 2044 2372 3400 4414
 2380 4234 4000 4368
 5000 11232 4875 5824
 5200 11718 4875 4875

SP 262
 TIME DEPTH V-RMS V-INT
 MS M M.S M.S
 64 47 1475 1475
 80 51 1475 1475
 200 139 1595 1644
 404 335 1765 1920
 574 561 1975 2402
 760 823 2214 2843
 960 1149 2475 3262
 1332 1648 2833 3563
 1860 2297 3097 3754
 2044 2372 3400 4414
 2380 4234 4000 4368
 5000 11232 4875 5824
 5200 11718 4875 4875

SP 182
 TIME DEPTH V-RMS V-INT
 MS M M.S M.S
 64 47 1475 1475
 80 51 1475 1475
 200 139 1595 1644
 404 335 1765 1920
 574 561 1975 2402
 760 823 2214 2843
 960 1149 2475 3262
 1332 1648 2833 3563
 1860 2297 3097 3754
 2044 2372 3400 4414
 2380 4234 4000 4368
 5000 11232 4875 5824
 5200 11718 4875 4875

SP 102
 TIME DEPTH V-RMS V-INT
 MS M M.S M.S
 64 47 1475 1475
 80 51 1475 1475
 200 139 1595 1644
 404 335 1765 1920
 574 561 1975 2402
 760 823 2214 2843
 960 1149 2475 3262
 1332 1648 2833 3563
 1860 2297 3097 3754
 2044 2372 3400 4414
 2380 4234 4000 4368
 5000 11232 4875 5824
 5200 11718 4875 4875