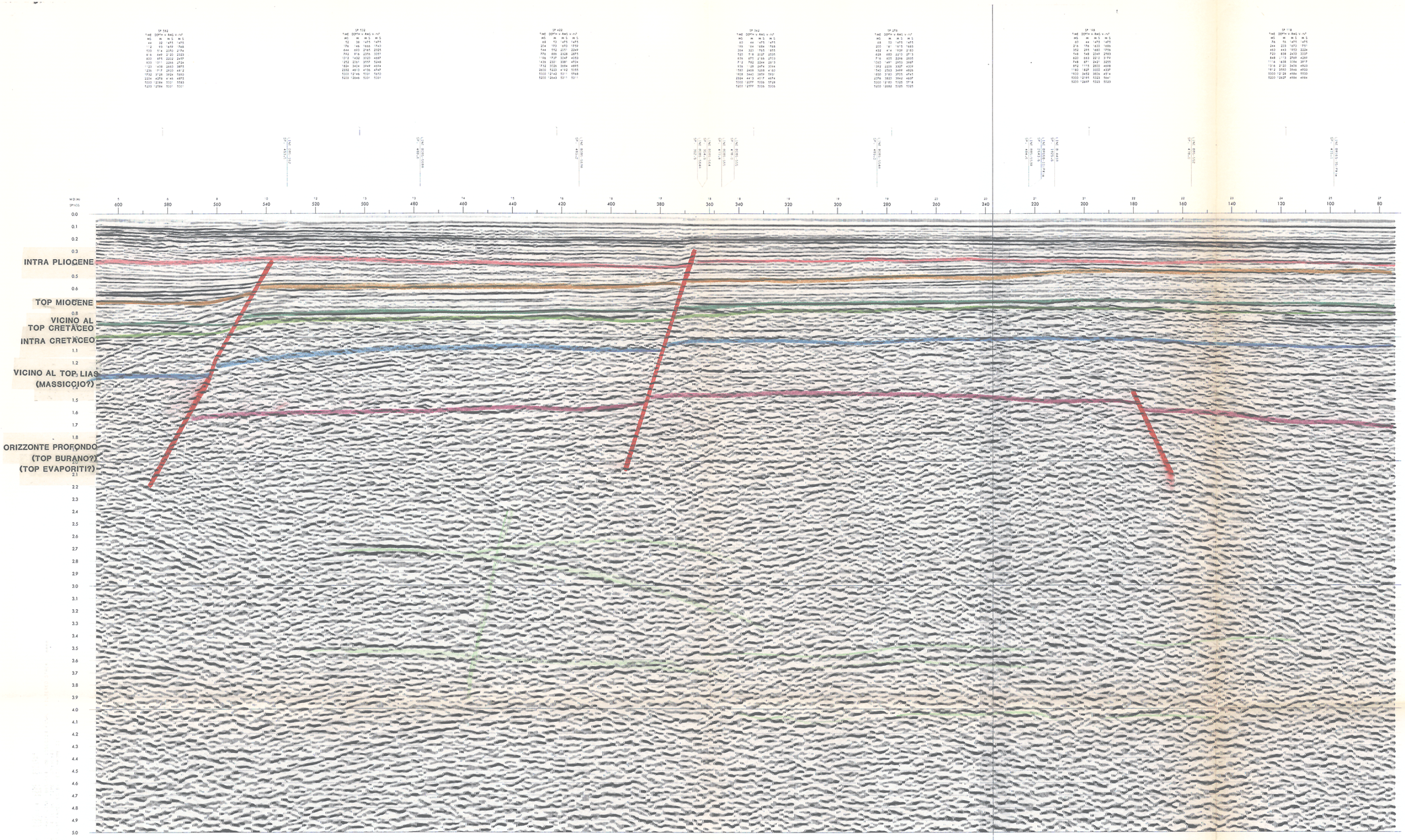

Seiscom Delta United

Client: PETREX
Area: B.R169.PX D.R68.PX
Location: Gargano Offshore Italy
Line: BD85-564
Shotpoints: 609-74
NNE
Process: FINAL FILTERED STACK

Acquisition: Prakla-Seismos

PARTY NUMBER: SV-MANTA DATE: DECEMBER 1985

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

RECEIVING ARRANGEMENT:
- fold of recording: 24 — type: C.D.P.
- 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: Multidyne md 5.
- recording system: DFS V
- filters: low cut: 12 Hz — slope 18 dB/octave
- high cut: 128 Hz — slope 70 dB/octave
- record format: SEG8 1600 B.P.I.
- record length: 6 Seconds
- sample interval: 2 ms
- compression produces: negative number

POSITIONING: TRISPONDER 540

Processing: SEISCOM DELTA INC.

CENTRE: LONDON, ENGLAND DATE: MARCH 1986
COMPUTER SYSTEM: MEGASEIS

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
GATHER: 24 FOLD
START OF DATA DELAY: -10 ms
DECONVOLUTION BEFORE STACK:
- operator length: 240 ms
- prediction lag: spike
- design windows near trace: 200 - 2200ms
- far trace: 1100 - 3100ms
- appl.time: 0 - 5000 ms
- percentage white noise: 1%

VELOCITY ANALYSES:
velocities from Seiscoms Velocity Spectra and variable velocity stacks (every 2 km)
MUTE - First Break Mute
STACK:
- type: standard CDP
- fold: 24

FK VELOCITY FILTERING
DECONVOLUTION AFTER STACK
- deconvolution type: predictive, wiener

	ZONE 1	ZONE 2
operator length	140 ms	300 ms
prediction lag	40 ms	60 ms
design windows	0 -1200ms	1000-4000ms
appl.time	0 -1200ms	1000 -5000ms

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
(filter times change with geology)
STATIC CORRECTION TO MSL: +16ms to tie with previous survey
TWO DIMENSIONAL FILTER: -12 +12 msec per trace
WEIGHTED TRACE SUM: 1:2:1
TRACE AMPLITUDE BALANCE: 500 ms rolling window
DISPLAY SYSTEM: SEISCHROME II
SHOT POINT ANNOTATION AT NCDP POSITION
- type: trace equalized
- vertical scale: 5 cm/sec.
- horizontal scale: (20 TR/CM)

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

CONTRACT NUMBER: 1050
APPROVED: