



GEOSYSTEM

Recorded by	SIAG S.p.A.
Recording date	September 1983
Recording system	DPS V
LowCut filter	12Hz-10 dB/Oct
HighCut filter	128Hz-72 dB/Oct
Notch Filter	50 Hz
Sample Rate	7000 ms
Record Length	Dynamite
Energy Source	15-40 m
Source Depth	5-20 kg
Source Charge	90 m
Average SF interval	SM4 U
Geophone Type	10 Hz
Geophone Frequency	Rectangular
Geophone Pattern	55 m
Geophone/Group	30 m
Group length	60
Group Interval	
No of channels	

PROCESSING SEQUENCE

SEG-Y INPUT
Processing trace length6000 ms
Processing sample rate4 ms

GEOMETRY AND ASSIGNMENT
CDP bin spacing 15 m

STATICS RECOMPUTATION
Method.....Dromacrone
Datum plane200 m
Replacement velocity2300 m/s

MINIMUM PHASE CORRECTION
Filter designed by instrument pulse trace

SPHERICAL DIVERGENCE CORRECTION
Using single time variant inversion decay function

BAD TRACE EDITING

BAD TRACE EDITING

ARRAY SIMULATION	
Weighted trace mix	
Number of traces	3

MINIMUM PHASE DECONVOLUTION
Type Predictive

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type ..... Predictive
Operator Length(s) ..... 160-160 ms
Prediction lag(s) ..... 16-16
White Noise level(s) ..... 1-4 %
Number of windows ..... 2

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VELOCITY ANALYSIS

Semblances, CDP's and Multy Velocity Stacks

FX DECONVOLUTION
Applied on nmo corrected common offset domain
Feedback 50%

TVF FILTER
12/24 - 60/72 Hz dB/Oct.....1000 ms

10/24 - 50/72 Hz dB/Oct.....	2000 ms
8/24 - 45/72 Hz dB/Oct.....	4000 ms

FK FILTER
Performed on shot gather
600–1500 m/s rejected

SURFACE CONSISTENT RESIDUAL STATICS

VELOCITY ANALYSIS

Semblances, GIP's and Multy Velocity Stacks

VELOCITY ANALYSIS
 Semblances, CDP's and Multy Velocity Stacks
 every 750 m

DIP SCAN STACK
Applied on nmo corrected common offset domain
Feedback 75%

DIP MOVE OUT
FK DMO on common offset gathers

FINAL VELOCITY ANALYSIS

Continuous velocity analysis

NORMAL MOVE-OUT CORRECTION
Top mute for removing stretched and refracted signals

CDP STACK

S/N ENHANCEMENT
Prediction window length 400 ms
Horizontal length 10 trs

RMS GAIN
On windows based

FD TIME MIGRATION
Velocity smoothed and scaled as follows:

1000 ms 80%
4000 ms 60%

S/N ENHANCEMENT

TVF FILTER
10-14-60-70 Hz.....1000 ms
8-10-30-38 Hz.....5000 ms

Processed by GEOSYSTEMMarch 2003
Web site.....www.geosystem.net

Thru Apr. 3 11:43:27 2003 Static Shift = -400
Traces/Centimeters = 8.3333 Centimeters/Second = 10
Bias Percent = 0 Clip Limit = 4
Gain Set = 0.63 RMS Amplitude = 1
Gain Constant = 630

