

A 4744

LINE: B95-153

SP 101 TO SP 430

NORTHEAST

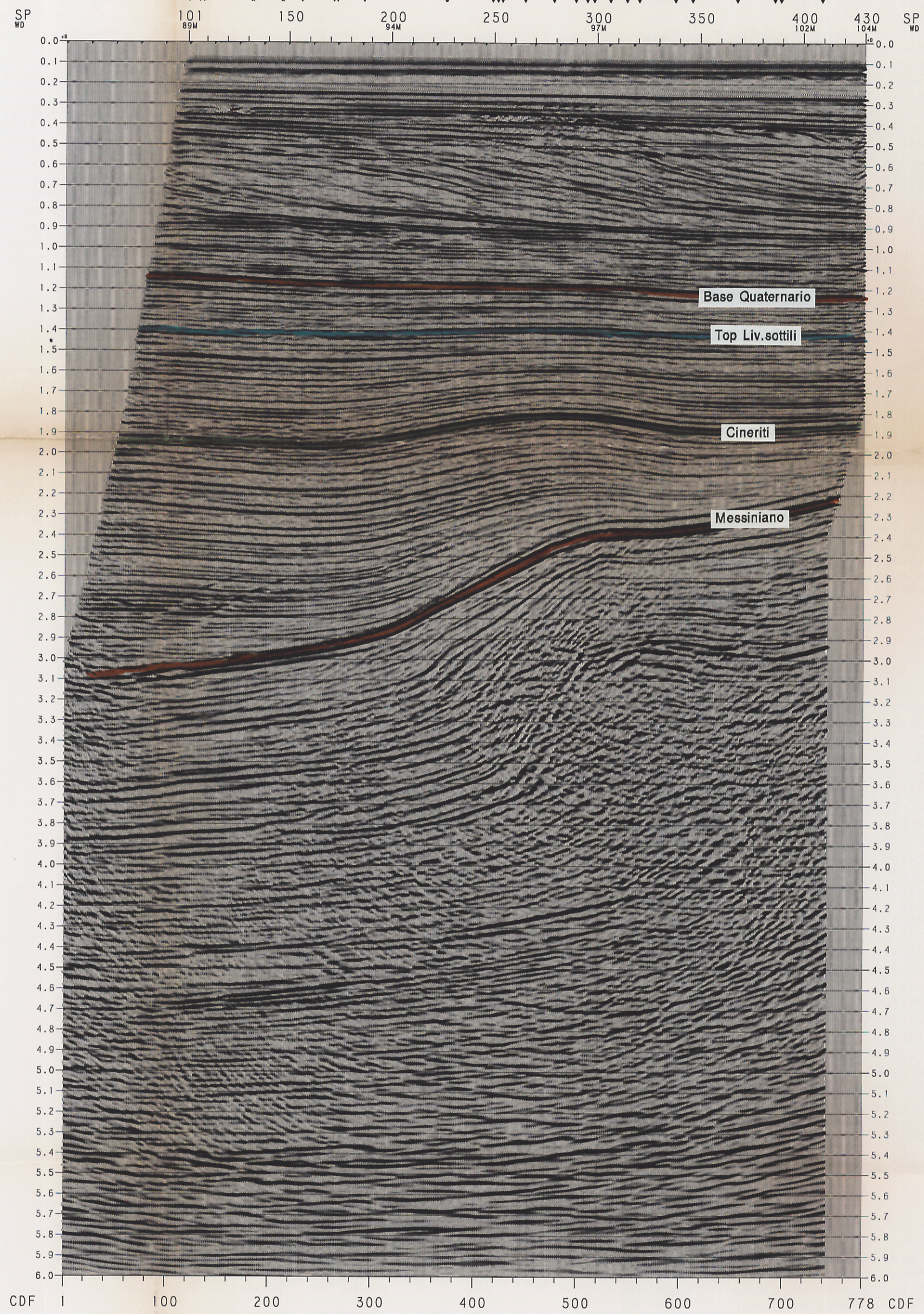
6000% ZERO PHASE TIME MIGRATION




1

LINE: B95-153
SP 101 TO SP 430
6000% ZERO PHASE TIME MIGRATION

TIME	SP	SP	SP	SP
0.00	101	150	200	250
0.05	101	150	200	250
0.10	101	150	200	250
0.15	101	150	200	250
0.20	101	150	200	250
0.25	101	150	200	250
0.30	101	150	200	250
0.35	101	150	200	250
0.40	101	150	200	250
0.45	101	150	200	250
0.50	101	150	200	250
0.55	101	150	200	250
0.60	101	150	200	250
0.65	101	150	200	250
0.70	101	150	200	250
0.75	101	150	200	250
0.80	101	150	200	250
0.85	101	150	200	250
0.90	101	150	200	250
0.95	101	150	200	250
1.00	101	150	200	250
1.05	101	150	200	250
1.10	101	150	200	250
1.15	101	150	200	250
1.20	101	150	200	250
1.25	101	150	200	250
1.30	101	150	200	250
1.35	101	150	200	250
1.40	101	150	200	250
1.45	101	150	200	250
1.50	101	150	200	250
1.55	101	150	200	250
1.60	101	150	200	250
1.65	101	150	200	250
1.70	101	150	200	250
1.75	101	150	200	250
1.80	101	150	200	250
1.85	101	150	200	250
1.90	101	150	200	250
1.95	101	150	200	250
2.00	101	150	200	250
2.05	101	150	200	250
2.10	101	150	200	250
2.15	101	150	200	250
2.20	101	150	200	250
2.25	101	150	200	250
2.30	101	150	200	250
2.35	101	150	200	250
2.40	101	150	200	250
2.45	101	150	200	250
2.50	101	150	200	250
2.55	101	150	200	250
2.60	101	150	200	250
2.65	101	150	200	250
2.70	101	150	200	250
2.75	101	150	200	250
2.80	101	150	200	250
2.85	101	150	200	250
2.90	101	150	200	250
2.95	101	150	200	250
3.00	101	150	200	250
3.05	101	150	200	250
3.10	101	150	200	250
3.15	101	150	200	250
3.20	101	150	200	250
3.25	101	150	200	250
3.30	101	150	200	250
3.35	101	150	200	250
3.40	101	150	200	250
3.45	101	150	200	250
3.50	101	150	200	250
3.55	101	150	200	250
3.60	101	150	200	250
3.65	101	150	200	250
3.70	101	150	200	250
3.75	101	150	200	250
3.80	101	150	200	250
3.85	101	150	200	250
3.90	101	150	200	250
3.95	101	150	200	250
4.00	101	150	200	250
4.05	101	150	200	250
4.10	101	150	200	250
4.15	101	150	200	250
4.20	101	150	200	250
4.25	101	150	200	250
4.30	101	150	200	250
4.35	101	150	200	250
4.40	101	150	200	250
4.45	101	150	200	250
4.50	101	150	200	250
4.55	101	150	200	250
4.60	101	150	200	250
4.65	101	150	200	250
4.70	101	150	200	250
4.75	101	150	200	250
4.80	101	150	200	250
4.85	101	150	200	250
4.90	101	150	200	250
4.95	101	150	200	250
5.00	101	150	200	250
5.05	101	150	200	250
5.10	101	150	200	250
5.15	101	150	200	250
5.20	101	150	200	250
5.25	101	150	200	250
5.30	101	150	200	250
5.35	101	150	200	250
5.40	101	150	200	250
5.45	101	150	200	250
5.50	101	150	200	250
5.55	101	150	200	250
5.60	101	150	200	250
5.65	101	150	200	250
5.70	101	150	200	250
5.75	101	150	200	250
5.80	101	150	200	250
5.85	101	150	200	250
5.90	101	150	200	250
5.95	101	150	200	250
6.00	101	150	200	250





AREA:
ADRIATIC ZONE B
BLOCK BR.248G

RECORDING DATA

W.G.C. PARTY 140
PRIMARY NAVIGATION BY: GPS SANGAS MARINE MACHINE
SECONDARY NAVIGATION BY: SEVTEK
MAP/SECTION LOCATION: C.S.P.

ENERGY SOURCE

SLEEVE AIRGUNS
GUN DEPTH: 2300 CM LWR
PRESSURE: 2000 P.S.I.
S.P. INTERVAL: 25.0
POPS PER KILOMETRE: 25.0

INSTRUMENTS

FIELD RECORDER: TITAN 1000
FILTER: L.C. (HZ,DOCT) H.C. (HZ,DOCT)
RECORD LENGTH: 6 SECS
SAMPLE INTERVAL: SEC=0.2 MS
SERIAL: SEC=0.2 MS
GUN DELAY: 0 MS

CABLE

3000M TITAN DOPS 480 OPTICAL
NO. OF GROUPS: 20
GROUP INTERVAL: 25 M
CABLE DEPTH: 8 M

ENERGY SOURCE: AIRGUN

SCALES

HORIZONTAL: 1:25,000
VERTICAL: 1:500,000
10 CM/SEC 0 CM/SEC

LEGEND

INTERSECTIONS
WATER DEPTHS
VELOCITY FUNCTION

D.C. FOR W.G.C. *[Signature]*

PROCESSING SEQUENCE

PROCESSING SAMPLE INTERVAL: 4 MS
PROCESSING RECORD LENGTH: 6000 MS

REFORMAT

CONVERT SEG-B TO W.G.C. CODE 4

RESAMPLE

RESAMPLE FROM 4 MS TO 4 MS
ANTI-ALIAS FILTER APPLIED

SIGNATURE DECONVOLUTION

DESIRED OUTPUT: MINIMUM PHASE EQUIVALENT

PREPROCESSOR

(A) 20 OFFSETS FOR 120 CHANNELS
(B) GEOMETRIC SPREADING GAIN APPLIED USING
(C) EXPONENTIAL GAIN RECOVERY: + 2 DB/SEC RAMP
APPLIED FROM 0 TO 0.5 SECONDS

LOW CUT FILTER

8/24 HZ/DOCT 1 LOW CUT FILTER

DECONVOLUTION

MINIMUM PHASE INVERSE FILTER
NUMBER OF WINDOWS: 24
MINIMUM PROJECTIVE GAIN: 300 MS
LENGTH OF ACTIVE OPERATOR: 300 MS
TRACE WINDOW 1: NEAR OFFSET 400 - 3000 MS
DESIGN WINDOW 2: FAR OFFSET 2000 - 1100 MS
TRACE WINDOW 3: NEAR OFFSET 400 - 3000 MS
DESIGN WINDOW 4: FAR OFFSET 400 - 3000 MS
TRACE BALANCE TO 2000 MS

VELOCITY ANALYSIS

EXPANDED VELOCITY ANALYSIS
AT 2 MS INTERVALS

WAD CORRECTION

WAD CORRECT CMP DATA USING
SCALED 200 MS VELOCITIES
80% OF WAD FUNCTION FROM 4 TO 6000 MS
80% OF WAD FUNCTION FROM 6000 MS

MULTIPLE ATTENUATION-WAFZ

REJECT POSITIVE AND ZERO DIPS
FILTER 100% AT 100 MS

INVERSE WAD CORRECTION

INVERSE WAD CORRECT CMP DATA USING
SCALED 200 MS VELOCITIES
80% OF WAD FUNCTION FROM 4 TO 6000 MS
80% OF WAD FUNCTION FROM 6000 MS

DIP MOVEOUT

PERFORMED USING THE RECOVERY APPROACH
AND APPLIED TO 90 OFFSET PLACES
MAXIMUM WAD 100 MS
USING 131 TRACE APERTURE
9 ANTI-ALIAS FILTER WITH 100% OPTION
USING 200 MS VELOCITIES
FOR WAD AND INVERSE WAD

VELOCITY ANALYSIS

EXPANDED VELOCITY ANALYSIS
AT 2 MS INTERVALS

8000 N.M.O. STACK

80 FOLD STACK
CMP SPACING - 12.5 M
NUMBER OF TRACES: 100
OFFSETS (MS): 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3100, 3200, 3300, 3400, 3500, 3600, 3700, 3800, 3900, 4000, 4100, 4200, 4300, 4400, 4500, 4600, 4700, 4800, 4900, 5000, 5100, 5200, 5300, 5400, 5500, 5600, 5700, 5800, 5900, 6000, 6100, 6200, 6300, 6400, 6500, 6600, 6700, 6800, 6900, 7000, 7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900, 8000

PRE-MIGRATION CONDITIONING

SCALE DOWN EDGES AND BASE OF STACK

STOLY TIME MIGRATION

15 MS/TRACE DIP LIMIT
80% OF THE MINIMUM VELOCITY FUNCTION
USED FOR DETERMINATION, DERIVED FROM THE
100% WAD AND VELOCITY FILES
SMOOTHED OVER 1 CABLE LENGTH

FINITE DIFFERENCE TIME MIGRATION

RESIDUAL VELOCITY FILE DERIVED FROM
100% WAD FUNCTION AND 100%
SMOOTHED OVER 1 CABLE LENGTH

RANDOM NOISE ATTENUATION

WINDOW LENGTH: 500 MS
WINDOW WIDTH: 50 TRACES
OPERATOR: 7 TRACES

TIME VARIATION FILTER

TIME (SECS) L.C. (HZ,DOCT) H.C.
0.004 8 / 18 70 / 72
0.005 8 / 18 70 / 72
0.006 8 / 18 60 / 64
0.008 8 / 18 60 / 64

ZERO PHASE CONVERSION

STATISTICAL ZERO PHASING OPERATOR

AMPLITUDE SCALING

500 MS INSTANTANEOUS AVG GAIN

COMMENTS

DATA DISPLAYED ON A LASERDOT PLOTTER AT
GAIN: 9 DB 1 81AS: 0 2
DATA PLANE IS SEA LEVEL
A-RUN AND CABLE CORRECTION OF 8 MS HAS
BEEN APPLIED IN THE PROCESSING
COMPRESSION PULSES RECORD AS NEGATIVE NUMBERS
ON LOG AND PLOT AT TRACES ENDICES
W.G.C. INPUT DATA: FINISH

