

LINE: PRF-01-90
CDP 73 - 916
STACK 1800%

SOUTH-WEST



Agip
GEOF

AREA : ITALIA
PERMIT : SERRAVALLE
LINE : PRF-01-90

DATE: JANUARY, 1994

RECORDING DATA

PROCESSING SEQUENCE

RECORDING PARAMETERS

CONTRACTOR..... SIAG
DATE..... APRIL 1990
SYSTEM..... SN 368
TAPE FORMAT..... SEG D
RECORD LENGTH..... 6000 MS
FILTER L.C..... 8 HZ 18 DB/OCT
H.C..... 178 HZ 72 DB/OCT
NOTCH..... OUT
SAMPLING INTERVAL..... 2 MSEC
COVERAGE..... 18 FOLD

SOURCE

ENERGY SOURCE..... DYNAMITE
N. OF HOLES..... 1
AVERAGE DEPTH..... 27 M
AVERAGE CHARGE..... 5 KG
S.P. INTERVAL..... 100 M

SPREAD

TYPE..... SPLIT
SPREAD CONF. 1812.5-37.5-0-37.5-1812.5 M
N. OF GROUPS..... 144
GEOPHONES PER GROUP..... 24 IN PARALLEL
GEOPHONE TYPE..... SM4-10 HZ
GROUP INTERVAL..... 25 M

SPREAD DIAGRAM

1 72 SP 73 144
← 1775 M → 37.5 ← 1775 M →

GEOPHONE PATTERN

← 55 M →

SCALES

HORIZONTAL 1 : 12500
VERTICAL 1 SEC = 10 CM
0 0.5
KILOMETER

LEGEND

INTERSECTIONS
VELOCITY ANALYSIS

COMMENTS

POLARITY CONVENTION
RECORDING : COMPRESSION PULSE NEGATIVE NUMBER
PROCESSING : COMPRESSION PULSE NEGATIVE NUMBER
DISPLAY : COMPRESSION PULSE TROUGH

DATUM PLANE : 200 M

PROCESSED BY: P. MARCHETTI-M. PASTORI
CONTROLLED BY: A. CASSIS

CODE-4 CONVERSION

-SEG D TO CODE4 CONVERSION

RESAMPLING

-TIME SAMPLING TO 4 MS

GEOMETRY AND FIELD STATICS UPDATE

-SKEW CORRECTION
-CROOKED PROFILE ADJUSTMENT
-CDP DATUM CORRECTION COMPUTATION

BAD TRACES EDITING

AMPLITUDE DECAY RECOVERY

-STATISTICALLY COMPUTED FUNCTION
APPLIED TO RECOVER THE OVERALL
ENERGY LOSSES

PHASE SHAPING

-INSTRUMENT AND GEOPHONE RESPONSES
CONVERTED TO MINIMUM PHASE

PREFILTER

0.0 S 12/24 - 80/72 HZ-DB/OCT
2.5 S 8/24 - 80/72 HZ-DB/OCT
4.0 S 8/24 - 45/72 HZ-DB/OCT

ARRAY SIMULATION

-WND 0.0-6.0 S 0.150/0.700/0.150
3 TR

DECONVOLUTION

-TYPE: PREDICTIVE MIN. PHASE INV. FILTER
WND 0.2-2.2 S OP 16-160 MS WN 12
WND 2.4-4.4 S OP 16-160 MS WN 12
WND 4.2-6.0 S OP 16-160 MS WN 12
-TRACES BALANCE TO RMS 2000

COMM. OFFSET MULTICHANNEL FILTER

-W/X DECONVOLUTION (RNA) APPLIED ON
72 NMO CORRECTED COMMON OFFSET PLANES
-50% FEEDBACK

SURFACE CONSISTENT RESIDUAL STATICS

-MAX. CORRELATION SHIFT..... +/-36 MS
-CORRELATION WINDOW..... 1000-3000 MS
-HEADER UPDATE

COMM. OFFSET MULTICHANNEL FILTER

-RADIAL PREDICTIVE FILTER (RPF)
APPLIED ON 72 NMO CORRECTED
COMMON OFFSET PLANES
29 TRACES DIP -9/49 MS/TR
70% FEEDBACK
-FIELD STATICS APPLIED BEFORE AND
REMOVED AFTER FILTERING

VELOCITY ANALYSIS

-PERFORMED ON DMO CORRECTED CDP GATHER
WITH VARIABLE PARAMETERS BY
INTERACTIVE WORK-STATION
VEL. INCREMENT..... 100 M/S
VEL. RANGE..... 2200-5000 M/S
CORR. GATE..... 24 MS
CDP'S USED..... 5
MUTE APPLIED BEFORE ANALYSIS

DMO / STACK 1800%

-CDP ORDERED DATA NMO CORRECTED
WITH FINAL VELOCITIES
MUTE APPLIED TO REMOVE STRETCHED DATA
AND REFRACTED SIGNALS
MAXIMUM OPERATOR APERTURE..... 51 TR
-MAXIMUM DIP..... 90 DEG

ZERO PHASE CONVERSION

-OPERATOR STATISTICALLY COMPUTED ON
ONE WINDOW

SPECTRAL WHITENING

-TYPE: FREQUENCY DOMAIN
WND 0.0-6.0 S BW 12-40 HZ WN 12

MULTICHANNEL FILTER

-W/X DECONVOLUTION (RNA)
WND SIZE..... 400 MS X 30 TR
OPERATOR WIDTH..... 7 TR
FEEDBACK..... 50 %

MULTICHANNEL FILTER

-RADIAL PREDICTIVE FILTER (RPF)
29 TRACES
-0.8 SEC DIP -9/49 MS/TR FEEDBACK 65%
3.0 SEC DIP -9/49 MS/TR FEEDBACK 65%
5.0 SEC DIP -9/49 MS/TR FEEDBACK 50%

TIME VARIANT FILTER

0.0 S 12/24 - 50/72 HZ-DB/OCT
1.0 S 11/24 - 45/72 HZ-DB/OCT
2.0 S 11/24 - 40/72 HZ-DB/OCT
4.0 S 7/24 - 35/48 HZ-DB/OCT

DATUM CORRECTION RECOMPUTATION

-SUBWEATHERING VELOCITY 2300M/SEC
-DATUM PLANE 200 M

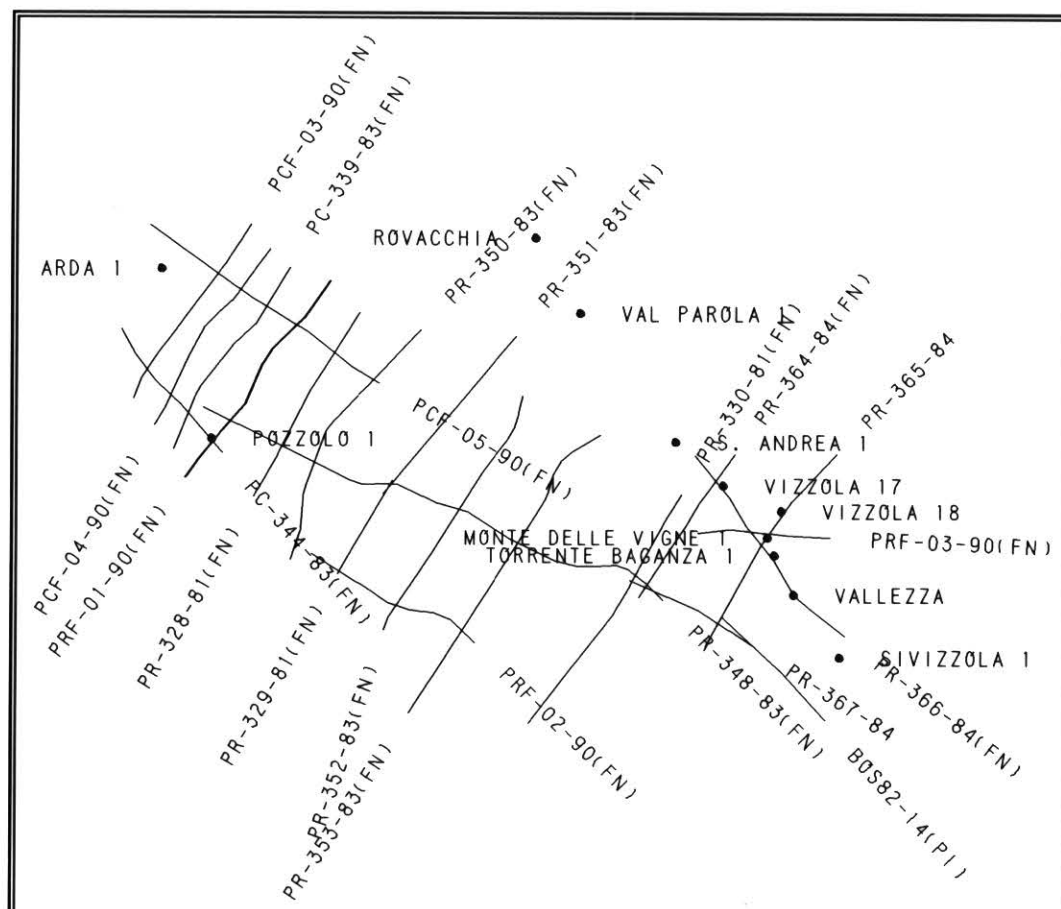
PLAYBACK

-OUTPUT RMS LEVEL..... 2000
-GAIN WINDOWS..... 256-1024 MS
-CONSTANT GAIN FACTOR..... 10 DB
-PERCENT OF DEVIATION OF BASE LINE 02
-PRESENTATION..... VASO
-PLOTTER..... LASER-DOT

STORED REELS

-STACK RAW MIN. PH. (WGC CDD4)..... 615754
-FINAL STACK (SEG1)..... 615752 (LBIN13)
615753 (LBIN08)
-FINAL MIGRATION (SEG1) 615752 (LBIN08)
615753

LOCATION MAP



ELS107.CAPS.SERRA.PRF01.STKGA1N

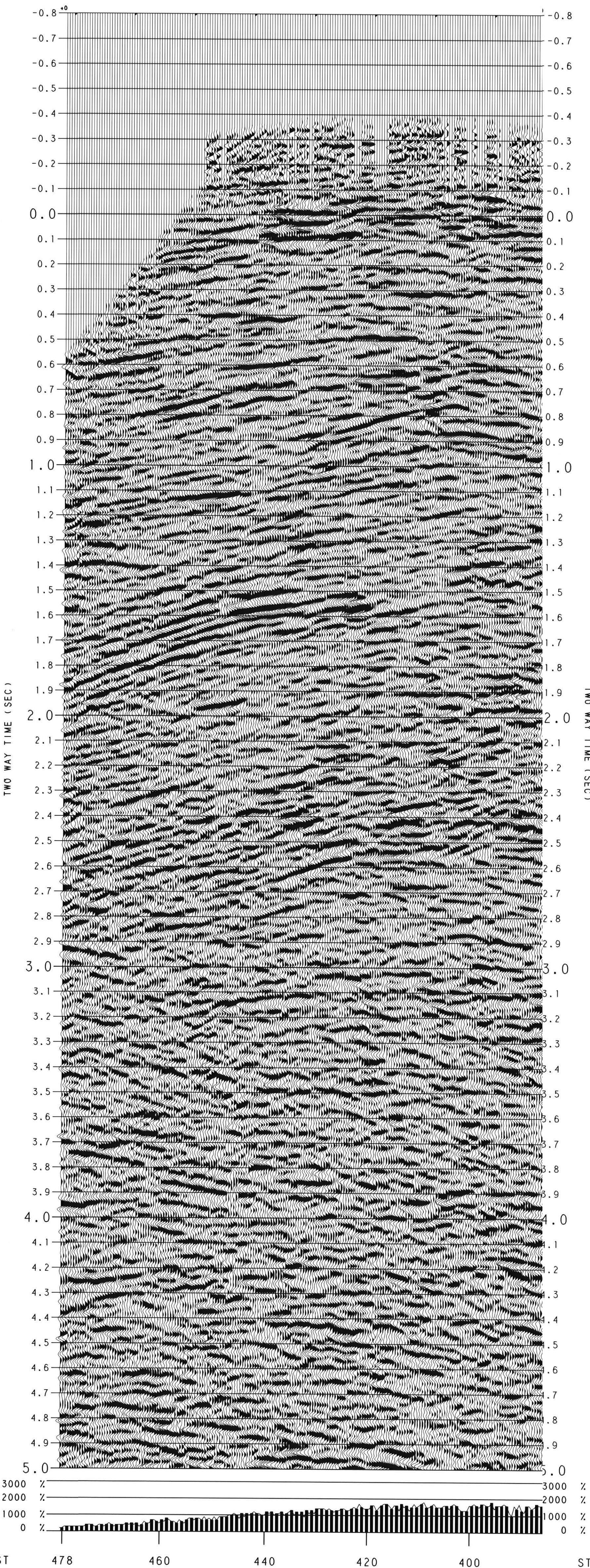
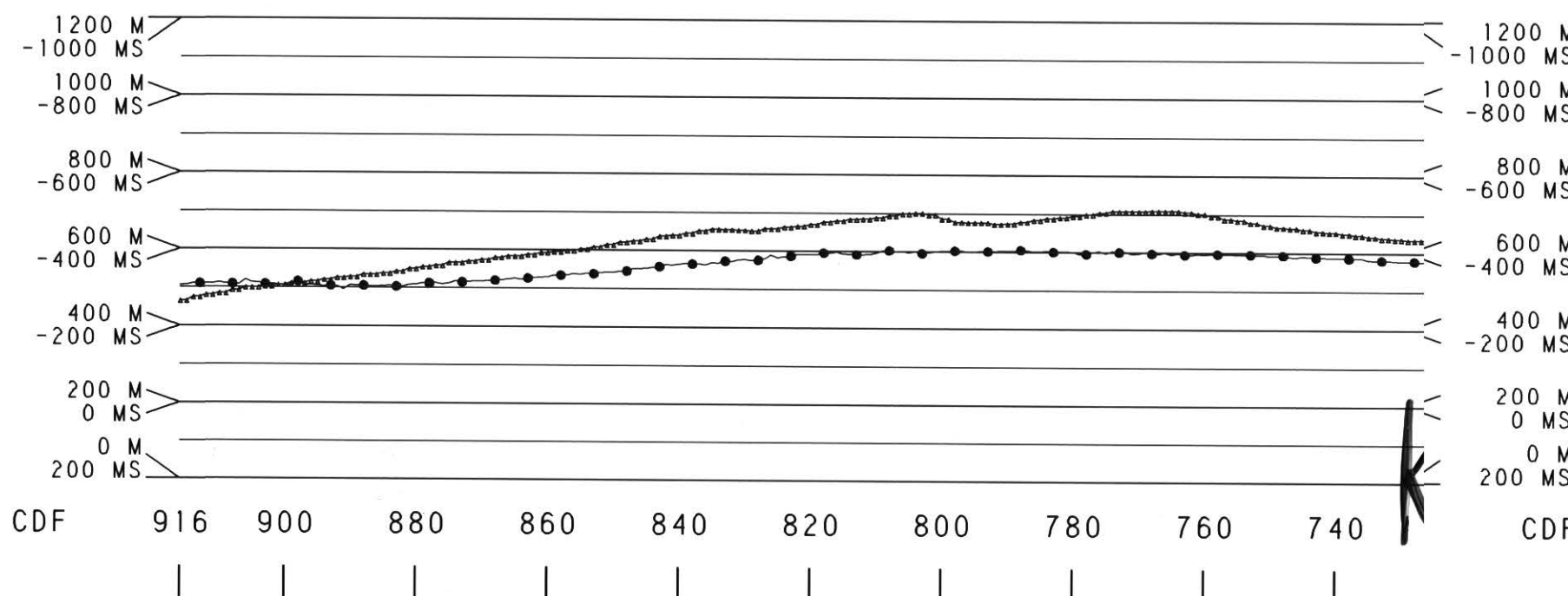
TIME	ST	RMS	VEL
0.05	2425		
0.22	2525		
0.38	2575		
0.53	2600		
1.10	2800		
1.46	3000		
2.90	3500		
3.99	3747		
6.00	5000		

PC-344-83 (430)

ST 428

END OF LINE

F LINE



ST 478 460 440 420 400 ST