

LINE: PRF-01-90
CDP 73 - 916
TIME MIGRATION

TIME (S)	RMS VEL
0.05	2425
0.22	2525
0.58	2575
0.53	2800
1.10	2800
1.46	3000
2.90	3500
3.99	3747
6.00	5000

PC-344-83 (430)

ST 428

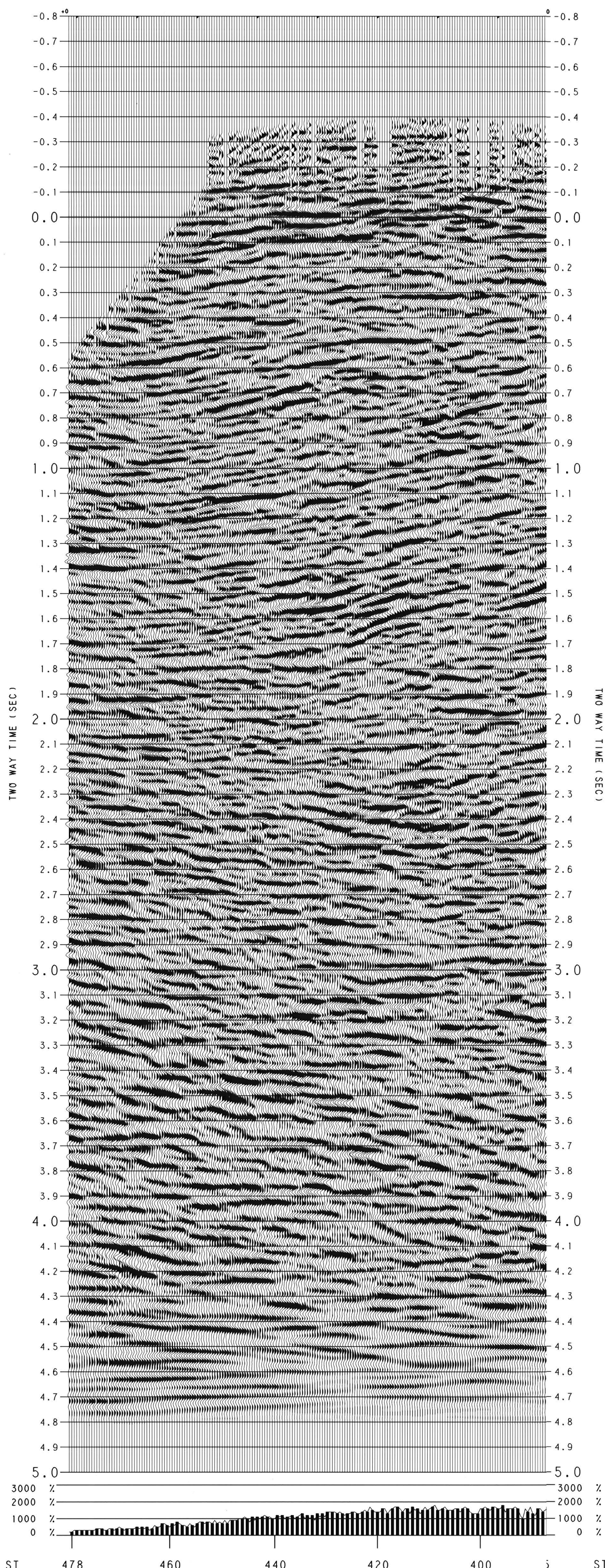
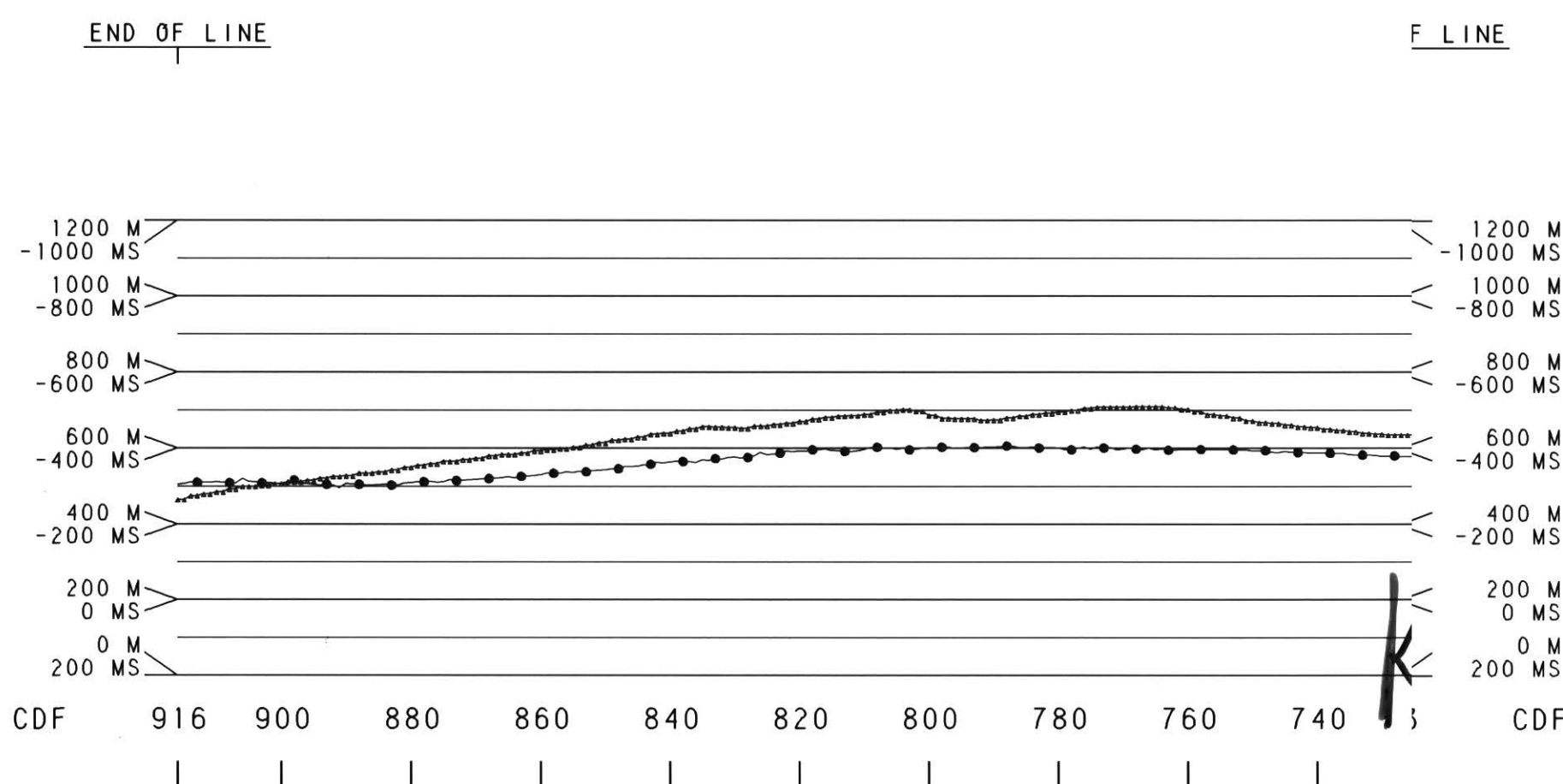
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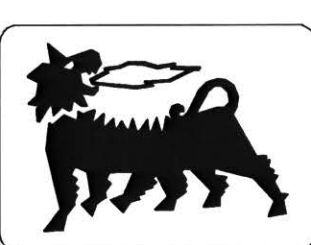
LINE: PRF-01-90

CDP 73 - 916

TIME MIGRATION

SOUTH-WEST





Agip

GEOF

AREA : ITALIA

PERMIT : SERRAVALLE

LINE : PRF-01-90

DATE: JANUARY, 1994

RECORDING DATA

RECORDING PARAMETERS

CONTRACTOR..... SIAG

DATE..... APRIL 1990

SYSTEM..... SN 368

TAPE FORMAT..... SEG D

RECORD LENGTH..... 6000 MS

FILTER L.C..... 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

72 SP 73 144

1775 M 37.5 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

PROCESSING SEQUENCE

CODE-4 CONVERSION

SEG-D TO CODE-4 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

WIND 0.0-6.0 S 0.150/0.700/0.150

5 TR

DECONVOLUTION

TYPE: PREDICTIVE WIND PHASE INV. FILTER

WIND 0.2-2.2 S OP 16-160 MS WN 12

WIND 2.0-4.4 S OP 16-160 MS WN 12

WIND 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 WND 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 WND 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. GATES..... 24 MS

 CDP'S USED..... BEFORE ANALYSIS | 5 || MUTE APPLIED | BEFORE ANALYSIS | 5 |

DMO / STACK 1800%

CDP ORDERED DATA WND 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

WINDOW..... 500-5000 MS

SPECTRAL WHITENING

TYPE: FREQUENCY DOMAIN

WIND 0.0-6.0 S BW 12-40 HZ WN 1%

MULTICHANNEL FILTER

W/X DECONVOLUTION (RNA)

WIND SIZE..... 400 MS X 30 TR

OPERATOR WIDTH..... 7 TR

FEEDBACK..... 50 %

TIME MIGRATION

FINITE DIFFERENCE (IMPLICIT) ALGORITHM

CASCADE

USING SMOOTHED STACKING VELOCITY FIELD

MULTICHANNEL FILTER

RADIAL PREDICTIVE FILTER (RPF)

29 TRACES

0.0 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 11/24 - 80/72 HZ-DB/OCT

1.0 S 11/24 - 45/72 HZ-DB/OCT

2.5 S 11/24 - 40/72 HZ-DB/OCT

4.5 S 7/24 - 35/48 HZ-DB/OCT

DATUM CORRECTION RECOMPUTATION

SUBWEATHERING VELOCITY 2500M/SEC

DATUM PLANE 200 M

PLAYBACK

OUTPUT RMS LEVEL..... 2000

GAIN WINDOWS..... 256-1024 MS

COSTANT GAIN FACTOR..... 10 DB

PERCENT OF DEVIATION OF BASE LINE 0%

PRESENTATION..... VAX/50

PLOTTER..... LASER-DOT

STORED REELS

STACK RAW WIN.PR. (WCC CDD4)..... 615754

(LBIN13)

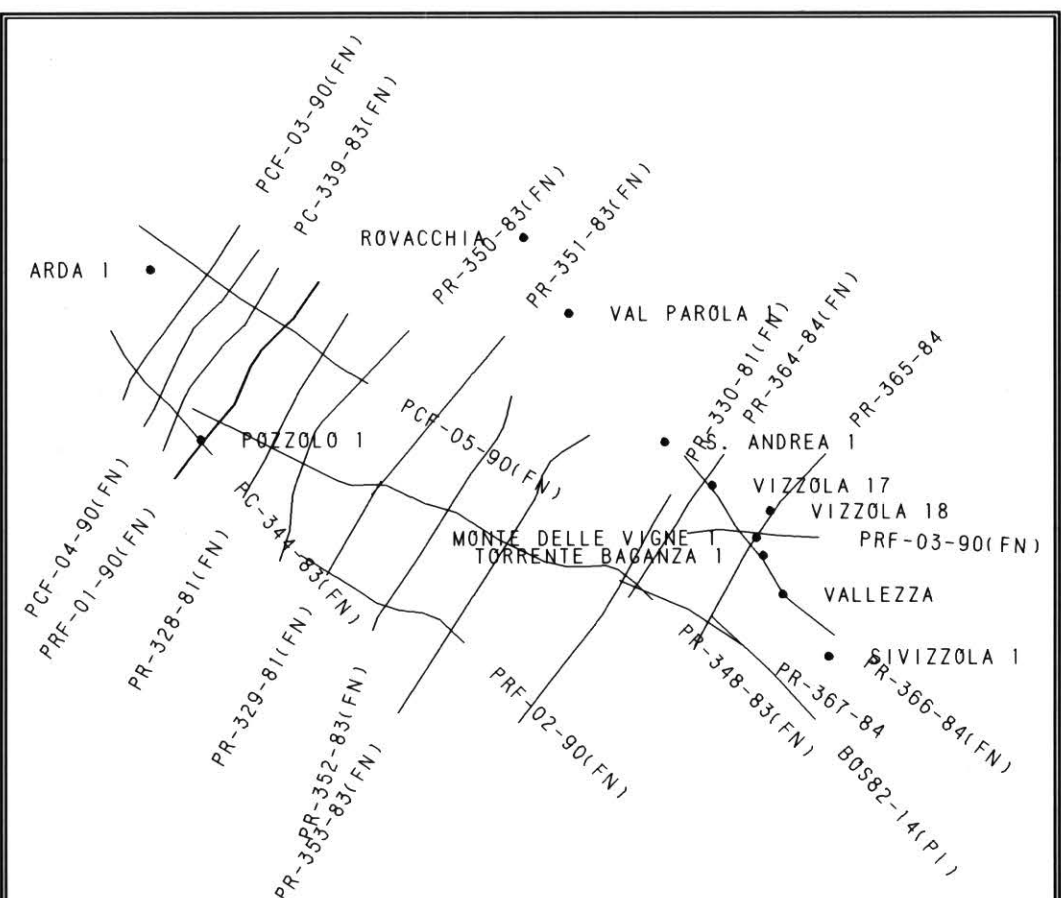
FINAL STACK (SEG)..... 615752(LBIN07)

615753

FINAL MIGRATION (SEG)..... 615752(LBIN08)

615753

LOCATION MAP



ELSI07.CAPS.SERRA.PR01.MIGGAIN