

A 4308



LINE: B91-221

SP 100 TO SP 450

NORTHEAST

All. 5 Data MAGGIO 92 N° Dia.

6000% FILTERED MIGRATION

# Petrex

AREA: ADRIATIC SEA - B.R190.SE

**WESTERN GEOFISICAL**

W.G.C. CONTRACT A47  
 DATE SHOT: JUNE 1991  
 PROCESSED IN LONDON DIGITAL CENTRE DECEMBER 1991

**RECORDING DATA**

WESTERN ARCTIC W.G.C. PARTY 103  
 PRIMARY NAVIGATION BY SYLEDIS  
 SECONDARY NAVIGATION BY SATNAV  
 MAP/SECTION LOCATION COP

**ENERGY SOURCE**

VOLUME 1500 CU INS.  
 PRESSURE 2000 P.S.I.  
 GUN DEPTH 5 M  
 NO. OF GUNS 12  
 MAXIMUM GUN WIDTH 20 M  
 S.P. INTERVAL 26.96 M  
 POPS PER KILOMETRE 37.5

**INSTRUMENTS**

FIELD RECORDER LRS 16A  
 RECORD LENGTH 7 SECS  
 RAW DATA

NOT RECORDED

**ARRAY DATA**

ARRAY DATA: L.C. 6/18 (HZ, DB/OCT) H.C. 188/72  
 SAMPLE INTERVAL 2 MS  
 FORMAT DEMULTIPLIED, SEG 0, 6250 B.P. 1  
 NUMBER OF ARRAY GROUPS OUTPUT 240  
 OFFSET TO ARRAY GROUP 1 102 M  
 ARRAY GROUP INTERVAL 13.55 M  
 ARRAY GROUP LENGTH 13.55 M

**CABLE**

3200M STREAMER 240  
 NO. OF GROUPS 13.55 M  
 GROUP LENGTH 13.55 M  
 CABLE DEPTH 7 M

98.4 M 102 M 3186.67 M 240

ENERGY SOURCE: A. K. V. IN

**PROCESSING SEQUENCE**

ARRAY DATA PROCESSED

PROCESSING SAMPLE INTERVAL 4 MS  
 PROCESSING RECORD LENGTH 5000 MS

SEG-D TO CODE 4 COPY

SUBSAMPLE TO 4 MS

ARRAY SIMULATION

DIFFERENTIAL N.M.O. APPLIED  
 240 TRACES INPUT, 120 TRACES OUTPUT

PREPROCESSOR D.B.S.

COMMON DEPTH FAMILY GATHER  
 GEOMETRIC SPREADING GAIN APPLIED  
 ZERO PHASE PREFILTER  
 GUN AND INSTRUMENT PHASE COMPENSATION FILTER  
 DECONVOLUTION  
 TYPE: MINIMUM PHASE INVERSE FILTER  
 WINDOW LENGTH 1 X 3500 MS  
 MINIMUM PREDICTIVE LAG 20 MS  
 MAXIMUM PREDICTIVE DISTANCE 240 MS  
 0.1% WHITE NOISE  
 1% TRACE BALANCE ON OUTPUT

D.M.O. VELOCITY ANALYSIS

CVS VELOCITY  
 AVERAGE INTERVAL 1.5 KMS  
 INTERPOLATED VELOCITIES

6000% D.M.O. STACK

FAR TRACE MUTE  
 NEAR TRACE MUTE

D.A.S.

DECONVOLUTION APPLIED IN THE F/K DOMAIN  
 TYPE: MINIMUM PHASE INVERSE FILTER  
 WINDOW LENGTH 1 X 3500 MS  
 MINIMUM PREDICTIVE LAG 20 MS  
 MAXIMUM PREDICTIVE DISTANCE 240 MS  
 0.1% WHITE NOISE

ZERO PHASE CONVERSION

RANDOM NOISE ATTENUATION

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

MODIFIED RESIDUAL MIGRATION

FIRST PASS  
 CASCADED STOLT MIGRATION  
 USING MINIMUM VELOCITY FUNCTION

SECOND PASS  
 FINITE DIFFERENCE MIGRATION  
 USING MODIFIED RESIDUAL VELOCITY FUNCTION

RANDOM NOISE ATTENUATION

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

TIME VARIANT FILTER

TIME (SECS) L.C. (HZ, DB/OCT) H.C.

0.004 10 / 48 85 / 60  
 2.400 8 / 48 70 / 60  
 1.400 8 / 48 50 / 60  
 5.000 8 / 48 40 / 60

FILTERS ARE INTERPOLATED IN TIME AND SPACE  
 TIMES SPECIFIED APPLY AT START OF LINE

KAGO

CASCADED GAIN APPLIED  
 WINDOW SIZE 128 X 256 MS  
 RATE OF INCREASE OF WINDOW 50%

**SCALES**

HORIZONTAL 1:25,000  
 VERTICAL 10 CMS/SEC

0 1 KILOMETRE

**LEGEND**

INTERSECTIONS  
 WATER DEPTHS  
 VELOCITY FUNCTION

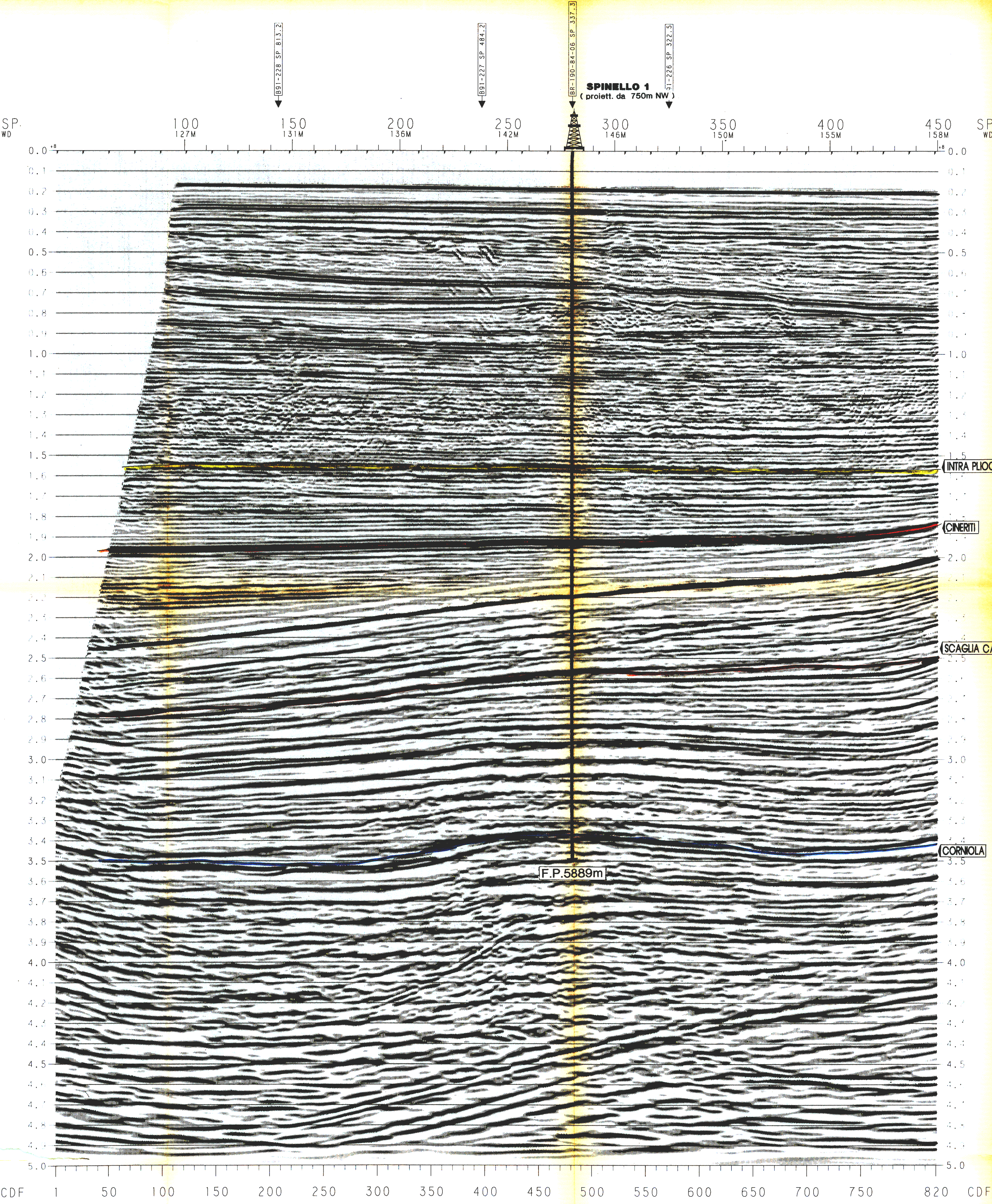
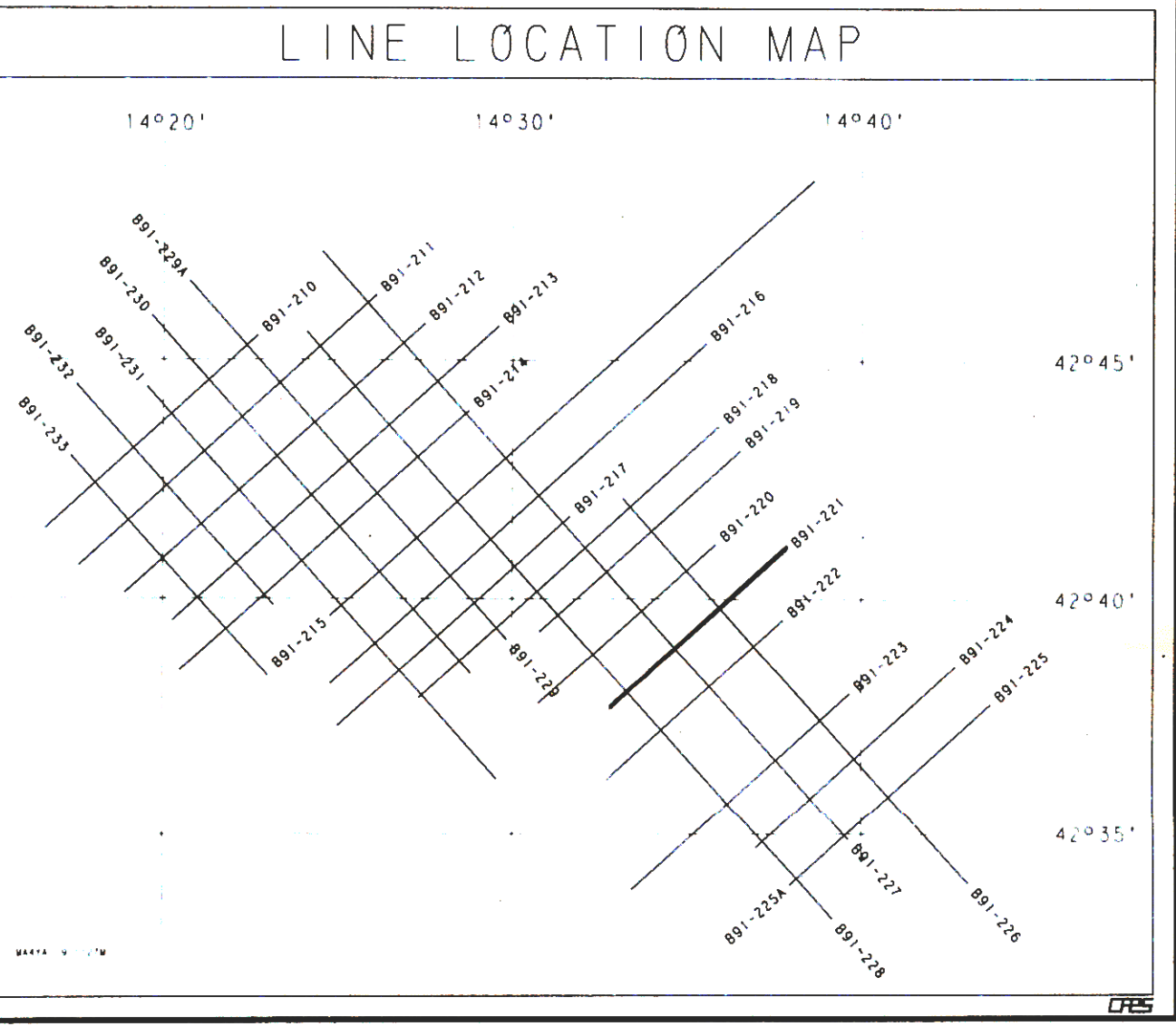
O.C. FOR W.G.C.

**COMMENTS**

DATA DISPLAYED ON A GEOPHYSICAL LASER PLOTTER AT GAIN: 9 DB - BIAS: 0.2

DATUM PLANE 15 SEA LEVEL  
 A GUN AND CABLE CORRECTION OF 8 MS HAS BEEN APPLIED IN THE FINAL DISPLAY.  
 COMPRESSION PULSES RECORD AS NEGATIVE NUMBERS ON TAPE AND PLOT AS TROUGHS (WHITE) ON PLAYBACK.

W.G.C. INPUT DATASET: MIGFIN



CDF 1 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 820 CDF