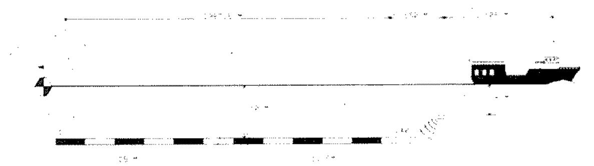
AGIP
CENTRAL ADRIATIC

BLOCK : B. R196.AG
LINE B87-657
S.P. 100 TO 509
FILTERED MIGRATION

GEOSOURCE

PETTY RAY LONDON DATA PROCESSING CENTRE

RECORDING PARAMETERS		RECORDING GEOMETRY	
SHOT BY	PRAKLA-SEISMOS AG	DIRECTION	255 DEG.
VESSEL	SV MINTROP	SOURCE DEPTH	6 METRES
DATE SHOT	NOVEMBER 1987	SHOT INTERVAL	25 METRES
SOURCE	AIRGUN ARRAY (TYPE D 46/75/06)	CABLE DEPTH	10 METRES
SOURCE VOLUME	2780 CU.INCHES : NO. OF GUNS 32	GROUP INTERVAL	12.5 METRES
INSTRUMENT	SYNTRAK 480	GROUP LENGTH	25 METRES
TAPE FORMAT	SEG D (DMUX) 8015 6250 B.P.I.	CABLE LENGTH	3000 METRES
DATA CHANNELS	240	ANTENNA - SOURCE	105 METRES
SAMPLE RATE	4 MILLISECONDS	SOURCE CENTRE NR GP	150 METRES
DATA LENGTH	6 SECONDS	CENTRE NR GP-FAR GP	2988 METRES
FILTERS LOWCUT	8.0 HZ. 18DB/OCT	PROCESSING CDP INTERVAL	12.5 METRES
HIGHCUT	95.0 HZ. 72DB/OCT	NAVIGATION PRIMARY :	SYLEDIS
DATA DELAY	31 + 10 MS	SECONDARY :	SATNAV
GAIN CONSTANT	12DB		



PROCESSING SEQUENCE

1. FORMAT CONVERSION : OUTPUT IN SEGY.IBM 32 BIT FLOATING POINT FORMAT. 5 SEC. OF DATA OUTPUT FOR SUBSEQUENT PROCESSING.
2. GAIN RECOVERY USING THE FOLLOWING SYNTHETIC GAIN CURVE:

   GAIN(DB) = 5.0 X T + 1.5 X 20LOG(10)T + 42
   GAIN HELD CONSTANT FROM 4.5 SEC.

3. T.V. ARRAY SIMULATION (240 TRACE) K FILTER DESIGNED AS SPATIAL ANTI-ALIAS FILTER USING CHEBYSHEV WEIGHTS.

WINDOWS	MIX	WEIGHTS
0.0 - 1.0 SEC	5 TRACE	26.69.100
1.0 - 2.5 SEC	9 TRACE	15.34.62.86.100
2.5 - 5.0 SEC	11 TRACE	11.26.49.71.90.100

4. DROP ALTERNATE TRACES.OUTPUT 120 TRACE RECORDS.
5. 60 FOLD COMMON DEPTH-POINT SORT (-41 MSEC S.D.D.).
6. TIME DOMAIN DECONVOLUTION USING TWO 160 MSEC OPERATORS WITH A 20 MSEC PREDICTIVE LAG. (0.5% WHITE NOISE ADDED).

			TRACE 120	TRACE 1
OPERATOR 1.	WINDOW	START	200	2500
		END	1800	4000
OPERATOR 2.	WINDOW	START	1000	3000
		END	2800	4500

7. VELOCITY ANALYSIS USING GEOSOURCE 'PREVAIL' TYPE VELOCITY DISPLAY. ANALYSES LOCATED AT INDICATED POINTS ON FILM HEADER.
8. APPLICATION OF NORMAL MOVEOUT WITH VELOCITIES INTERPOLATED BETWEEN SPECIFIED FUNCTIONS.

   A) PROFILE SHOWS STACKING VELOCITIES.
   B) APPLICATION OF MUTES (SEE MUTE BOX FOR VALUES).
   C) APPLICATION OF 12 MSEC. GUN AND CABLE STATIC.

9. 60 FOLD COMMON DEPTH POINT STACK
10. TIME DOMAIN DECONVOLUTION USING TWO 200 MSEC OPERATORS WITH A 12 MSEC PREDICTIVE LAG. (0.5% WHITE NOISE ADDED).

    OPERATOR 1. WINDOW START 100 END 2000
    OPERATOR 2. WINDOW START 1500 END 3000

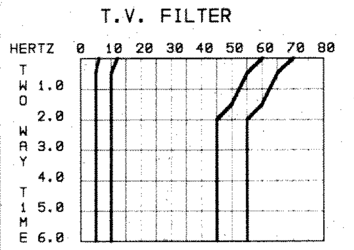
11. K DOMAIN ANTI-ALIAS FILTER.
12. PRE-MIGRATION FILTER AND EQUALISATION.
13. KIRCHOFF MIGRATION USING REDUCED STACKING VELOCITIES
14. TIME VARIANT BANDPASS FILTER.

MSEC	-34DB	0DB	0DB	-34DB
0	6HZ	12HZ	60HZ	75HZ
500	5HZ	10HZ	55HZ	65HZ
1500	5HZ	10HZ	50HZ	60HZ
2000	5HZ	10HZ	45HZ	55HZ

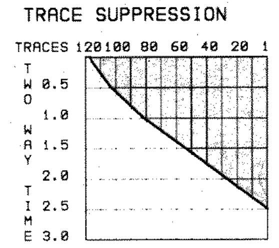
15. TRACE EQUALISATION USING 500 MSEC ROBUST AGC
16. LASERDOT DISPLAY:

    SP.S ANNOTATED AT CDP POSITION.
    HORIZONTAL SCALE 10 TR/CM (1:12.500) 20 TR/CM (1:25.000)
    VERTICAL SCALE 10 CM/SEC (1:12.500) 5 CM/SEC (1:25.000)
    FILMING GAIN : 3DB.
    RECORDING POLARITY : COMPRESSION EQUALS NEGATIVE NUMBER
    DISPLAY POLARITY : COMPRESSION EQUALS WHITE TROUGH
    DATA PROCESSED : APRIL 1988

T.V. FILTER



TRACE SUPPRESSION



PERMIT B.R196.AG

SECTION SCALE

0 KILOMETRES 1

CHECKED S.H. 6/5/88
APPROVED RG 6.7.88

AGIP ADRIATIC
LINE B87-657 S.P. 100-509
SCALE 1: 25000

Allegato	Data	Dis. n.
3	SETT. 88	2572

MARCA DA BOLLO LIRE 500

N.EAST

FILTERED MIGRATION
DIRECTION OF SHOOTING

VELOCITY FUNCTIONS

CDP 790 SP 435

TIME	VEL.	INT.
0	1450	
80	1450	1450
100	1500	1685
180	1600	1717
460	1850	1994
685	2000	2276
1100	2525	3209
1645	3100	4017
2600	3925	5039
5000	4750	5506

CDP 680 SP 380

TIME	VEL.	INT.
0	1450	
80	1450	1450
100	1500	1539
500	1850	2020
940	2100	2352
1040	2300	3683
1200	2500	3534
1430	3100	5210
1900	3640	4932
2785	4410	5723
5000	4750	5146

CDP 520 SP 300

TIME	VEL.	INT.
0	1450	
80	1450	1450
125	1550	1713
240	1750	1944
520	1975	2149
700	2225	2826
1100	2550	3036
1400	2950	4095
2080	3550	4542
3365	4600	5917
5000	4750	5045

CDP 340 SP 210

TIME	VEL.	INT.
0	1450	
80	1450	1450
100	1500	1685
185	1550	1607
400	1700	1819
640	1900	2193
860	2100	2596
1225	2500	3254
2025	3675	4961
3325	4500	5546
5000	4750	5211

CDP 180 SP 130

TIME	VEL.	INT.
0	1450	
100	1450	1450
120	1550	1975
400	1700	1760
680	1875	2100
1190	2200	2570
1690	2700	3622
2250	3250	4521
2520	3300	3690
5000	4750	5867

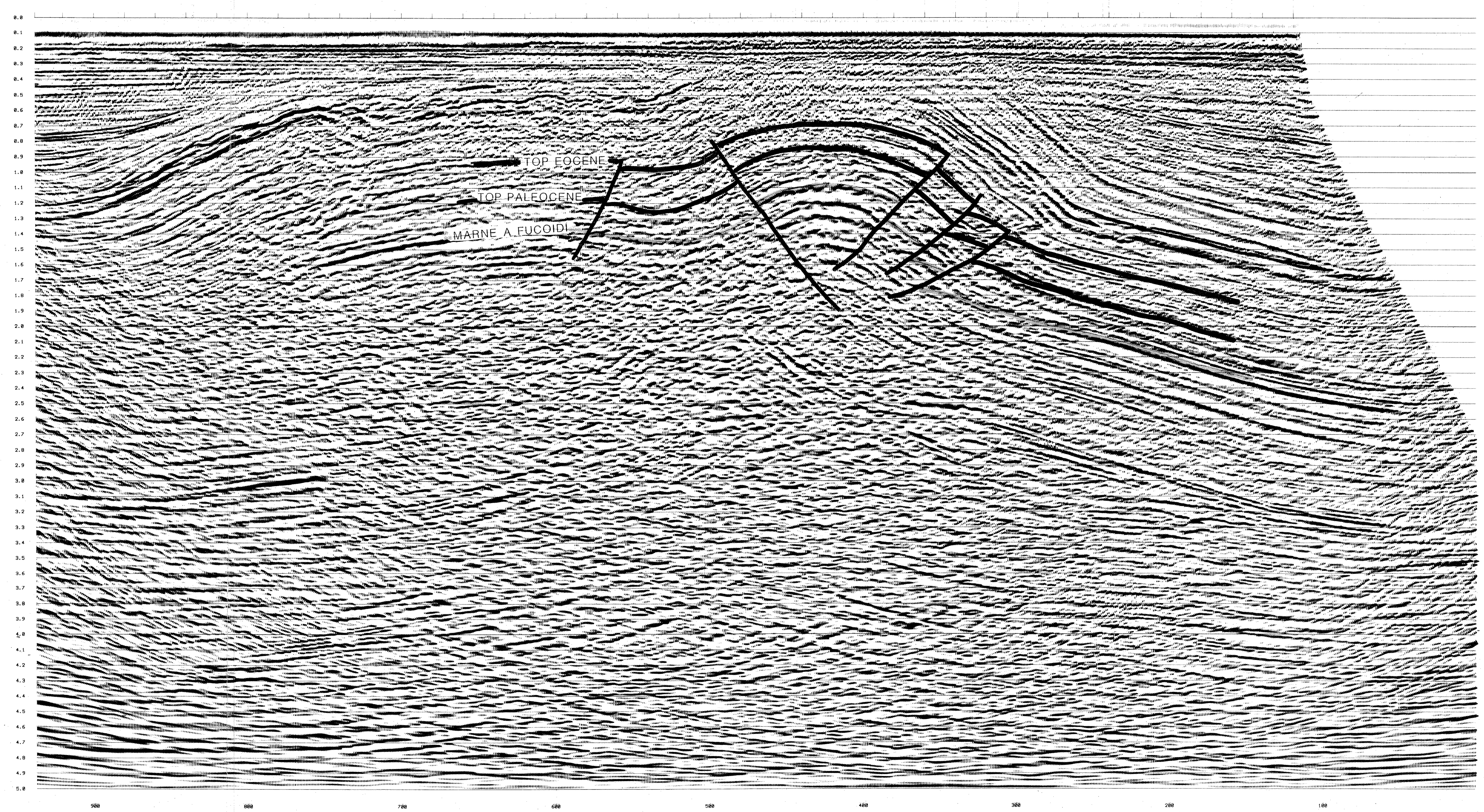
INTERSECTIONS

LINE BR-345W S.P. 21.9
LINE B81-63 S.P. 735.6
LINE B84-272 S.P. 126.4
LINE BR-343W S.P. 14.2
LINE BR-303W S.P. 349.6
LINE B81-61 S.P. 685.4
LINE BR-39 S.P. 15454.0
LINE B81-60 S.P. 723.6
LINE BR-342W S.P. 16.6
LINE B81-59 S.P. 669.2
LINE BR76-632 S.P. 254.0
LINE BR-341W S.P. 20.7
LINE B84-270 S.P. 153.6
LINE B81-58 S.P. 691.4
LINE BR-346W S.P. 53.2
LINE BR-221 S.P. 11816.8
LINE BR-340W S.P. 24.7
LINE B81-57 S.P. 631.5
LINE BR84-269 S.P. 370.4
LINE BR-339W S.P. 28.2
LINE B84-268 S.P. 858.2
LINE BR-347W S.P. 75.8

WD (M): 58 59 60 61 61 62 63 63 64 65 65 66 66 66 68 68 69 70 70 71 73 75

ORIGINAL. S.P.: 509 … 100

S.P.: 509 480 460 440 420 400 380 360 340 320 300 280 260 240 220 200 180 160 140 120 100



C.D.P.