AGIP
CENTRAL ADRIATIC

BLOCK : B. R197.AG
LINE B87-660
S.P. 100 TO 523
FILTERED MIGRATION

GEOSOURCE

PETTY RAY LONDON DATA PROCESSING CENTRE

RECORDING PARAMETERS		RECORDING GEOMETRY	
SHOT BY	PRAKLA-SEISMOS AG	DIRECTION	251 DEG.
VESSEL	SV MINTRIP	SOURCE DEPTH	6 METRES
DATE SHOT	NOVEMBER 1987	SHOT INTERVAL	25 METRES
SOURCE	AIRGUN ARRAY (TYPE G 40/75/80)	CABLE DEPTH	10 METRES
SOURCE VOLUME	2700 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	4800 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	2400 METRES
FILTERS LOWCUT	8.0 HZ. 18DB/OCT	PROCESSING CDP INTERVAL	12.5 METRES
HIGHCUT	95.0 HZ. 72DB/OCT	NAVIGATION PRIMARY :	SYLEDIS
DRIN CONSTANT	91 + 10 MS	SECONDARY :	SATNAV
	1208		

AG477

PROCESSING SEQUENCE

1. FORMAT CONVERSION : OUTPUT IN SEGY, IBM 32 BIT FLOATING POINT FORMAT, 4 MSEC. OF DATA OUTPUT FOR SUBSEQUENT PROCESSING.

2. DRIN RECOVERY USING THE FOLLOWING SYNTHETIC DRIN CURVE:

DRINCOR = S.P.X.T + 1.5 * 4.2LOG(T)**2 + 89
DATA MILD CONSTANT FROM 4.5 SEC.

3. 5-1-5 ARRAY SIMULATION (240 TRACES) K FILTER DESIGNED AS SPATIAL MATI-ALIAS FILTER USING CHEBYSHEV WEIGHTS.

WINDOWS	MIX	WEIGHTS
0.0 - 1.0 SEC	5 TRACE	20,43,72,90
1.0 - 2.5 SEC	7 TRACE	20,10,40,100
2.5 - 5.0 SEC	11 TRACE	11,20,43,71,90,100

4. DROP ALTERNATE TRACES, OUTPUT 120 TRACE RECORDS.

5. 60 FOLD COMMON DEPTH POINT SORT.

6. TIME DOMAIN DECONVOLUTION USING TWO 1440 MSEC OPERATORS WITH A 20 MSEC PREDICTIVE GAP, 0.5% WHITE NOISE ADDED.

		TRACE 120	TRACE 1
OPERATOR 1.	WINDOW START	2ms	2500
	END	1120	4000
OPERATOR 2.	WINDOW START	1300	3000
	END	2800	4500

7. VELOCITY ANALYSIS USING GEOSOURCE PREVAIL TYPE VELOCITY DISPLAY, ANALYSES LOCATED AT INDICATED POINTS ON FILM HEREOF.

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. SCA (NO ENABLE STATIC).

9. D.M.O. STACK APPLICATION OF DIP MOVEOUT USING KIRCHOFF ALGORITHM (ALPHA = 62 DEG).

10. TIME DOMAIN DECONVOLUTION USING TWO 200 MSEC OPERATORS WITH A 28 MSEC PREDICTIVE GAP, 0.5% WHITE NOISE ADDED.

OPERATOR 1.	WINDOW START	100	END 2000
OPERATOR 2.	WINDOW START	1500	END 3600

11. PRE-MIGRATION FILTER AND EQUALISATION.

12. KIRCHOFF MIGRATION USING REDUCED STACKING VELOCITIES.

13. TIME VARIANT BANDPASS FILTER.

MSEC	4/8	20/28	40/48	64/80
0	7HZ	14HZ	72HZ	80HZ
1000	7HZ	14HZ	65HZ	75HZ
1500	6HZ	12HZ	47HZ	70HZ
2000	6HZ	12HZ	60HZ	70HZ
2700	5HZ	10HZ	45HZ	67HZ

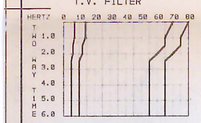
WITH 200 MSEC OVERLAP BETWEEN FILTERS

14. TRACE EQUALISATION USING 500 MSEC ROBUST AGC.

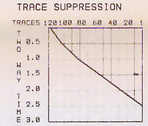
15. LASEROT DISPLAYS

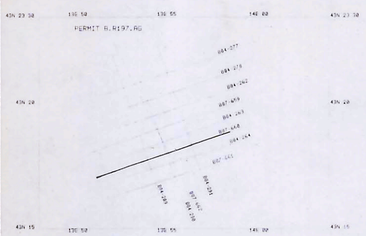
SP'S ANNOTATED AT CDP POSITION.
HORIZONTAL SCALE 10 TR/CM : 1312.500; 20 TR/CM : 1125.000
VERTICAL SCALE 10 CM/SEC : 1312.500; 5 CM/SEC : 1125.000
FILMING GAIN : 30D.
RECORDING POLARITY : COMPRESSION EQUALS NEGATIVE NUMBER
DISPLAY POLARITY : COMPRESSION EQUALS WHITE TROUGH

T.V. FILTER



TRACE SUPPRESSION





SECTION SCALE
0 KILOMETRES 1

CHECKED
APPROVED

AGIP ADRIATIC
LINE B87-660 S.P. 100-523

SCALE 1: 25000

N.EAST

FILTERED MIGRATION
DIRECTION OF SHOOTING

Allegato	Data	Dis. n.
2	GIU. 88	2475/7

VELOCITY FUNCTIONS

1389

INTERSECTIONS

LINE BR-525/1 S.P. 142.0
LINE B91-114 S.P. 387.4
LINE B91-111 S.P. 259.7
LINE BR-524/2 S.P. 746.6
LINE B91-112 S.P. 205.0
LINE BR-333W S.P. 2.3
LINE B91-109 S.P. 276.2
LINE B84-289 S.P. 1527.2
LINE B-448 S.P. 10386.0
LINE BR-39FM S.P. 66.9
LINE B84-288 S.P. 1533.6
LINE B87-622 S.P. 589.6
LINE BR-39 S.P. 15560.0
LINE B84-291 S.P. 1551.5
LINE BR-336W S.P. 62.2
LINE BR-288 S.P. 11071.7
LINE B84-292 S.P. 1484.5
LINE BR-39NM S.P. 30.1
LINE BR-339M S.P. 68.4

WD (M)	16	16	16	17	18	18	18	19	20	21	21	22	23	24	25	26	28	30	32	34	37	39		
ORIGINAL S.P.	523																					100		
S.P.	523	500	480	460	440	420	400	380	360	340	320	300	280	260	240	220	200	180	160	140	120	100		