

TVF FILTER

(DATUM PLANE 0 m L.M.)

LINEA MT-466-86



Agip S.p.A.
GERM

allegato 2 data gennaio 1988 dis. n. 356/15B



RECORDING

FIELD PARTY: R.I.G.X.
CONTRACTOR: R.I.G., CONTRACT NO. 9630052

RECORDING PERIOD: JULY 1986

RECORDING SYSTEM: SERCEL 348, 120 CHANNELS
TAPE FORMAT: SEG-B, 9 TRACK, 4250 BFI

POLARITY OF SYSTEM: SEG-CODE 0001
COMPRESSIONAL EVENTS = NEGATIVE NUMBERS

SUBSURFACE COVERAGE: 15 FOLD

RECORD LENGTH: 9 SEC., SAMPLING RATE: 2 MSEC.

FILTER: LOW-CUT 12.5 HZ 12 DB/OCT
HIGH-CUT 125 HZ 72 DB/OCT
NOTCH OUT

GAIN CONTROL: I.F.P. + CONSTANT GAIN 24 DB

RECEIVER TYPE: SM 4 (10 HZ)
NO. OF GROUPS 120, SPACING 30 M
GROUP LENGTH 55 M, 24 RECEIVERS PER GROUP

RECEIVER ARRAY:
5 M
12 M
55 M

EMITTER ARRAY:
SINGLE-HOLE SHOT

ENERGY SOURCE: EXPLOSIVE

AVERAGE SPACING: 120 M
CHARGE: 4 KG - 15 KG
CHARGE DEPTH: 24 M - 33 M

EMITTER RECEIVER CONFIGURATION:

SW ----- NE
1 60 61 120
[-----] X [-----]
-----1770 M-----15 M X 15 M-----1770 M-----

PROCESSING

INPUT CREW: DIPL.GEOPHY.S. BROETZ BLUDAU
SUPERVISOR: DIPL.GEOPHY.S. BAUMANN
HGIF CONTRACT NO. 4740062
RPH-LH-SEISMO PROCESSING NO. 36 5 204 SW DATE: 27.06.1986

1 INPUT: TAPE FORMAT: SEG-B, 9 TRACK, 4250 BFI
SAMPLING RATE: 2 MSEC, 120 TRACES

2 GAIN REMOVAL

3 ANTI-LINE FILTER: HIGH-CUT 30 HZ 24 DB/OCT

4 RESAMPLING: SAMPLING RATE 4 MSEC
CORRECTION OF SPHERICAL DIVERGENCE

5 MINIMUM-PHASE TRANSFORMATION OF RECORDER AND
GEOPHONE RESPONSE

6 TIME-VARIANT FREQUENCY FILTER

100% TIME LOW-CUT HIGH-CUT
MSEC HZ DB/OCT HZ DB/OCT
3000 17 24 30 48
3500 7 24 60 48

8 DECONVOLUTION: TYPE PREDICTIVE, PREWHITENING FACTOR 30 %
TIME-VARIANT, 3 GATES, OPERATOR LENGTH: 160 MSEC
SHOTGATE SHOTGATE 100% TIME PRED. INTERVAL
MSEC MSEC MSEC MSEC
200-3000 600-3000 1300 24
2500-5000 2500-5000 3300 30
4500-7000 4500-7000 6000 30

9 STATIC CORRECTIONS (CALCULATED BY THE FIELD PARTY):
CORRECTION VELOCITY: 2700 M/SEC, DATUM PLANE: 0 M
RECHOLATED FOR INTERMEDIATE TIME LEVEL CORRECTION

10 AUTOMATIC STATIC CORRECTIONS (2 ITERATIONS):
GATE: 300 - 2500 MSEC

11 DYNAMIC CORRECTIONS DERIVED FROM
VELOCITY ANALYSES (CVS AND CDP GATHER)

12 AUTOMATIC STATIC CORRECTIONS (2 ITERATIONS):
GATE: 300 - 2500 MSEC

13 NORMALIZATION USING AVERAGE VALUES (4 GATES-SEE TABLE)

14 HORIZONTAL STACKING: 15 FOLD

15 BLOCK CORRECTION: 400 MSEC

16 CORRECTION FROM INTERMEDIATE TIME LEVEL TO
DATUM PLANE 0 M, CORRECTION VELOCITY: 2700 M/SEC

17 ZERO-PHASE TRANSFORMATION

18 TIME-VARIANT FREQUENCY FILTER

100% TIME LOW-CUT HIGH-CUT
MSEC HZ DB/OCT HZ DB/OCT
300 13 24 50 48
3000 10 24 40 48
4500 10 24 35 48

19 NORMALIZATION USING AVERAGE VALUES (11 GATES-SEE TABLE)

20 DISPLAY

SCALE: 1:12500, 1 SEC = 10 CM
TRACE SPACING: 1.2 MM
POSITIVE NUMBERS = BLACK

• 1095.06/86 A
TIMES REFER TO INTERMEDIATE TIME LEVEL

SW

290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610

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NE

