LINE: C-88-306
SP 100 TO SP 406

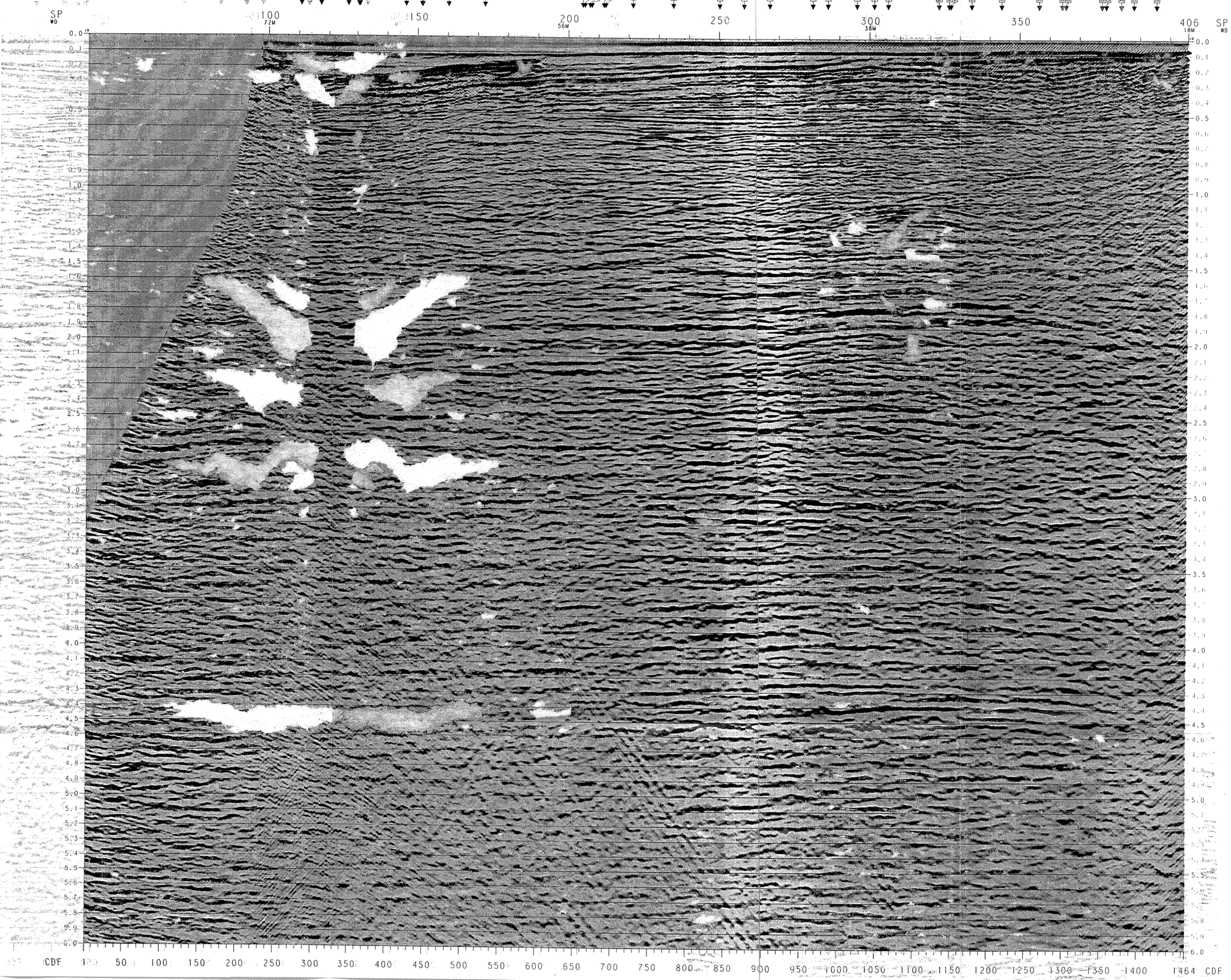
LINE: C-88-306

SP 100 TO SP 406

NORTH

FILTERED STACK

SEZIONE IDROCARBURI E GEOTERMIA DI NAPOLI
23 AGO. 1989
Prot. N. 004800



Petrex

AREA: OFFSHORE SICILY, BLOCK C.R.128.SE

WESTERN GEOPHYSICAL

W.G.C. CONTRACT P48
DATE SHOT DECEMBER 1988
PROCESSED IN LONDON DIGITAL CENTRE MAY 1989

RECORDING DATA

BOAT

GECO BETA
PRIMARY NAVIGATION BY SYLEDIS
SECONDARY NAVIGATION BY SATNAV
MAP/SECTION LOCATION C.O.P.

ENERGY SOURCE

AIRGUNS
VOLUME 5652 CU.INS
PRESSURE 2000 P.S.I.
SOURCE DEPTH 6 M
NO. OF SUBARRAYS 6
NO. OF AIRGUNS 12
S.P. INTERVAL 25 M
POPS PER.KM 40

INSTRUMENTS

FIELD RECORDER NESSIE 2
RECORD LENGTH 6 SECS
FILTER L.C.:6/18 (HZ,DB/OCT) H.C.:125/72
SAMPLE INTERVAL 2 MS
FORMAT 8015 (OWI), SEG D, 6250 BPI

CABLE

3000M STREAMER 7
NO. OF GROUPS 240
HYDROPHONES 24 PER GROUP
GROUP LENGTH 16.7 M
GROUP INTERVAL 12.5 M
CABLE DEPTH 8 M

ENERGY SOURCE: AIRGUN

SCALES

HORIZONTAL 1:12,500 1:25,000
VERTICAL 10 CMS/SEC 5 CMS/SEC
0 0.5
KILOMETRE

LEGEND

INTERSECTIONS
WD WATER DEPTHS
VELOCITY FUNCTION

O.C. FOR W.G.C. L. Pinkney

PROCESSING SEQUENCE

PROCESSING SAMPLE INTERVAL 4 MS
PROCESSING RECORD LENGTH 6000 MS

SEG-D TO CODE 4 COPY

SUBSAMPLE TO 4 MS

PREPROCESSOR - D.B.S.

(A) COMMON DEPTH FAMILY GATHER
(B) GEOMETRIC SPREADING GAIN APPLIED
(C) ZERO PHASE PREFILTER:
L.C.: 6/18 (HZ,DB/OCT) H.C.: 75/48
(D) INSTRUMENT PHASE COMPENSATION FILTER
(E) DECONVOLUTION
TYPE MINIMUM PHASE INVERSE FILTER
WINDOW LENGTH 1 - 3000 MS
MINIMUM PREDICTIVE LAG 16 MS
MAXIMUM PREDICTIVE DISTANCE 224 MS
1.0% WHITE NOISE
(F) TRACE BALANCE ON OUTPUT

DMO VELOCITY ANALYSIS

CVS VELANS

6000Z D.M.O. STACK

FAR TRACE MUTE APPLIED

D.A.S.

TYPE MINIMUM PHASE INVERSE FILTER
WINDOW LENGTH 2 X 2000 MS
WINDOW 1 300 - 2300 MS
WINDOW 2 1800 - 3800 MS
MINIMUM PREDICTIVE LAG WINDOW 1 12 MS
MINIMUM PREDICTIVE LAG WINDOW 2 48 MS
MAXIMUM PREDICTIVE DISTANCE 200 MS
1.0% WHITE NOISE
TRACE BALANCE ON OUTPUT

NOISE ATTENUATION

PERFORMED IN THE F/K DOMAIN
PASSING DIPS -5 TO +5 MS/TRACE
TAPER WIDTH 10 MS/TRACE
DIP LIMITS AT -6 DB POINTS

TIME(SECS)	PERCENT FILTER
0.000	0
1.000	0
2.400	100
6.000	100

TIME VARIANT FILTER

TIME (SEC)	L.C. (HZ,DB/OCT) H.C.
0.000	12 / 24 70 / 48
0.004	12 / 24 70 / 48
1.000	10 / 24 60 / 48
2.000	5 / 24 50 / 48
6.000	5 / 24 40 / 48

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

SCALING

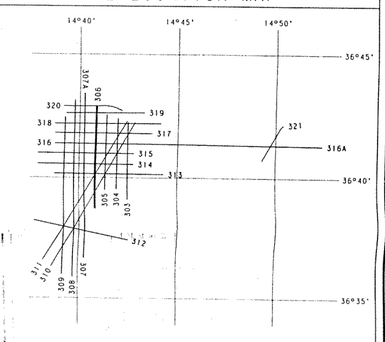
GENERALISED MEAN GAIN:
WINDOW LENGTH 500 MS
GENERALISED MEAN EXPONENT P = 0.1
DESIRED OUTPUT EXPONENT Q = 0.5

COMMENTS

DATUM PLANE IS SEA LEVEL.
A GUN AND CABLE CORRECTION OF 9 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: 0540F1

LINE LOCATION MAP



NOTE: LINE NO'S PREFIXED C-88

DBS