



SEISMOGRAPH SERVICE (ENGLAND) LTD.

COMPANY : STATOIL
WELL : 15/9-18

LOCATION : 58° 21' 01.92" N
01 48 12.04 E

VERTICAL SEISMIC PROFILE
DISPLAY 4 : UPGOING WAVEFIELD
DISPLAY 5 : DECONVOLVED UPGOING
WAVEFIELD

POLARITY 1

TIME SCALE : 1S = 10CM
DEPTH SCALE : 1:12000
DATE PROCESSED : MARCH 1984

FIELD ACQUISITION

DATE SHOT : 21-2-84
SOURCE : SINGLE BOLT AIRGUN (80 CU. IN.)
SOURCE DEPTH : 10M BELOW MSL
GUN PRESSURE : 2000 PSI
SOURCE MONITOR : NEAR FIELD HYDROPHONE
MONITOR DEPTH : 13M BELOW MSL
WELL GEOPHONE : GCH 100 HT
RECORDING EQUIPMENT : DCA/DCR
SAMPLE RATE : 2 MS
SURFACE ELEVATION : /
WATER DEPTH : 97M
VSP DATUM : MSL
DEPTH REFERENCE : KB AT 23M ABOVE MSL

PROCESSING SEQUENCE

ALL PANELS
EDIT
AUTOMATED TRACE ALIGNMENT
STACK OF CONSTANT DEPTH TRACES
SOURCE SIGNATURE DECONVOLUTION (350 MS WINDOW)
BANDPASS FILTER (5-80HZ, 18/24DB PER OCT.)
AMPLITUDE RECOVERY PROPORTIONAL TO T
PLUS

DISPLAY 4 : UPGOING WAVEFIELD

DOWNGOING WAVE SUBTRACTION
FIRST ARRIVALS SHIFTED TO TWO-WAY TIME SUB DATUM
TIME VARIANT FILTER FROM SEISMIC SECTION (LINE ST8215-122)
(10-60HZ, 18/24DB PER OCT 0.0-3.0S
10-50HZ, 18/24DB PER OCT 3.05-END OF DATA)

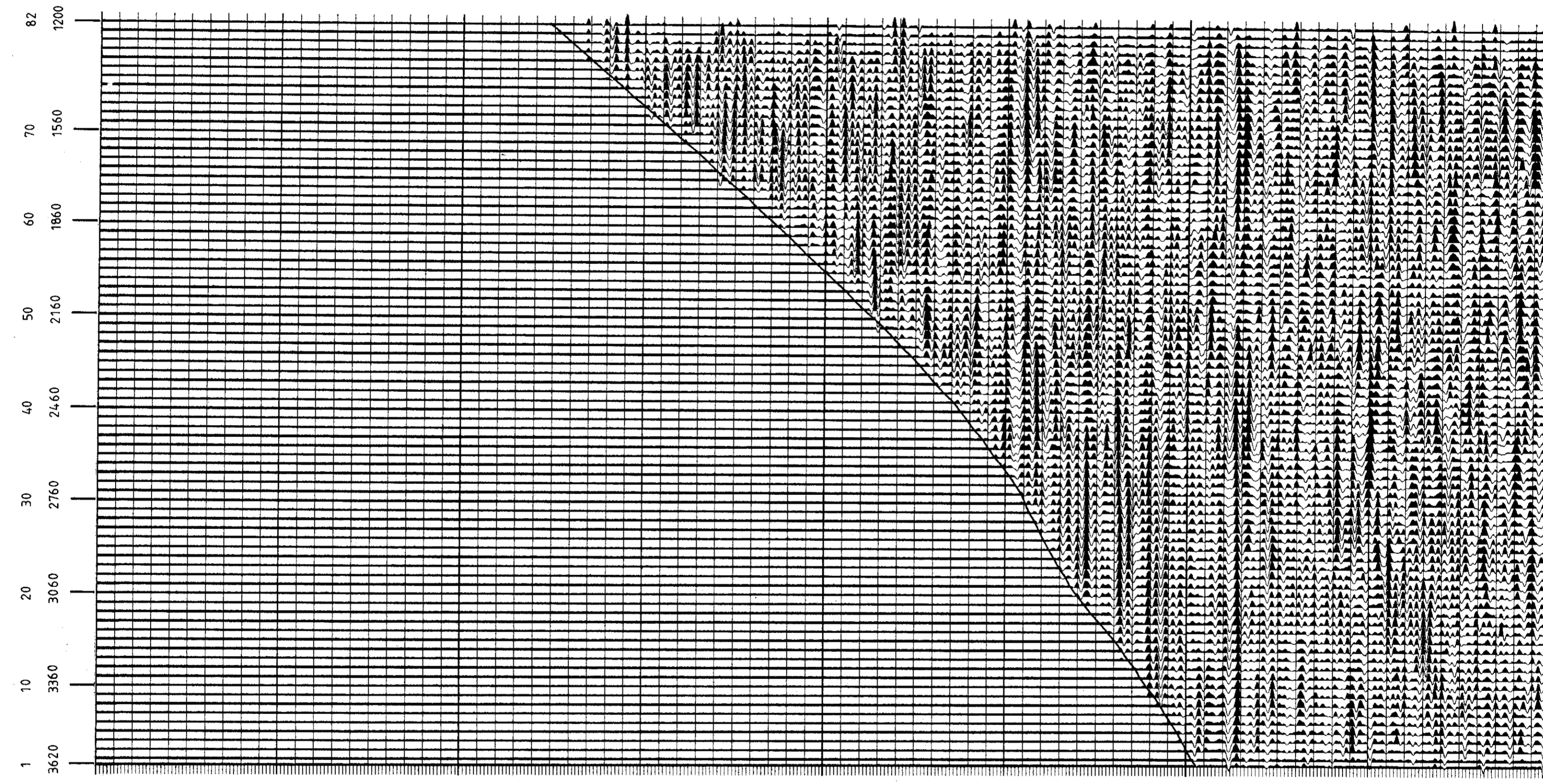
9:1 MEDIAN PICK
POST MEDIAN FILTER (3-70HZ 18/24DB PER OCT.)

DISPLAY 5 : DECONVOLVED UPGOING WAVEFIELD

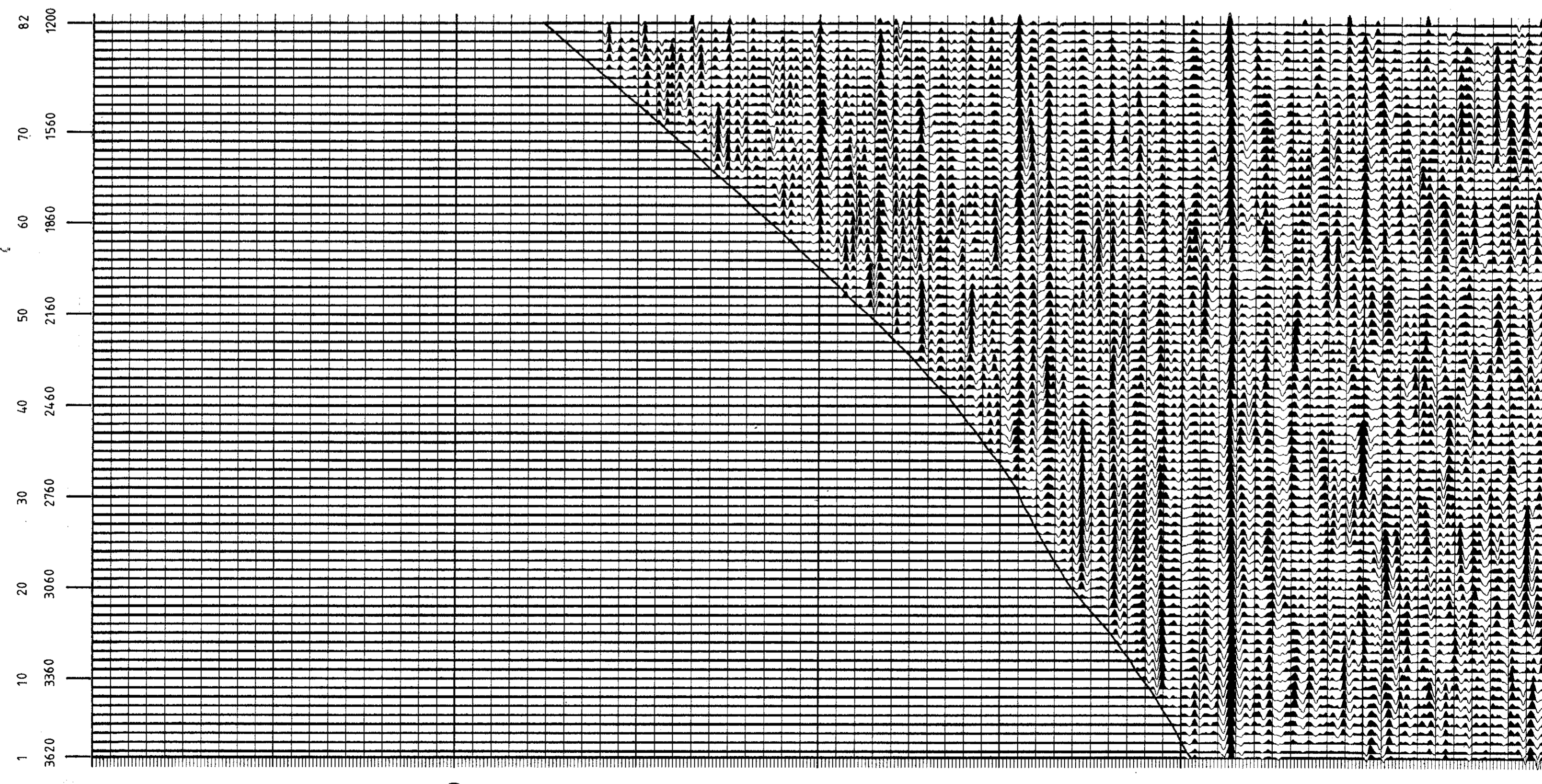
DOWNGOING WAVE SUBTRACTION
FIRST ARRIVALS SHIFTED TO TWO-WAY TIME SUB DATUM
SPECTRAL VSP DECONVOLUTION (750 MS DERIVATION WINDOW)
TIME VARIANT FILTER (AS ABOVE)
9:1 MEDIAN PICK
POST MEDIAN FILTER (3-70HZ 18/24DB PER OCT.)
DISPLAYS 4 & 5 TRACE EQUALISATION (500 MS WINDOW, 250 MS OVERLAP)
PRIOR TO DISPLAY

POLARITY 1
AN UPGOING COMPRESSION WAVE IS REPRESENTED BY A WHITE TROUGH
A DOWNGOING FIRST ARRIVAL COMPRESSION WAVE IS A BLACK PEAK

DISPLAY 5



DISPLAY 4



TIME IN SECONDS