

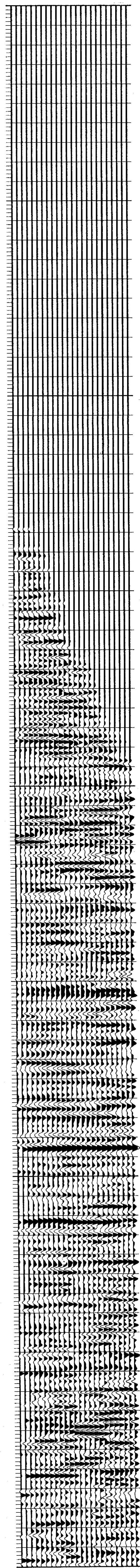
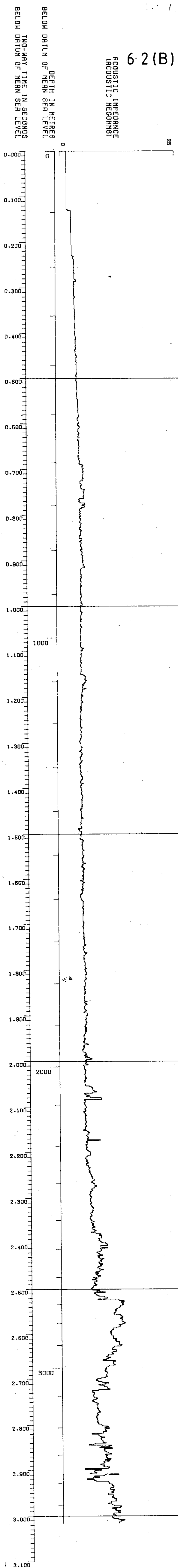
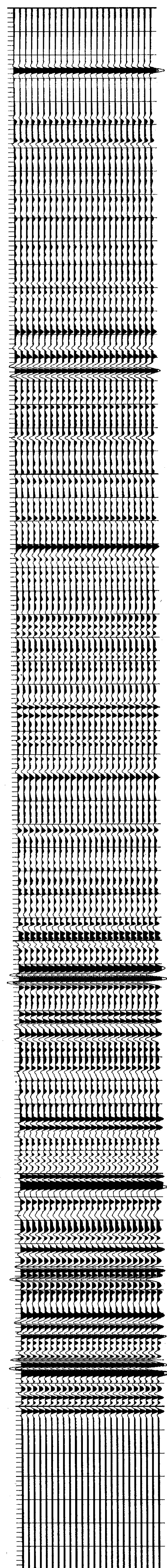
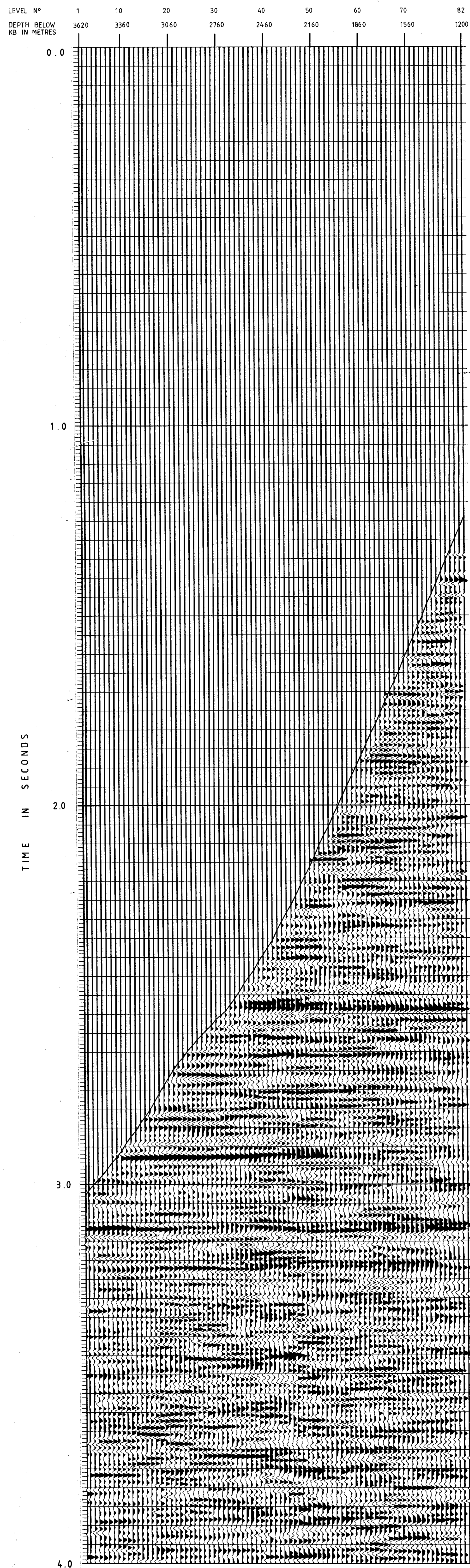
Dr 15

### DISPLAY 5.2

### 6.2 (A)

### 6.2 (B)

### 6.2 (C)



| DIP | LITHO |
|-----|-------|
|     |       |

COMPANY : STATOIL  
 WELL : 15/9-18  
 LOCATION : 58° 21' 01.92" N  
 01 48 12.04 E  
 VERTICAL SEISMIC PROFILE  
 DISPLAYS 5.2 AND 6.2  
 POLARITY 2

TIME SCALE : 15 = 20CM  
 DEPTH SCALE : DISPLAY 5.2 - 1:112000  
 DATE PROCESSED : DISPLAY 5.2 - 10 TRACES PER INCH  
 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 : GCM 100 HT  
 RECORDING EQUIPMENT : DCA/DCR  
 SAMPLE RATE : 2 MS  
 SURFACE ELEVATION : /  
 WATER DEPTH : 97M  
 USP DATUM : MSL  
 DEPTH REFERENCE : KB AT 23M ABOVE MSL

**PROCESSING SEQUENCE**

DISPLAY 5.2 : DECONVOLVED UPGOING WAVEFIELD  
 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  
 DOWNGOING WAVE SUBTRACTION  
 FIRST ARRIVALS SHIFTED TO TWO-WAY TIME SUB DATUM  
 SPECIAL USP DECONVOLUTION (750 MS DERIVATION WINDOW)  
 BANDPASS FILTER (5-80HZ, 18/24DB PER OCT.)  
 S-1: MEDIAN PICK  
 POST-MEDIAN FILTER (3-90HZ, 18/24DB PER OCT.)  
 TRACE EQUALISATION (500MS WINDOW, 250MS OVERLAP)  
 PRIOR TO DISPLAY

TRANPOSED USP/ACOUSTIC IMPEDANCE LOG/  
 SYNTHETIC SEISMOGRAM  
 (DISPLAY 6.2)

(A) SYNTHETIC SEISMOGRAM  
 PRIMARIES WITHOUT TRANSMISSION LOSS TRACE  
 BANDPASS FILTER (AS ABOVE)  
 24 TRACE REPEAT

(B) ACOUSTIC IMPEDANCE LOG  
 DISPLAYED ALONGSIDE AT TWO-WAY TRAVEL TIME

(C) TRANPOSED USP  
 AS FOR (DISPLAY 5.2) PLUS  
 DATA TRANPOSED WITH THE TIME DEPTH CURVE SHIFTED TO LEFT EDGE OF DISPLAY  
 POST-MEDIAN FILTER (3-90HZ, 18/24DB PER OCT.)  
 TRACE EQUALISATION (500MS WINDOW, 250MS OVERLAP)  
 24 TRACE DISPLAY

**POLARITY 2**  
 AN UPGOING COMPRESSION WAVE IS REPRESENTED BY A BLACK PEAK.  
 A DOWNGOING FIRST ARRIVAL COMPRESSION WAVE IS A WHITE TROUGH.