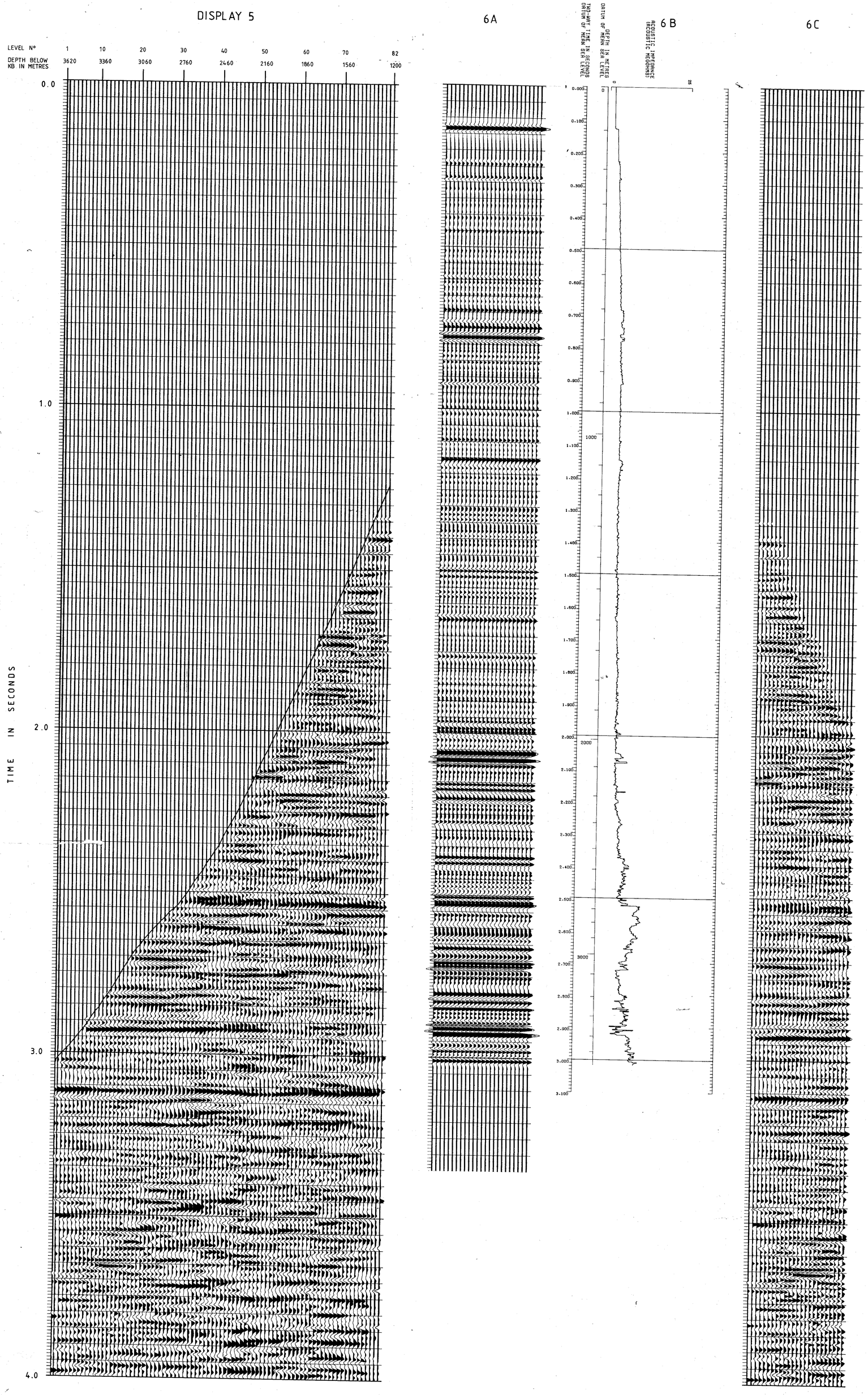
nr 15



DIP	LITHO

SEISMOGRAPH SERVICE(ENGLAND)LTD.

COMPANY : STATOIL
WELL : 15/9-18
LOCATION : 58° 21′ 01.92″ N
01 48 12.04 E

VERTICAL SEISMIC PROFILE
DISPLAYS 5 AND 6
POLARITY 2

TIME SCALE : 1S = 20CM
DEPTH SCALE : DISPLAY 5:-1:12000
: DISPLAY 6:-10 TRACES PER INCH
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

DISPLAY 5 : 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 VSP DECONVOLUTION (750 MS DERIVATION WINDOW)
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 3.0S-END OF DATA)
9:1 MEDIAN PICK
POST MEDIAN FILTER (3-70HZ 18/24DB PER OCT.)
TRACE EQUALISATON (500MS WINDOW, 250MS OVERLAP)
PRIOR TO DISPLAY

TRANSPOSED VSP/ACOUSTIC IMPEDANCE LOG/
SYNTHETIC SEISMOGRAM
(DISPLAY 6)

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

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

(C) TRANSPOSED VSP
AS FOR (DISPLAY 5) PLUS
DATA TRANSPOSED WITH THE TIME DEPTH CURVE SHIFTED TO
LEFT EDGE OF DISPLAY
POST MEDIAN FILTER (3-70HZ 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