Seismograph Service (England) Limited

VELOCITY LOG

LINEAR TIME SCALE

COMPANY	STATOIL
WELL	15/9-18
FIELD	SIGMA
COUNTRY	NORWAY NORTH SEA
LOCATION	58° 21' 01·92" N 01° 48' 12·04" E
CALIBRATION	21.2.84

PERMANENT DATUM	MSL	**ELEV.**	
LOG MEASURED FROM	DERRICK FLOOR	**K.B.**	23 m
DRILLING MEASURED FROM	DERRICK FLOOR	**D.F.**	23 m
TOTAL TRAVEL TIME REFERRED TO	MSL	**G.L.**	-97 m

ELEVATIONS A.M.S.L.

DATE	19.12.83	28.12.83	17.1.84	4.2.84	20.2.84	
RUN NUMBER	1A	2B	3C	4D	6E	
DEPTH DRILLER	520 m	1170 m	2762 m	3321 m	3622 m	
DEPTH LOGGER	521 m	1170.5 m	2764 m	3324 m	3623 m	
TOP LOGGED INTERVAL	181 m	499 m	1150 m	2740 m	3188 m	
BOTTOM LOGGED INTERVAL	520.5 m	1165 m	2757 m	3315 m	3616 m	
CASING DRILLER	181 m	499 m	1150 m	2743 m	2743 m	
CASING LOGGER	181 m	499 m	1150 m	2740 m		
TYPE FLUID IN HOLE	SW GEL	LIGNOSULPHONATE	GYPSUM	LIGNOSULPHONATE		
DENSITY	1.08	1.13	1.23	1.42	1.42	
LOGGING SPEED ft/min	30	30	30	30	30	
MAX. REC. TEMP. DEG. F.	100	100	136	211	208	
OPERATING RIG TIME						
RECORDED BY	ARNESEN	HANSEN	ARNESEN	HANSEN	HANSEN	

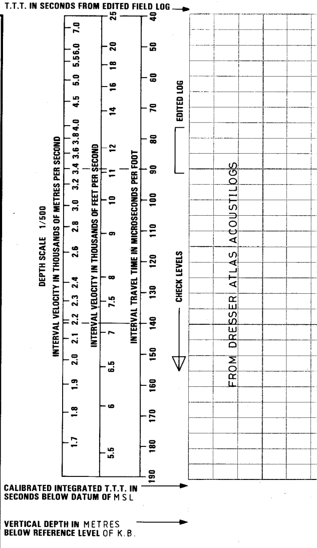
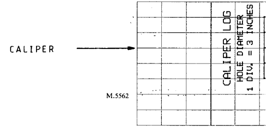
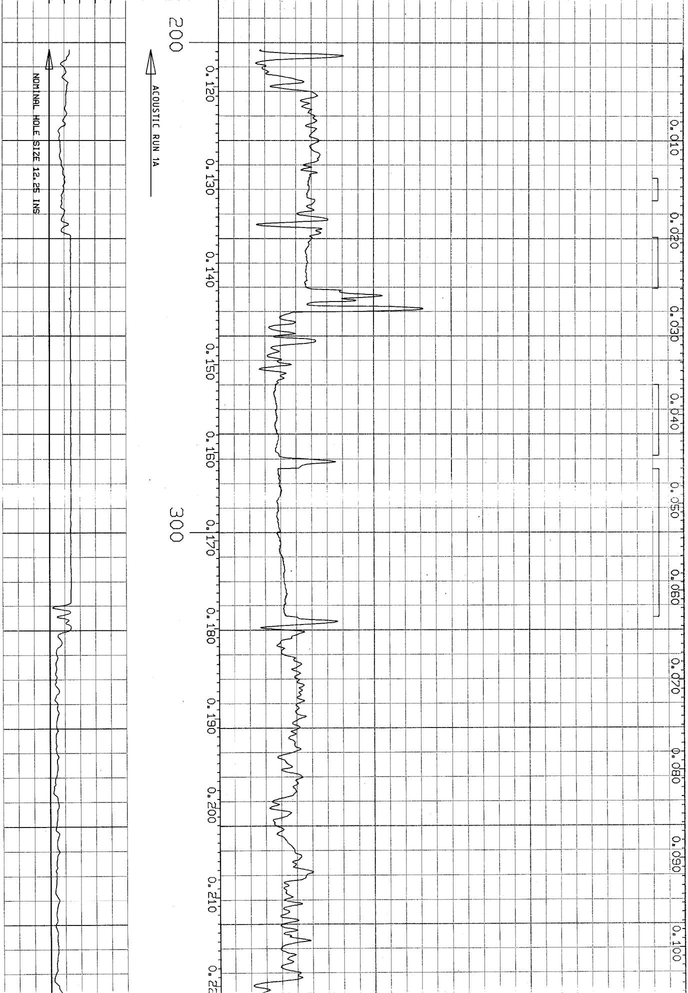
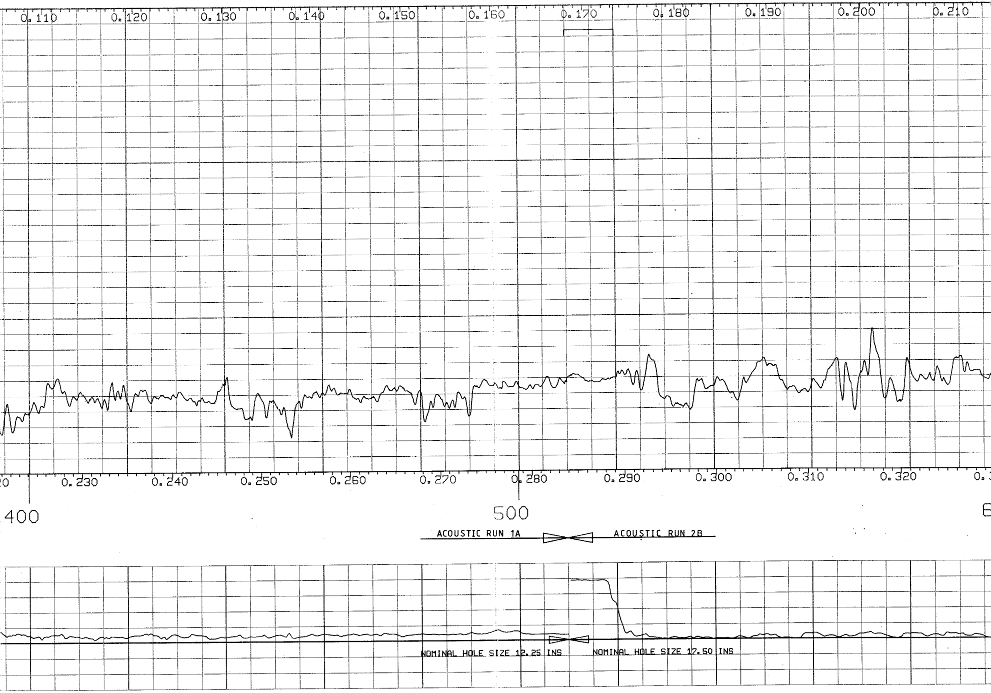
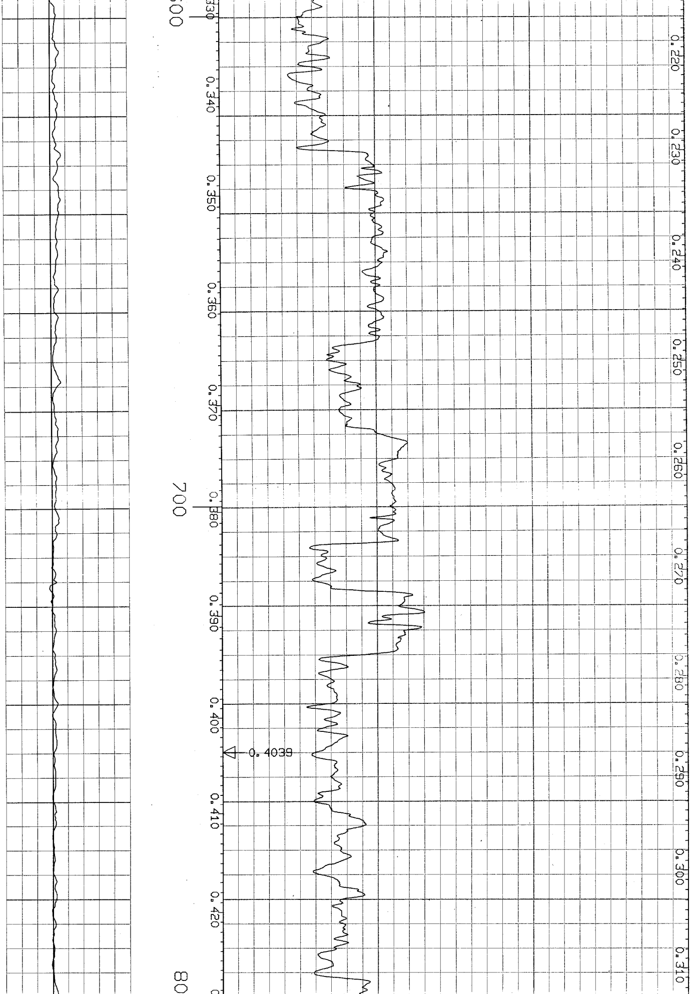
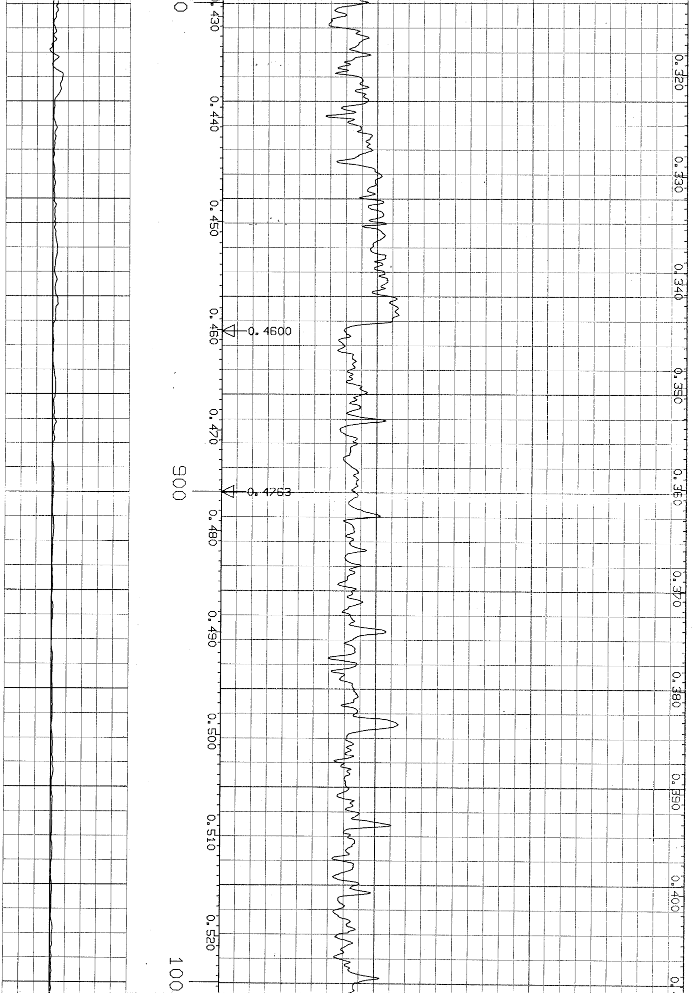
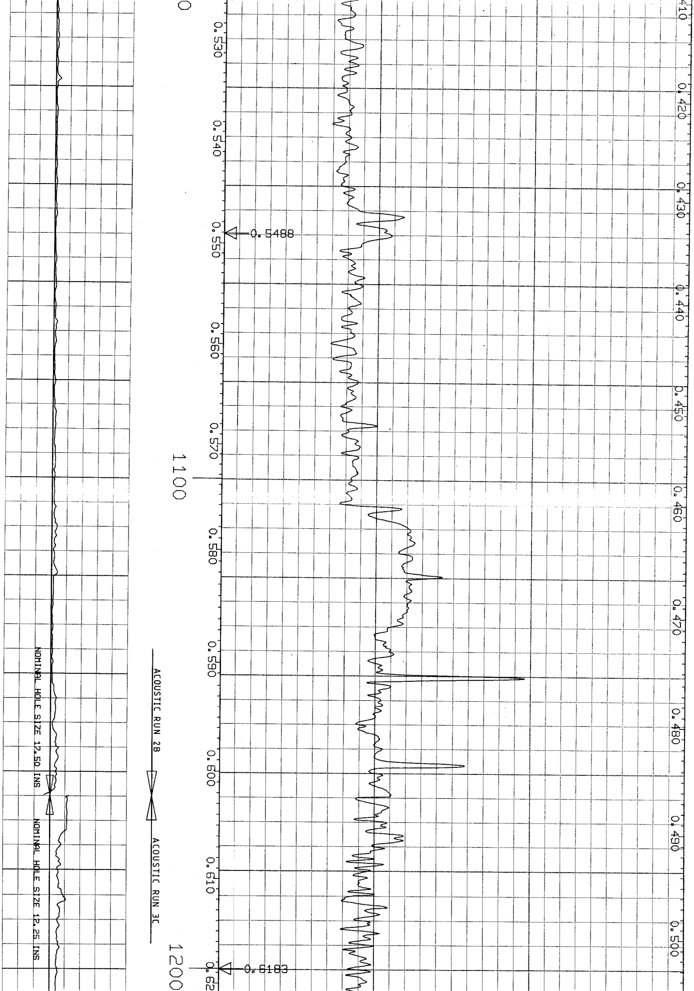
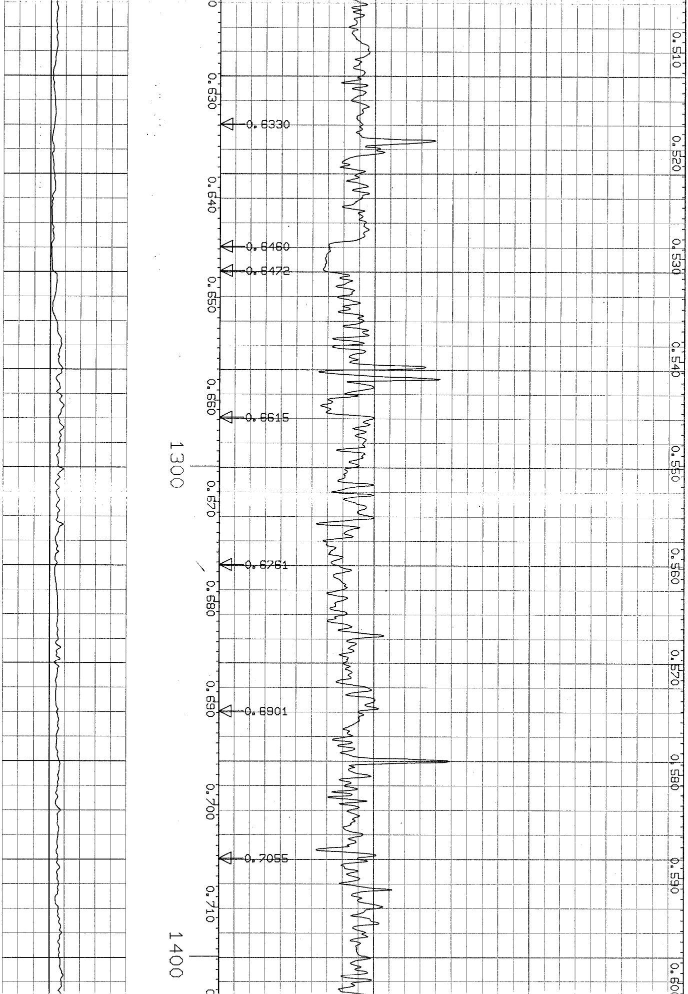
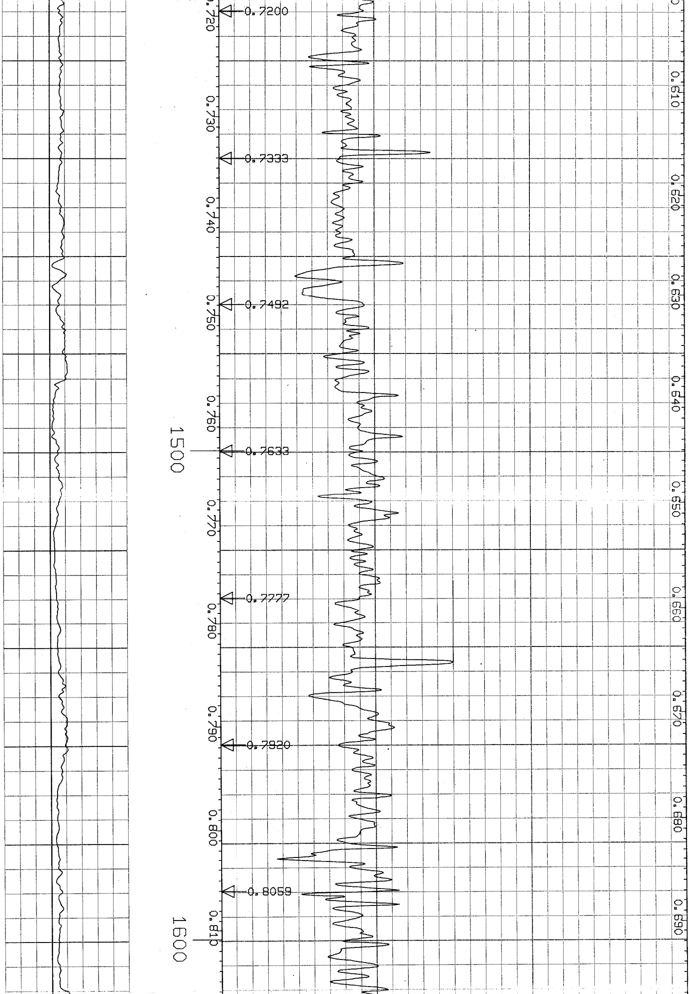
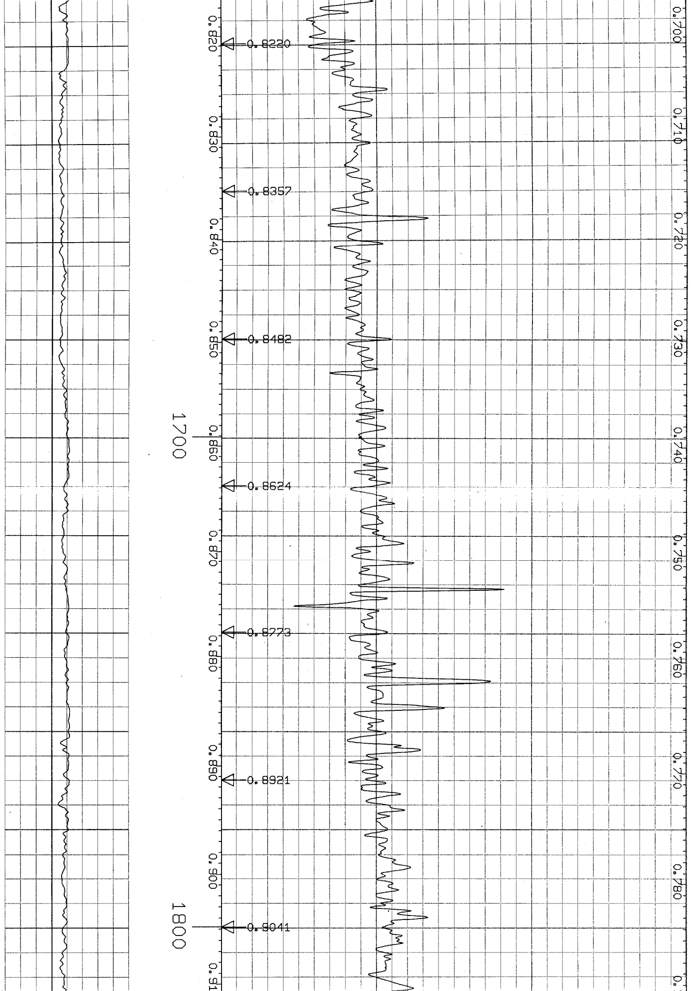
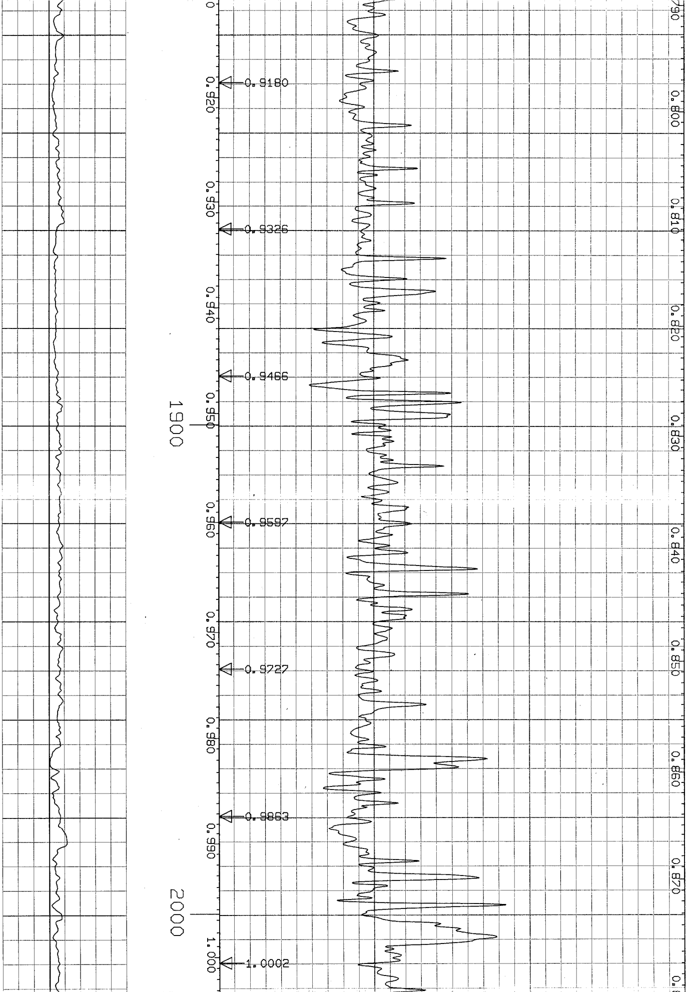
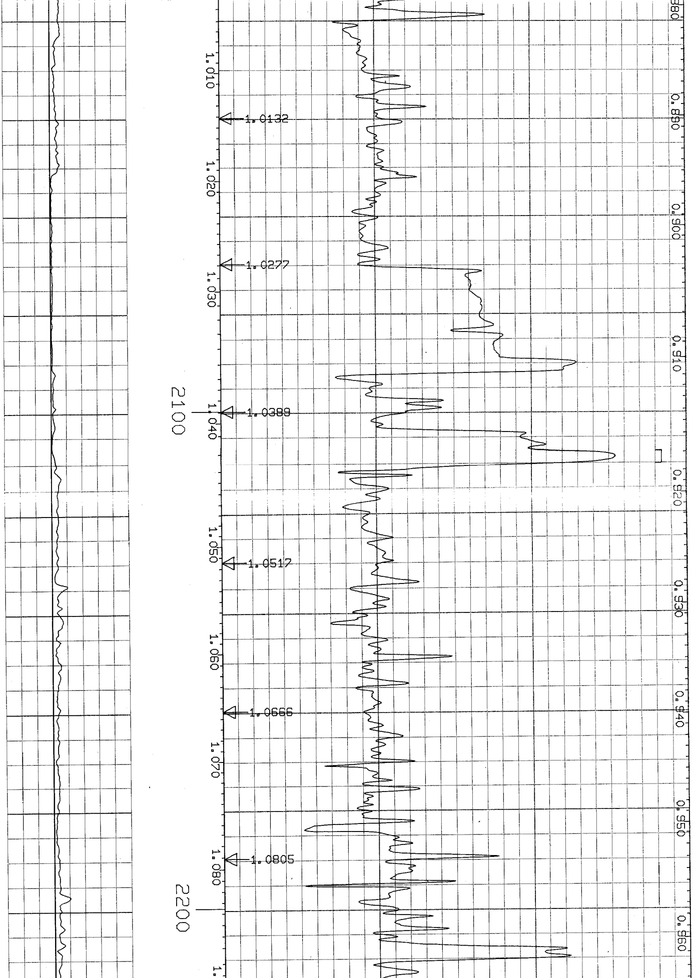
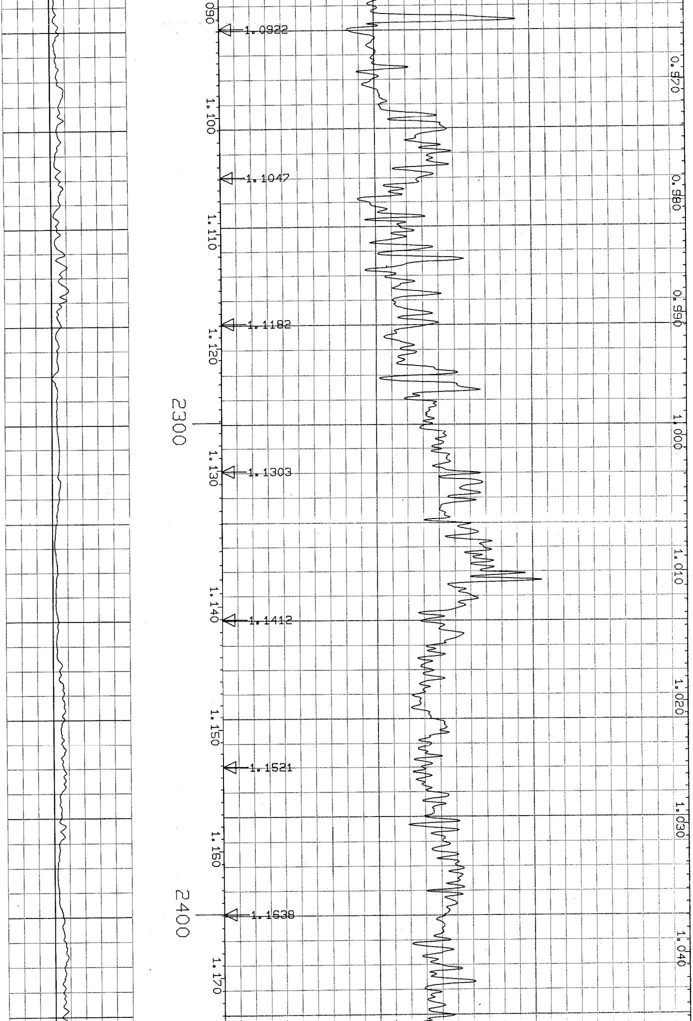
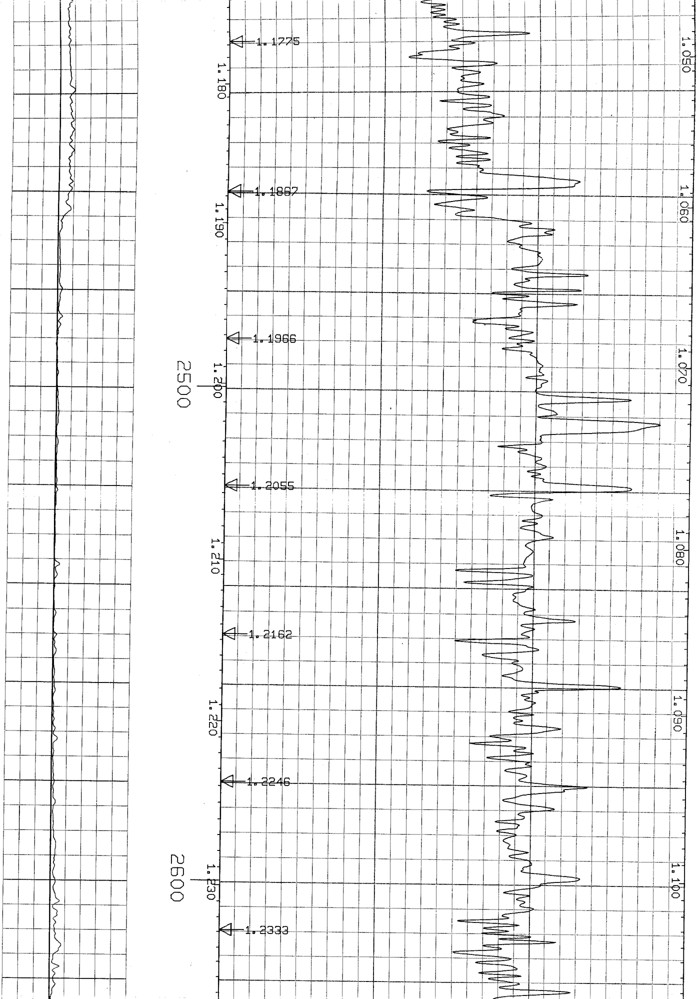
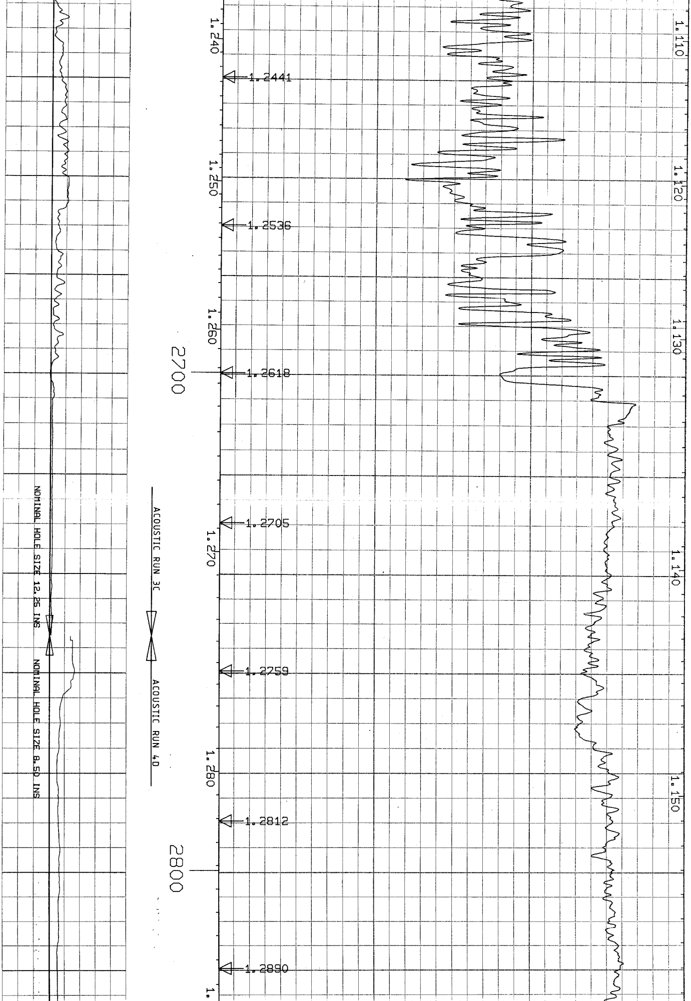
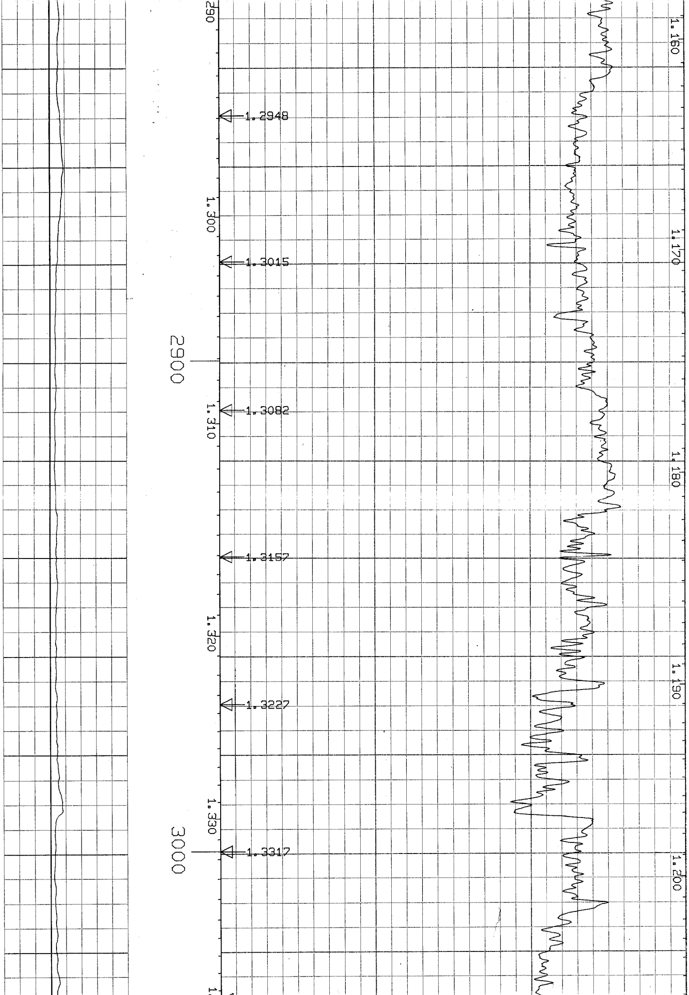
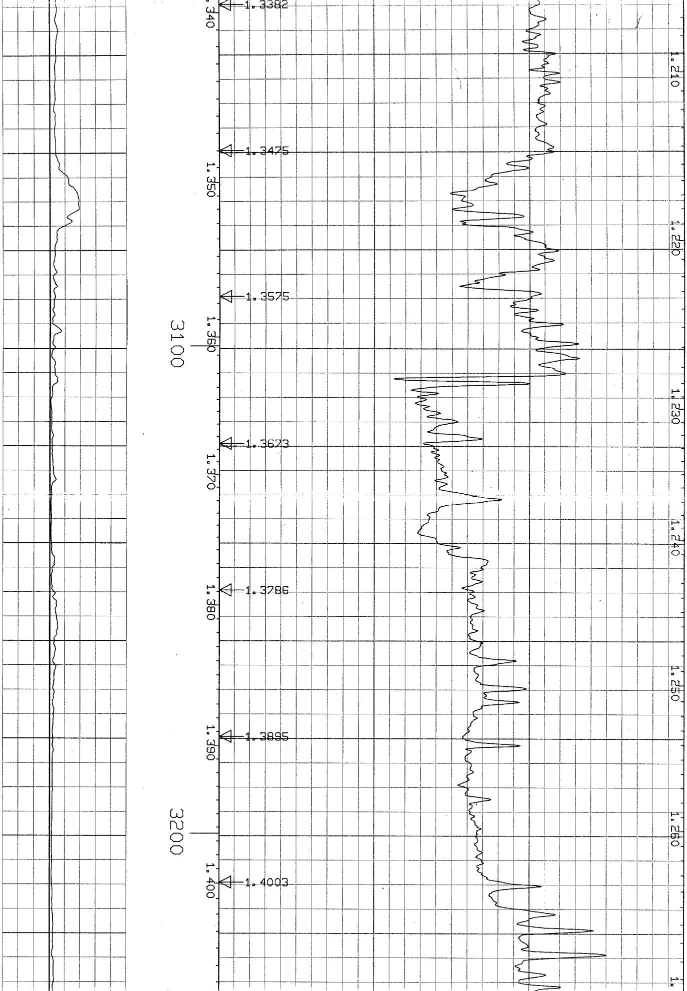
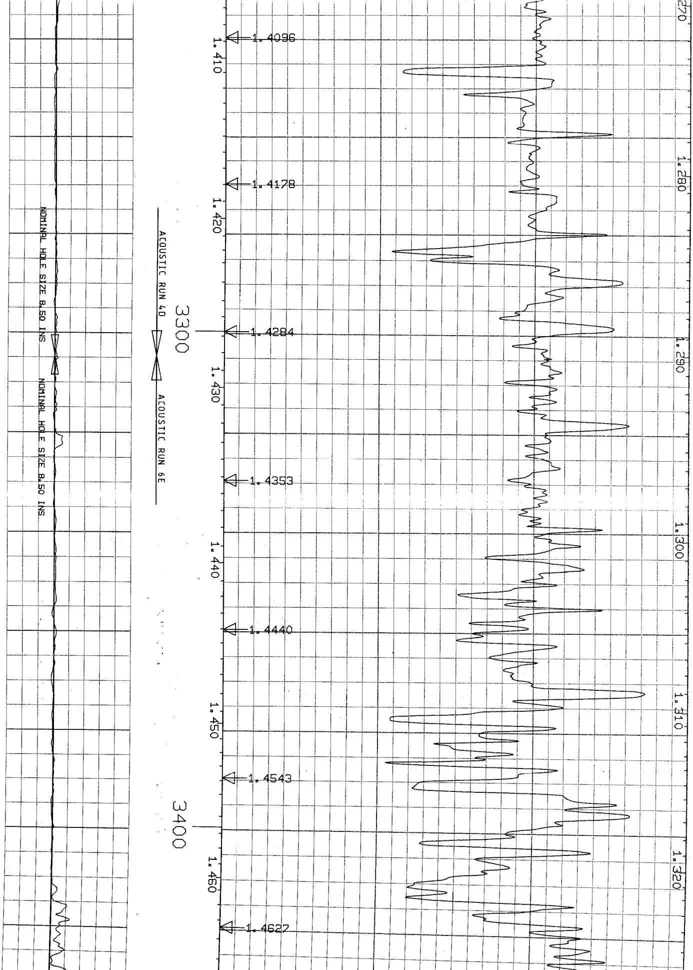
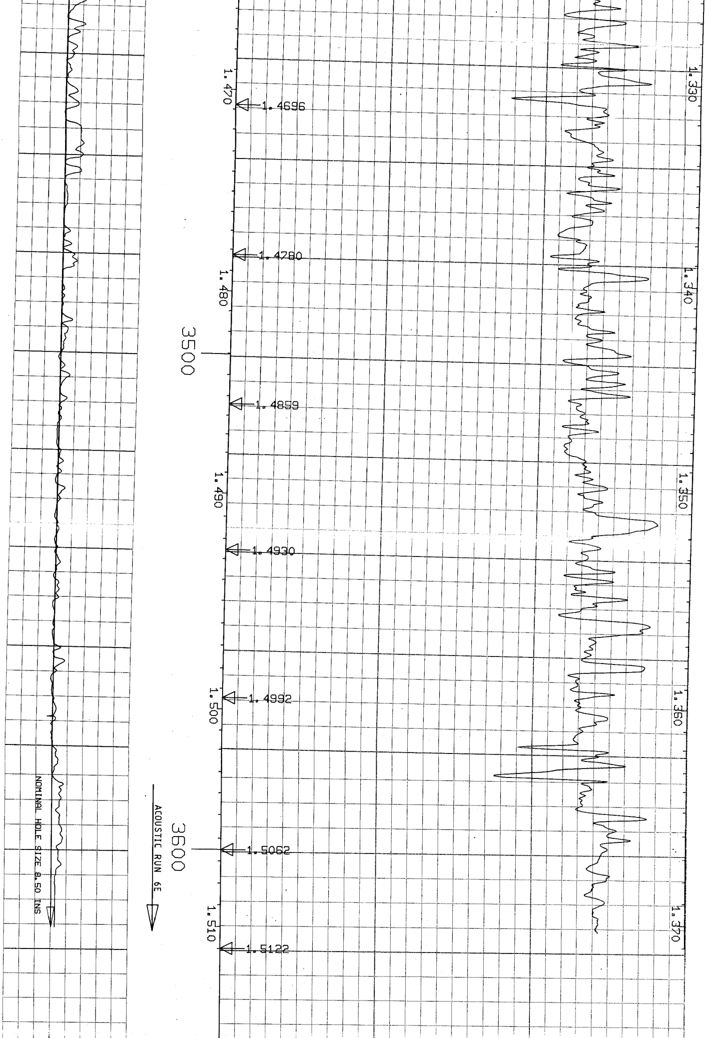
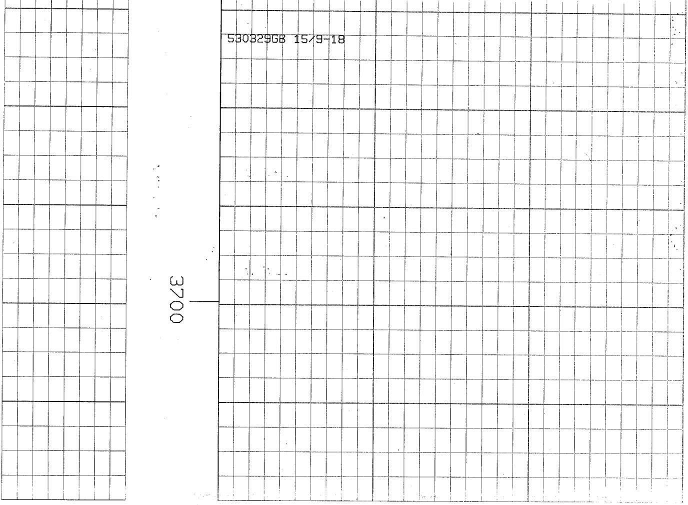
RUN No.	BOREHOLE RECORD		CASING RECORD	
	BIT (IN.)	**DEPTH** m	**SIZE (IN.)**	**DEPTH** m
1A	12¼	521	30	181
2B	17½	1170.5	20	499
3C	12¼	2764	13⅜	1150
4D	8½	3324	9⅝	2740
6E	8½	3623	9⅝	

REMARKS

The integrator has been extrapolated 4 m below the bottom of the recorded log in order to include the check level at 3620 m below KB.

CORRECTIONS APPLIED

VERTICAL DEPTHS m	INTERVAL TIME CORRECTION
201 - 1233	Zero
1233 - 1893	2.8 µs/ft linear shift
1893 - 2237	4.3 µs/ft linear shift
2237 - 2993	2.4 µs/ft linear shift
2993 - 3348	5.2 µs/ft linear shift
3348 - 3618	1.1 µs/ft linear shift


T.T.T. IN SECONDS FROM EDITED FIELD LOG
DEPTH SCALE 1/500
INTERVAL VELOCITY IN THOUSANDS OF METRES PER SECOND
1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.5 5.0 5.5 6.0 7.0
INTERVAL VELOCITY IN THOUSANDS OF FEET PER SECOND
5.5 6 6.5 7 7.5 8 9 10 11 12 14 16 18 20 25
INTERVAL TRAVEL TIME IN MICROSECONDS PER FOOT
190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40
CHECK LEVELS
EDITED LOG
FROM DRESSER ATLAS ACOUSTILOGS
CALIBRATED INTEGRATED T.T.T. IN SECONDS BELOW DATUM OF M S L
VERTICAL DEPTH IN METRES BELOW REFERENCE LEVEL OF K.B.