



Sesamograph Service England Limited

SYNTHETIC SEISMOGRAM

MARINE

FILING No. COMPANY PHILIPS AUSTRALIAN OIL COMPANY

WELL HELIOS No.1

FIELD WILDCAT

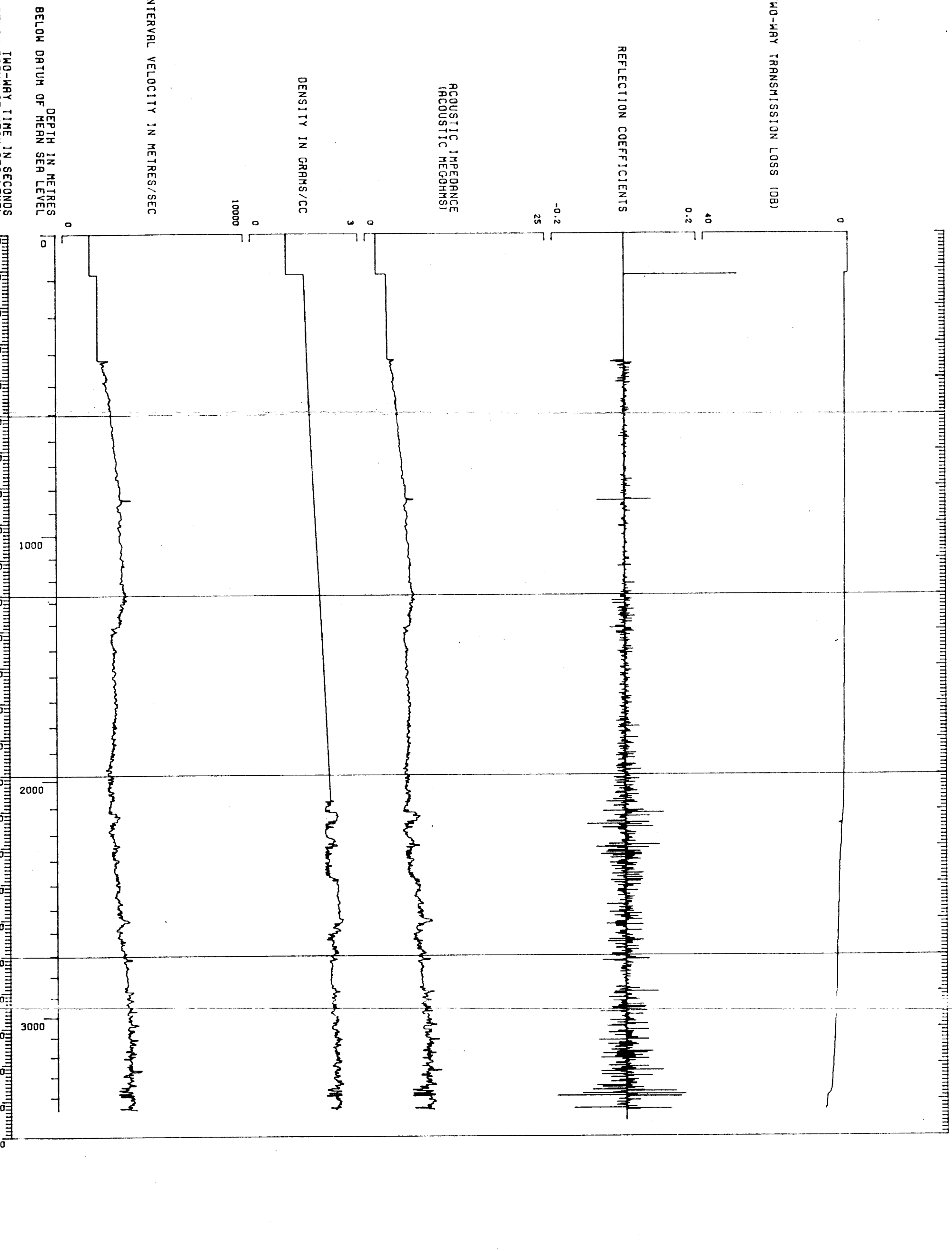
COUNTRY AUSTRALIA (OFFSHORE)

LOCATION: 38° 41' 40.446" S
148° 16' 34.057" E

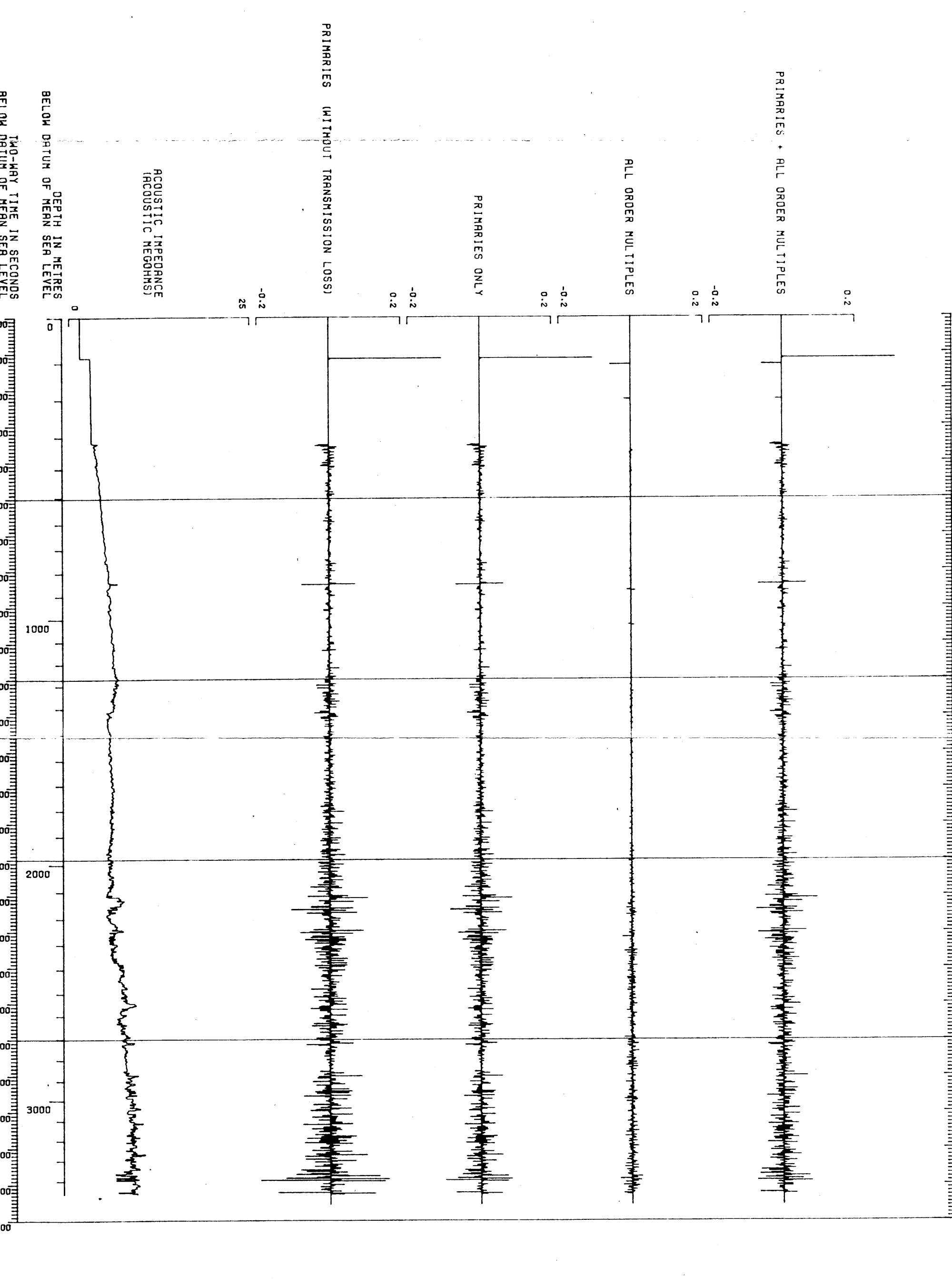
SOURCE OF PRINCIPAL DATA	CALIBRATED SONIC LOG
SOURCE OF SUPPLEMENTARY DATA	DENSITY, SEISMIC LOG (GPI-1-C)
SOURCE AND TYPE	AROUND ARMY
DEPTH OF SOURCE	6 m
DEPTH OF DETECTOR	15 m
SYNTHETIC TIME-LAYER INTERVAL	0.0024 TWO-WAY
BASIC DATA DIGITISED	CONTINUOUSLY IN DEPTH
DEPTH SCALE	NON LINEAR IN METERS
TWO-WAY TIME SCALE	10 CM/S
DATUM	MEAN SEA LEVEL
WATER VELOCITY	1524 m/s
DEPTH OF WATER	86.9 m
VELOCITY MODEL:	Average velocity of 1859 m/s between seabed and the top of the calibrated sonic log.

REMARKS: The reflection coefficient created at the top of the log is considered unrealistic and has not been included in the Synthetic Seismogram.

W-4838



SPIKE RESPONSES WITHOUT SOURCE GHOSTS

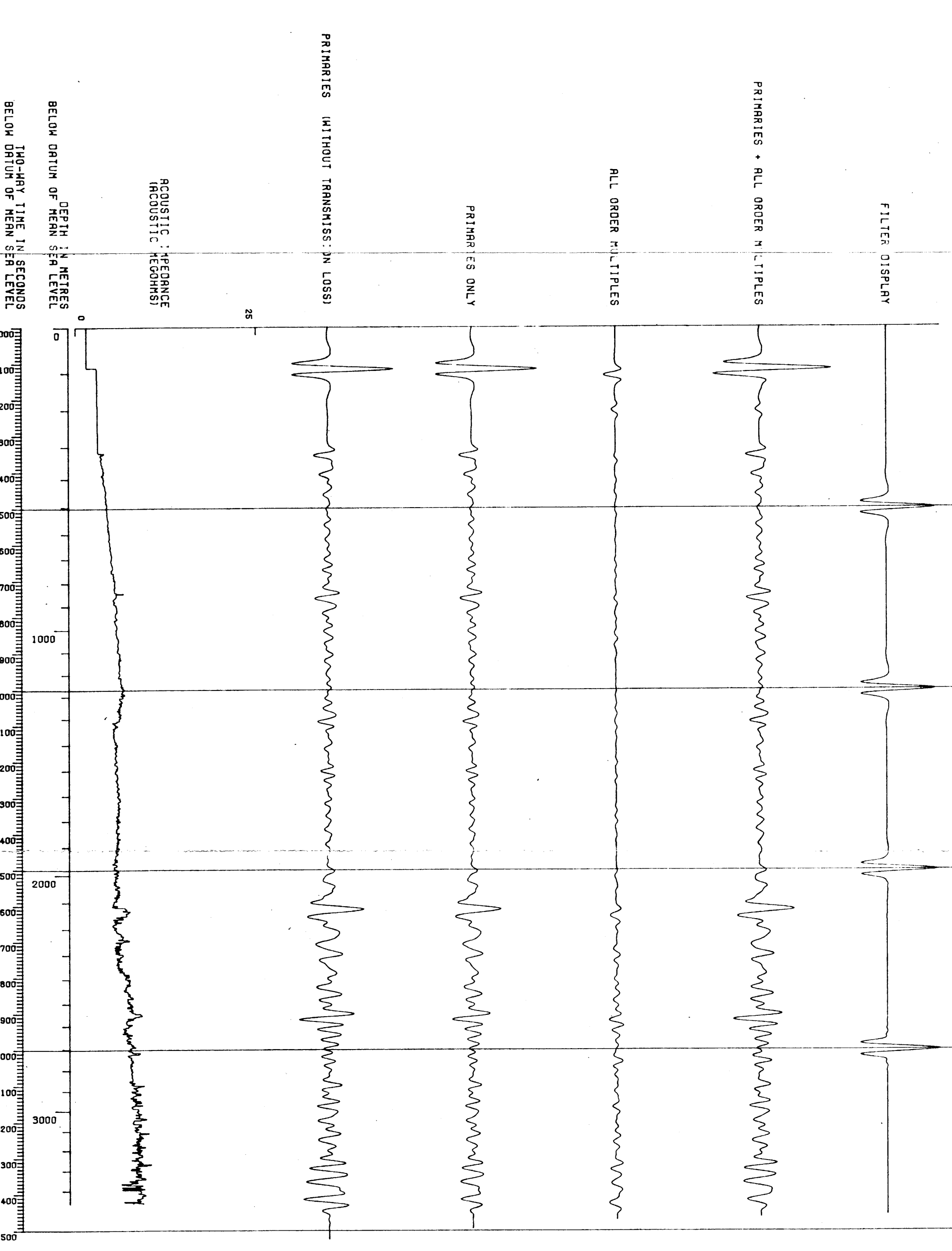


CONVOLUTION WITH A 25HZ ZERO PHASE RICKER WAVELET AND THE FOLLOWING TIME VARIANT BAND PASS FILTER

AT WB +	1.2	8/15	1	55/65	HZ
AT WB +	1.5	5/10	1	45/60	HZ
AT WB +	1.8	3/5	1	45/55	HZ
AT WB +	2.4	3/5	1	40/50	HZ

LINEAR OVERLAP BETWEEN FILTERS

CONVOLVED RESPONSES WITHOUT SOURCE GHOSTS



CONVOLUTION WITH A 25HZ MINIMUM PHASE RICKER WAVELET AND THE FOLLOWING TIME VARIANT BAND PASS FILTER

AT WB +	1.2	8/15	1	50/60	HZ
AT WB +	1.5	5/10	1	40/50	HZ
AT WB +	1.8	3/5	1	40/50	HZ
AT WB +	2.4	3/5	1	40/50	HZ

LINEAR OVERLAP BETWEEN FILTERS

CONVOLVED RESPONSES WITHOUT SOURCE GHOSTS

