



Seismograph Service England Limited

SYNTHETIC SEISMOGRAM

MARINE

COMPANY PHILLIPS AUSTRALIAN OIL COMPANY

WELL HELIOS No1

FIELD WILDCAT

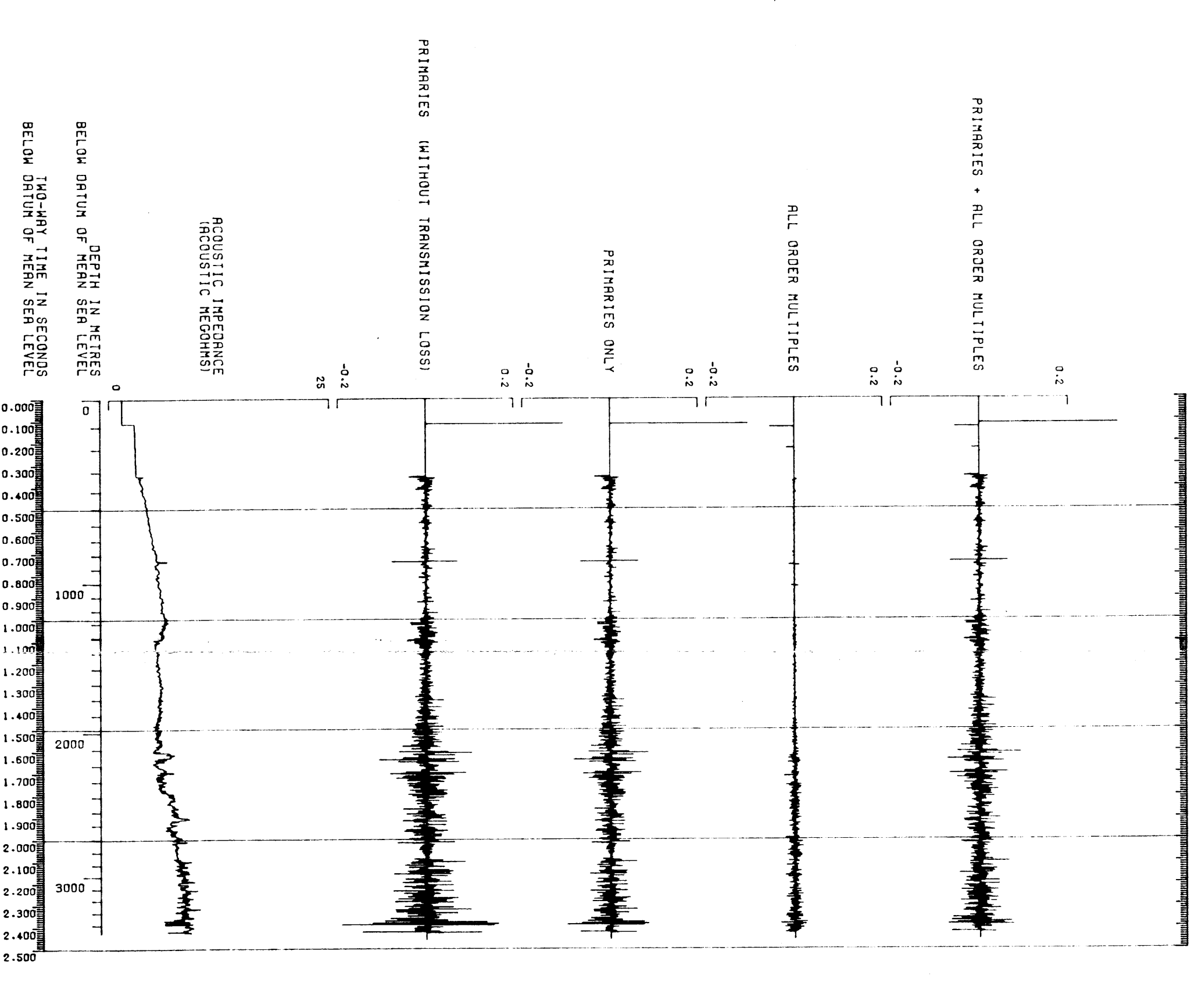
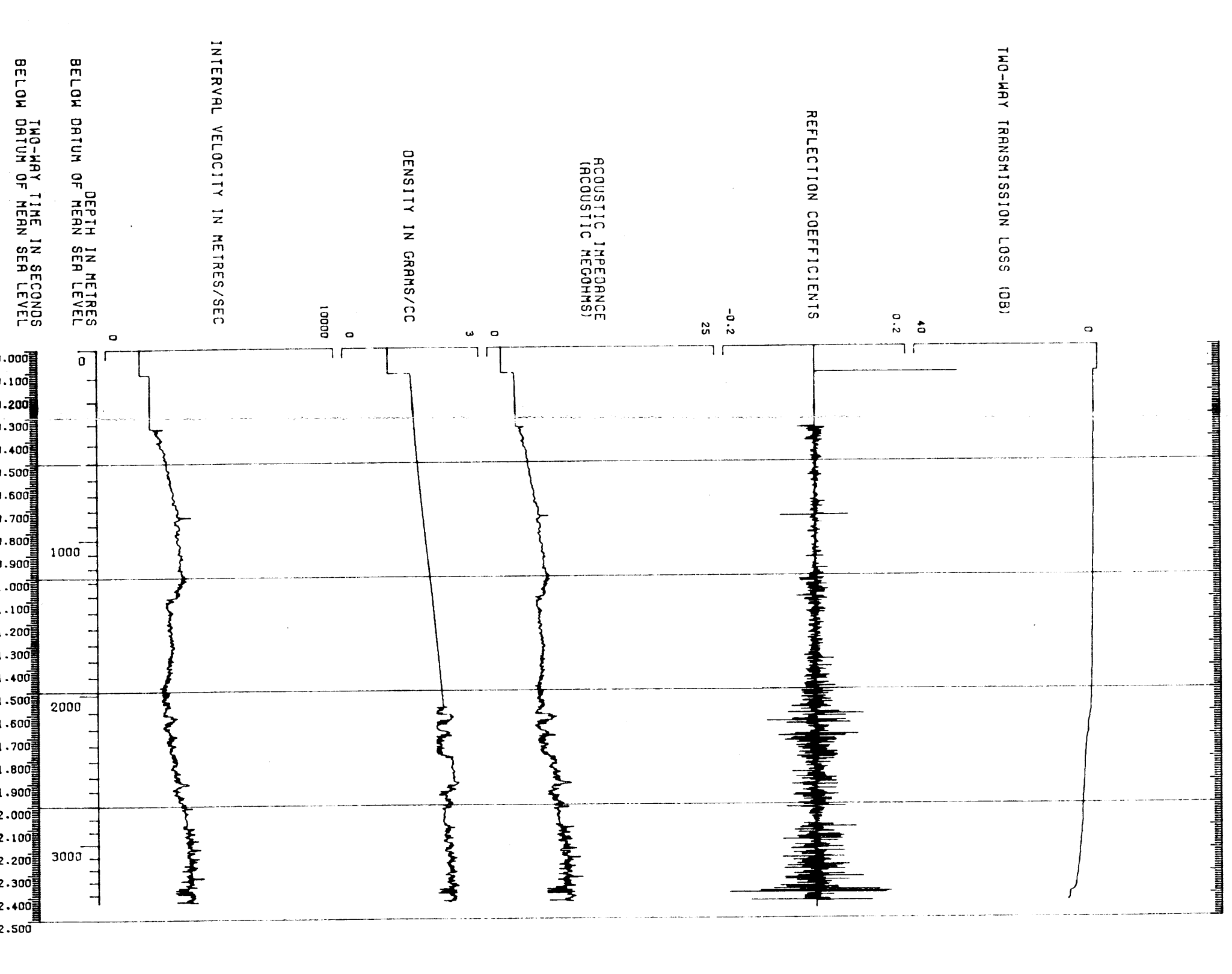
COUNTRY AUSTRALIA (OFFSHORE)

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

SOURCE OF PRINCIPAL DATA	CALIBRATED SONIC LOG
SOURCE OF SUPPLEMENTARY DATA	DENSITY, SEISMIC LINE CP91-63
SOURCE AND TYPE	AIRGUN ARRAY
DEPTH OF SOURCE	6 m
DEPTH OF DETECTOR	15 m
SYNTHETIC TIME-LAYER INTERVAL	.002s TWO-WAY
BASIC DATA DIGITISED	CONTINUOUSLY IN DEPTH
DEPTH SCALE	NON LINEAR IN METERS
TWO-WAY TIME SCALE	5 cm/s
DATUM	MEAN SEA LEVEL
WATER VELOCITY	1524 m/s
DEPTH OF WATER	86.9 m
VELOCITY MODEL:	Average velocity of 1969 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.

M 4634

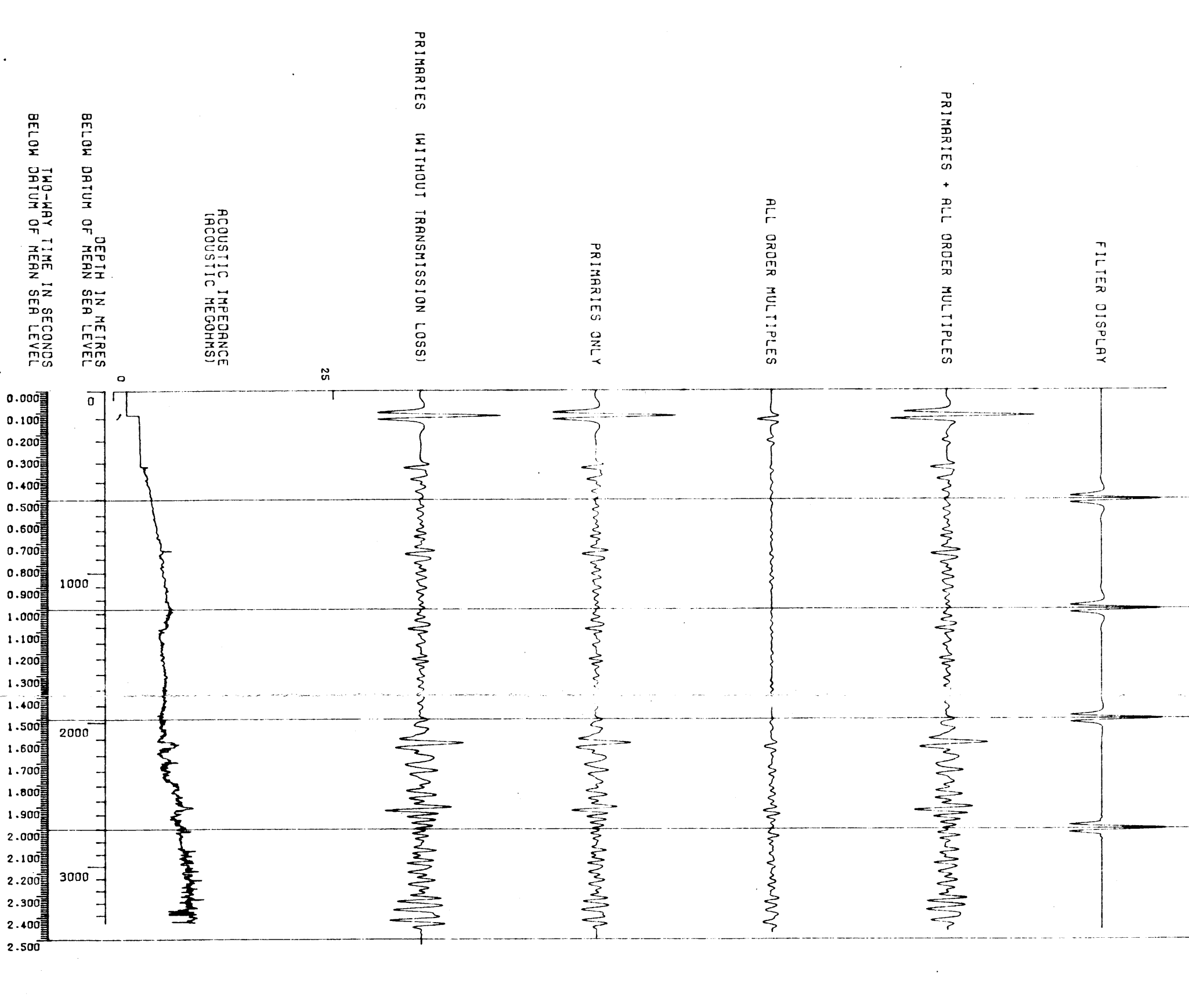


CONVOLUTION WITH A 25HZ ZERO PHASE RICKER WAVELET AND THE FOLLOWING TIME VARIANT BAND PASS FILTER

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

LINEAR OVERLAP BETWEEN FILTERS

CONVOLVED RESPONSES WITHOUT SOURCE GHOSTS

