



Geophysical Service International Limited

# SYNTHETIC SEISMOGRAM

## MARINE

FILING No. COMPANY UNION TEXAS AUSTRALIA, INC.

WELL: **PISCES No. 1**

FIELD: WILDCAT

COUNTRY: AUSTRALIA (OFFSHORE)

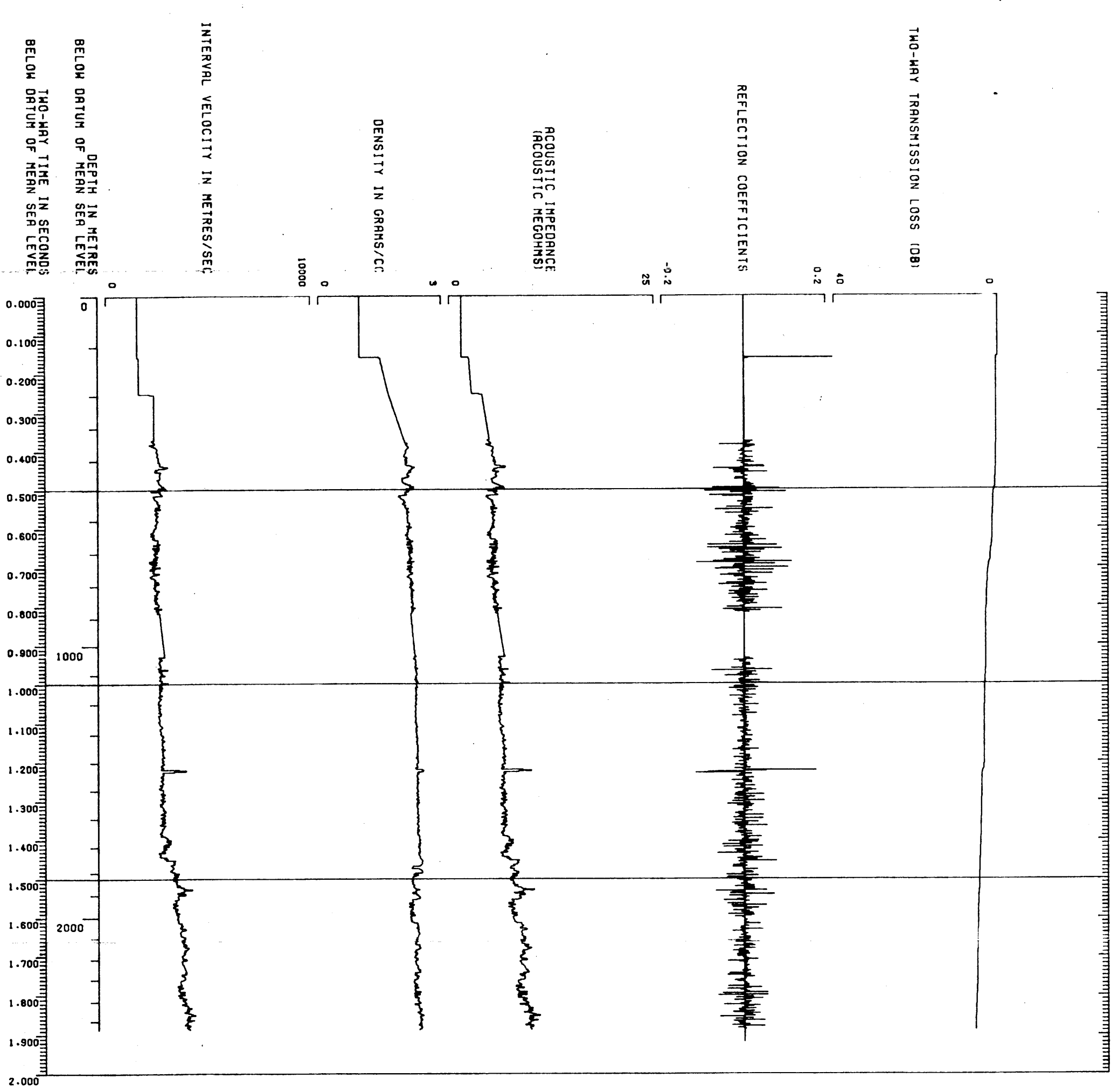
LOCATION: 39° 03' 37.055" S  
148° 30' 41.270" E

SOURCE OF PRINCIPAL DATA	CALIBRATED SONIC LOG
SOURCE OF SUPPLEMENTARY DATA	DENSITY LOG: LINE GC-80-11A
SOURCE AND TYPE	AIR GUN
DEPTH OF SOURCE	7 m
DEPTH OF DETECTOR	9-13 m (11 m assumed)
SYNTHETIC TIME-LAYER INTERVAL	.002 s TWO-WAY
BASIC DATA DIGITISED	CONTINUOUSLY IN DEPTH
DEPTH SCALE	NON-LINEAR IN METRES
TWO-WAY TIME SCALE	3.75 in/s
DATUM	MEAN SEA LEVEL
WATER VELOCITY	1524 m/s
DEPTH OF WATER	122 m
VELOCITY MODEL:	Depth in m below MSL      Velocity in m/s
	0 - 122      1524
	122 - 198      1609
	198 - top of sonic log      2349

REMARKS:

There is a gap in the calibrated sonic log between 886 and 1036 m below MSL. Ramped velocity and density models have been created in the gap. The reflection coefficients created by the velocity interfaces at 198 m below MSL, at the top of the sonic log and in the gap are unrealistic and have not been included in the Synthetic Seismogram.

M 4634



### SPIKE RESPONSES WITHOUT SOURCE GHOSTS

PRIMARYS + ALL ORDER MULTIPLE

ALL ORDER MULTIPLE

PRIMARYS ONLY

PRIMARYS (WITHOUT TRANSMISSION LOSS)

ACOUSTIC IMPEDANCE (ACOUSTIC MEGOHMS)

DEPTH IN METRES BELOW DATUM OF MEAN SEA LEVEL

TWO-WAY TIME IN SECONDS BELOW DATUM OF MEAN SEA LEVEL