

WELL : MUDSKIPPER-1  
 LOCATION : 038° 54' 31.500 S  
 148° 07' 55.800 E  
 COMPANY : PETROFINA EXPLORATION  
 AUSTRALIA S.A.



SYNTHETIC SEISMOGRAM (MARINE)  
 CONVOLVED RESPONSES (MINIMUM PHASE)

DATA PARAMETERS  
 ORIGINAL DATA : CALIBRATED SONIC LOG  
 SUPPLEMENTARY DATA : GEOPHYSICAL LOG  
 SEISMIC SECTION : CONTINUOUSLY IN DEPTH  
 LOG DATA DIGITISING : VSX SLEEVE GUNS  
 SOURCE TYPE : 6 M  
 SOURCE DEPTH : 215 TUD-HAY IN METRES  
 DETECTOR DEPTH : 200 TUD-HAY IN METRES  
 TIME-SCALE : 20 CM/SEC  
 TUD-HAY TIME SCALE : MSL  
 DATUM : 101 M  
 WATER DEPTH : 0.18  
 SURFACE REFLECTION COEFFICIENT : INCREASE IN ACOUSTIC IMPEDANCE  
 POLARITY : REPRESENTED BY A BLACK PEAK

VELOCITY MODEL  
 DEPTH (M BELOW MSL) VELOCITY (M/S)  
 0 - 101.0 1524.0  
 101.0 - 323.1 2149.0

CONVOLUTION WAVELET  
 55 HZ MINIMUM PHASE RICKER & THE FOLLOWING TIME VARIANT FILTER :  
 AT 0.0 S 24 90 HZ 8 72 DB/OCT  
 AT 2.0 S 24 80 HZ 8 72 DB/OCT  
 LINEAR OVERLAP BETWEEN FILTERS

REMARKS  
 THE REFLECTION COEFFICIENTS GENERATED AT THE TOP OF THE RECORDED LOG ARE CONSIDERED UNREALISTIC AND HAVE NOT BEEN INCLUDED IN THE PRODUCTION OF THE SYNTHETIC SEISMOGRAM

SEISMOGRAPH SERVICE - BOREHOLE GEOPHYSICS DIVISION

DIP - LITHOLOGY

