

DEPT. NAT. RES & ENV
PE601582

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

VERTICAL SEISMIC PROFILE
DISPLAY VG1
INTERPRETERS COMPOSITE
ZERO PHASE OPTIMUM FREQUENCY FILTER
POLARITY SEG REVERSE

POLARITY DESCRIPTION : INCREASE IN ACOUSTIC IMPEDANCE
REPRESENTED BY A BLACK PEAK
TIME SCALE : 20 CM/5
DEPTH SCALE : 1:10000
DATE PROCESSED : JULY 1990

FIELD ACQUISITION

SURVEY DATE : JUNE 1990
SOURCE : AIRGUN
SOURCE DEPTH : 5.0 M BELOW MSL
SOURCE OFFSET : 60.8 M
SOURCE DIRECTION : 170 DEG N
SOURCE MONITOR : NEAR FIELD HYDROPHONE
MONITOR DEPTH : 10.0 M BELOW MSL
WELL GEOPHONE : SAT
RECORDING EQUIPMENT : SCHLUMBERGER CSU
SAMPLE RATE : 1 MS
WATER DEPTH : 101.0 M
VSP DATUM : MSL
REFERENCE LEVEL : KB AT 27.0 M ABOVE MSL

VSP PROCESSING SEQUENCE

EDIT
AUTOMATED TRACE ALIGNMENT
STACK OF CONSTANT DEPTH TRACES
SOURCE SIGNATURE DECONVOLUTION (330 MS WINDOW)
AMPLITUDE RECOVERY PROPORTIONAL TO T
PRELIMINARY BANDPASS FILTER 3,5 - 100,130 HZ
DOWNGOING WAVE SUBTRACTION
FIRST ARRIVALS SHIFTED TO TWO-WAY TIME SUB DATUM
SPECIAL VSP DECONVOLUTION (700 MS DERIVATION WINDOW)
OPTIMUM BANDPASS FILTER 4,6 - 60,90 HZ
DIP FILTER (5 SAMPLE MEDIAN OPERATOR, 0 MS/TRACE DIP)
POST MEDIAN FILTER 3,5 - 70,100 HZ
TRACE EQUALISATION (50 MS WINDOW, 25 MS OVERLAP)
CORRIDOR STACK

PLUS
AS ABOVE EXCEPT DATA DISPLAYED BEFORE TRANSPOSITION

SYNTHETIC SEISMOGRAM PARAMETERS

DATA PARAMETERS
PRINCIPAL DATA : CALIBRATED SONIC LOG
SUPPLEMENTARY DATA : DENSITY LOG
SEISMIC SECTION : GF88C-19
LOG DATA DIGITISING : CONTINUOUSLY IN DEPTH
SOURCE TYPE : USX SLEEVE GUNS
SOURCE DEPTH : 6 M
DETECTOR DEPTH : 8 M
SYNTHETIC TIME-LAYER INTERVAL : 2MS TWO-WAY
DEPTH SCALE : NON-LINEAR IN METRES
TWO-WAY TIME SCALE : 20 CM/SEC
DATUM : MSL
WATER DEPTH : 101 M
SURFACE REFLECTION COEFFICIENT : 0.18

TRACES DISPLAYED : PRIMARIES + SHORT TERM MULTIPLES
(12 MS WINDOW)
PRIMARIES WITHOUT TRANSMISSION LOSS
CONVOLUTION WAVELET : ZERO PHASE OPTIMUM FILTER
4,6 - 60,90 HZ
POLARITY : INCREASE IN ACOUSTIC IMPEDANCE
REPRESENTED BY A BLACK PEAK

POLARITY - SEG REVERSE

SEISMOGRAPH SERVICE - BOREHOLE GEOPHYSICS DIVISION

