

Schlumberger

Vertical Seismic
Profile

COMPOSITE DISPLAY

Company: Cultus Petroleum NL
Well: Baleen-2
Field: Patricia-Baleen
State: Victoria
Country: Australia
SRD: MSL
Job Ref No.: 561295/561296

Source Type: Airgun
Offset: 40 m
Azimuth: 207 deg.

Correlation Curve GAMMA RAY

Correlation Curve INDUCTION RESISTIVITY

Correlation Curve NEUTRON POROSITY

Correlation Curve DENSITY

SONIC INTERVAL VELOCITY

ACOUSTIC IMPEDANCE

REFLECTION COEFFICIENT

Zero Phase
Ricker Wavelet
40 HZ
Increase in Acoustic Impedance is a Peak

Zero Phase
Ricker Wavelet
50 HZ
Increase in Acoustic Impedance is a Peak

Zero Phase
Ricker Wavelet
60 HZ
Increase in Acoustic Impedance is a Peak

Corridor Stack
200 ms corridor
Increase in Acoustic Impedance is a Peak

Plot #7 Composite Display (Reversed Polarity)

Processing Steps:

- (1) Load Data
- (2) Edit Bad Records
- (3) Z Component Median stack
- (4) Peak Break Time
- (5) Bandpass Filter : 5-140 HZ
- (6) Time Varying Gain : (T/T0)
- (7) Static Shifting to SRD : 0.0059 S
- (8) Wavefield Separation
(Mean Filter, 9 Levels, 1 Sample)
- (9) Waveshaping Deconvolution
(Decon Operator Created by Filtered
Unit Impulse, Bandwidth : 5-80 HZ,
Filter Length : 2.5 S
- (10) Upgoing Wavefield Enhancement
(Median Filter, 7 Levels, 1 Sample)
- (11) Corridor Stack : 0.2 S Window
(All Traces Except the Deepest 5)
- (12) Sonic Editing
- (13) Sonic Adjustment to VSP Transit Time
- (14) Synthetic Seismograms Calculation
(Convolution of Reflection Coefficient with
Zero Phase Ricker Wavelet : 40 HZ
Zero Phase Ricker Wavelet : 50 HZ
Zero Phase Ricker Wavelet : 60 HZ)

Display Parameters:
Scale: 20 cm/s
Normal Polarity: Increase in Acoustic Impedance is a Peak

