

Vertical Seismic Profile

Schlumberger

Z-AXIS

PROCESSING STEPS

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

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

Plot #2 Downgoing Wavefield after VELF
 Plot #3 Upgoing Wavefield after VELF

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 : (1/T⁰)
- (7) Static Shifting to SRD : 0.0059 S
- (8) Wavefield Separation
 (Mean Filter, 9 Traces, 1 Sample)

Plot #4 Downgoing Wavefield after WSF
 Plot #5 Upgoing Wavefield after WSF and Upgoing Enhancement

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 : (1/T⁰)
- (7) Static Shifting to SRD : 0.0059 S
- (8) Wavefield Separation
 (Mean Filter, 9 Traces, 1 Sample)
- (9) Waveshaping Deconvolution
 (Decon Operator Created by Filtered
 Unit Impulse, 5-80 HZ
 Filter Length : 2 S)
- (10) Upgoing Wavefield Enhancement
 (Median Filter, 7 Traces, 1 Sample)

DISPLAY PARAMETER:

Scale: 20 cm / sec
 trace offset: Depth
 Normal Polarity: Increase in Acoustic Impedance is a Trough

