

COMPOSITE DISPLAY 1

Company : Esso Australia Pty Ltd
Well : Scallop-1
Field : Exploration
Country : Australia
State : Offshore VIC
Permit : VIC/RL2
SRD : MSL

Normal Polarity

Corridor Stack 100 ms Corridor Quad Phase (90 Degrees Phase Rotation)
Increase in Acoustic Impedance is preceded by a Trough and followed by a Peak

Corridor Stack 100 ms Corridor Zero Phase
Increase in Acoustic Impedance is a Trough

VSP - Enhanced Upgoing Wavefield

Processing Steps:

- (0) Load Data
- (1) Edit Bad Records
- (2) Pick Reference Break
- (3) Z Component Median Stack
- (4) Geophone Transform
- (5) Pick Break Time
- (6) Bandpass Filter: 5-120 Hz
- (7) Time Varying Gain: (T/T0)^{1.5}
- (8) Normalisation: Window 200ms
- (9) Wavefield Separation: Velocity Filter 5 Level Tuckey
- (10) Tube Wave Noise removal
- (11) Waveshaping Deconvolution: 5/80Hz Zero Phase
- (12) static Shift to SRD: +6.6 ms
- (13) NMO Correction
- (14) Upgoing Enhancement: Velocity Filter 3 Level Tuckey
- (15) Corridor Stack: 100ms Window + Deepest 10 Traces

Display Parameters:
Scale: 20 cm/s
Normal Polarity (Zero Phase) : Increase in Acoustic Impedance is a Trough

Composite Display with Surface Seismic

Processing Steps:

Seismic Line: Kipper 99 Survey, Inline 1025
Well Location on Line: CDP 1330

Corridor Stack is displayed in Quad Phase with :

(a) No Bandpass Filter / Static Shift

(b) Bandpass Filter 5-50 Hz
Static Shift + 6ms

Display Parameters:
Scale: 20 cm/s
Normal Polarity (Quad Phase / 90 Deg Phase Rotation) :
Increase in Acoustic Impedance is preceded by a Trough
and followed by a Peak

