Schlumberger

VSP GEOGRAM

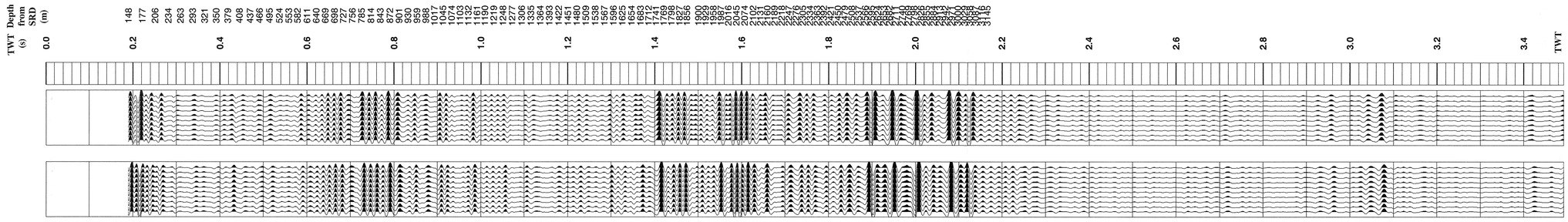
COMPOSITE DISPLAY 2

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

Reverse Polarity

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

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

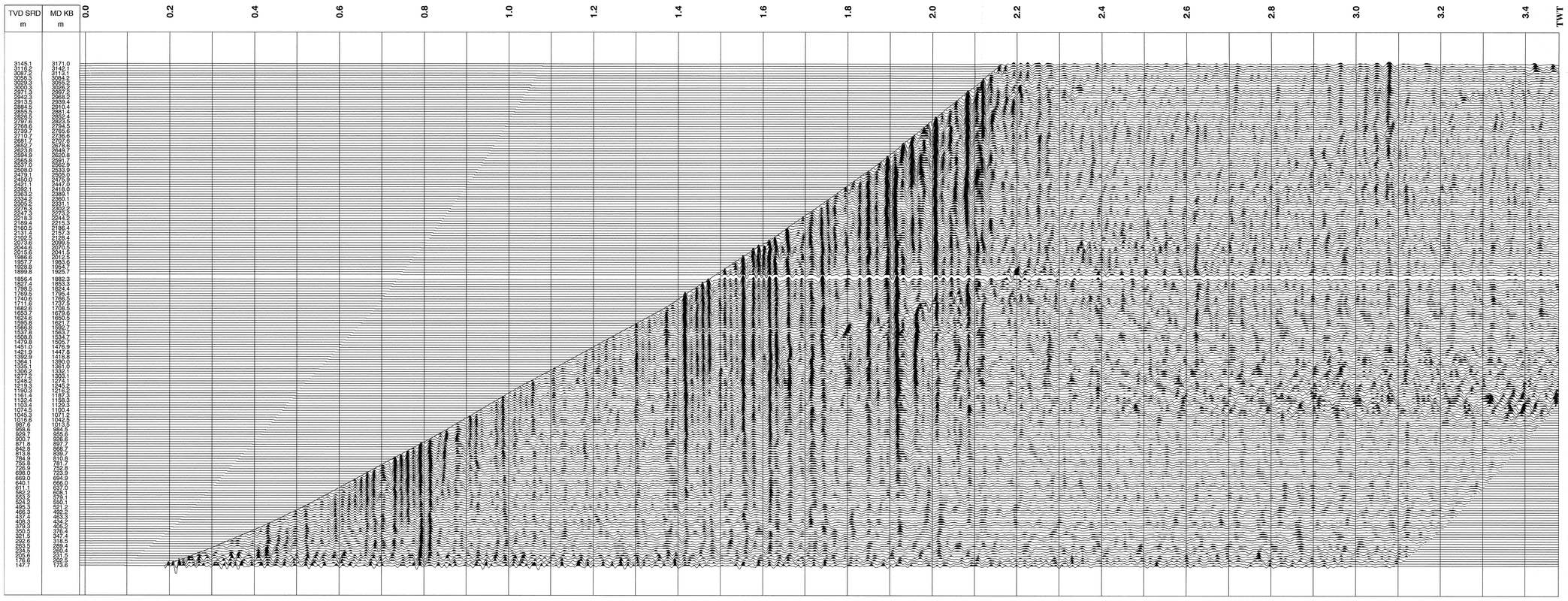


VSP - Enhanced Upgoing Wavefield

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
Reverse Polarity (Zero Phase) : Increase in Acoustic Impedance is a Peak



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
Reverse Polarity (Quad Phase / 90 Deg Phase Rotation) :
Increase in Acoustic Impedance is preceded by a Peak and followed by a Trough