

SEISMOGRAPH SERVICE LIMITED

OIL and GAS DIVISION

COMPANY : PHILLIPS AUSTRALIAN OIL CO.
 WELL : SELENE NO. 1
 LOCATION : 38° 37' 24.97"S
 : 148° 26' 11.51"E



DISPLAY : VSP UPGOING EVENTS
 SPECIAL VSP DECONVOLUTION
 POLARITY 2

TIME SCALE : 15 = 10CMS
 DEPTH SCALE : 10 TRACES/INCH
 DATE PROCESSED : FEBRUARY 1983

FIELD ACQUISITION

DATE SHOT : 6.2.83
 SOURCE : SINGLE BOLT AIRGUN(120CU. IN)
 SOURCE DEPTH : 4.5M BELOW MSL
 GUN PRESSURE : 2000PSI
 SOURCE MONITOR : NEAR FIELD HYDROPHONE
 MONITOR DEPTH : 7.5M BELOW MSL
 WELL GEOPHONE : GCH 100HT
 RECORDING EQUIPMENT : DWS
 SAMPLE RATE : 1MS
 SURFACE ELEVATION : /
 WATER DEPTH : 253M
 VSP DATUM : MSL
 DEPTH REFERENCE LEVEL : KB, 23M AMSL

PROCESSING SEQUENCE

- S1. EDIT
 AUTOMATED TRACE ALIGNMENT
 VERTICAL STACK OF CONSTANT DEPTH TRACES
 SOURCE SIGNATURE DECONVOLUTION(310MS DERIVATION)
 AMPLITUDE RECOVERY Txx1.0
 FIRST ARRIVALS SHIFTED TO TWO-WAY TIME SUB DATUM
 DOWNGOING WAVE SUBTRACTION
 SPECIAL VSP DECONVOLUTION (1050MS DERIVATION WINDOW)
 BANDPASS FILTER(1-5,70-88HZ).
 - S2. AS FOR S1 PLUS
 9:1 MEDIAN PICK
 BANDPASS FILTER(1-5,70-88HZ)
 - S3. AS FOR S2 EXCEPT
 BANDPASS FILTER BEFORE AND AFTER MEDIAN PICK REPLACED BY
 TIME VARIANT FILTER FROM SEISMIC SECTION (LINE GP81-91)
 (11-15,55-89HZ 0.00-1.535
 8-10,50-82HZ AT 1.835
 1-5,45-56HZ AT 2.135
 1-5,40-50HZ 2.735 TO END OF DATA)
- S1-S3 TRACE EQUALISATION (500MS WINDOW, 250MS OVERLAP)
 PRIOR TO DISPLAY

POLARITY 2 :
 AN UPGOING COMPRESSION WAVE IS REPRESENTED BY A BLACK PEAK
 THE DOWNGOING FIRST ARRIVAL COMPRESSION WAVE IS A WHITE TROUGH

S1

S2

S3

LEVEL NO.
 DEPTH IN M.
 BELOW KB

LEVEL NO.
 DEPTH IN M.
 BELOW KB

LOG VELOCITY SCALE

VELOCITY IN M/S

VERTICAL DEPTH
 BELOW KB IN METRES

VERTICAL DEPTH
 BELOW KB IN METRES

TIME IN SECONDS

