

Schlumberger SYDNEY LOG INTERPRETATION CENTRE

VERTICAL SEISMIC PROFILE

ZERO OFFSET VSP
COMPRESSIONAL & SHEAR
VSP FROM HORIZONTAL

PLOT NO 13

Company: LASMO ENERGY AUSTRALIA LTD

Well: PATRICKA - 1

Field: PATRICKA

Country: AUSTRALIA

Reference No: 570705 Interval: 445.00 to 895.00

Date Logged: 04/07/87 Date Processed: 06/07/87

Location: 039° 07' 53.23" S 148° 26' 48.82" E

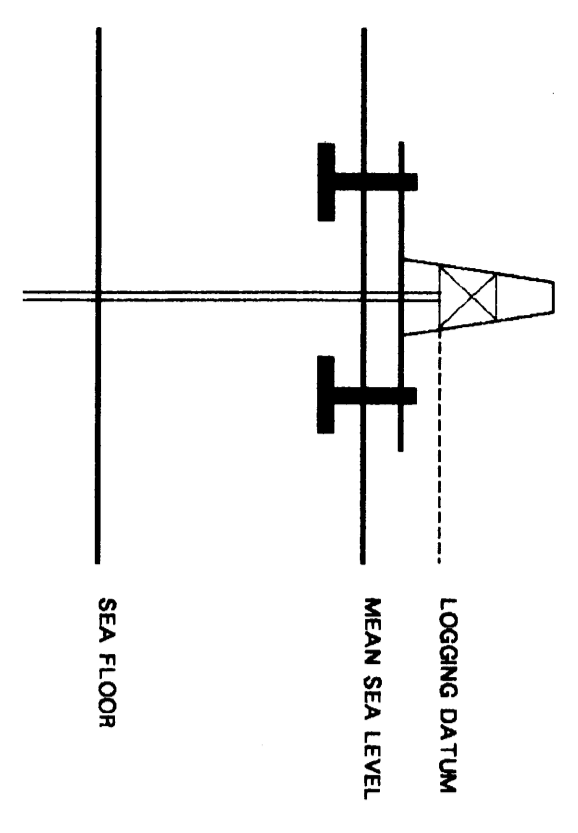
Elevations: KB: 22.0 M DF: 217 M GL: -51.0 M

Permanent Datum: MSI Depth Units: METRES

FIELD RECORDING: Engineer: K. MULLEN Location: VEA Program Version: 28.485

COMPUTATION: Analyst: M. SAMBERS Centre: SVJ Barcodes: 19442834

Logging Datum: 22 M
ELEVATION ABOVE MEAN SEA LEVEL
Seismic Reference Datum: MSI
Ground Level: -51 M



Total Number of Levels: 32 (895 to 445 metres)

Depth Reference: SRD

| Run | Date | Tool Type | Bit Size/Depth | Casing Size/Depth | Top Depth | Bottom Depth |
|-----|----------|-----------|-----------------|-------------------|----------------|--------------|
| 1 | 29/06/87 | BHC | 7 1/2" @ 441 M | 20" @ 218 M | 218 | 642 |
| 2 | 03/07/87 | SLS | 12 1/4" @ 888 M | 13 3/8" @ 441 M | 441 M | 898 M |
| 1 | 04/07/87 | 80 M | 80 M | 5 M below MSI | 10 M below MSI | 248 v |

REMARKS

The well name, location and borehole reference data were furnished by the customer.

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be responsible for any damage or expense incurred or sustained by anyone resulting from any interpretations made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

*** VELOCITY FILTER ***
horizontal components
MAXIMUM HORIZONTAL SHEAR ENERGY
RESIDUAL WAVEFIELD
PROCESSING SEQUENCE:
MEDIAN COHERENCY STACK APPLIED
NO. STAGG CORRECTION TO MSI: 5.50 HZ
BAND PASS FILTER : 5.400 HZ
NORMALIZATION GAIN : T/10**1.22
TIME VARYING GAIN :
DOWNGOING SHEAR WAVEFIELD SUBTRACTION
RESIDUAL SHEAR WAVEFIELD

*** VELOCITY FILTER ***
horizontal components
MAXIMUM HORIZONTAL SHEAR ENERGY
ENHANCED UPGOING P WAVEFIELD
PROCESSING SEQUENCE:
MEDIAN COHERENCY STACK APPLIED
NO. STAGG CORRECTION TO MSI: 5.50 HZ
BAND PASS FILTER : 5.400 HZ
NORMALIZATION GAIN : T/10**1.22
TIME VARYING GAIN :
DOWNGOING SHEAR WAVEFIELD SUBTRACTION
ENHANCED UPGOING SHEAR WAVEFIELD

*** VELOCITY FILTER ***
horizontal components
MAXIMUM HORIZONTAL SHEAR ENERGY
ENHANCED UPGOING P WAVEFIELD
PROCESSING SEQUENCE:
MEDIAN COHERENCY STACK APPLIED
NO. STAGG CORRECTION TO MSI: 5.50 HZ
BAND PASS FILTER : 5.400 HZ
NORMALIZATION GAIN : T/10**1.22
TIME VARYING GAIN :
DOWNGOING SHEAR WAVEFIELD SUBTRACTION
ENHANCED UPGOING P WAVEFIELD

| | | | |
|-------|-------|-------|----|
| 445.0 | 0.415 | 0.213 | 15 |
| 447.5 | 0.415 | 0.213 | 15 |
| 450.0 | 0.415 | 0.213 | 15 |
| 452.5 | 0.415 | 0.213 | 15 |
| 455.0 | 0.415 | 0.213 | 15 |
| 457.5 | 0.415 | 0.213 | 15 |
| 460.0 | 0.415 | 0.213 | 15 |
| 462.5 | 0.415 | 0.213 | 15 |
| 465.0 | 0.415 | 0.213 | 15 |
| 467.5 | 0.415 | 0.213 | 15 |
| 470.0 | 0.415 | 0.213 | 15 |
| 472.5 | 0.415 | 0.213 | 15 |
| 475.0 | 0.415 | 0.213 | 15 |
| 477.5 | 0.415 | 0.213 | 15 |
| 480.0 | 0.415 | 0.213 | 15 |
| 482.5 | 0.415 | 0.213 | 15 |
| 485.0 | 0.415 | 0.213 | 15 |
| 487.5 | 0.415 | 0.213 | 15 |
| 490.0 | 0.415 | 0.213 | 15 |
| 492.5 | 0.415 | 0.213 | 15 |
| 495.0 | 0.415 | 0.213 | 15 |
| 497.5 | 0.415 | 0.213 | 15 |
| 500.0 | 0.415 | 0.213 | 15 |
| 502.5 | 0.415 | 0.213 | 15 |
| 505.0 | 0.415 | 0.213 | 15 |
| 507.5 | 0.415 | 0.213 | 15 |
| 510.0 | 0.415 | 0.213 | 15 |
| 512.5 | 0.415 | 0.213 | 15 |
| 515.0 | 0.415 | 0.213 | 15 |
| 517.5 | 0.415 | 0.213 | 15 |
| 520.0 | 0.415 | 0.213 | 15 |
| 522.5 | 0.415 | 0.213 | 15 |
| 525.0 | 0.415 | 0.213 | 15 |
| 527.5 | 0.415 | 0.213 | 15 |
| 530.0 | 0.415 | 0.213 | 15 |
| 532.5 | 0.415 | 0.213 | 15 |
| 535.0 | 0.415 | 0.213 | 15 |
| 537.5 | 0.415 | 0.213 | 15 |
| 540.0 | 0.415 | 0.213 | 15 |
| 542.5 | 0.415 | 0.213 | 15 |
| 545.0 | 0.415 | 0.213 | 15 |
| 547.5 | 0.415 | 0.213 | 15 |
| 550.0 | 0.415 | 0.213 | 15 |
| 552.5 | 0.415 | 0.213 | 15 |
| 555.0 | 0.415 | 0.213 | 15 |
| 557.5 | 0.415 | 0.213 | 15 |
| 560.0 | 0.415 | 0.213 | 15 |
| 562.5 | 0.415 | 0.213 | 15 |
| 565.0 | 0.415 | 0.213 | 15 |
| 567.5 | 0.415 | 0.213 | 15 |
| 570.0 | 0.415 | 0.213 | 15 |
| 572.5 | 0.415 | 0.213 | 15 |
| 575.0 | 0.415 | 0.213 | 15 |
| 577.5 | 0.415 | 0.213 | 15 |
| 580.0 | 0.415 | 0.213 | 15 |
| 582.5 | 0.415 | 0.213 | 15 |
| 585.0 | 0.415 | 0.213 | 15 |
| 587.5 | 0.415 | 0.213 | 15 |
| 590.0 | 0.415 | 0.213 | 15 |
| 592.5 | 0.415 | 0.213 | 15 |
| 595.0 | 0.415 | 0.213 | 15 |
| 597.5 | 0.415 | 0.213 | 15 |
| 600.0 | 0.415 | 0.213 | 15 |
| 602.5 | 0.415 | 0.213 | 15 |
| 605.0 | 0.415 | 0.213 | 15 |
| 607.5 | 0.415 | 0.213 | 15 |
| 610.0 | 0.415 | 0.213 | 15 |
| 612.5 | 0.415 | 0.213 | 15 |
| 615.0 | 0.415 | 0.213 | 15 |
| 617.5 | 0.415 | 0.213 | 15 |
| 620.0 | 0.415 | 0.213 | 15 |
| 622.5 | 0.415 | 0.213 | 15 |
| 625.0 | 0.415 | 0.213 | 15 |
| 627.5 | 0.415 | 0.213 | 15 |
| 630.0 | 0.415 | 0.213 | 15 |
| 632.5 | 0.415 | 0.213 | 15 |
| 635.0 | 0.415 | 0.213 | 15 |
| 637.5 | 0.415 | 0.213 | 15 |
| 640.0 | 0.415 | 0.213 | 15 |
| 642.5 | 0.415 | 0.213 | 15 |
| 645.0 | 0.415 | 0.213 | 15 |
| 647.5 | 0.415 | 0.213 | 15 |
| 650.0 | 0.415 | 0.213 | 15 |
| 652.5 | 0.415 | 0.213 | 15 |
| 655.0 | 0.415 | 0.213 | 15 |
| 657.5 | 0.415 | 0.213 | 15 |
| 660.0 | 0.415 | 0.213 | 15 |
| 662.5 | 0.415 | 0.213 | 15 |
| 665.0 | 0.415 | 0.213 | 15 |
| 667.5 | 0.415 | 0.213 | 15 |
| 670.0 | 0.415 | 0.213 | 15 |
| 672.5 | 0.415 | 0.213 | 15 |
| 675.0 | 0.415 | 0.213 | 15 |
| 677.5 | 0.415 | 0.213 | 15 |
| 680.0 | 0.415 | 0.213 | 15 |
| 682.5 | 0.415 | 0.213 | 15 |
| 685.0 | 0.415 | 0.213 | 15 |
| 687.5 | 0.415 | 0.213 | 15 |
| 690.0 | 0.415 | 0.213 | 15 |
| 692.5 | 0.415 | 0.213 | 15 |
| 695.0 | 0.415 | 0.213 | 15 |
| 697.5 | 0.415 | 0.213 | 15 |
| 700.0 | 0.415 | 0.213 | 15 |
| 702.5 | 0.415 | 0.213 | 15 |
| 705.0 | 0.415 | 0.213 | 15 |
| 707.5 | 0.415 | 0.213 | 15 |
| 710.0 | 0.415 | 0.213 | 15 |
| 712.5 | 0.415 | 0.213 | 15 |
| 715.0 | 0.415 | 0.213 | 15 |
| 717.5 | 0.415 | 0.213 | 15 |
| 720.0 | 0.415 | 0.213 | 15 |
| 722.5 | 0.415 | 0.213 | 15 |
| 725.0 | 0.415 | 0.213 | 15 |
| 727.5 | 0.415 | 0.213 | 15 |
| 730.0 | 0.415 | 0.213 | 15 |
| 732.5 | 0.415 | 0.213 | 15 |
| 735.0 | 0.415 | 0.213 | 15 |
| 737.5 | 0.415 | 0.213 | 15 |
| 740.0 | 0.415 | 0.213 | 15 |
| 742.5 | 0.415 | 0.213 | 15 |
| 745.0 | 0.415 | 0.213 | 15 |
| 747.5 | 0.415 | 0.213 | 15 |
| 750.0 | 0.415 | 0.213 | 15 |
| 752.5 | 0.415 | 0.213 | 15 |
| 755.0 | 0.415 | 0.213 | 15 |
| 757.5 | 0.415 | 0.213 | 15 |
| 760.0 | 0.415 | 0.213 | 15 |
| 762.5 | 0.415 | 0.213 | 15 |
| 765.0 | 0.415 | 0.213 | 15 |
| 767.5 | 0.415 | 0.213 | 15 |
| 770.0 | 0.415 | 0.213 | 15 |
| 772.5 | 0.415 | 0.213 | 15 |
| 775.0 | 0.415 | 0.213 | 15 |
| 777.5 | 0.415 | 0.213 | 15 |
| 780.0 | 0.415 | 0.213 | 15 |
| 782.5 | 0.415 | 0.213 | 15 |
| 785.0 | 0.415 | 0.213 | 15 |
| 787.5 | 0.415 | 0.213 | 15 |
| 790.0 | 0.415 | 0.213 | 15 |
| 792.5 | 0.415 | 0.213 | 15 |
| 795.0 | 0.415 | 0.213 | 15 |
| 797.5 | 0.415 | 0.213 | 15 |
| 800.0 | 0.415 | 0.213 | 15 |
| 802.5 | 0.415 | 0.213 | 15 |
| 805.0 | 0.415 | 0.213 | 15 |
| 807.5 | 0.415 | 0.213 | 15 |
| 810.0 | 0.415 | 0.213 | 15 |
| 812.5 | 0.415 | 0.213 | 15 |
| 815.0 | 0.415 | 0.213 | 15 |
| 817.5 | 0.415 | 0.213 | 15 |
| 820.0 | 0.415 | 0.213 | 15 |
| 822.5 | 0.415 | 0.213 | 15 |
| 825.0 | 0.415 | 0.213 | 15 |
| 827.5 | 0.415 | 0.213 | 15 |
| 830.0 | 0.415 | 0.213 | 15 |
| 832.5 | 0.415 | 0.213 | 15 |
| 835.0 | 0.415 | 0.213 | 15 |
| 837.5 | 0.415 | 0.213 | 15 |
| 840.0 | 0.415 | 0.213 | 15 |
| 842.5 | 0.415 | 0.213 | 15 |
| 845.0 | 0.415 | 0.213 | 15 |
| 847.5 | 0.415 | 0.213 | 15 |
| 850.0 | 0.415 | 0.213 | 15 |
| 852.5 | 0.415 | 0.213 | 15 |
| 855.0 | 0.415 | 0.213 | 15 |
| 857.5 | 0.415 | 0.213 | 15 |
| 860.0 | 0.415 | 0.213 | 15 |
| 862.5 | 0.415 | 0.213 | 15 |
| 865.0 | 0.415 | 0.213 | 15 |
| 867.5 | 0.415 | 0.213 | 15 |
| 870.0 | 0.415 | 0.213 | 15 |
| 872.5 | 0.415 | 0.213 | 15 |
| 875.0 | 0.415 | 0.213 | 15 |
| 877.5 | 0.415 | 0.213 | 15 |
| 880.0 | 0.415 | 0.213 | 15 |
| 882.5 | 0.415 | 0.213 | 15 |
| 885.0 | 0.415 | 0.213 | 15 |
| 887.5 | 0.415 | 0.213 | 15 |
| 890.0 | 0.415 | 0.213 | 15 |
| 892.5 | 0.415 | 0.213 | 15 |
| 895.0 | 0.415 | 0.213 | 15 |

| | | | |
|-------|-------|-------|------|
| 445.0 | 0.417 | 0.222 | 15 |
| 447.5 | 0.417 | 0.222 | 15 |
| 450.0 | 0.417 | 0.222 | 15 |
| 452.5 | 0.417 | 0.222 | 15 |
| 455.0 | 0.417 | 0.222 | 15 |
| 457.5 | 0.417 | 0.222 | 15 |
| 460.0 | 0.417 | 0.222 | 15 |
| 462.5 | 0.417 | 0.222 | 15 |
| 465.0 | 0.417 | 0.222 | 15 |
| 467.5 | 0.417 | 0.222 | 15 |
| 470.0 | 0.417 | 0.222 | 15 |
| 472.5 | 0.417 | 0.222 | 15 |
| 475.0 | 0.417 | 0.222 | 15 |
| 477.5 | 0.417 | 0.222 | 15 |
| 480.0 | 0.417 | 0.222 | 15 |
| 482.5 | 0.417 | 0.222 | 15 |
| 485.0 | 0.417 | 0.222 | 15 |
| 487.5 | 0.417 | 0.222 | 15 |
| 490.0 | 0.417 | 0.222 | 15 |
| 492.5 | 0.417 | 0.222 | 15 |
| 495.0 | 0.417 | 0.222 | 15 |
| 497.5 | 0.417 | 0.222 | 15 |
| 500.0 | 0.417 | 0.222 | 15 |
| 502.5 | 0.417 | 0.222 | 15 |
| 505.0 | 0.417 | 0.222 | 15 |
| 507.5 | 0.417 | 0.222 | 15 |
| 510.0 | 0.417 | 0.222 | 15 |
| 512.5 | 0.417 | 0.222 | 15 |
| 515.0 | 0.417 | 0.222 | 15 |
| 517.5 | 0.417 | 0.222 | 15 |
| 520.0 | 0.417 | 0.222 | 15 |
| 522.5 | 0.417 | 0.222 | 15 |
| 525.0 | 0.417 | 0.222 | 15 |
| 527.5 | 0.417 | 0.222 | 15 |
| 530.0 | 0.417 | 0.222 | 15 |
| 532.5 | 0.417 | 0.222 | 15 |
| 535.0 | 0.417 | 0.222 | 15 |
| 537.5 | 0.417 | 0.222 | 15 |
| 540.0 | 0.417 | 0.222 | 15 |
| 542.5 | 0.417 | 0.222 | 15 |
| 545.0 | 0.417 | 0.222 | 15 |
| 547.5 | 0.417 | 0.222 | 15 |
| 550.0 | 0.417 | 0.222 | 15 |
| 552.5 | 0.417 | 0.222 | 15 |
| 555.0 | 0.417 | 0.222 | 15 |
| 557.5 | 0.417 | 0.222 | 15 |
| 560.0 | 0.417 | 0.222 | 15 |
| 562.5 | 0.417 | 0.222 | 15 |
| 565.0 | 0.417 | 0.222 | 15 |
| 567.5 | 0.417 | 0.222 | 15 |
| 570.0 | 0.417 | 0.222 | 15 |
| 572.5 | 0.417 | 0.222 | 15 |
| 575.0 | 0.417 | 0.222 | 15 |
| 577.5 | 0.417 | 0.222 | 15 |
| 580.0 | 0.417 | 0.222 | 15 |
| 582.5 | 0.417 | 0.222 | 15 |
| 585.0 | 0.417 | 0.222 | 15 |
| 587.5 | 0.417 | 0.222 | 15 |
| 590.0 | 0.417 | 0.222 | 15</ |