

Schlumberger

MELBOURNE LOG INTERPRETATION CENTRE

# GEOGRAM\*

(Synthetic Seismogram)

Company: BHP PETROLEUM  
 Well: MINERVA -2A  
 Field: WILDCAT  
 Country: AUSTRALIA  
 Reference No: 560960 Interval: 2160.00 to 600.00  
 Date Logged: 14-OCT-1993 Date Processed: 23/10/93  
 Location: 142 57' 20.80" N 38 43' 04.54" E  
 Elevations: KB: 25.30 DF: 25.00 GL: -85.00  
 Permanent Datum: MSL Depth Units: METRES

**LOG INFORMATION**

FIELD RECORDING Engineer: M HELWIG Location Program Version 32.2  
 COMPUTATION Analyst: Z KATELIS Centre: SVJ Baseline 20.4

**ELEVATION ABOVE MEAN SEA LEVEL**

Logging Datum: 25.00  
 Seismic Reference Datum: 0.00

Sonic Calibration By Check Shots: YES Sonic Edited By Analyst: YES

Two-Way Time Sample Interval: 2 ms Environment:

True Vertical Depth Corrections Applied:  
 Source of True Vertical Depth Data:  
 Maximum Hole Deviation: 0

Run	Date	Tool Type	Bit Size/ Depth	Casing Size/ Depth	Top Depth	Bottom Depth
VSP Run	Date	Gun Offset	Hydro Offset	Gun Elevation	Hydro Elevation	Gun Azimuth
1	14-10-93	47 M	47 M	5 BELOW MSL	12 M BELOW MSL	50 0

**GEOGRAM MODEL ASSUMPTIONS**

Equal time slice model of horizontal plane layers.  
 Plane acoustic waves at normal incidence.  
 No intrinsic attenuation.

**POLARITY**

An upgoing wave, reflected by an increase in acoustic impedance with depth, is displayed as a white trough under normal polarity.

**SIGNATURES**

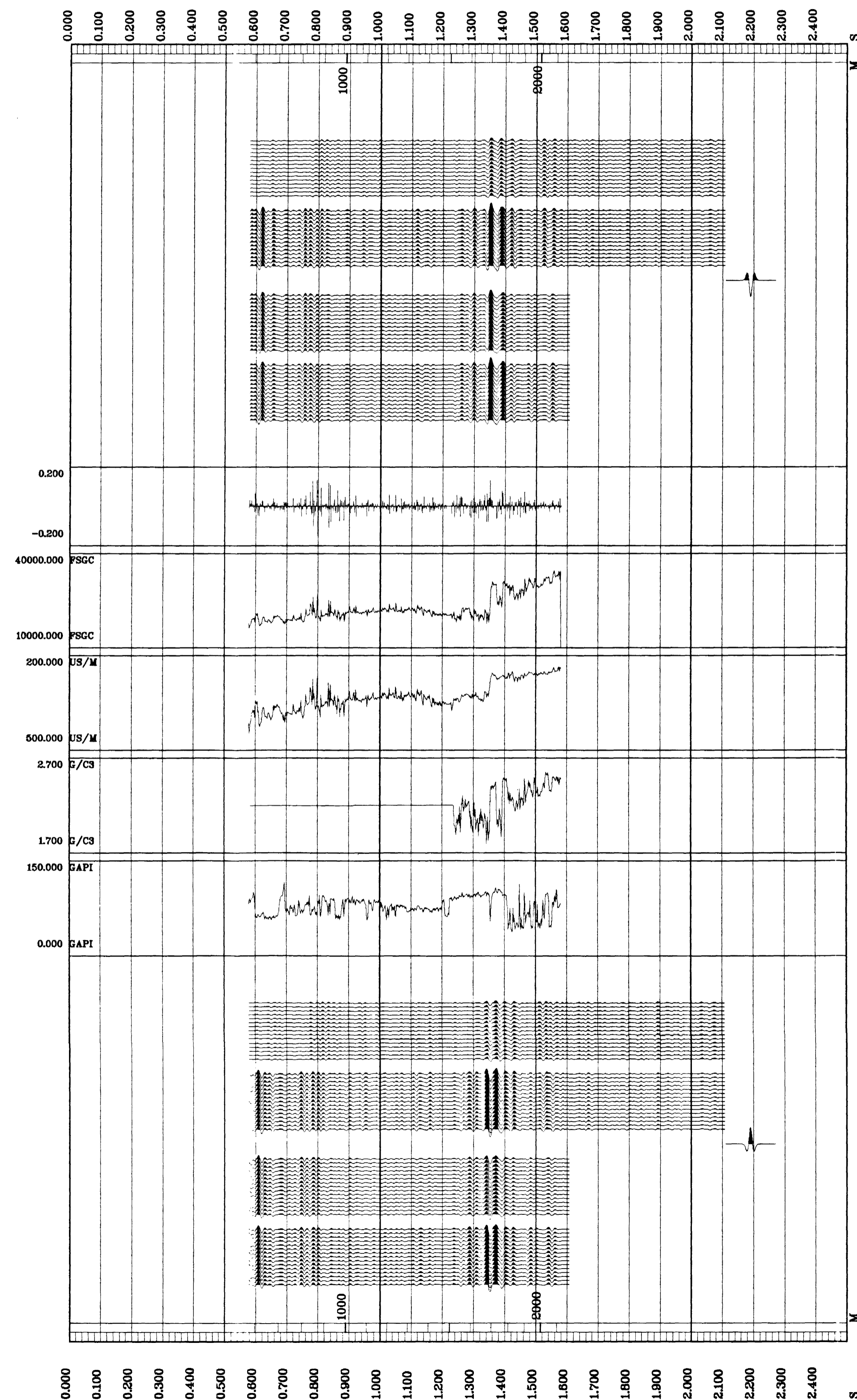
All signatures displayed in the Geogram results correspond to a wavelet convolved with a reflection coefficient of -0.5 (A decrease in acoustic impedance with depth).

**REMARKS**

The well name, location and borehole reference data were furnished by the customer. All interpretations are opinions based on references 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 liable or responsible for any loss, costs, damages or expenses 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.

**\*\* GEOGRAM \*\***  
**35 HERTZ ZERO PHASE RICKER WAVELET**  
 VERTICAL SCALE = 10 CM/SEC

- MULTIPLES ONLY REVERSE POLARITY
- PRIMARIES AND MULTIPLES REVERSE POLARITY
- PRIMARIES WITH TRANSMISSION LOSS REVERSE POLARITY
- PRIMARIES REVERSE POLARITY
- REFLECTION
- ACOUSTIC IMPEDANCE
- SONIC
- DENSITY
- GAMMA RAY
- MULTIPLES ONLY NORMAL POLARITY
- PRIMARIES AND MULTIPLES NORMAL POLARITY
- PRIMARIES WITH TRANSMISSION LOSS NORMAL POLARITY
- PRIMARIES NORMAL POLARITY



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 FIELD WILDCAT  
 WELL MINERVA -2A  
 COUNTRY AUSTRALIA

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