



# GEOGRAM\*

(Synthetic Seismogram)

\* A Mark of Schlumberger

Company: **ESSO AUSTRALIA LTD.** **35 Hz**  
 Well: **ORANGE ROUGHY 1**  
 Field: **WILDCAT**  
 Country: **AUSTRALIA**  
 Reference No: **SYJ.561133/561134** Interval: **2614.00 to 164.00**  
 Date Logged: **27-JUN-1995** Date Processed: **21-JULY-1995**  
 Location: **038 34' 56.99" S** **148 02' 30.99" E**  
 Elevations: **KB: 25.00 DF: 24.70 GL: -75.00**  
 Permanent Datum: **MSL** Depth Units: **METRES**

**LOG INFORMATION**

FIELD RECORDING: Engineer: **P.M. LUBRANO** Location: **VEA** Program Version: **700-427**

COMPUTATION: Analyst: **A. WISSONO** Centre: **SYJ** Baseline: **20.5**

**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
ONE	18-JUN-1995	AS-LDL	17.5 IN		62 M	753 M
TWO	26-JUN-1995	DL-LDL-AS	12.25 IN		741 M	2806 M

VSP Run	Date	Gun Offset	Hydro Offset	Gun Elevation	Hydro Elevation	Gun Azimuth	Hydro Azimuth
ONE	27-06-1995	50 M	50 M	5 M BELOW MSL	10 M BELOW MSL	248 DEG	248 DEG

**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**

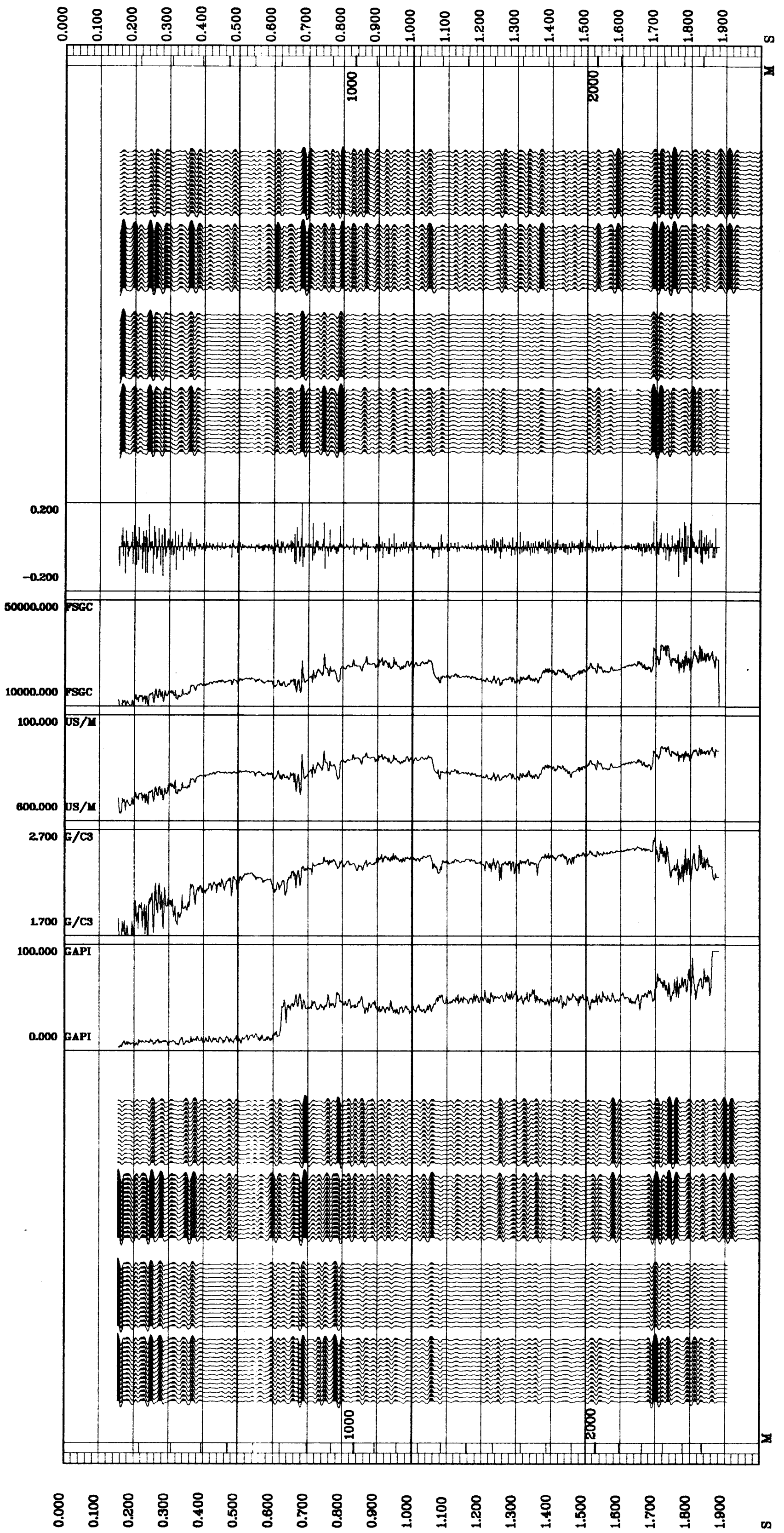
All signatures displayed in the Geogram results correspond to a wavelet convolved with a reflection coefficient of -0.5 (A decrease in acoustic impedance with depth).

REMARKS

All interpretations are opinions based on information 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, cost, 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.  
 The well name, location and borehole reference data were furnished by the customer.

**\*\* 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
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NORMAL POLARITY
- PRIMARIES  
NORMAL POLARITY



COMPANY **ESSO AUSTRALIA LTD.**  
 FIELD **WILDCAT**  
 WELL **ORANGE ROUGHY 1**  
 COUNTRY **AUSTRALIA**

