

APPENDIX 7
Plot 3
EOGRAM with a 25Hz zero phase Ricker wavelet



MELBOURNE LOG INTERPRETATION CENTRE



GEOGRAM*

(Synthetic Seismogram)

25 Zero Phase RICKER Wavelet Plot 3

Company: WESTERN UNDERGROUND GAS STORAGE
Well: IONA OBS-1
Field: IONA
Country: AUSTRALIA
Reference No: Interval: 1540.46 to 698.00
Date Logged: 24-FEB-1999 Date Processed: N.A.
Location: Latitude: Longitude:
Elevations: KB: 137.50 DF: 137.20 GL: 132.50
Permanent Datum: MSL Depth Units: METRES

LOG INFORMATION
FIELD RECORDING: Engineer: R. GERHART Location: Program Version: 700-427
COMPUTATION: Analyst: Y. SOLOVYOV Centre: SYJ Baseline: 20.5

ELEVATION ABOVE MEAN SEA LEVEL
Logging Datum: 137.50
Seismic Reference Datum: 0.00

Sonic Calibration By Check Shots: YES Sonic Edited By Analyst: YES
Two-Way Time Sample Interval: 1 ms Environment: YES

True Vertical Depth Corrections Applied: YES
Source of True Vertical Depth Data:
Maximum Hole Deviation: 40

Run	Date	Tool Type	Bit Size/Depth	Casing Size/Depth	Top Depth	Bottom Depth
1	25-08-95	DL-LDL-GR	17.5 IN	13.3 IN	106 M	656 M
2	12-09-95	DL-LDL-GR	12.2 IN	13.3 IN	656 M	2755 M

VSP Run	Date	Gun Offset	Hydro Offset	Gun Elevation	Hydro Elevation	Gun Azimuth	Hydro Azimuth
1	15-08-95	590 M	590 M	-101.9 M BELOW MSL	-102.4 M BELOW MSL	127 DEG	127 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.

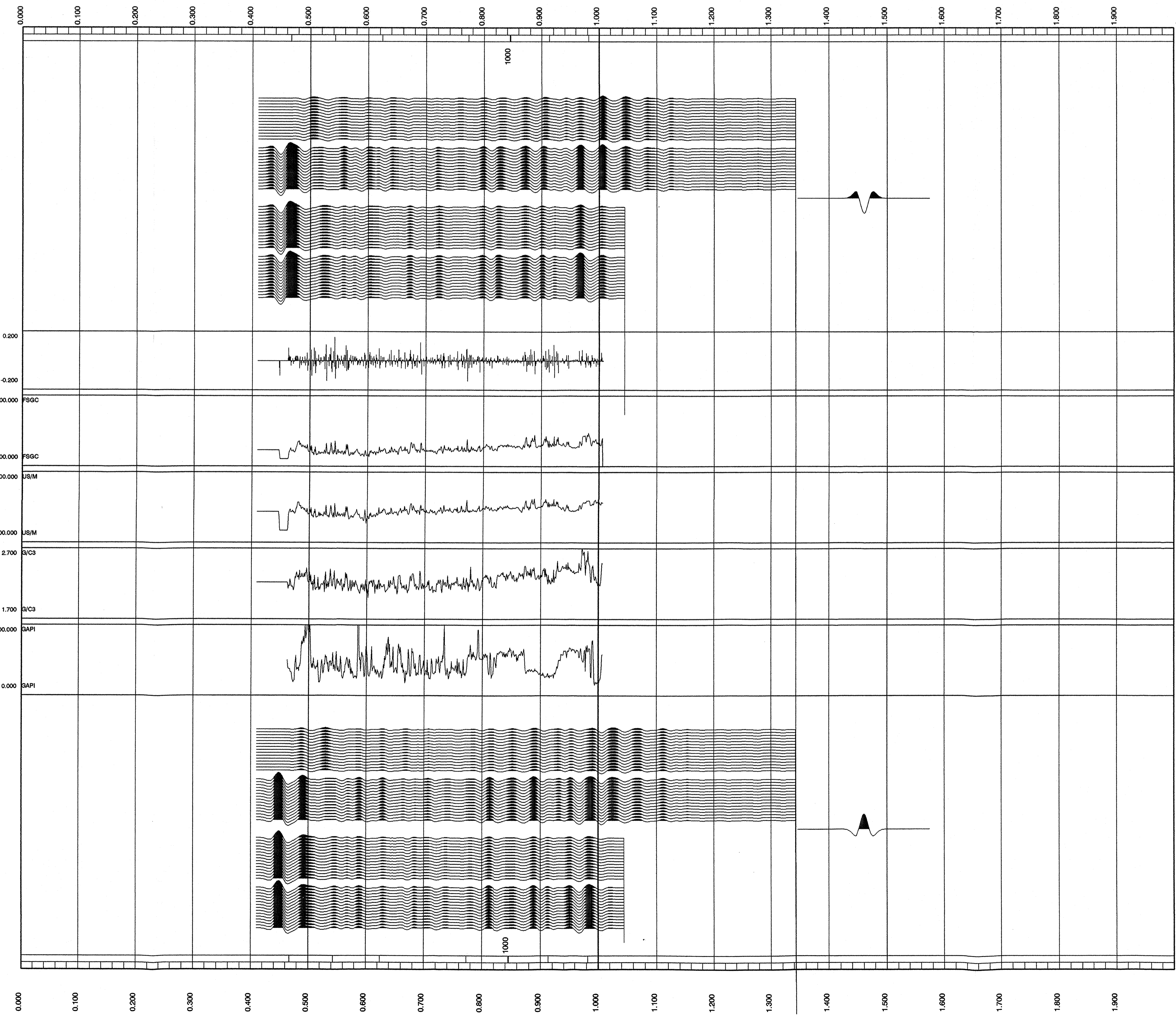
SIGNATURES
All signatures displayed in the Geogram results correspond to a wavelet convolved with a reflection coefficient of -0.5 (A decrease in acoustic impedance with depth).

REMARKS

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

** GEOGRAM **
25 HERTZ ZERO PHASE RICKER WAVELET
VERTICAL SCALE = 25 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



COMPANY W.U.G.S.
FIELD IONA
WELL IONA OBS-1
COUNTRY AUSTRALIA

