APPENDIX 7
Plot 1
Seismic calibration log

Schlumberger

MELBOURNE LOG INTERPRETATION CENTRE

GEOGRAM*

(Synthetic Seismogram)

Stacked X,Y,Z components PLOT 1

* A Mark of Schlumberger

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:	7C0-427	
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	DLL-LDL-GR		17.5 IN	13.3 IN	106 M	658 M
2	12-09-95	DLL-LDL-GR		12.2 IN	13.3 IN	655 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
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.	.	.	.	.	.	.	.

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 accoustic impedance with depth).

REMARKS

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FOLD HERE

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

TEXAS UNLIMITED
IONA
IONA OBS-1
AUSTRALIA

PLOT REFERENCE : STACKED DATA

DATA PROCESSED: 4 MARCH 1999

** MEDIAN STACK **
(DOWNHOLE DATA)

MEDIAN COHERENCY STACK OF THE DOWNHOLE VERTICAL COMPONENT.

PROCESSING SEQUENCE:

MEDIAN STACK APPLIED

BANDPASS FILTER : 5 - 120 HZ

VERTICAL SCALE : 25 CM/SEC
POLARITY (S.E.G.) : REVERSE

TIMES REFERENCED TO HYDROPHONE

** MEDIAN STACK **
(DOWNHOLE DATA)

MEDIAN COHERENCY STACK OF THE DOWNHOLE 2. HORIZONTAL COMPONENT

PROCESSING SEQUENCE:

MEDIAN STACK APPLIED

BANDPASS FILTER : 5 - 120 HZ

VERTICAL SCALE : 25 CM/SEC
POLARITY (S.E.G.) : REVERSE

TIMES REFERENCED TO HYDROPHONE

** MEDIAN STACK **
(DOWNHOLE DATA)

MEDIAN COHERENCY STACK OF THE DOWNHOLE 1. HORIZONTAL COMPONENT

PROCESSING SEQUENCE:

MEDIAN STACK APPLIED

BANDPASS FILTER : 5 - 120 HZ

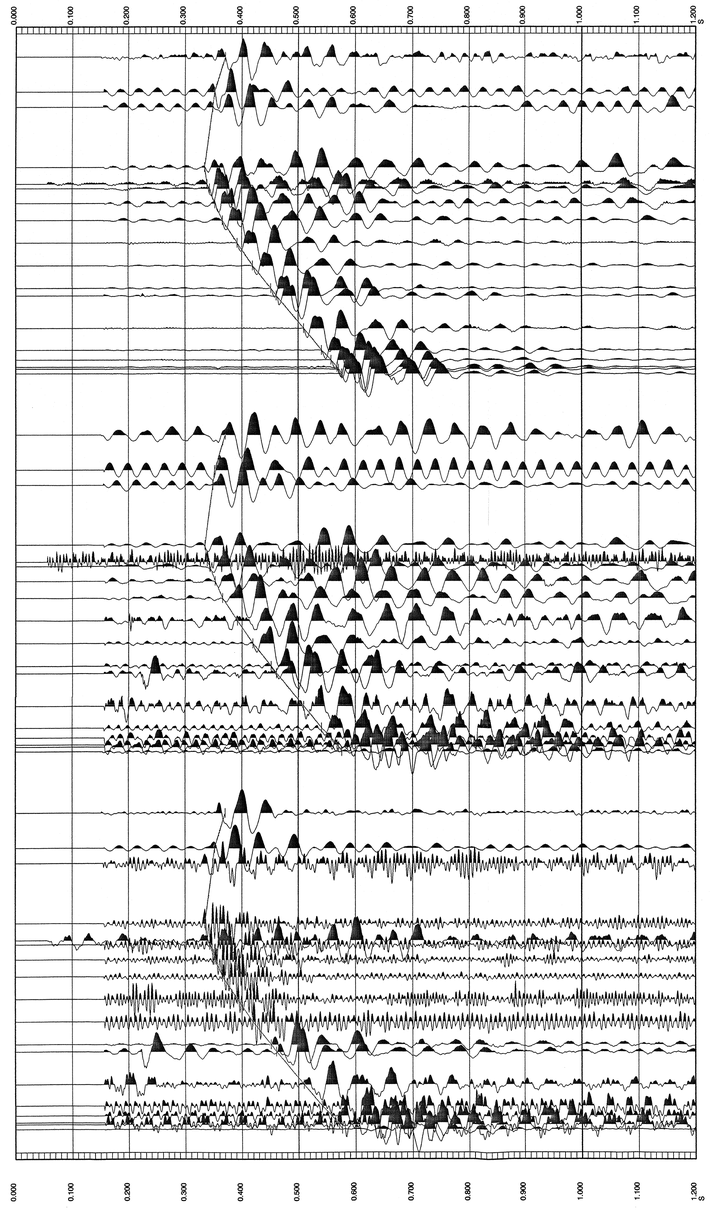
VERTICAL SCALE : 25 CM/SEC
POLARITY (S.E.G.) : REVERSE

TIMES REFERENCED TO HYDROPHONE

RAW DEPTH M	TRANSIT TIME S	LEVEL NO	MAX AMPLITUDE	MIN AMPLITUDE
137.4	0.370	18	0.2744	-0.3504
292.8	0.351	17	0.4965	-0.3558
360.2	0.349	16	0.3007	-0.2446
625.3	0.335	15	0.2333	-0.2782
700.0	0.338	14	0.2701	-0.3459
715.3	0.342	13	0.1783	-0.2397
765.5	0.353	12	0.1460	-0.2382
860.0	0.396	11	0.3228	-0.4129
960.0	0.392	10	0.3600	-0.4606
1060.0	0.419	9	0.3678	-0.4660
1160.0	0.451	8	0.3457	-0.4459
1193.3	0.461	7	0.3963	-0.4921
1337.5	0.510	6	0.3023	-0.3950
1433.5	0.545	5	0.2828	-0.3740
1477.3	0.558	4	0.2495	-0.3132
1517.0	0.571	2	0.2814	-0.3369
1537.9	0.577	1	0.2961	-0.3369

RAW DEPTH M	TRANSIT TIME S	LEVEL NO	MAX AMPLITUDE	MIN AMPLITUDE
137.4	0.370	18	0.2819	-0.2929
292.8	0.351	17	0.4543	-0.4617
360.2	0.349	16	0.3953	-0.3773
625.3	0.335	15	0.2992	-0.3067
700.0	0.338	14	0.1920	-0.0308
715.3	0.342	13	0.1555	-0.1892
765.5	0.353	12	0.1021	-0.0895
860.0	0.396	11	0.1065	-0.0699
960.0	0.392	10	0.0953	-0.0875
1060.0	0.419	9	0.1025	-0.1071
1160.0	0.451	8	0.0769	-0.0951
1193.3	0.461	7	0.0963	-0.0554
1337.5	0.510	6	0.0340	-0.0364
1433.5	0.545	5	0.0328	-0.0421
1477.3	0.558	4	0.0369	-0.0469
1517.0	0.571	2	0.0551	-0.0512
1537.9	0.577	1	0.0656	-0.1210

RAW DEPTH M	TRANSIT TIME S	LEVEL NO	MAX AMPLITUDE	MIN AMPLITUDE
137.4	0.370	18	1.3039	-1.1565
292.8	0.351	17	0.8753	-0.8795
360.2	0.349	16	0.6126	-0.6139
625.3	0.335	15	0.0209	-0.0233
700.0	0.338	14	0.0328	-0.0053
715.3	0.342	13	0.0201	-0.0773
765.5	0.353	12	0.0278	-0.0229
860.0	0.396	11	0.0250	-0.0253
960.0	0.392	10	0.0214	-0.0350
1060.0	0.419	9	0.0116	-0.0129
1160.0	0.451	8	0.2250	-0.1925
1193.3	0.461	7	0.2270	-0.1639
1337.5	0.510	6	0.0674	-0.0604
1433.5	0.545	5	0.0295	-0.0272
1477.3	0.558	4	0.0977	-0.0439
1517.0	0.571	2	0.0453	-0.0359
1537.9	0.577	1	0.4801	-0.3544



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

Schlumberger