

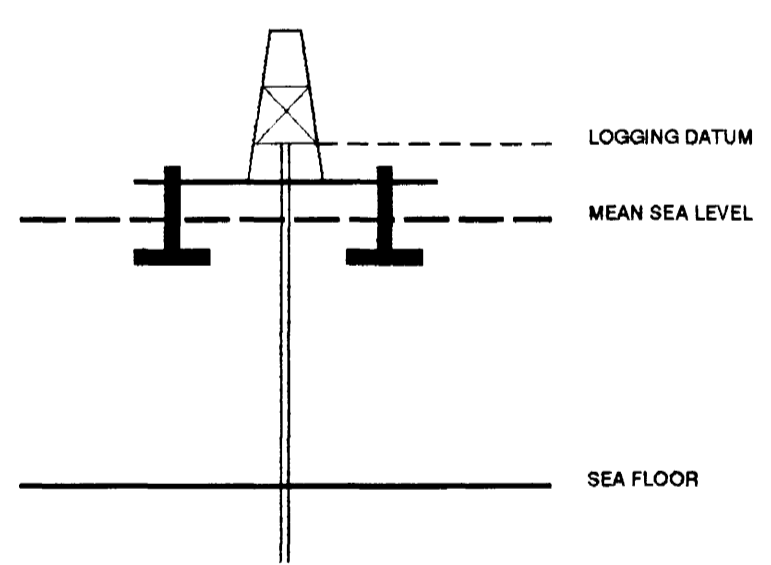
PE900109

# VERTICAL SEISMIC PROFILE

**ZERO OFFSET VSP PLOT 6**  
NORMAL POLARITY  
VSP AND GEGRAM COMPOSITE

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

ELEVATION ABOVE MEAN SEA LEVEL  
Logging Datum: 25.00  
Seismic Reference Datum: 0.00



Total Number of Levels: 57  
Depth Reference: SRD  
Time Reference: SRD

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

REMARKS

The well name, location and borehole reference data were furnished by the customer. All interpretations are opinions based on information received from electrical or other measurements and we cannot, and do not guarantee the accuracy or completeness 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.

**WAVESHAPING**  
WAVESHAPING DECONVOLUTION  
ZERO PHASE ( 10-80 HZ )  
ENHANCED UPGOING WAVEFIELD  
VERTICAL SCALE : 10 CM/SEC  
POLARITY (S.E.G.) : NORMAL

**CORRIDOR STACK**

**CORRIDOR STACK + AGC**  
300 MS AGC WINDOW

**GEOGRAM 35 HZ.**  
ZERO PHASE - NORMAL POLARITY

**GEOGRAM 25 HZ.**  
ZERO PHASE - NORMAL POLARITY

**GEOGRAM 45 HZ.**  
ZERO PHASE - NORMAL POLARITY

**INVERTED IMPEDANCE**

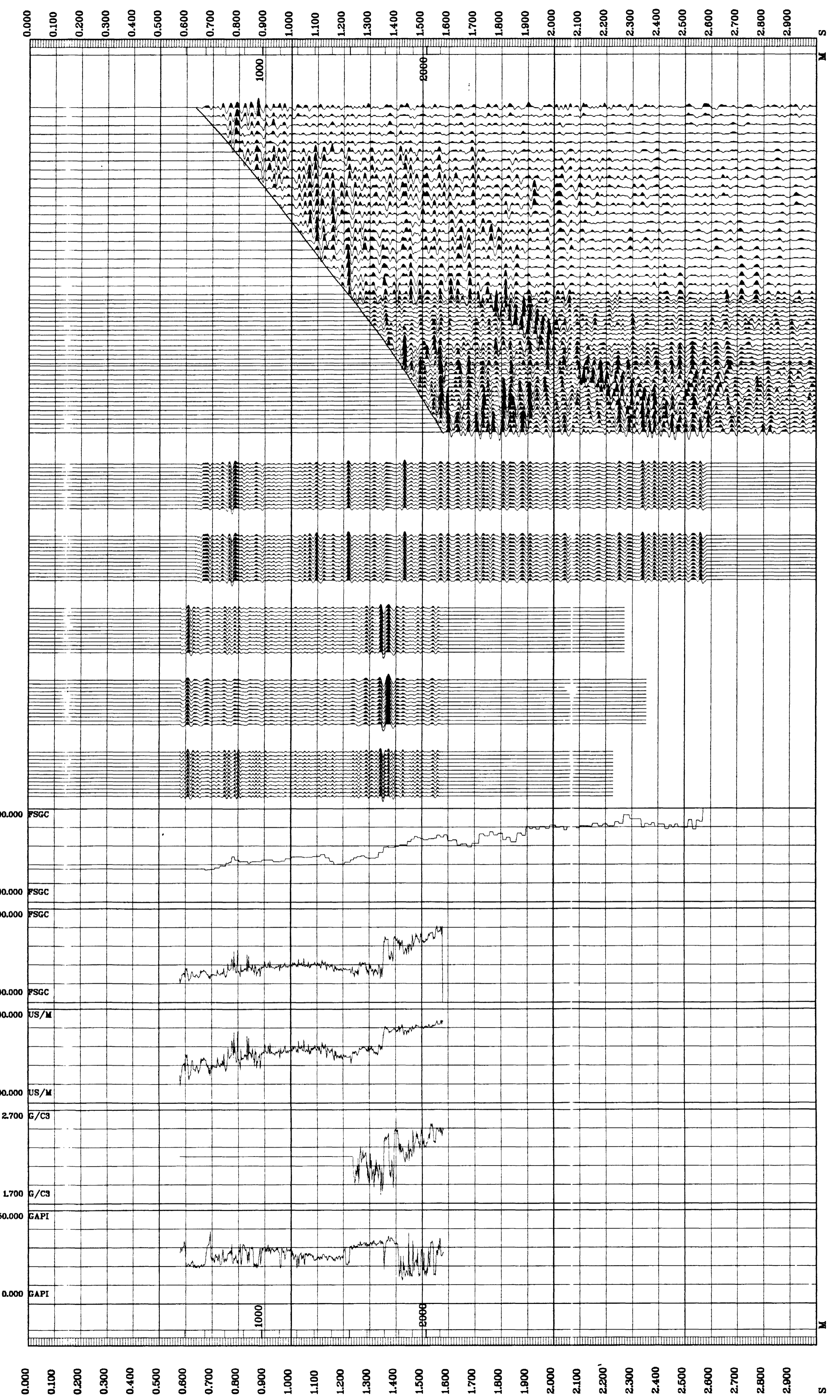
**LOGGED IMPEDANCE**

**SONIC**

**DENSITY**

**GAMMA RAY**

RAW DEPTH M	TRANSIT TIME S	LEVEL NO
690.0	0.318	54
720.0	0.334	53
760.0	0.349	52
800.0	0.365	51
840.0	0.380	50
880.0	0.395	49
920.0	0.407	48
960.0	0.421	47
1000.0	0.435	46
1040.0	0.449	45
1080.0	0.462	44
1120.0	0.476	43
1160.0	0.490	42
1200.0	0.503	41
1240.0	0.516	40
1280.0	0.529	39
1320.0	0.542	38
1360.0	0.555	37
1400.0	0.567	36
1440.0	0.581	35
1480.0	0.595	34
1520.0	0.609	33
1544.5	0.615	32
1580.0	0.630	31
1620.0	0.642	30
1660.0	0.655	29
1700.0	0.669	28
1740.0	0.683	27
1780.0	0.696	26
1820.0	0.710	25
1860.0	0.723	24
1900.0	0.737	23
1940.0	0.750	22
1980.0	0.764	21
2020.0	0.778	20
2060.0	0.791	19
2100.0	0.805	18
2140.0	0.819	17
2180.0	0.832	16
2220.0	0.846	15
2260.0	0.859	14
2300.0	0.873	13
2340.0	0.886	12
2380.0	0.900	11
2420.0	0.913	10
2460.0	0.927	9
2500.0	0.940	8
2540.0	0.954	7
2580.0	0.967	6
2620.0	0.981	5
2660.0	0.994	4
2700.0	1.008	3
2740.0	1.021	2
2780.0	1.035	1



**Schlumberger**

COMPANY: BHP PETROLEUM  
FIELD: WILDCAT  
WELL: MINERVA -2A  
COUNTRY: AUSTRALIA