

PE900107

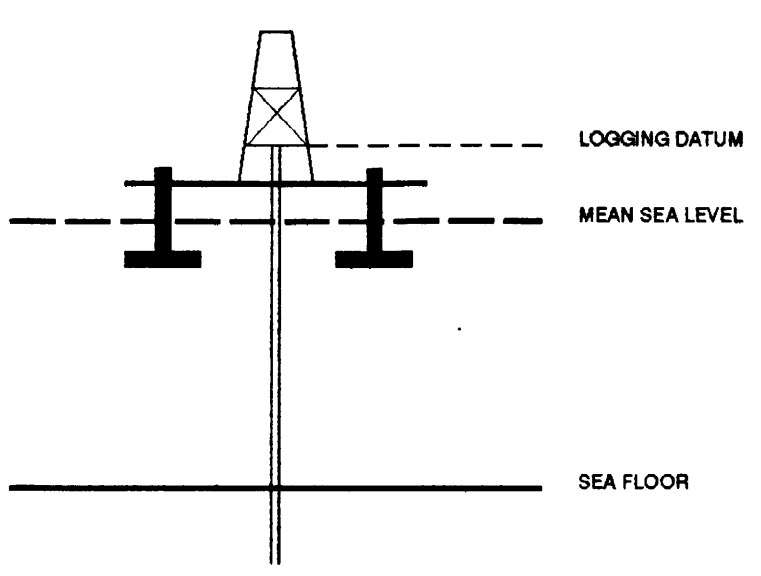
Schlumberger
MELBOURNE LOG INTERPRETATION CENTRE
VERTICAL SEISMIC PROFILE

ZERO OFFSET VSP PLOT 3
VELOCITY FILTERING

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.KATELUS Centre: SYJ 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	Date	Gun Offset	Hydro Offset	Gun Elevation	Hydro Elevation	Gun Azimuth	Hydro Azimuth
1	14-10-93	47 M	47 M	5 BELOW MSL	12 M BELOW MSL	60.0	60.0

REMARKS
 FOLD HERE

All interpretations are opinions based on references from electrical or other measurements and are subject to change. We do not guarantee the accuracy or completeness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable for any damages, including consequential damages, 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.

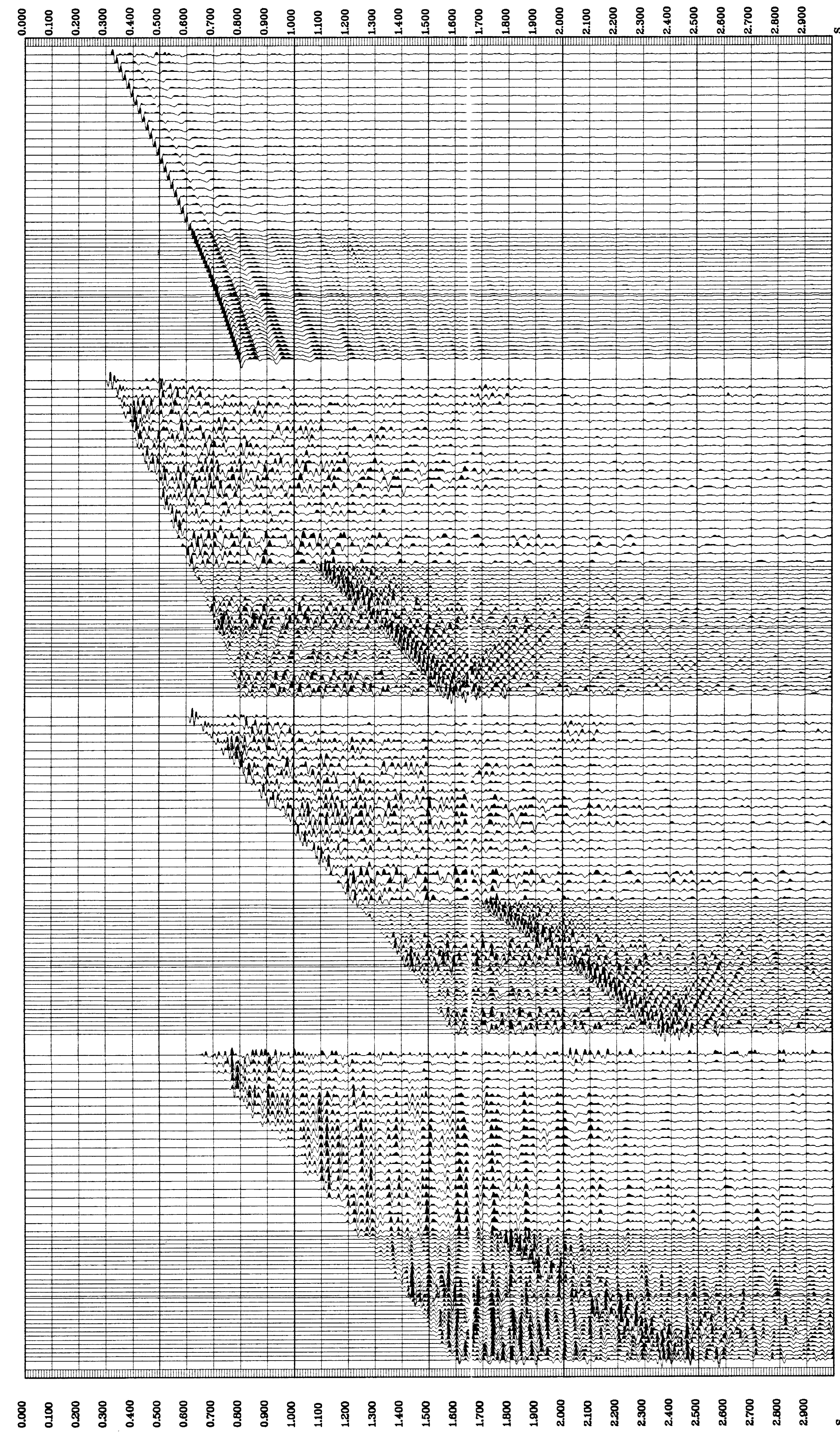
**** VELOCITY FILTER ****
 DOWNGOING WAVEFIELD
 PROCESSING SEQUENCE:
 MEDIAN COHERENCY STACK APPLIED
 STATIC CORR>N TO MSL
 BAND PASS FILTER : 5-100 HZ
 NORMALISATION GATE : 100 MS
 TIME VARYING GAIN : ~1127 = 1.0
 7 LEVEL MEDIAN ESTIMATE OF
 DOWNGOING WAVEFIELD
 SCALE : 10 CM/SEC
 POLARITY (S.E.G.) : NORMAL

**** VELOCITY FILTER ****
 RESIDUAL WAVEFIELD
 PROCESSING SEQUENCE:
 MEDIAN COHERENCY STACK APPLIED
 STATIC CORR>N TO MSL
 BAND PASS FILTER : 5-100 HZ
 NORMALISATION GATE : 100 MS
 TIME VARYING GAIN : ~1127 = 1.0
 DOWNGOING WAVEFIELD SUBTRACTION
 SCALE : 10 CM/SEC
 POLARITY (S.E.G.) : NORMAL

**** VELOCITY FILTER ****
 RESIDUAL WAVEFIELD
 PROCESSING SEQUENCE:
 MEDIAN COHERENCY STACK APPLIED
 STATIC CORR>N TO MSL
 BAND PASS FILTER : 5-100 HZ
 NORMALISATION GATE : 100 MS
 TIME VARYING GAIN : ~1127 = 1.0
 DOWNGOING WAVEFIELD SUBTRACTION
 SCALE : 10 CM/SEC
 POLARITY (S.E.G.) : NORMAL

**** VELOCITY FILTER ****
 ENHANCED UPGOING WAVEFIELD
 PROCESSING SEQUENCE:
 MEDIAN COHERENCY STACK APPLIED
 STATIC CORR>N TO MSL
 BAND PASS FILTER : 5-100 HZ
 NORMALISATION GATE : 100 MS
 TIME VARYING GAIN : ~1127 = 1.0
 DOWNGOING WAVEFIELD SUBTRACTION
 5 LEVEL ENHANCEMENT ON UPGOING
 SCALE : 10 CM/SEC
 POLARITY (S.E.G.) : NORMAL

RAW DEPTH M	TRUE VERTICAL DEPTH MSL M	TRANSIT TIME S	LEVEL NO
880.0	654.0	0.318	54
720.0	693.9	0.324	53
760.0	733.9	0.349	52
800.0	773.8	0.365	51
840.0	813.7	0.380	50
880.0	853.7	0.393	49
920.0	893.6	0.407	48
960.0	933.5	0.421	47
1000.0	973.5	0.435	46
1040.0	1013.4	0.449	45
1080.0	1053.4	0.462	44
1120.0	1093.3	0.476	43
1160.0	1133.3	0.490	42
1200.0	1173.2	0.503	41
1240.0	1213.2	0.516	40
1280.0	1253.1	0.529	39
1320.0	1293.0	0.542	38
1360.0	1333.0	0.555	37
1400.0	1372.9	0.567	36
1440.0	1412.9	0.581	35
1480.0	1452.8	0.595	34
1520.0	1492.7	0.609	33
1560.0	1532.7	0.623	32
1600.0	1572.6	0.638	31
1640.0	1612.6	0.649	30
1680.0	1652.5	0.662	29
1720.0	1692.5	0.677	28
1760.0	1732.4	0.690	27
1800.0	1772.4	0.701	26
1840.0	1812.3	0.709	25
1880.0	1852.2	0.722	24
1920.0	1892.1	0.731	23
1960.0	1932.1	0.742	22
2000.0	1972.0	0.750	21
2040.0	2012.0	0.763	20
2080.0	2051.9	0.773	19
2120.0	2091.8	0.783	18
2160.0	2131.8	0.793	17
640.0	614.0	0.305	55
880.0	654.0	0.318	54
720.0	693.9	0.324	53
760.0	733.9	0.349	52
800.0	773.8	0.365	51
840.0	813.7	0.380	50
880.0	853.7	0.393	49
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