

VERTICAL SEISMIC PROFILE

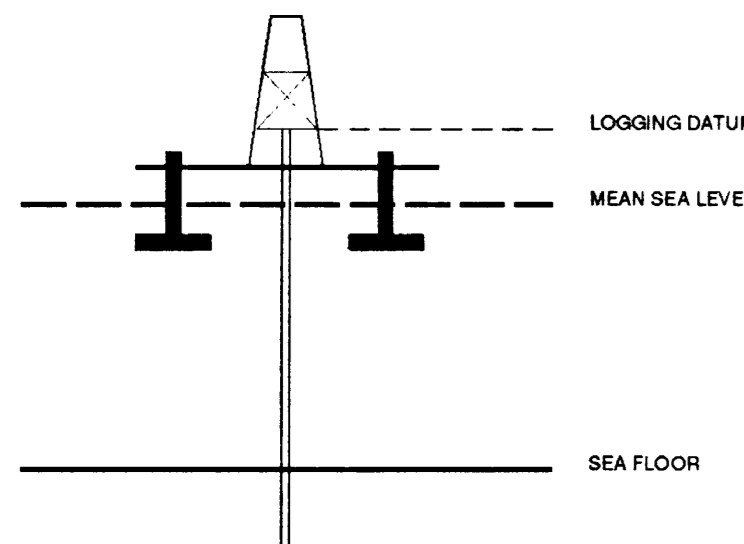


ZERO OFFSET VSP PLOT 3 VELOCITY FILTERING

Company: BHP PETROLEUM
 Well: LA BELLA-1
 Field: WILDCAT
 Country: AUSTRALIA
 Reference No: 560875 Interval: 2743.00 to 620.00
 Date Logged: 11-FEB-1993 Date Processed: 17/2/92
 Location: 39 00 14.2" S 142 41' 42.9" E
 Elevations: KB: 25.30 DF: 25.00 GL: -95.00
 Permanent Datum: MSL Depth Units: METRES
 FIELD RECORDING: Engineer: M HELWIG Location: Program Version: 580-325
 COMPUTATION: Analyst: Z.KATELIS Centre: SYJ Baseline: 20.2

ELEVATION ABOVE MEAN SEA LEVEL

Logging Datum: 25.00
 Seismic Reference Datum: 0.00



Total Number of Levels: 110
 Depth Reference: SRD
 Time Reference: SRD

Run	Date	Tool Type	Bit Size/Depth	Casing Size/Depth	Top Depth	Bottom Depth
1	30-1-90	AS			1787	120
2	8-2-93	SDT			2375	1765.5

VSP Run	Date	Gun Offset	Hydro Offset	Gun Elevation	Hydro Elevation	Gun Azimuth	Hydro Azimuth
1	30-JAN-1990	47 M	47 M	10 M BELOW MSL	17 M BELOW MSL	50.0	50.0
2	11-FEB-1993	47 M	47 M	10 M BELOW MSL	17 M BELOW MSL	50.0	50.0

REMARKS

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

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 interpretation, 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 by any party as a result of any interpretation 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 forth in our current Price Schedule.

** 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

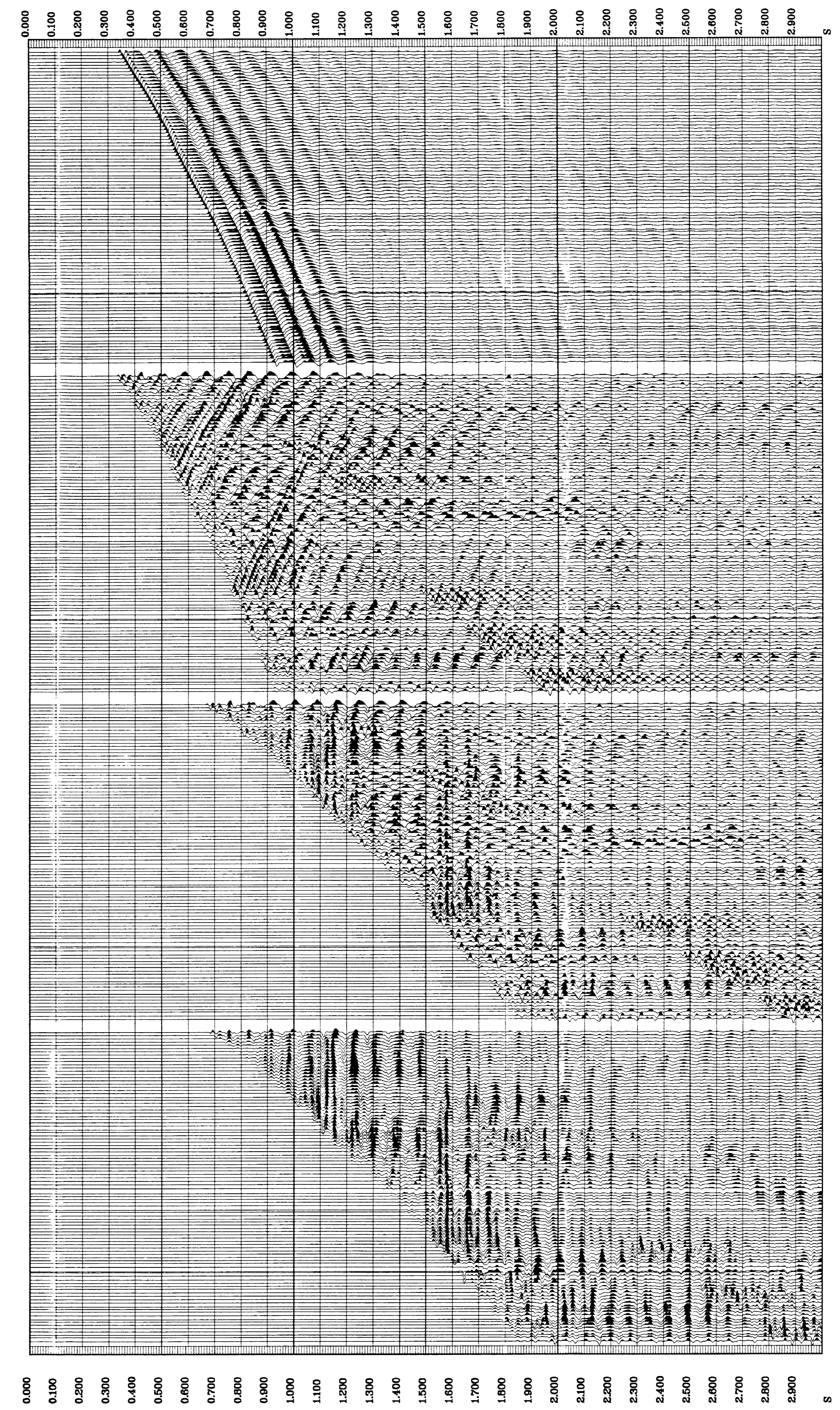
SCALE : 10 CM/SEC
 POLARITY (S.E.G.) : NORMAL

** 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
800.0	775.0	0.340	88
840.0	815.0	0.355	84
880.0	855.0	0.369	80
920.0	895.0	0.384	76
960.0	935.0	0.399	72
1000.0	975.0	0.415	68
1040.0	1015.0	0.431	64
1080.0	1055.0	0.445	60
1120.0	1095.0	0.459	56
1160.0	1135.0	0.472	52
1200.0	1175.0	0.487	48
1240.0	1215.0	0.499	44
1280.0	1255.0	0.512	40
1320.0	1295.0	0.525	36
1360.0	1335.0	0.537	32
1400.0	1375.0	0.550	28
1440.0	1415.0	0.562	24
1480.0	1455.0	0.574	20
1520.0	1495.0	0.585	16
1560.0	1535.0	0.596	12
1600.0	1575.0	0.608	8
1640.0	1615.0	0.619	4
1680.0	1655.0	0.630	
1720.0	1695.0	0.641	
1760.0	1735.0	0.652	
1800.0	1775.0	0.663	
1840.0	1815.0	0.674	
1880.0	1855.0	0.685	
1920.0	1895.0	0.696	
1960.0	1935.0	0.707	
2000.0	1975.0	0.718	
2040.0	2015.0	0.729	
2080.0	2055.0	0.740	
2120.0	2095.0	0.751	
2160.0	2135.0	0.762	
2200.0	2175.0	0.773	
2240.0	2215.0	0.784	
2280.0	2255.0	0.795	
2320.0	2295.0	0.806	
2360.0	2335.0	0.817	
2400.0	2375.0	0.828	
2440.0	2415.0	0.839	
2480.0	2455.0	0.850	
2520.0	2495.0	0.861	
2560.0	2535.0	0.872	
2600.0	2575.0	0.883	
2640.0	2615.0	0.894	
2680.0	2655.0	0.905	
2720.0	2695.0	0.916	
2760.0	2735.0	0.927	



COMPANY BHP PETROLEUM
 FIELD WILDCAT
 WELL LA BELLA-1
 COUNTRY AUSTRALIA

