

Schlumberger

MELBOURNE LOG INTERPRETATION CENTRE

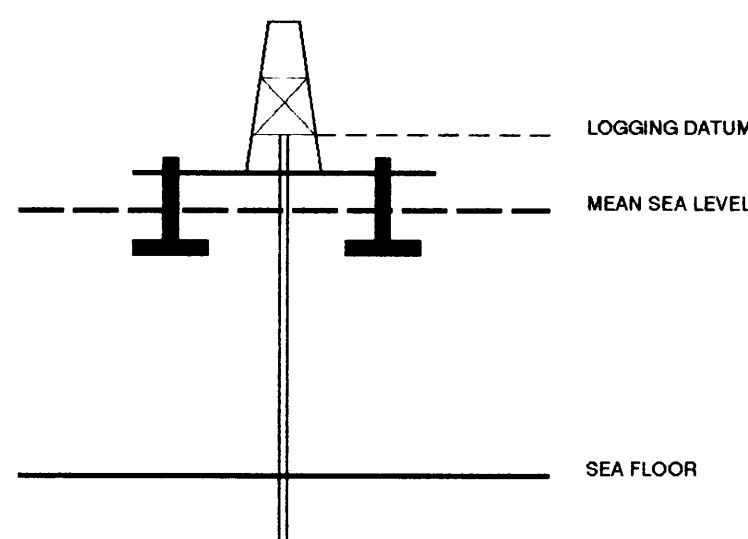
DEPT. NAT. RES. & ENV. PE600046

# VERTICAL SEISMIC PROFILE

ZERO OFFSET VSP PLOT 3  
VELOCITY FILTERING

Company: BHP PETROLEUM  
Well: ERIC THE RED-1  
Field: WILDCAT  
Country: AUSTRALIA  
Reference No: 560880 Interval: 1848.00 to 373.00  
Date Logged: 27 FEB 1992 Date Processed: 5/3/92  
Location: 39 00' 45.44" S 143 10' 51.45" E  
Elevations: KB: 25.30 DF: 25.00 GL: -75.00  
Permanent Datum: MSL Depth Units: METRES  
FIELD RECORDING: Engineer: S NAKANISHI Location: Program Version: 580-325  
COMPUTATION: Analyst: Z.KATELIS Centre: SYU Baseline: 20.2

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



Total Number of Levels: 80  
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	Hydro Azimuth
1	27-FEB-1992	47 M	47 M	7 BELOW MSL	14 M BELOW MSL	50.0	50.0

REMARKS

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

FOLD HERE

CLIENT = BHP PETROLEUM  
FIELD = WILDCAT  
WELL = ERIC THE RED-1

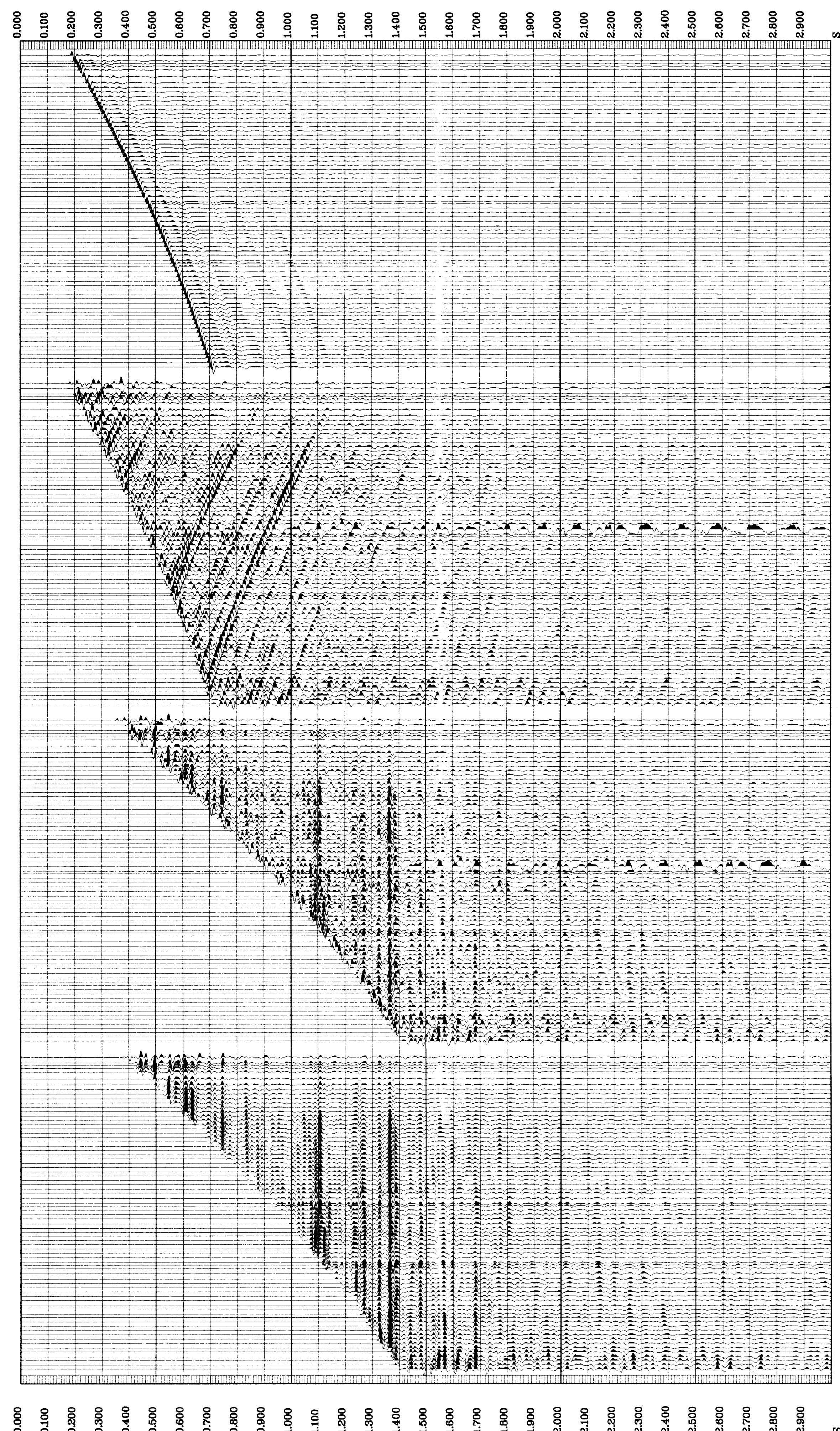
**\*\* VELOCITY FILTER \*\***  
DOWNGOING WAVEFIELD PROCESSING SEQUENCE:  
MEDIAN COHERENCY STACK APPLIED  
STATIC CORR-N TO MSL  
BAND PASS FILTER : 5-100 HZ  
NORMALISATION GATE : 100 MS  
TIME VARYING GAIN : ^1127 = 1.0  
7 LEVEL MEDIAN ESTIMATE OF DOWNGOING WAVEFIELD  
SCALE : 10 CM/SEC  
POLARITY (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
347.0	322.0	0.184	74
365.0	360.0	0.201	72
415.0	380.0	0.215	70
447.0	420.0	0.230	69
497.0	472.0	0.250	67
549.0	515.0	0.267	65
599.0	565.0	0.283	63
639.0	595.0	0.299	61
660.0	625.0	0.316	59
700.0	675.0	0.332	57
740.0	715.0	0.348	55
780.0	755.0	0.364	53
820.0	795.0	0.379	51
860.0	835.0	0.395	49
900.0	875.0	0.411	47
940.0	915.0	0.426	45
980.0	955.0	0.440	43
1040.0	1015.0	0.460	40
1080.0	1055.0	0.480	38
1120.0	1095.0	0.495	36
1160.0	1135.0	0.508	34
1200.0	1175.0	0.520	32
1240.0	1215.0	0.532	30
1280.0	1255.0	0.544	28
1320.0	1295.0	0.556	26
1360.0	1335.0	0.567	24
1400.0	1375.0	0.578	22
1440.0	1415.0	0.589	20
1480.0	1455.0	0.600	18
1520.0	1495.0	0.611	16
1560.0	1535.0	0.622	14
1600.0	1575.0	0.633	12
1640.0	1615.0	0.643	10
1680.0	1655.0	0.654	8
1720.0	1695.0	0.664	6
1760.0	1735.0	0.674	4
1800.0	1775.0	0.684	2



COMPANY: BHP PETROLEUM  
FIELD: WILDCAT  
WELL: ERIC THE RED-1  
COUNTRY: AUSTRALIA

Schlumberger