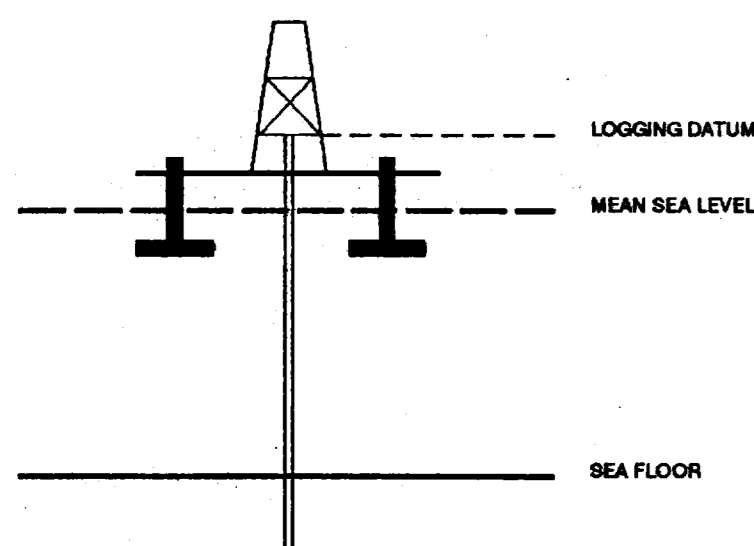




ZERO OFFSET VSP PLOT 4
WAVESHAPING DECONVOLUTION

Company: BHP PETROLEUM PTY. LTD.
Well: CHAMPION-1
Field: WILDCAT
Country: AUSTRALIA
Reference No: SYJ-561142/561143 Interval: 1845.00 to 1220.00
Date Logged: 15 AUG. 1995 Date Processed: 17 AUG 1995
Location: 038 32' 33.054" S 142 23' 18.066" E
Elevations: KB: 25.30 DF: 25.00 GL: -54.00
Permanent Datum: MSL Depth Units: METRES
FIELD RECORDING: Engineer: R.JONSON Location: Program Version: 700-427
COMPUTATION: Analyst: S.TCHERKASHNEV Centre: SYJ Baseline: 20.5

ELEVATION ABOVE MEAN SEA LEVEL
Logging Datum: 25.30
Seismic Reference Datum: 0.00



Total Number of Levels: 45
Depth Reference: SRD
Time Reference: SRD

Run	Date	Tool Type	Bit Size/Depth	Casing Size/Depth	Top Depth	Bottom Depth
1	15-07-95	DLL	12.25 IN	13.3 IN/121.6 M	121.6 M	1866 M

VSP Run	Date	Gun Offset	Hydro Offset	Gun Elevation	Hydro Elevation	Gun Azimuth	Hydro Azimuth
1	15-07-95	45 M	45 M	5 M BELOW MSL	10 M BELOW MSL	90 DEG	90 DEG

All interpretations are optional based on information from electrical or other measurements and we warrant, and do not guarantee the accuracy or correctness of any interpretation and shall not be held responsible in the case of gross or willful negligence on our part, for loss or damage of any kind, including consequential loss or damage, or for any loss of data, equipment or other property. These interpretations are also subject to the terms and conditions of our General Terms and Conditions as set out in our current Price Schedule.

PLOT 4

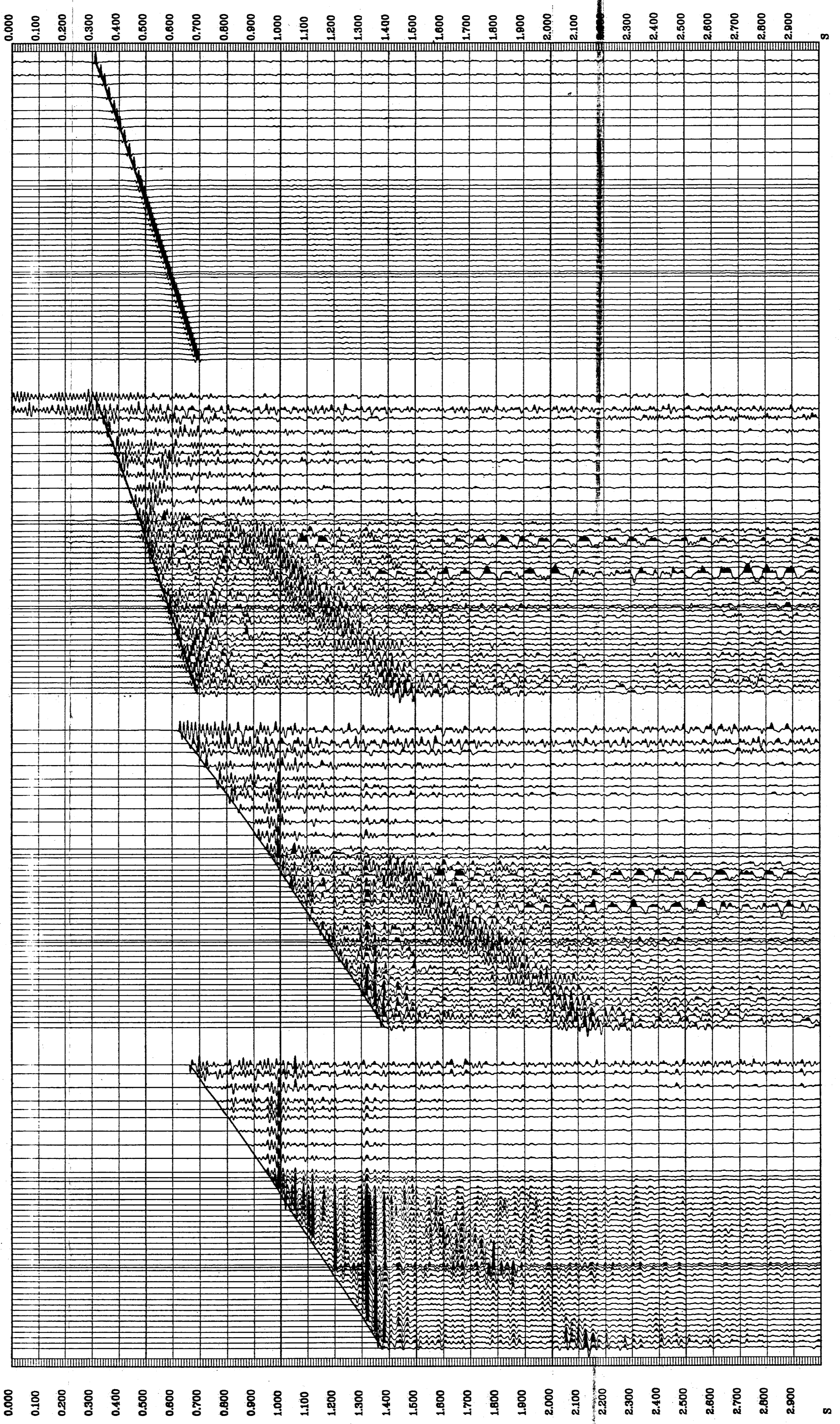
*** WAVESHAPING ***
ZERO PHASE
DOWNGOING WAVEFIELD
PROCESSING SEQUENCE:
MEDIAN STACK APPLIED
STATIC CORRECTION TO MSL : 6.56 MS
BAND PASS FILTER : 7-95 HZ
NORMALISATION GATE : 100 MS
TIME VARYING GAIN : (T/TO)**1.00
7 LEVEL MEDIAN ESTIMATE OF
DOWNGOING WAVEFIELD
7-95 HZ WAVESHAPING DECONVOLUTION
VERTICAL SCALE : 10 CM/SEC
POLARITY (S.E.G.) : NORMAL
ONE WAY TIME

*** WAVESHAPING ***
ZERO PHASE
RESIDUAL WAVEFIELD
PROCESSING SEQUENCE:
MEDIAN STACK APPLIED
STATIC CORRECTION TO MSL : 6.56 MS
BAND PASS FILTER : 5-95 HZ
NORMALISATION GATE : 100 MS
TIME VARYING GAIN : (T/TO)**1.00
DOWNGOING WAVEFIELD SUBTRACTION
5-95 HZ WAVESHAPING DECONVOLUTION
VERTICAL SCALE : 10 CM/SEC
POLARITY (S.E.G.) : NORMAL
ONE WAY TIME

*** WAVESHAPING ***
ZERO PHASE
RESIDUAL WAVEFIELD
PROCESSING SEQUENCE:
MEDIAN STACK APPLIED
STATIC CORRECTION TO MSL : 6.56 MS
BAND PASS FILTER : 7-95 HZ
NORMALISATION GATE : 100 MS
TIME VARYING GAIN : (T/TO)**1.00
DOWNGOING WAVEFIELD SUBTRACTION
7-95 HZ WAVESHAPING DECONVOLUTION
VERTICAL SCALE : 10 CM/SEC
POLARITY (S.E.G.) : NORMAL
TWO WAY TIME

*** WAVESHAPING ***
ZERO PHASE
ENHANCED UPGOING WAVEFIELD
PROCESSING SEQUENCE:
MEDIAN STACK APPLIED
STATIC CORRECTION TO MSL : 6.56 MS
BAND PASS FILTER : 7-95 HZ
NORMALISATION GATE : 100 MS
TIME VARYING GAIN : (T/TO)**1.00
DOWNGOING WAVEFIELD SUBTRACTION
7-95 HZ WAVESHAPING DECONVOLUTION
7 LEVEL ENHANCED UPGOING WAVEFIELD
VERTICAL SCALE : 10 CM/SEC
POLARITY (S.E.G.) : NORMAL
TWO WAY TIME

TRUE VERTICAL DEPTH MSL M	TRANSIT TIME S	LEVEL NO
715.7	0.332	45
762.7	0.332	44
794.7	0.346	44
844.7	0.361	43
864.7	0.361	42
884.7	0.381	41
904.7	0.403	40
1004.7	0.420	39
1054.7	0.439	38
1064.7	0.456	37
1074.7	0.474	36
1084.7	0.485	35
1094.7	0.494	34
1104.7	0.504	33
1114.7	0.513	32
1124.7	0.522	31
1134.7	0.531	30
1144.7	0.540	29
1154.7	0.549	28
1164.7	0.558	27
1174.7	0.567	26
1184.7	0.576	25
1194.7	0.585	24
1204.7	0.594	23
1214.7	0.603	22
1224.7	0.612	21
1234.7	0.621	20
1244.7	0.630	19
1254.7	0.639	18
1264.7	0.648	17
1274.7	0.657	16
1284.7	0.666	15
1294.7	0.675	14
1304.7	0.684	13
1314.7	0.693	12
1324.7	0.702	11
1334.7	0.711	10
1344.7	0.720	9
1354.7	0.729	8
1364.7	0.738	7
1374.7	0.747	6
1384.7	0.756	5
1394.7	0.765	4
1404.7	0.774	3
1414.7	0.783	2
1424.7	0.792	1
1434.7	0.801	1
1444.7	0.810	1
1454.7	0.819	1
1464.7	0.828	1
1474.7	0.837	1
1484.7	0.846	1
1494.7	0.855	1
1504.7	0.864	1
1514.7	0.873	1
1524.7	0.882	1
1534.7	0.891	1
1544.7	0.900	1
1554.7	0.909	1
1564.7	0.918	1
1574.7	0.927	1
1584.7	0.936	1
1594.7	0.945	1
1604.7	0.954	1
1614.7	0.963	1
1624.7	0.972	1
1634.7	0.981	1
1644.7	0.990	1
1654.7	0.999	1
1664.7	1.008	1
1674.7	1.017	1
1684.7	1.026	1
1694.7	1.035	1
1704.7	1.044	1
1714.7	1.053	1
1724.7	1.062	1
1734.7	1.071	1
1744.7	1.080	1
1754.7	1.089	1
1764.7	1.098	1
1774.7	1.107	1
1784.7	1.116	1
1794.7	1.125	1
1804.7	1.134	1
1814.7	1.143	1
1824.7	1.152	1
1834.7	1.161	1
1844.7	1.170	1
1854.7	1.179	1
1864.7	1.188	1
1874.7	1.197	1
1884.7	1.206	1
1894.7	1.215	1
1904.7	1.224	1
1914.7	1.233	1
1924.7	1.242	1
1934.7	1.251	1
1944.7	1.260	1
1954.7	1.269	1
1964.7	1.278	1
1974.7	1.287	1
1984.7	1.296	1
1994.7	1.305	1
2004.7	1.314	1
2014.7	1.323	1
2024.7	1.332	1
2034.7	1.341	1
2044.7	1.350	1
2054.7	1.359	1
2064.7	1.368	1
2074.7	1.377	1
2084.7	1.386	1
2094.7	1.395	1
2104.7	1.404	1
2114.7	1.413	1
2124.7	1.422	1
2134.7	1.431	1
2144.7	1.440	1
2154.7	1.449	1
2164.7	1.458	1
2174.7	1.467	1
2184.7	1.476	1
2194.7	1.485	1
2204.7	1.494	1
2214.7	1.503	1
2224.7	1.512	1
2234.7	1.521	1
2244.7	1.530	1
2254.7	1.539	1
2264.7	1.548	1
2274.7	1.557	1
2284.7	1.566	1
2294.7	1.575	1
2304.7	1.584	1
2314.7	1.593	1
2324.7	1.602	1
2334.7	1.611	1
2344.7	1.620	1
2354.7	1.629	1
2364.7	1.638	1
2374.7	1.647	1
2384.7	1.656	1
2394.7	1.665	1
2404.7	1.674	1
2414.7	1.683	1
2424.7	1.692	1
2434.7	1.701	1
2444.7	1.710	1
2454.7	1.719	1
2464.7	1.728	1
2474.7	1.737	1
2484.7	1.746	1
2494.7	1.755	1
2504.7	1.764	1
2514.7	1.773	1
2524.7	1.782	1
2534.7	1.791	1
2544.7	1.800	1
2554.7	1.809	1
2564.7	1.818	1
2574.7	1.827	1
2584.7	1.836	1
2594.7	1.845	1
2604.7	1.854	1
2614.7	1.863	1
2624.7	1.872	1
2634.7	1.881	1
2644.7	1.890	1
2654.7	1.899	1
2664.7	1.908	1
2674.7	1.917	1
2684.7	1.926	1
2694.7	1.935	1
2704.7	1.944	1
2714.7	1.953	1
2724.7	1.962	1
2734.7	1.971	1
2744.7	1.980	1
2754.7	1.989	1
2764.7	1.998	1
2774.7	2.007	1
2784.7	2.016	1
2794.7	2.025	1
2804.7	2.034	1
2814.7	2.043	1
2824.7	2.052	1
2834.7	2.061	1
2844.7	2.070	1
2854.7	2.079	1
2864.7	2.088	1
2874.7	2.097	1
2884.7	2.106	1
2894.7	2.115	1
2904.7	2.124	1
2914.7	2.133	1
2924.7	2.142	1
2934.7	2.151	1
2944.7	2.160	1
2954.7	2.169	1
2964.7	2.178	1
2974.7	2.187	1
2984.7	2.196	1
2994.7	2.205	1
3004.7	2.214	1



COMPANY BHP PETROLEUM PTY. LTD.
FIELD WILDCAT
WELL CHAMPION-1
COUNTRY AUSTRALIA

Schlumberger