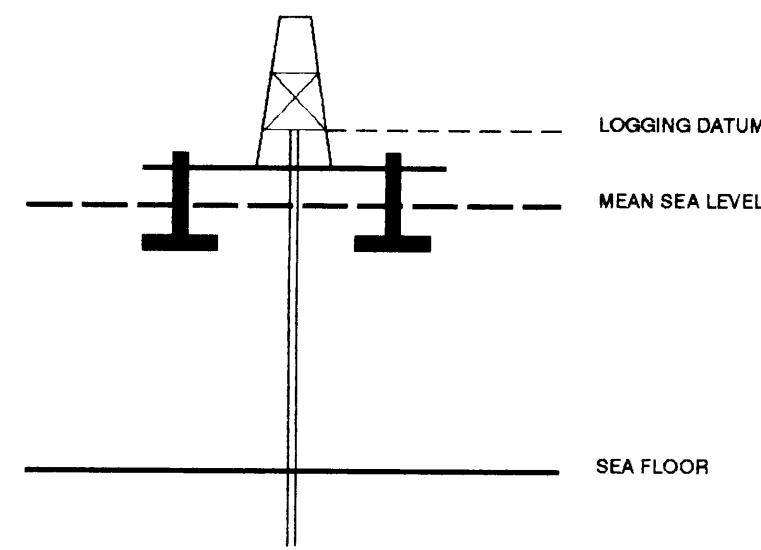


VERTICAL SEISMIC PROFILE

ZERO OFFSET VSP PLOT 4 WAVESHAPING DECONVOLUTION

Company: ESSO AUSTRALIA LTD DEPT. M.T. RES & ENV
 Well: TURRUM-5
 Field: TURRUM
 Country: AUSTRALIA
 Reference No: SYJ-561158/561159 Interval: 2755.00 to 106.00
 Date Logged: 25&12 SEP 1995 Date Processed: 26 SEP 1995
 Location: 038 14' 55.083" S 148 12' 03.099" E
 Elevations: KB: 25.00 DF: 27.70 GL: -60.30
 Permanent Datum: MSL Depth Units: METRES
 FIELD RECORDING: Engineer: R.JONSSON Location: Program Version: 700-427
 COMPUTATION: Analyst: S.TCHERKASHNEV Centre: SYJ Baseline: 20.5

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



Total Number of Levels: 84
 Depth Reference: SRD
 Time Reference: SRD

Run	Date	Tool Type	Bit Size/Depth	Casing Size/Depth	Top Depth	Bottom Depth
1	25-08-95	DLL-LDL-GR	17.5 IN	13.3 IN	106 M	658 M
2	12-09-95	DLL-LDL-GR	12.2 IN	13.3 IN	655 M	2755 M

VSP Run	Date	Gun Offset	Hydro Offset	Gun Elevation	Hydro Elevation	Gun Azimuth	Hydro Azimuth
1	15-08-95	50 M	50 M	5 M BELOW MSL	10 M BELOW MSL	258 DEG	258 DEG

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 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 suffered by any person or organization in reliance on any measurements made by any of our officers, agents or employees. These interpretations are also subject to Check 4 of our General Terms and Conditions as published on our Schlumberger website.

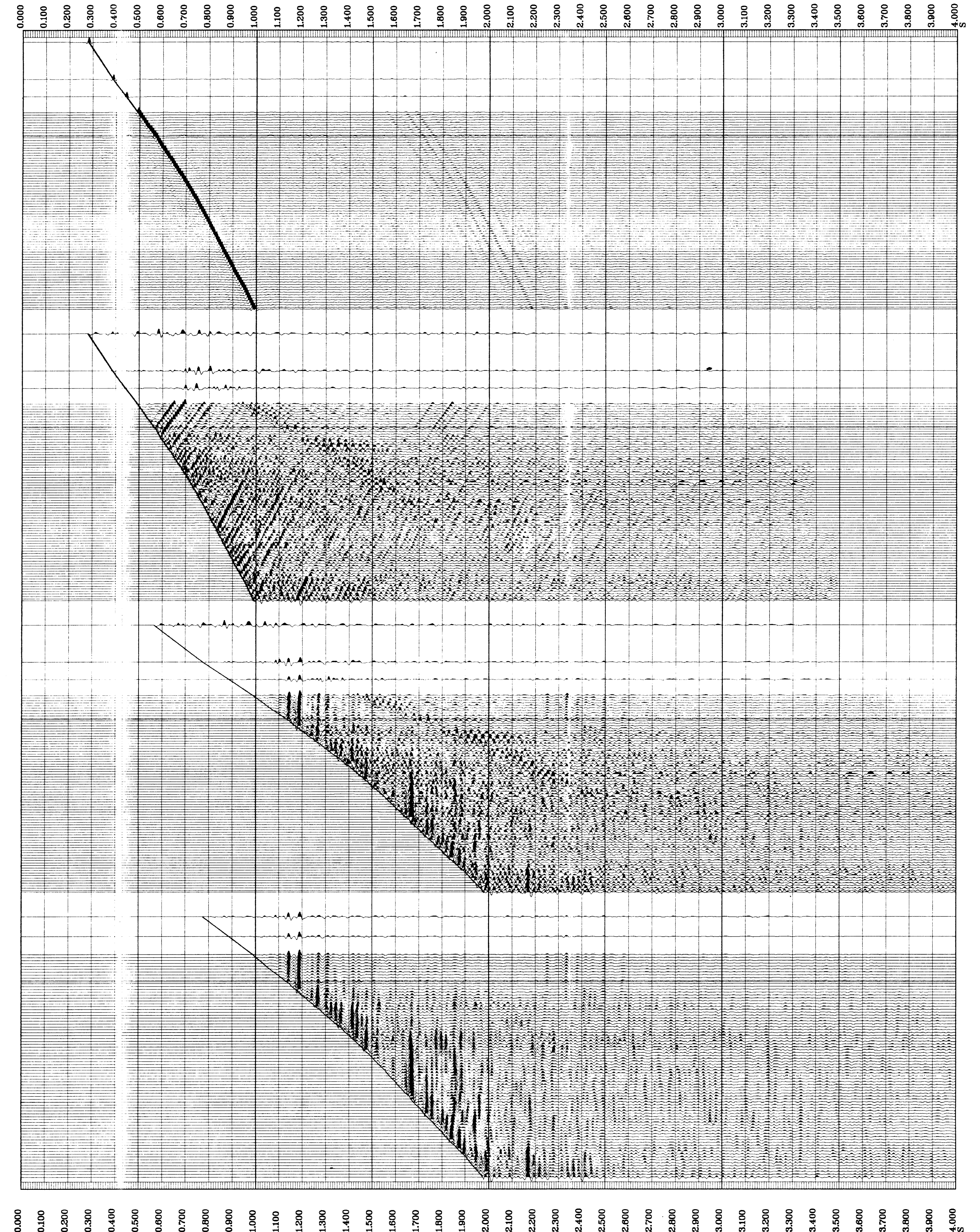
*** WAVESHAPING ***
 ZERO PHASE
 DOWNGOING WAVEFIELD
 PROCESSING SEQUENCE:
 MEDIAN STACK APPLIED
 STATIC CORRECTION TO MSL : 6.56 MS
 BAND PASS FILTER : 5-70 HZ
 NORMALISATION GATE : 100 MS
 TIME VARYING GAIN : (T/TO)**1.00
 7 LEVEL MEDIAN ESTIMATE OF
 DOWNGOING WAVEFIELD
 5-70 HZ WAVESHAPING DECONVOLUTION
 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 : 5-70 HZ
 NORMALISATION GATE : 100 MS
 TIME VARYING GAIN : (T/TO)**1.00
 DOWNGOING WAVEFIELD SUBTRACTION
 5-70 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 : 5-70 HZ
 NORMALISATION GATE : 100 MS
 TIME VARYING GAIN : (T/TO)**1.00
 DOWNGOING WAVEFIELD SUBTRACTION
 5-70 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 : 5-70 HZ
 NORMALISATION GATE : 100 MS
 TIME VARYING GAIN : (T/TO)**1.00
 DOWNGOING WAVEFIELD SUBTRACTION
 5-70 HZ WAVESHAPING DECONVOLUTION
 5 LEVEL ENHANCED UPGOING WAVEFIELD
 VERTICAL SCALE : 10 CM/SEC
 POLARITY (S.E.G.) : NORMAL
 TWO WAY TIME

RAW DEPTH M	TRANSIT TIME S	LEVEL NO
645.0	0.283	84
936.0	0.387	83
1075.0	0.443	82
1220.0	0.502	80
1360.0	0.518	78
1440.0	0.544	74
1480.0	0.568	70
1520.0	0.582	68
1540.0	0.602	66
1560.0	0.622	64
1580.0	0.642	62
1600.0	0.662	60
1620.0	0.682	58
1640.0	0.702	56
1660.0	0.722	54
1680.0	0.742	52
1700.0	0.762	50
1720.0	0.782	48
1740.0	0.802	46
1760.0	0.822	44
1780.0	0.842	42
1800.0	0.862	40
1820.0	0.882	38
1840.0	0.902	36
1860.0	0.922	34
1880.0	0.942	32
1900.0	0.962	30
1920.0	0.982	28
1940.0	1.002	26
1960.0	1.022	24
1980.0	1.042	22
2000.0	1.062	20
2020.0	1.082	18
2040.0	1.102	16
2060.0	1.122	14
2080.0	1.142	12
2100.0	1.162	10
2120.0	1.182	8
2140.0	1.202	6
2160.0	1.222	4
2180.0	1.242	2
2200.0	1.262	1



COMPANY: ESSO AUSTRALIA LTD
 FIELD: TURRUM
 WELL: TURRUM-5
 COUNTRY: AUSTRALIA

Schlumberger