

BASS STRAIT OIL COMPANY

WELL NAME: MOBY-1
ZERO OFFSET VSP SURVEY

ENCLOSURE 6A

VSP PROCESSING SEQUENCES DISPLAY

SHOT BY BAKER ATLAS 13 OCTOBER, 2004
PROCESSED BY VSFUSION OCTOBER, 2004
PROJECT CODE BSOC01

ACQUISITION INFORMATION

-CABLE-
DRILL FLOOR (DF) ELEVATION 22 M ABOVE MSL
WATER DEPTH (DW) 53.9 M BELOW MSL
MINIMUM DEPTH (DF) 90 M
MAXIMUM DEPTH (DF) 650 M

-SOURCE-
ENERGY SOURCE SLEEVE GUN
NUMBER OF GUN 4
TOTAL GUN VOLUME 600 CU. IN
GUN DEPTH 5 M BELOW MSL
SOURCE DISTANCE FROM WELLHEAD 46.3 M
SOURCE AZIMUTH FROM WELLHEAD 193.7 DEG. N

-INSTRUMENTS-
RECORDING SYSTEM DSS 16CH A/D
SAMPLING INTERVAL 1 MS
RECORD LENGTH 4 SECONDS
DOWNHOLE RECEIVER TYPE AWS 1300 GM
ELECTRIC LOGGING COMPANY BAKER ATLAS

ZVSP PROCESSING SEQUENCE

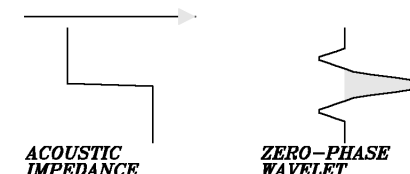
1. CONVERT FROM SEG-Y FORMAT TO SEISLINK-X FORMAT
2. EDIT/SUM/PICK ARRIVALS
3. GEOMETRY SURVEY APPLIED
4. VELOCITY COMPUTATIONS
5. SPHERICAL DIVERGENCE-GEOMETRY SPREADING CORRECTION (T**1.7)
6. FK ANALYSIS TO DETERMINE FREQUENCY CONTENTS
7. ESTIMATION OF DOWNGOING P-WAVES :
FIRST BREAK ALIGNED AT 200 MSEC.
8. SUBTRACTION OF DOWNGOING P-WAVES WITH 9-TRACE MEDIAN FILTER
9. ZERO BANDPASS FILTER : 5,10 - 120,180 HZ
10. SHIFT UPGOING WAVES TO TWO-WAY VERTICAL TIME BELOW DATUM
11. VSP DECONVOLUTION OF UPGOING WAVES :
DECON OPERATOR DESIGNED USING 500 MSEC OF DOWNWAVES
TO SHAPE WAVETRAIN TO A SPIKE
12. ZERO BANDPASS FILTER : 5,10 - 120,180 HZ
13. ENHANCEMENT OF DECONVOLVED UPWAVES USING 9-POINT MEDIAN FILTER
14. AUTOMATIC GAIN CONTROL (AGC) 700 MSEC

COMMENTS

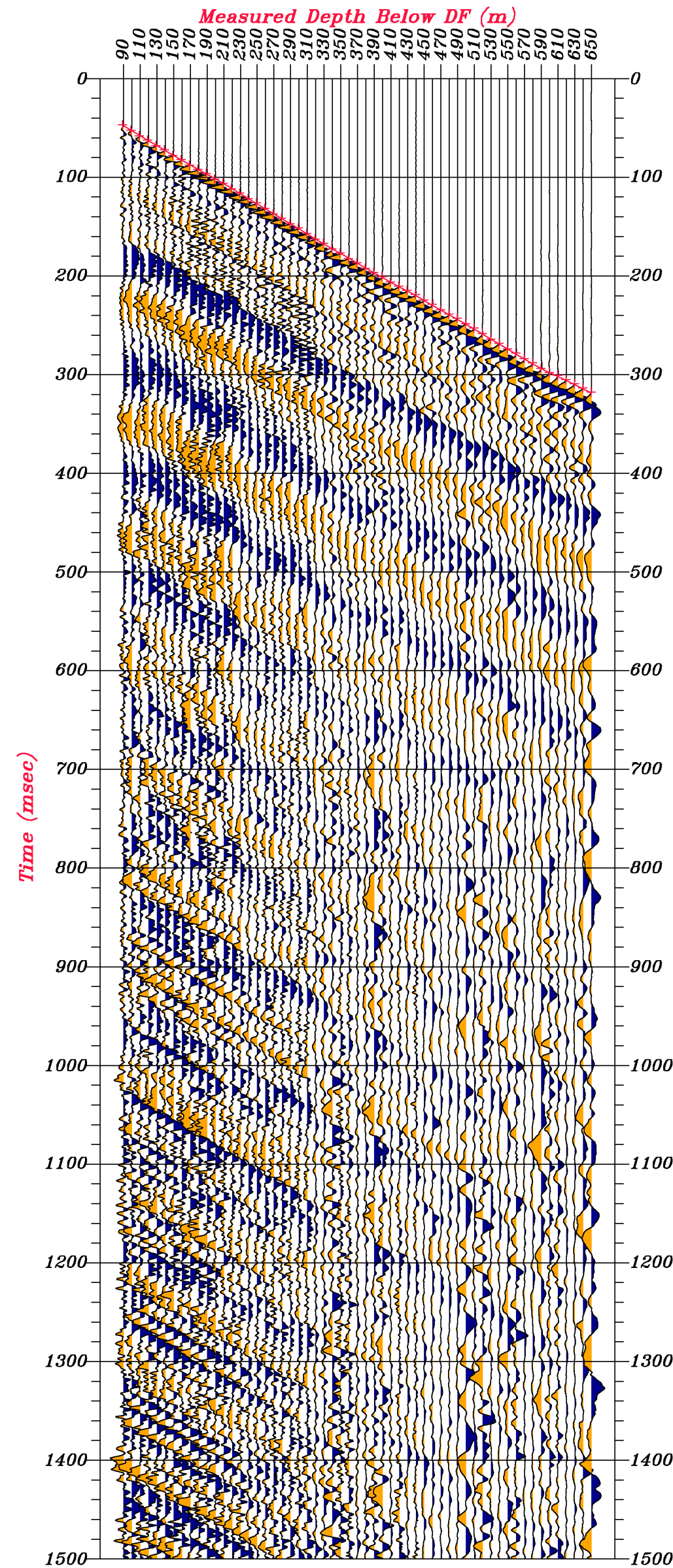
SEISMIC REFERENCE DATUM IS MEAN SEA LEVEL (MSL)
WATER VELOCITY = 1500 M/SEC.
TWO-WAY VERTICAL TIME IS REFERENCED BELOW DATUM OF MSL
TWO-WAY VERTICAL TIME SCALE IS 20 CM/SEC.

DISPLAY CONVENTION

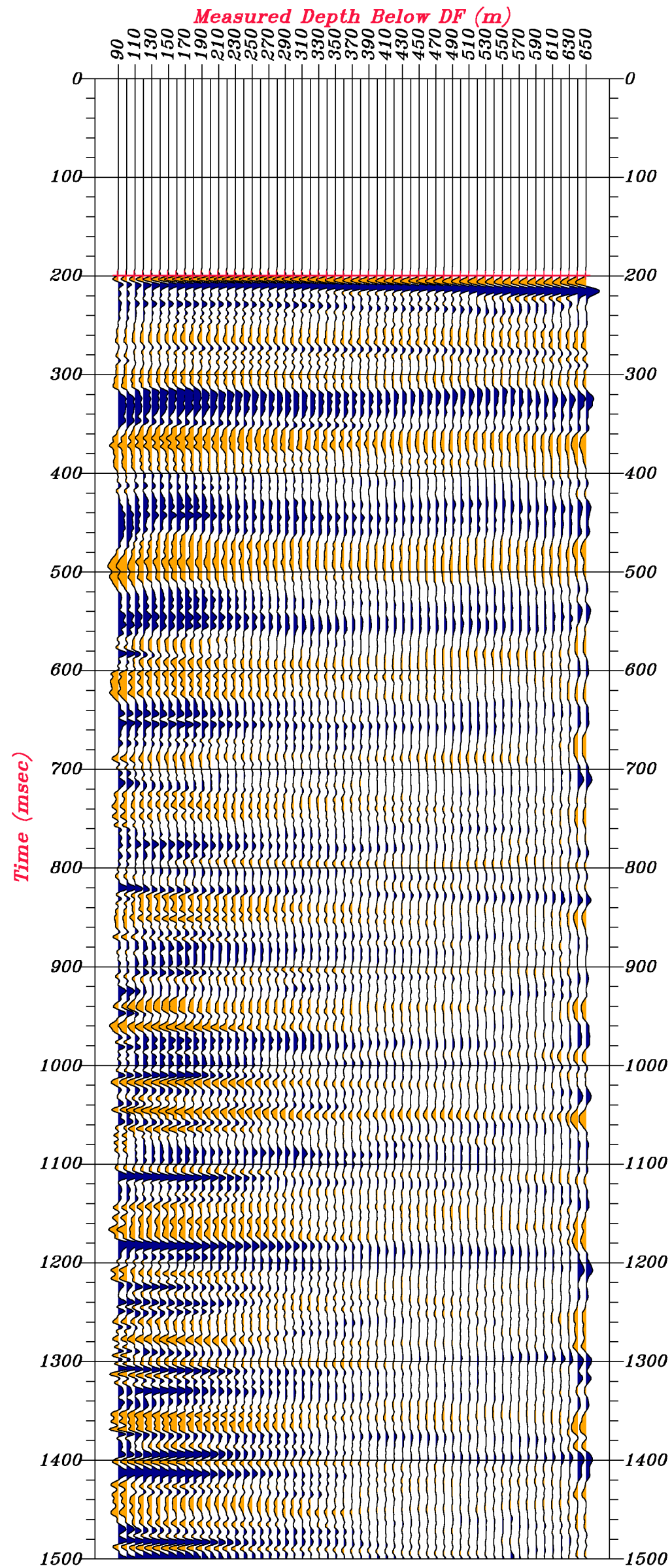
NORMAL POLARITY
AN INCREASE IN ACOUSTIC IMPEDANCE IS DISPLAYED AS A PEAK



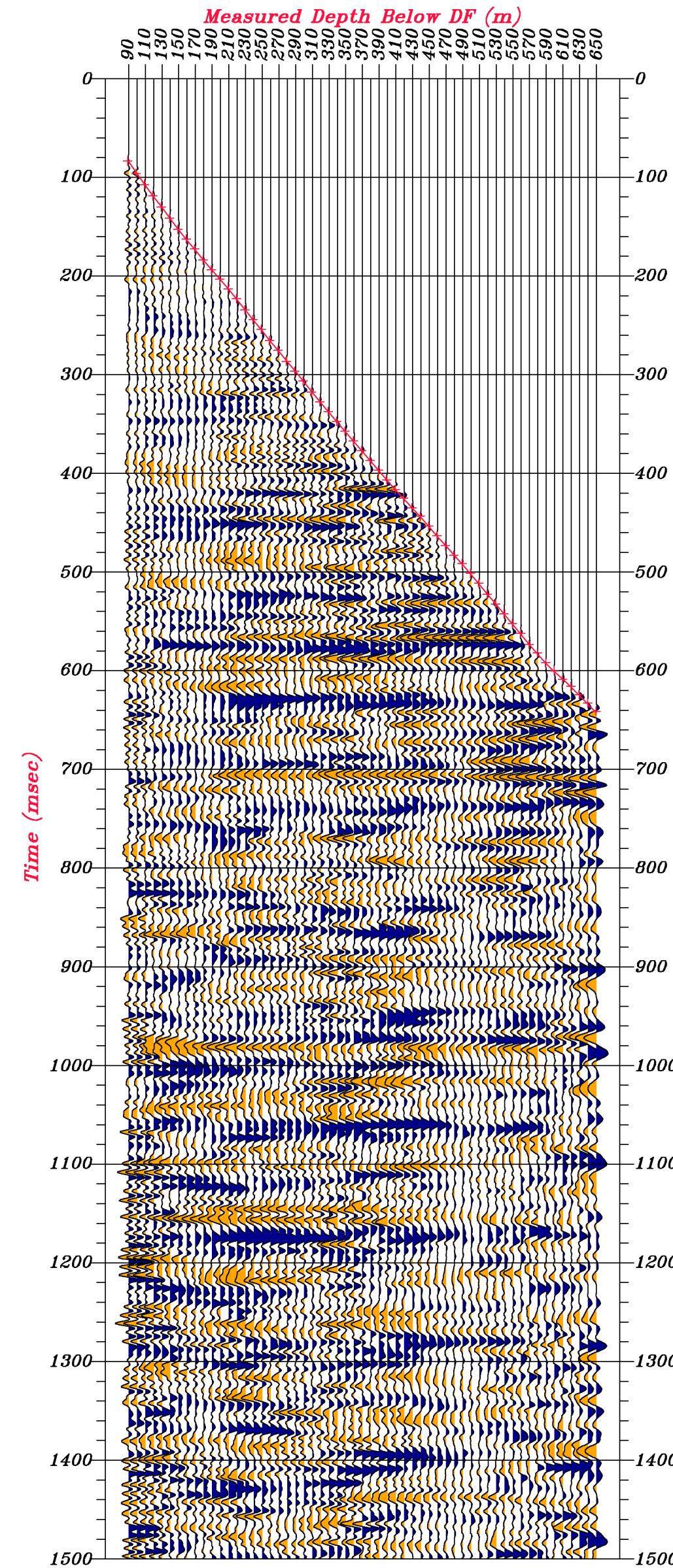
ZVSP STACKED DATA
RECORDED ONE-WAY TIME (MSEC)



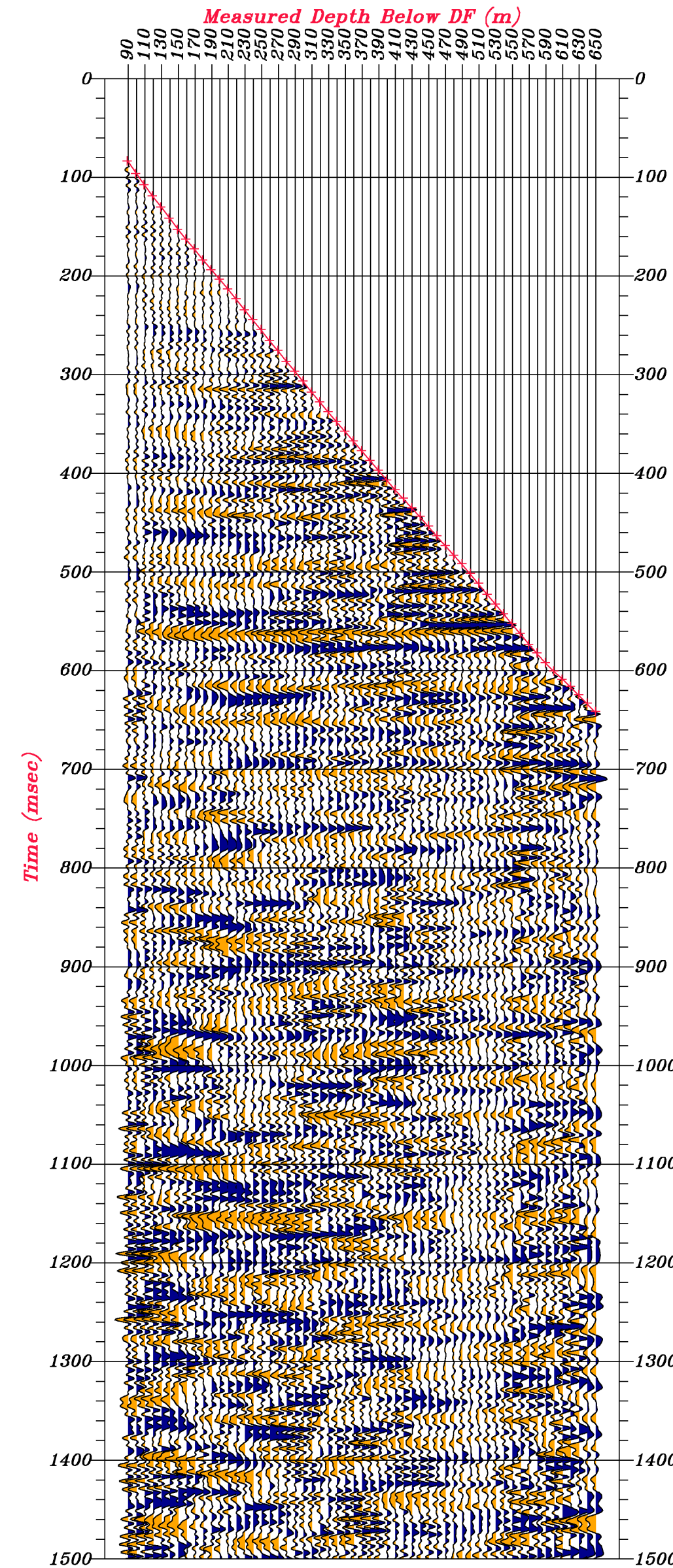
DOWNGOING WAVE
TIMES ALIGNED AT 200 MSEC



UPGOING WAVE
TWO-WAY TIME BELOW MSL (MSEC)



DECONVOLVED UPGOING WAVE
TWO-WAY TIME BELOW MSL (MSEC)



ENHANCED DECONVOLVED UPGOING WAVE
TWO-WAY TIME BELOW MSL (MSEC)

