VSfusion
A Baker Hughes - CGG Company

SANTOS & PARTNERS

WELL NAME: MARTHA-1
ZERO OFFSET VSP SURVEY

ENCLOSURE 6B

CORRIDOR STACK

SHOT BY BAKER ATLAS — 01 NOVEMBER, 2004
PROCESSED BY VSFUSION — NOVEMBER, 2004
VSFUSION PROJECT CODE SNT03

ACQUISITION INFORMATION

-CABLE-

ROTARY TABLE (RT) ELEVATION	21.5 M ABOVE MSL
WATER DEPTH	54.66 M BELOW MSL
MINIMUM DEPTH (RT)	75.0 M
MAXIMUM DEPTH (RT)	1785.0 M

-SOURCE-

ENERGY SOURCE	SLEEVE GUN ARRAY
NUMBER OF GUN	2 X 150 CU IN
TOTAL GUN VOLUME	300 CU IN
GUN DEPTH	5.0 M BELOW MSL
SOURCE DISTANCE FROM WELLHEAD	46.3 M
SOURCE AZIMUTH FROM WELLHEAD	328.0 DEG. N

-INSTRUMENTS-

RECORDING SYSTEM	SA2D
SAMPLING INTERVAL	1 MS
RECORD LENGTH	4.0 SECONDS
DOWNHOLE RECEIVER TYPE	AWS 1300 GM
ELECTRIC LOGGING COMPANY	BAKER ATLAS

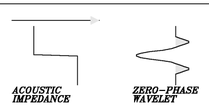
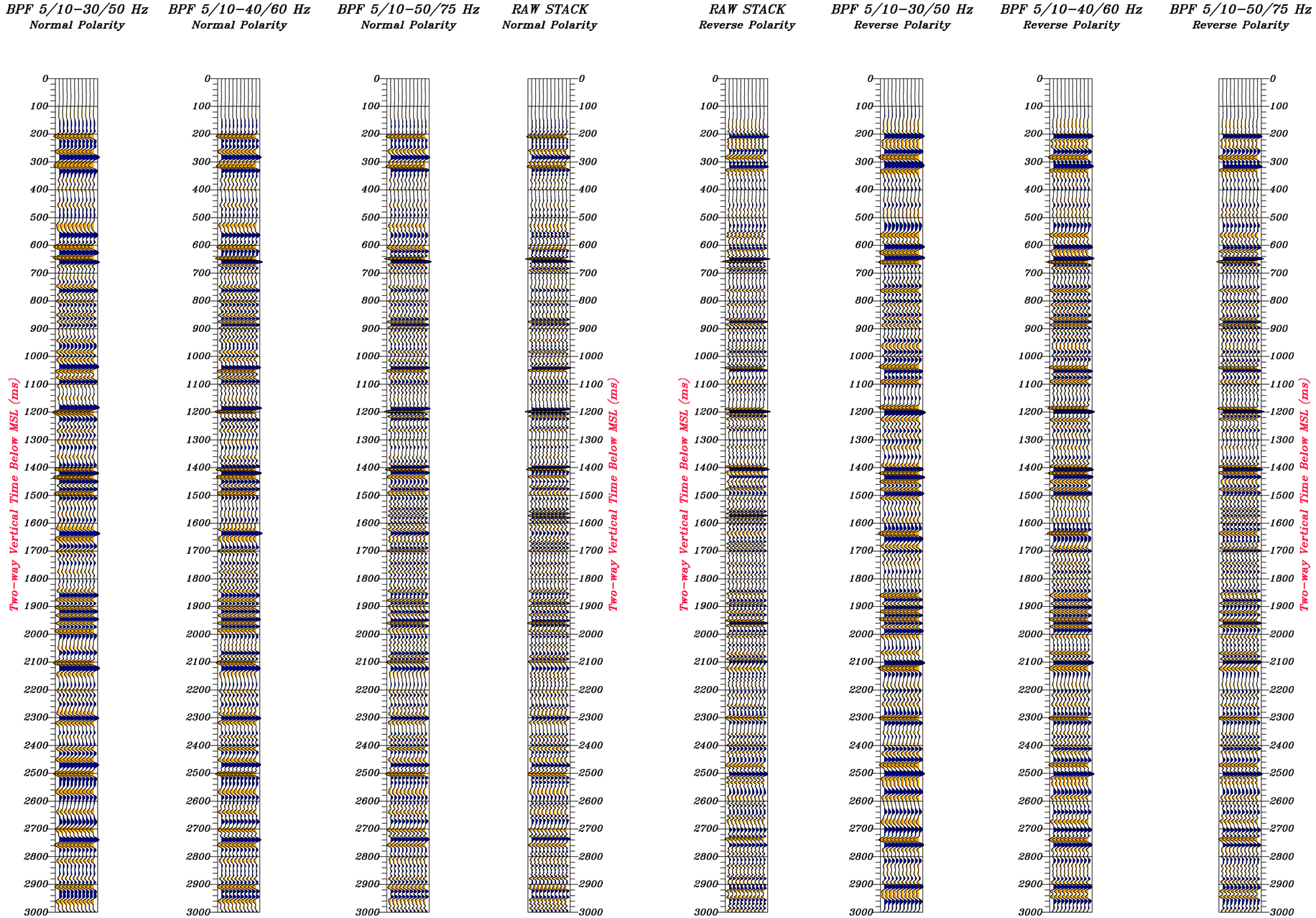
VSP PROCESSING SEQUENCE

1. CONVERT FROM SEG-Y FORMAT TO SEISLINK-X FORMAT
2. EDIT/SUM/PICK ARRIVALS
3. GEOMETRY SURVEY APPLIED
4. VELOCITY ANALYSIS
5. FK ANALYSIS TO DETERMINE FREQUENCY CONTENTS
6. SPHERICAL DIVERGENCE-GEOMETRY SPREADING CORRECTION: T**1.5
7. TUBEWAVE SUBTRACTION WITH DIP MEDIAN FILTER
8. ESTIMATION OF DOWNGOING P-WAVES FROM VERTICAL COMPONENT
   FIRST BREAK ALIGNED AT 200 MSEC.
9. EXTRACT OF DOWNGOING P-WAVES WITH 7-POINT MEDIAN FILTER
10. ZERO BANDPASS FILTER 5/10 - 80/120HZ
11. SHIFT UPGOING WAVES TO TWO-WAY VERTICAL TIME BELOW DATUM
12. VSP DECONVOLUTION OF UPGOING WAVES :
    DECON OPERATOR DESIGNED USING 800 MSEC OF DOWNWAVES
    TO SHAPE WAVETRAIN TO A SPIKE
13. ZERO BANDPASS FILTER 5/10 - 70/105 HZ
14. ENHANCEMENT OF DECONVOLVED UPWAVES WITH 7-POINT MEDIAN FILTER
15. CORIDOR WINDOW MUTE
16. CORRIDOR STACK
17. ZERO PHASE BANDPASS FILTER AS ON DISPLAY
18. AUTOMATIC GAIN CONTROL (AGC) WITH WINDOW LENGTH 300 MSEC

COMMENTS

SEISMIC REFERENCE DATUM IS MSL
REPLACEMENT VELOCITY = 1500 M/SEC.
TWO-WAY VERTICAL TIME IS REFERENCED BELOW DATUM OF MSL
TWO-WAY VERTICAL TIME SCALE IS 10 CM/SEC.

DISPLAY CONVENTION

NORMAL POLARITY

AN INCREASE IN ACOUSTIC IMPEDANCE IS DISPLAYED AS A TROUGH