

SANTOS & PARTNERS

WELL NAME: MARTHA-1  
ZERO OFFSET VSP SURVEY

ENCLOSURE 5A

SYNTHETIC SEISMOGRAM

SHOT BY BAKER ATLAS  
PROCESSED BY VSFUSION  
VSFUSION PROJECT CODE SNT03

01 NOVEMBER, 2004  
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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

SYNTHETIC SEISMOGRAM PROCESSING

1. CALIBRATED ACOUSTIC LOG
2. FROM THE CALIBRATED ACOUSTIC LOG THE FOLLOWING WERE CREATED :
  - 2.1. VELOCITY LOG
  - 2.2. IMPEDANCE LOG
  - 2.3. PRIMARY REFLECTIVITY SERIES
3. PRIMARY REFLECTIVITY SERIES CONVOLVED WITH ZERO PHASE RICKER WAVELET FILTER AS ON DISPLAYS

COMMENTS

SEISMIC REFERENCE DATUM IS MSL  
RECORDED DEPTHS AND TIMES HAVE BEEN CORRECTED TO DATUM  
REPLACEMENT VELOCITY = 1500 M/SEC.  
TWO-WAY VERTICAL TIME IS REFERENCED BELOW DATUM OF MSL  
VERTICAL TIME SCALE IS 10 CM/SEC.

DISPLAY CONVENTION

NORMAL POLARITY

AN INCREASE IN ACOUSTIC IMPEDANCE  
IS DISPLAYED AS A TROUGH

