M66 06200002 T.F. 31

SOUTHEAST

U.S.G.S.

OFFSHORE EAST COAST U.S.A.

LINE 9

SHOTPOINTS 2421-3137

TRUE AMPLITUDE SECTION

FIELD DATA

DATE SHOT	OCT -NOV 1975
VESSEL BY DIGICON	MV GULF SEAL
ENERGY SOURCE	416 GUN ARRAY
ENERGY SOURCE CAPACITY	1,700 CUBIC INCHES
SOURCE DEPTH	9 - 11 METERS
IN-LINE SHOT OFFSET	348 METERS
SHOTPOINT INTERVAL	100 METERS
FOP INTERVAL	50 METERS
MULTIPLICITY	96 FOLD
STREAMER LENGTH	3600 METERS
STREAMER DEPTH	14 - 19 METERS
GROUP CENTER INTERVAL FARS	50 METERS
NEARS	100 METERS
RECORDING INSTRUMENTS	DFS V
GAIN CONTROL	BINARY GAIN -
RECORDING FILTERS LOW	8 HZ
HIGH	124 HZ
SAMPLE RATE	2 MS
RECORD LENGTH	VARIES

DIGITAL PROCESSING

DATUM - SEA LEVEL

TRUE AMPLITUDE RECOVERY

SPHERICAL DIVERGENCE AND EXPONENTIATION WITH
ALPHA = .4 DECIBELS/MS
T1 = WATER BOTTOM
T2 = 6 SECONDS

DEWATER

A DECONVOLUTION METHOD ESPECIALLY DESIGNED FOR DEEP WATER TRAPPED ENERGY WAS APPLIED

VELOCITY ANALYSIS

A VELOCITY ANALYSIS WAS PERFORMED EVERY 3 KM USING A DEPTH CONVERTED MAX ANALYSIS. STACKING VELOCITIES INTERPRETED AT ANALYSIS LOCATIONS AT THE TOP OF THE SECTION AT THE ANALYSIS LOCATIONS.

NORMAL MOVEOUT CORRECTIONS

NMO CORRECTIONS WERE MADE USING THE ABOVE INTERPRETED FUNCTIONS APPLIED AT THEIR LOCATIONS. VELOCITIES AT INTERMEDIATE LOCATIONS WERE DETERMINED BY INTERPOLATION.

CDP STACK

96 FOLD CDP STACK WITH 1/SQRT(FOLD) RECOVERY SCALING

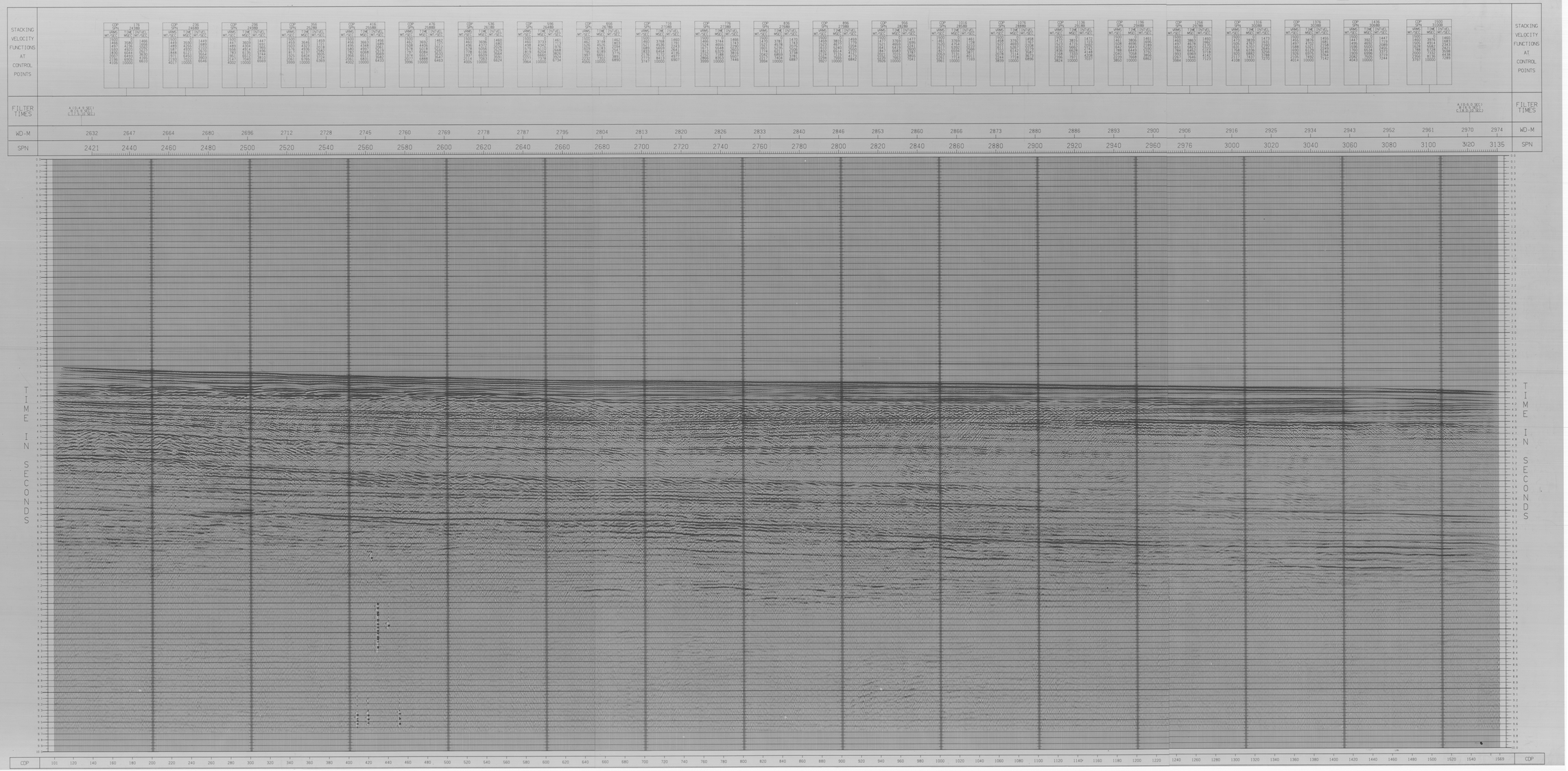
DIGITAL FILTER

NON-NORMALIZED BANDPASS FILTERS
FILTER A 10-35 HZ
FILTER B 5-25 HZ
FILTER C 5-20 HZ
SEE SECTION HEADER FOR SPACE-VARIANT FILTER APPLICATION TIMES

DISPLAY

FULL-SCALE	2.5 IN/SEC	1.21 KM/IN
HALF-SCALE	1.25 IN/SEC	2.42 KM/IN

0 1.0MI 2.0MI

GEOPHYSICAL SERVICE INC.
(A SUBSIDIARY OF TEXAS INSTRUMENTS INC.)

PARTY 3078
CHECKED BY _____ 26 MAR 1976