SOUTHEAST

U.S.G.S.

OFFSHORE EAST COAST U.S.A.

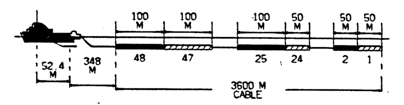
LINE IPOD

SHOTPOINTS - 300-1218

DEPTH SECTION

FIELD DATA

DATE SHOT	:	SEPT-NOV 1974
VESSEL BY DIGICON	:	M/V GULF SEAL
ENERGY SOURCE	:	AIR GUN ARRAY
ENERGY SOURCE CAPACITY	:	1700 CUBIC INCHES
SOURCE DEPTH	:	9.1 METERS
INLINE SHOT OFFSET	:	346 METERS
SHOTPOINT INTERVAL	:	100 METERS
POP INTERVAL	:	50 METERS
MULTIPLICITY	:	36 FOLD
STREAMER LENGTH	:	3600 METERS
STREAMER DEPTH	:	14 - 18 METERS
GROUP CENTER INTERVAL FARS	:	50 METERS
NEARS	:	100 METERS
RECORDING INSTRUMENTS	:	DFS III
GAIN CONTROL	:	BINARY GAIN
RECORDING FILTERS LOW	:	8 HZ
HIGH	:	62 HZ.
SAMPLE RATE	:	4 MS.
RECORD LENGTH	:	VARIES



DIGITAL PROCESSING

DATUM - SEA LEVEL

TRUE AMPLITUDE RECOVERY

SPHERICAL DIVERGENCE AND EXPONENTIATION WITH :
ALPHA = 3 DB/SECOND
T1 = WATER BOTTOM
T2 = WB + 5.5 SECONDS

DECONVOLUTION

A SINGLE 320 MS. WHITENING DECONVOLUTION FILTER WAS APPLIED. THE FILTER DESIGN GATE IS 4 SECONDS LENGTH STARTING AT THE WATER BOTTOM

VELOCITY ANALYSIS

A VELOCITY ANALYSIS WAS PERFORMED EVERY 3 KM. USING 7 DEPTH POINTS AT EACH LOCATION. STACKING VELOCITY FUNCTIONS INTERPRETED ARE ANNOTATED 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

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

DIGITAL FILTER

NON-NORMALIZED BANDPASS FILTERS :
10-35 AT BASEMENT 5-20 AT BASEMENT+1.0 SEC

TIME VARIANT SCALING

1000 MS. GATES STARTING AT THE WATER BOTTOM

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 18 JUN 1976

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