SOUTHEAST

U.S.G.S.

OFFSHORE EAST COAST U.S.A.

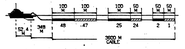
LINE IPOD

SHOTPOINTS 10440-11155

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
IN LINE SHOT OFFSET	348 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 = 4 DB/SECOND
T1 = WATER BOTTOM
T2 = MB + 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 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

DIP-FILTERING

DEPTH CONVERSION

DISPLAY

FULL SCALE	1.66 IN/KM	1.21 KM/IN
HALF-SCALE	.83 IN/KM	2.42 KM/IN

0 1.0MI 2.0MI

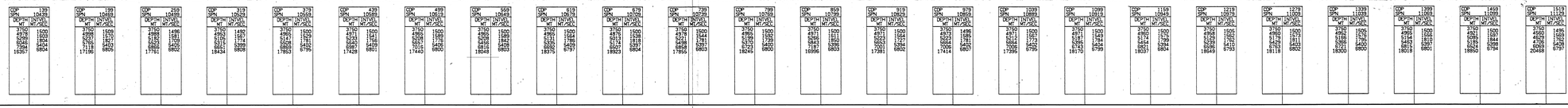
GSI

GEOPHYSICAL SERVICE INC.

(A SUBSIDIARY OF TEXAS INSTRUMENTS INC.)

PARTY 3078
CHECKED BY _____ 30 APR 1976

STACKING VELOCITY FUNCTIONS AT CONTROL POINTS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CDP 1089 SPN 10490 DEPTH INTVL MT MT/SEC 3700 1500 4998 1529 5021 1827 5719 5403 17198 6805
CDP 1139 SPN 10540 DEPTH INTVL MT MT/SEC 3700 1496 4986 1536 5185 1794 6808 5405 17701 6802
CDP 1189 SPN 10590 DEPTH INTVL MT MT/SEC 3700 1495 4962 1570 5189 1774 6813 5398 18434 6808
CDP 1239 SPN 10640 DEPTH INTVL MT MT/SEC 3700 1500 4966 1599 5147 1781 5909 5401 17953 6796
CDP 1289 SPN 10690 DEPTH INTVL MT MT/SEC 3700 1500 4971 1500 5233 1756 5987 5409 17429 6801
CDP 1339 SPN 10740 DEPTH INTVL MT MT/SEC 3700 1500 4982 1500 5208 1776 7016 5406 17440 6800
CDP 1389 SPN 10790 DEPTH INTVL MT MT/SEC 3700 1500 4966 1500 5131 1796 6816 5408 18048 6803
CDP 1439 SPN 10840 DEPTH INTVL MT MT/SEC 3700 1500 4965 1500 5196 1759 6370 5409 18375 6797
CDP 1489 SPN 10890 DEPTH INTVL MT MT/SEC 3700 1500 4978 1508 5013 1818 6372 5397 18923 6804
CDP 1539 SPN 10940 DEPTH INTVL MT MT/SEC 3700 1500 4978 1549 5241 1781 6498 5393 17856 6803
CDP 1589 SPN 10990 DEPTH INTVL MT MT/SEC 3700 1500 4971 1500 5266 1850 5993 5396 16986 6809
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CDP 1839 SPN 11240 DEPTH INTVL MT MT/SEC 3700 1520 4962 1570 5114 1794 5451 5394 18031 6804
CDP 1889 SPN 11290 DEPTH INTVL MT MT/SEC 3700 1520 4962 1570 5114 1794 5451 5394 18031 6804
CDP 1939 SPN 11340 DEPTH INTVL MT MT/SEC 3700 1496 4969 1570 5114 1794 5451 5394 18031 6804
CDP 1989 SPN 11390 DEPTH INTVL MT MT/SEC 3700 1496 4969 1570 5114 1794 5451 5394 18031 6804
CDP 2039 SPN 11440 DEPTH INTVL MT MT/SEC 3700 1496 4969 1570 5114 1794 5451 5394 18031 6804
CDP