MS 02271
4-267

NORTHEAST

ALL DATA AND INFORMATION SHOWN ON THIS CROSS SECTION ARE PROPRIETARY TO GEOPHYSICAL SERVICE INC. AND ITS AFFILIATES ('GSI') AND ARE FURNISHED BY GSI TO U.S.G.S. ('COMPANY') FOR USE BY COMPANY UNDER RESTRICTIONS OF DISCLOSURE AND REPRODUCTION CONTAINED IN THE 'AGREEMENT' BETWEEN GSI AND COMPANY DATED 9-75.

# LINE 8

## SHOTPOINTS 3968 TO 4128

# BERMUDA TRIANGLE

OFFSHORE
EAST COAST USA

## SCALED SECTION

## FIELD DATA

| | |
|---|---|
| FIELD PARTY | 437 |
| VESSEL | M/V JONSSON |
| DATE SHOT | APRIL 1974 |
| ENERGY SOURCE | AIR GUNS |
| AIRGUN CAPACITY | 1310 CU. IN. |
| SOURCE DEPTH | 25 - 30 FEET |
| RECORDING INSTRUMENTS | DFS4 (21 TRACK) |
| GAIN CONTROL | I F P |
| RECORDING FILTERS LOW | 8 HZ 18 DB/OCT |
| HIGH | 62 HZ 72 DB/OCT |
| SAMPLE RATE | 4 MSEC |
| RECORD LENGTH | 7 SECONDS |
| STREAMER DEPTH | 50 - 55 FEET |
| STREAMER LENGTH | TI 3600 M. (A.C.) 48 TRACE |
| GROUP CENTER INTERVAL | 50 METERS FARS (1-24) |
| | 100 METERS NEARS (25-48) |
| INLINE SHOT OFFSET | 306 METERS |
| SHOTPOINT INTERVAL | 50 METERS |
| MULTIPLICITY | 24 FOLD (TRACES 25-48) |
| | 12 FOLD (TRACES 1-24) |

## DIGITAL PROCESSING

DATUM - SEA LEVEL

### TRUE AMPLITUDE RECOVERY

ALPHA = 5.5 DB/SEC
T1 = WATER BOTTOM
T2 = 5.5 SEC BELOW WATER BOTTOM

### TIME VARIANT DECONVOLUTION

| WATER BOTTOM | FILTERS | LENGTH (MSEC) |
|---|---|---|
| < 131 FT | 2 | 180 |
| 131 - 760 FT | 2 | 292 |
| > 760 FT | 3 | 188 |

### TIME VARIANT SCALING

GATE LENGTH = 500 MSEC
UNITY SCALARS
START TIMES WATER DEPTH DEPENDENT

### VELOCITY ANALYSIS

MINI-700 PACKAGE VELOCITY ANALYSIS
SCATTERGRAMS AT 2 MILE INTERVALS

### NORMAL MOVEOUT CORRECTION

VELOCITY ANNOTATION ON SECTION HEADING

### FIRST BREAK SUPPRESSION

SEE TAPER ON RECORD

### CDP STACK

48 FOLD WITH ADJACENT TRACE MIX OF FAR TRACES
(TRACES 1-24 = 12 FOLD. 25-48 = 24 FOLD)

### TIME VARIANT DECONVOLUTION

NOT APPLIED

### TIME VARIANT FILTERING

| TIME (MSEC.) | FILTER (HZ.) |
|---|---|
| WB | 15-42 |
| WB + 1100 | 10-31 |
| WB + 1900 | 8-30 |
| WB + 4500 | 8-27 |

### TIME VARIANT SCALING

UNITY SCALARS
START TIME = WATER BOTTOM
GATE LENGTH = 500 MSEC

### DISPLAY

WIGGLE TRACE VARIABLE AREA
24 TRACES/IN.
2.5 INCHES/SEC.

| DISPLAY GAIN INPUT | |
|---|---|
| CDP | ALL |
| GAIN DB | TIME MSEC |
| -82.0 | 5000 |

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

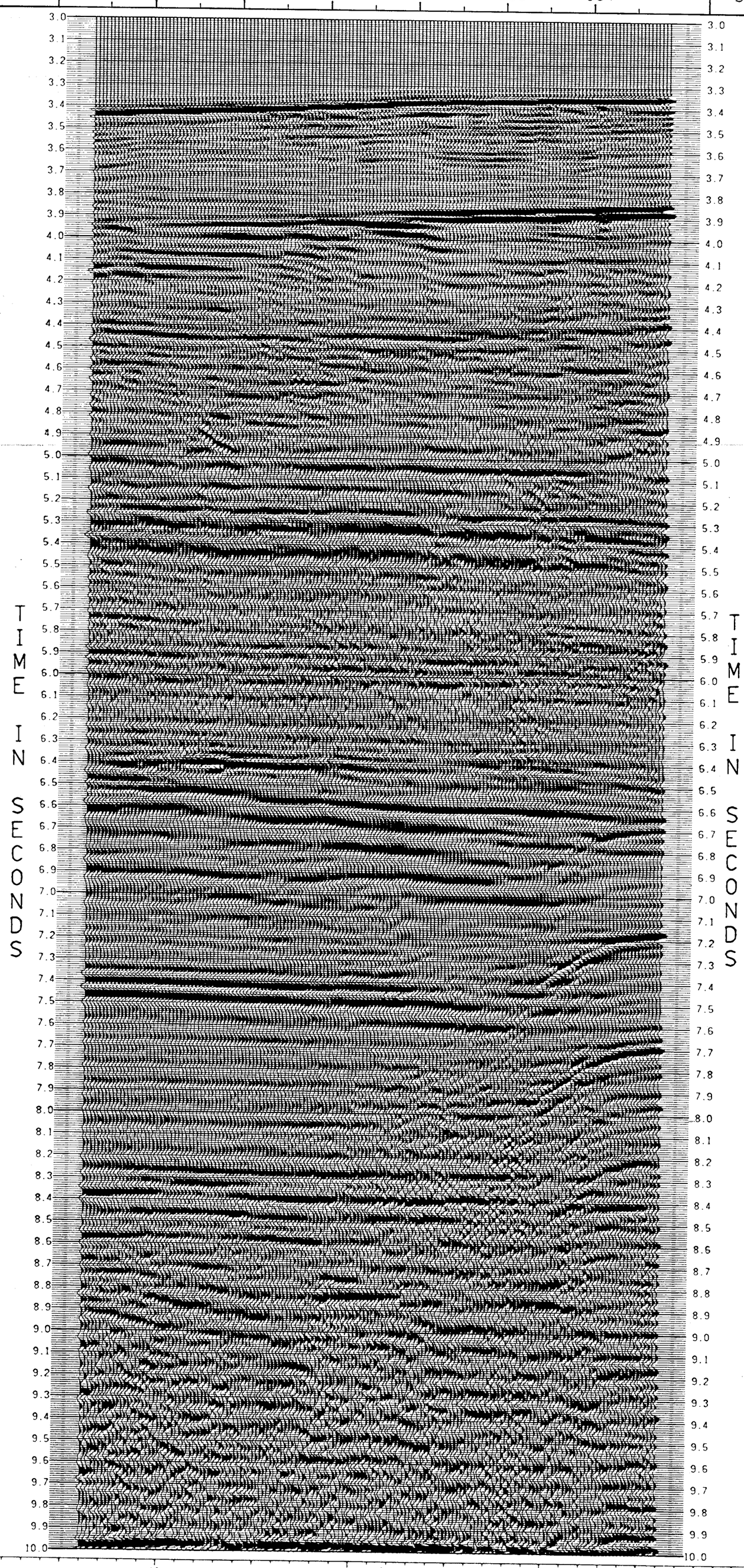
Tipex

L8
02 APR 1975
22:19:03

PROCESSING CHECKED BY : D. MACKIE

| CDP | 4109 |
|---|---|
| SPN | 3976 |
| VRMS FT/SEC | TIME MSEC |
| 4850 | 3437 |
| 5412 | 3670 |
| 5300 | 4617 |
| 5713 | 5230 |
| 5679 | 5512 |
| 6406 | 6339 |
| 6476 | 6574 |
| 6800 | 7000 |
| 7186 | 7398 |
| 8071 | 8368 |
| 9500 | 10000 |

| CDP | 4173 |
|---|---|
| SPN | 4040 |
| VRMS FT/SEC | TIME MSEC |
| 4850 | 3412 |
| 5096 | 3529 |
| 5444 | 3639 |
| 5474 | 3883 |
| 5428 | 4441 |
| 5337 | 4743 |
| 5502 | 5039 |
| 5678 | 5484 |
| 6450 | 6616 |
| 8337 | 8790 |
| 9800 | 10000 |

| CDP | 4237 |
|---|---|
| SPN | 4104 |
| VRMS FT/SEC | TIME MSEC |
| 4850 | 3381 |
| 5280 | 3611 |
| 5441 | 3870 |
| 5321 | 4087 |
| 5441 | 4410 |
| 5583 | 5031 |
| 5929 | 5381 |
| 5992 | 5893 |
| 6399 | 6593 |
| 7953 | 8386 |
| 9800 | 10000 |

| XLINES | LINE 1 SP 3115 | | | | | | XLINES |
|---|---|---|---|---|---|---|---|
| CDP | 4117 | 4141 | 4165 | 4189 | 4213 | 4237 | CDP |
| WD FT | 8327 | 8305 | 8282 | 8259 | 8237 | 8201 | WD FT |
| SPN | 3984 | 4008 | 4032 | 4056 | 4080 | 4104 | SPN |