SOUTHEAST

U.S.G.S.

OFFSHORE EAST COAST U.S.A.

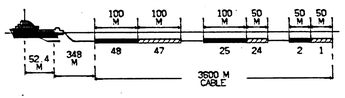
LINE IPOD

SHOTPOINTS 2161-2398

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 = 4 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.
5-25 HZ. (4-5.5 SEC)

TIME VARIANT SCALING

1000 MS. GATES STARTING AT THE WATER BOTTOM

DIP-FILTERING

DEPTH CONVERSION

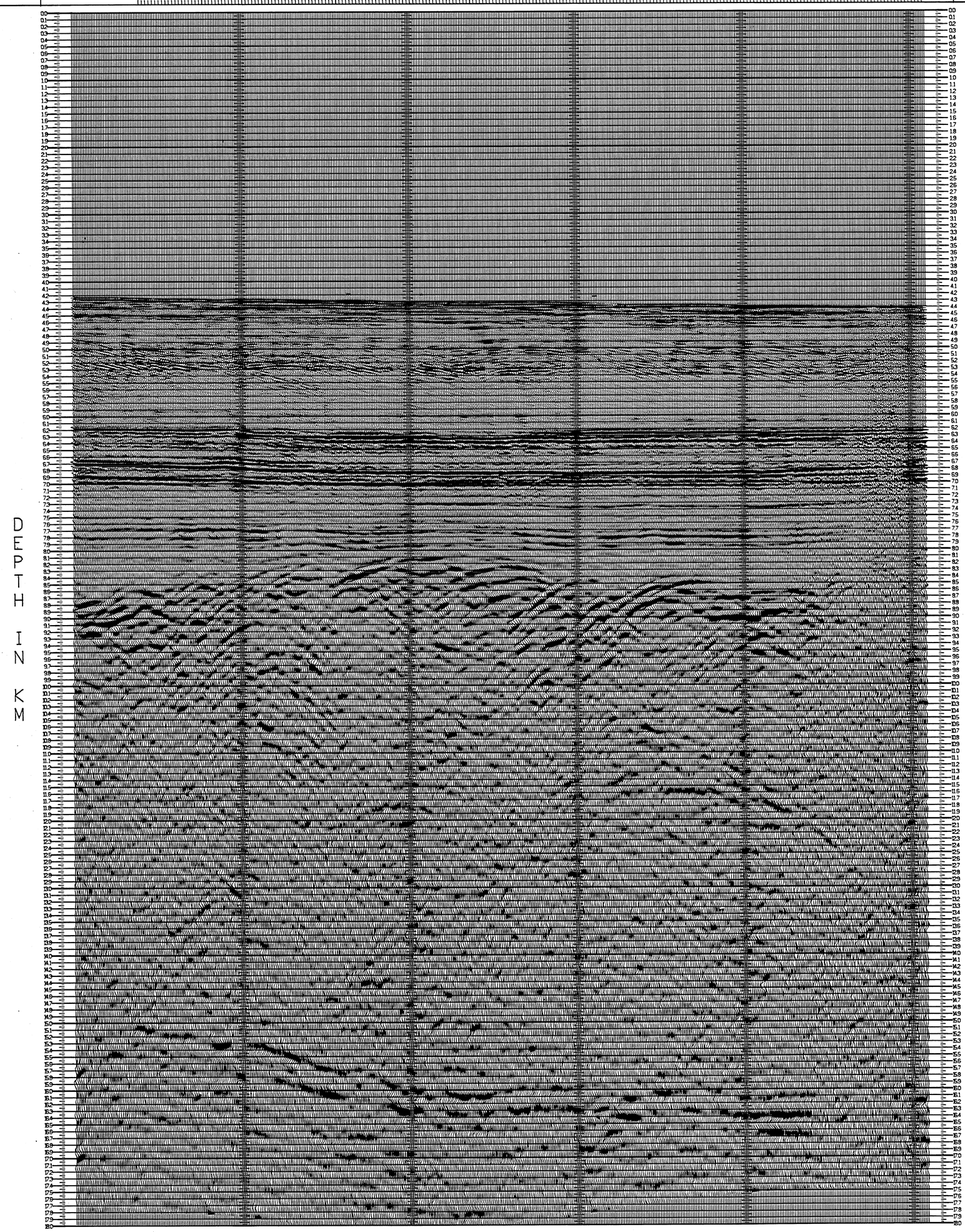
DISPLAY

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

0 1.0MI 2.0MI

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

STACKING VELOCITY FUNCTIONS AT CONTROL POINTS

CDP / SPN	DEPTH MT	INTVEL MT/SEC
139 / 2160	2250	1501
	4175	1631
	4781	2116
	6350	3059
	7685	3468
	8536	5397
	9893	6806
	17860	
199 / 2190	2250	1503
	4241	1616
	4803	2101
	6265	3061
	7557	3455
	8523	5416
	9888	6807
	17872	
259 / 2220	2250	1503
	4241	1627
	4796	2173
	6323	3080
	7723	3452
	8374	5413
	9748	6808
	18145	
319 / 2250	2250	1500
	4258	1636
	4851	2201
	6342	3150
	7729	3354
	8281	5416
	9613	6805
	18258	
379 / 2280	2250	1498
	4276	1644
	4796	2129
	6297	3110
	7747	3316
	8399	5408
	9754	6805
	18004	
439 / 2310	2250	1503
	4331	1639
	4803	2099
	6239	3161
	7806	3250
	8656	5387
	10006	6805
	17726	
499 / 2340	2250	1500
	4342	1625
	4825	2109
	6295	3140
	7829	3172
	8648	5408
	10003	6802
	17576	
559 / 2370	2250	1500
	4342	1610
	4843	2097
	6302	3056
	7797	3186
	8593	5391
	9943	6795
	17478	

WD-M	4238	4248	4250	4268	4282	4298	4298	4327	4442	4365	4369	4373	4360
SPN	2161	2180	2200	2220	2240	2260	2280	2300	2320	2340	2360	2380	2395