SOUTHEAST

U.S.G.S.

OFFSHORE EAST COAST U.S.A.

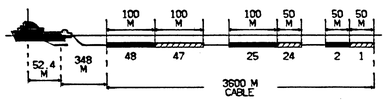
LINE IPOD

SHOTPOINTS 3240-3430

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	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 = 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

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.

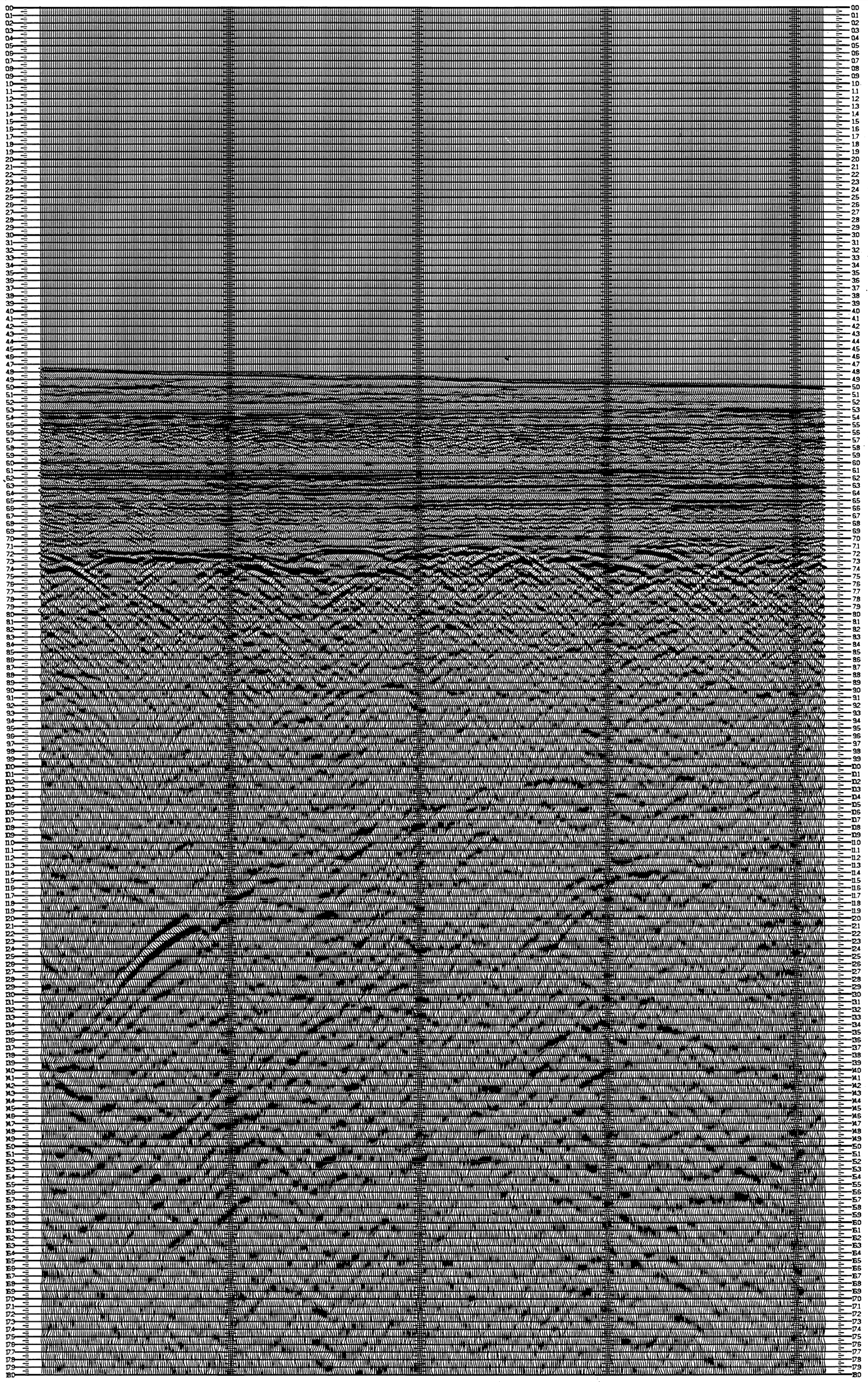
(A SUBSIDIARY OF TEXAS INSTRUMENTS INC)

PARTY 3078
CHECKED BY _____ 01 MAY 1976

STACKING VELOCITY FUNCTIONS AT CONTROL POINTS

CDP 139 SPN 3239		CDP 199 SPN 3269		CDP 259 SPN 3299		CDP 319 SPN 3329		CDP 379 SPN 3359		CDP 439 SPN 3389	
DEPTH MT	INTVEL MT/SEC	DEPTH MT	INTVEL MT/SEC	DEPTH MT	INTVEL MT/SEC	DEPTH MT	INTVEL MT/SEC	DEPTH MT	INTVEL MT/SEC	DEPTH MT	INTVEL MT/SEC
4500	1501	4500	1500	4500	1500	4500	1501	4500	1500	4500	1500
4751	1615	4809	1608	4819	1621	4855	1602	4902	1622	4935	1629
5172	1691	5157	1715	5176	1696	5170	1723	5166	1703	5187	1707
5594	2162	5584	2138	5519	2123	5523	2001	5523	1956	5508	1965
6202	2802	6176	2823	6218	2730	6171	2741	6169	2760	6187	2824
7135	5403	7203	5406	7141	5397	7188	5394	7132	5398	7172	5409
8493	6802	8557	6805	8487	6802	8537	6801	8479	6797	8527	6808
18403		18339		18336		18172		18205		18211	

WD-M	4762	4785	4810	4822	4830	4860	4890	4916	4937	4957
SPN	3240	3260	3280	3300	3320	3340	3360	3380	3400	3420



CDP	101	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	516	CDP