SOUTHEAST

U.S.G.S.

OFFSHORE EAST COAST U.S.A.

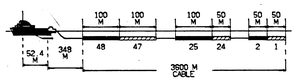
LINE IPOD

SHOTPOINTS 4410-4720

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

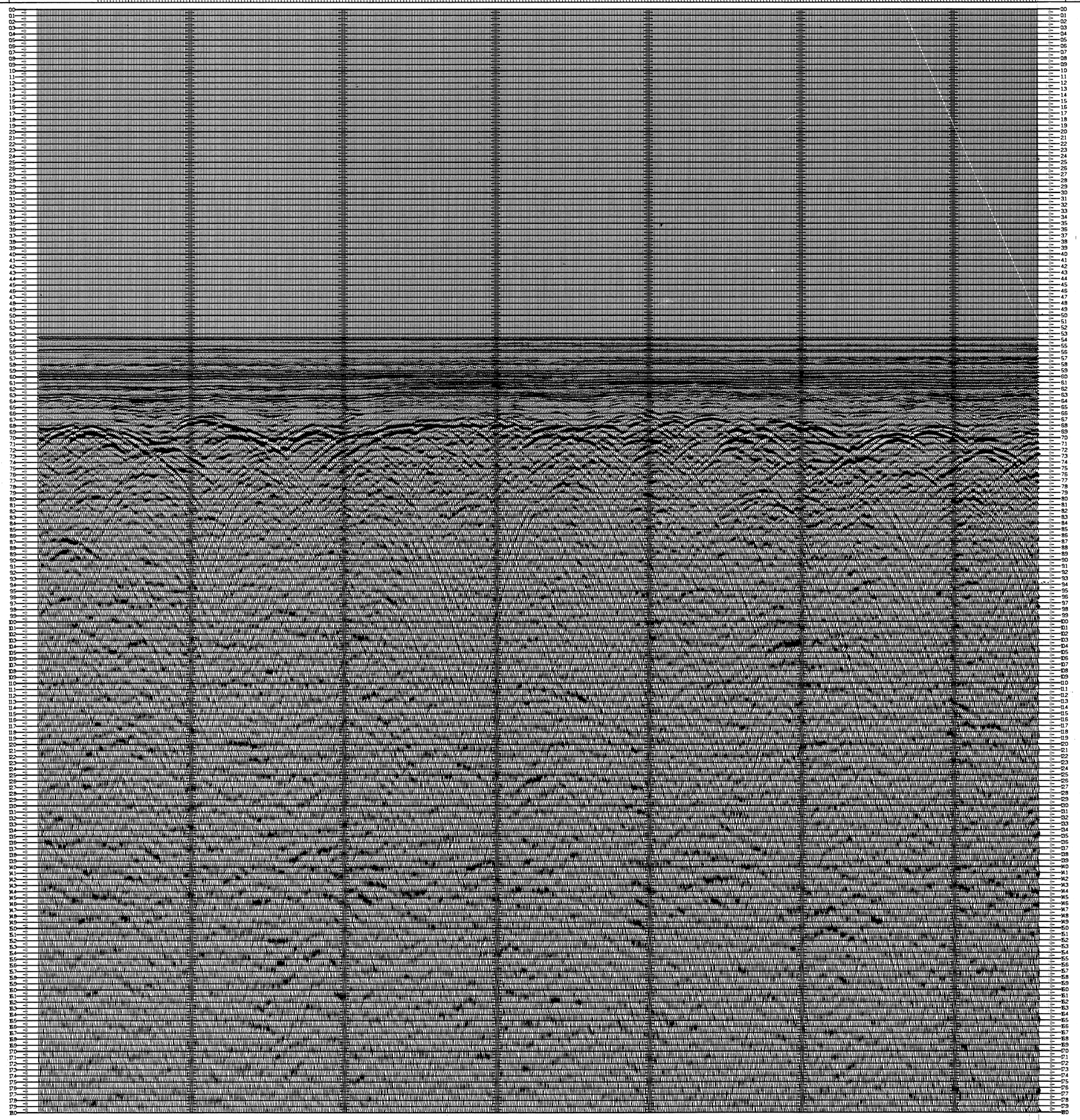
GEOPHYSICAL SERVICE INC.
(A SUBSIDIARY OF TEXAS INSTRUMENTS INC)

PARTY 3078
CHECKED BY _____ 07 MAY 1976

STACKING VELOCITY FUNCTIONS AT CONTROL POINTS

CDP	SPN	DEPTH MT	INTVEL MT/SEC
139	4409	4497	1506
		5290	1571
		5540	1748
		5794	1917
		6314	2486
		6744	5400
		8105	6798
		18115	
199	4439	4497	1506
		5311	1616
		5560	1742
		5796	1971
		6341	2342
		6885	5384
		8028	6807
		18221	
259	4469	4500	1501
		5315	1619
		5559	1714
		5794	2004
		6350	2498
		6707	5411
		8041	6799
		18253	
319	4499	4500	1500
		5311	1622
		5547	1704
		5794	1904
		6313	2459
		6744	5411
		8089	6801
		18102	
379	4529	4500	1501
		5315	1621
		5555	1714
		5790	1915
		6314	2448
		6751	5395
		8102	6803
		18094	
439	4559	4494	1505
		5323	1650
		5554	1752
		5781	1904
		6320	2365
		6735	5398
		8092	6803
		18089	
499	4589	4500	1501
		5315	1619
		5559	1718
		5790	1915
		6277	2403
		6621	5393
		7986	6802
		18331	
559	4619	4497	1506
		5319	1625
		5551	1747
		5782	1904
		6281	2451
		6619	5392
		7973	6800
		18362	
619	4649	4497	1499
		5323	1622
		5559	1715
		5753	1960
		6348	2401
		6642	5407
		8010	6802
		18283	
679	4679	4497	1499
		5323	1622
		5559	1753
		5758	1993
		6370	2457
		6801	5401
		8151	6808
		18073	

WD-M	5325	5325	5333	5333	5333	5333	5333	5333	5333	5335	5338	5341	5342	5343	5345	5346
SPN	4410		4440	4460	4480	4500	4520	4540	4560	4580	4600	4620	4640	4660	4680	4700



CDP 101 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500 520 540 560 580 600 620 640 660 680 700 720 756 CDP