SOUTHEAST

U.S.G.S.

OFFSHORE EAST COAST U.S.A.

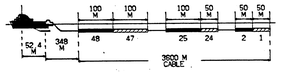
LINE IPOD

SHOTPOINTS 2300-2629

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 = 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

GSI

GEOPHYSICAL SERVICE INC.

(A SUBSIDIARY OF TEXAS INSTRUMENTS INC)

PARTY 3078
CHECKED BY _____ 03 MAY 1976

STACKING VELOCITY FUNCTIONS AT CONTROL POINTS

CDP / SPN	DEPTH MT	INTVEL MT/SEC
139 / 2299	2625	1498
	4371	1679
	4854	2140
	6347	3067
	7813	3112
	8564	5380
	9928	6803
	18951	
199 / 2329	2625	1498
	4371	1675
	4865	2163
	6385	2907
	7803	3182
	8409	5390
	9799	6805
	18999	
259 / 2359	2625	1505
	4391	1683
	4904	2189
	6415	2931
	7760	3129
	8428	5395
	9765	6796
	18964	
319 / 2389	2625	1498
	4381	1672
	4886	2100
	6318	2919
	7670	3151
	8103	5406
	9457	6799
	19264	
379 / 2419	2625	1505
	4417	1675
	4922	2037
	6292	2926
	7596	3166
	8332	5414
	9956	6803
	18880	
439 / 2449	2625	1503
	4467	1656
	4933	2105
	6424	2967
	7717	3212
	8225	5389
	9577	6807
	19035	
499 / 2479	2625	1503
	4530	1636
	4908	2194
	6434	2963
	7778	3121
	8292	5413
	9651	6808
	19086	
559 / 2509	2625	1501
	4563	1642
	4966	2012
	6300	2979
	7623	3149
	8197	5392
	9472	6805
	18906	
619 / 2539	2625	1500
	4584	1626
	4996	2040
	6323	3095
	7746	3159
	8356	5391
	9706	6804
	18803	
679 / 2569	2625	1500
	4569	1615
	5022	1978
	6274	3143
	7706	3199
	8338	5391
	9688	6804
	18785	
739 / 2599	2625	1498
	4618	1616
	5057	2082
	6316	3148
	7854	3205
	8542	5395
	9893	6804
	18655	

STACKING VELOCITY FUNCTIONS AT CONTROL POINTS

WD-M	4335	4335	4357	4365	4365	4387	4395	4414	4433	4448	4463	4493	4496	4508	4538	4545	4575	WD-M
SPN	2300	2320	2340	2360	2380	2400	2420	2440	2460	2480	2500	2520	2540	2560	2580	2600	2620	SPN

DEPTH IN KM

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CDP	101	120	140	150	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	740	760	794	CDP