SOUTHEAST

U.S.G.S.

OFFSHORE EAST COAST U.S.A.

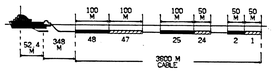
LINE IPOD

SHOTPOINTS 3431-3800

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

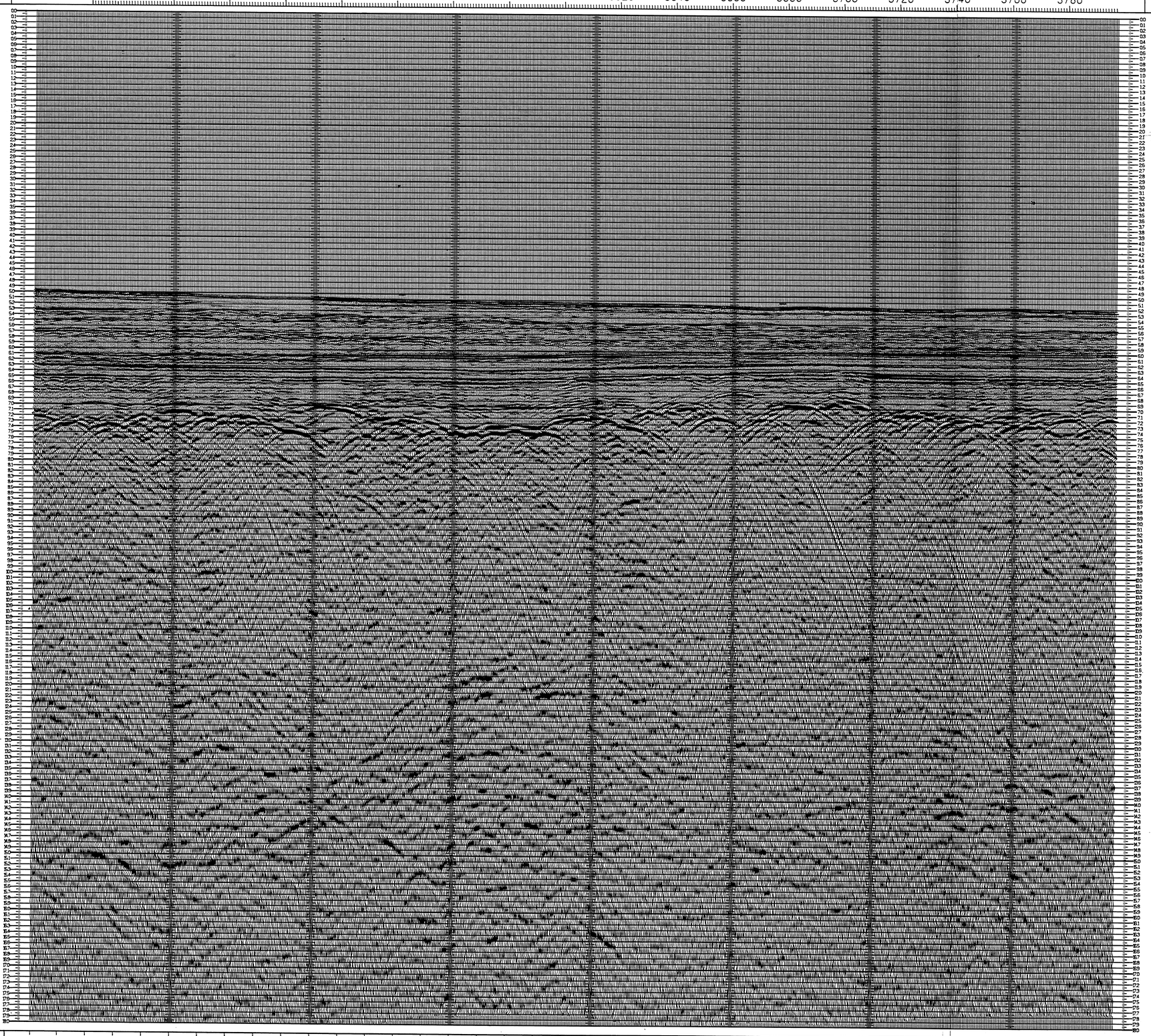
GEOPHYSICAL SERVICE INC.
(A SUBSIDIARY OF TEXAS INSTRUMENTS INC)

PARTY 3078
CHECKED BY _____ 03 MAY 1976

STACKING VELOCITY FUNCTIONS AT CONTROL POINTS

CDP	SPN	DEPTH MT	INTVEL MT/SEC
139	3430	4500	1500
		4973	1620
		5246	1763
		5913	2315
		6228	2883
		7229	5392
		8577	6801
		18129	
199	3460	4500	1501
		4998	1604
		5259	1749
		5877	2330
		6193	2725
		7020	5409
		8375	6804
		18325	
259	3490	4500	1501
		5031	1624
		5261	1756
		5935	2225
		6265	2622
		7113	5401
		8463	6805
		17986	
319	3520	4500	1501
		5049	1632
		5301	1767
		5883	2222
		6278	2632
		6987	5410
		8332	6802
		18225	
379	3550	4500	1501
		5102	1595
		5333	1731
		5896	2240
		6303	2658
		7158	5402
		8503	6800
		17897	
439	3580	4500	1500
		5107	1596
		5339	1736
		5764	2165
		6261	2641
		7296	5402
		8561	6802
		17859	
499	3610	4500	1500
		5115	1594
		5352	1739
		5829	2065
		6209	2579
		7192	5400
		8452	6799
		17879	
559	3640	4500	1500
		5127	1594
		5391	1739
		5842	1974
		6148	2635
		6911	5407
		8263	6799
		18199	
619	3670	4500	1508
		5191	1575
		5413	1744
		5886	1933
		6136	2544
		6997	5401
		8350	6800
		17947	
679	3700	4500	1500
		5174	1579
		5460	1696
		5814	1943
		6118	2488
		6874	5401
		8230	6801
		18087	
739	3730	4500	1501
		5182	1611
		5436	1720
		5873	1925
		6126	2496
		6995	5402
		8364	6801
		17892	
799	3760	4500	1500
		5171	1643
		5493	1715
		5822	1991
		6131	2435
		7042	5403
		8395	6800
		17813	

WD-M	4987	5003	5028	5047	5066	5085	5096	5107	5115	5122	5130	5160	5167	5167	5182	5182	5175	5193
SPN	3431	3460	3480	3500	3520	3540	3560	3580	3600	3620	3640	3660	3680	3700	3720	3740	3760	3780



CDP 101 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500 520 540 560 580 600 620 640 660 680 700 720 740 760 780 800 820 840 874 CDP

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