2930

SOUTHEAST

U.S.G.S.

OFFSHORE EAST COAST U.S.A.

LINE IPOD

SHOTPOINTS 2800-3277

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

100 M 100 M 100 M 50 M 50 M 50 M
48 47 25 24 2 1
52.4 M 348 M
3600 M CABLE

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)

PARTY 3078
CHECKED BY ______________ 03 MAY 1976

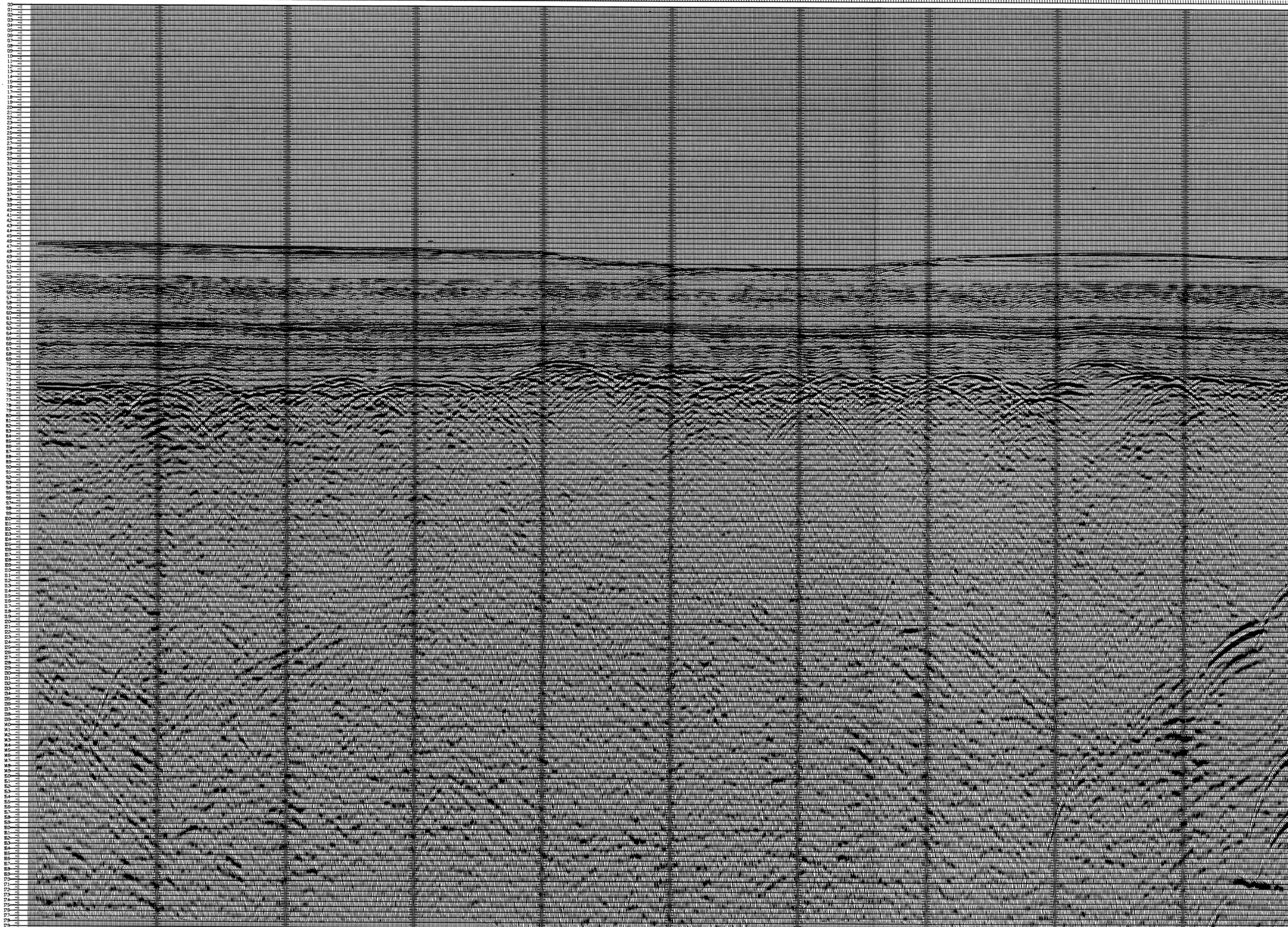
STACKING VELOCITY FUNCTIONS AT CONTROL POINTS

CDP	SPN	DEPTH MT	INTVEL MT/SEC
139	2799	2625 4680 5223 6247 7437 8775 19478	1500 1683 1951 2889 5395 6807
199	2829	2625 4655 5225 6246 7409 8748 19451	1500 1654 1965 2824 5401 6807
259	2859	2625 4663 5242 6309 7386 8725 19521	1501 1681 2076 2706 5400 6803
319	2889	2625 4684 5211 6291 7365 8708 19535	1500 1666 2056 2721 5403 6800
379	2919	2625 4714 5241 6272 7355 8725 19502	1501 1635 2065 2723 5393 6804
439	2949	2625 4732 5236 6259 7426 8780 19371	1498 1651 2037 2736 5396 6796
499	2979	2625 4753 5245 6201 7016 8372 19843	1498 1644 1960 2666 5405 6806
559	3009	2625 4969 5217 6285 7145 8513 19697	1498 1654 2016 2788 5397 6806
619	3039	2625 5057 5238 6266 7152 8505 19638	1503 1652 2021 2732 5392 6799
679	3069	2625 5086 5243 6262 7136 8491 19588	1503 1678 1972 2741 5409 6800
739	3099	2625 5090 5234 6279 7233 8585 19432	1503 1694 1991 2702 5401 6799
799	3129	2625 4943 5246 6252 7197 8534 19521	1501 1626 1957 2768 5394 6804
859	3159	2625 4815 5269 6303 7203 8562 19701	1503 1634 2088 2723 5412 6803
919	3189	2625 4796 5242 6277 6981 8321 20071	1505 1624 2062 2766 5406 6800
979	3219	2625 4779 5232 6261 7115 8452 19748	1498 1619 2000 2752 5404 6805
1039	3249	2625 4831 5254 6337 7180 8558 19719	1503 1699 2074 2677 5405 6804

WD-M: 4590 4605 4621 4639 4657 4669 4681 4701 4728 4755 4852 4950 5046 4966 5042 5046 4912 4785 4755 4728 4726 4744 4762 4800 4800

SPN: 2800 2820 2840 2860 2880 2900 2920 2940 2960 2980 3000 3020 3040 3060 3080 3100 3120 3140 3160 3180 3200 3220 3240 3274

DEPTH IN KM



CDP: 101 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500 520 540 560 580 600 620 640 660 680 700 720 740 760 780 800 820 840 860 880 900 920 940 960 980 1000 1020 1040 1060 1089

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