MGG 06200002 T.F. 31

SOUTHEAST

U.S.G.S.

OFFSHORE EAST COAST U.S.A.

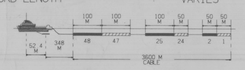
LINE 9

SHOTPOINTS 1501-2420

SCALED SECTION

FIELD DATA

DATE SHOT	OCT -NOV 1975
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	124 HZ
SAMPLE RATE	2 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 = 5 SECONDS

DEWATER

A DECONVOLUTION METHOD ESPECIALLY DESIGNED FOR DEEP WATER TRAPPED ENERGY WAS APPLIED.

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
FILTER A 10-35 HZ
FILTER B 5-25 HZ
FILTER C 5-20 HZ
SEE SECTION HEADER FOR SPACE-VARIANT FILTER APPLICATION TIMES

TIME VARIANT SCALING

1000 MS. GATES STARTING AT THE WATER BOTTOM.

DISPLAY

FULL-SCALE: 2.5 IN/SEC 1.21 KM/IN
HALF-SCALE: 1.25 IN/SEC 2.42 KM/IN

0 1.0MI 2.0MI

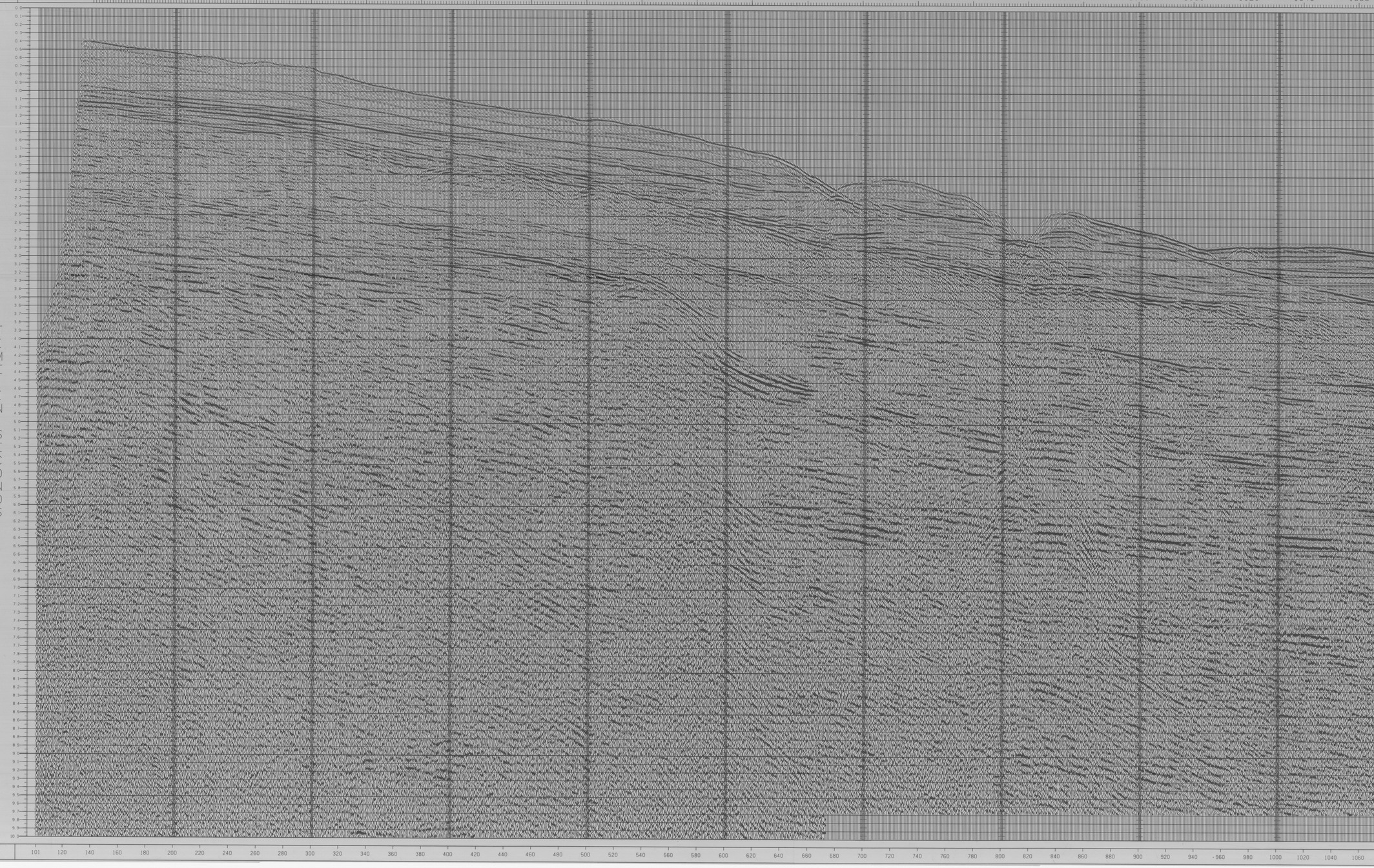
GEOPHYSICAL SERVICE INC.
(A SUBSIDIARY OF TEXAS INSTRUMENTS INC)

PARTY 3078
CHECKED BY _____ 27 MAR 1976

STACKING VELOCITY FUNCTIONS AT CONTROL POINTS

CDP SPN	VRMS MT/SEC	TIME MSEC	INTVEL MT/SEC
176 1518B	1500	0	1464
	1464	412	1819
	1617	692	1854
	1736	1344	3050
	2525	2888	6086
	3618	3706	6136
	4542	5348	6785
	5696	10000	
236 1548B	1500	0	1487
	1487	507	1673
	1571	903	1827
	1675	1476	3040
	2499	3172	5645
	3595	4291	7326
	4902	5916	7456
	6076	10000	
296 1578B	1500	0	1492
	1482	706	1680
	1572	1261	1884
	1702	1836	2706
	2078	2705	4824
	3137	3818	5828
	4272	5861	6676
	5398	10000	
356 1608B	1500	0	1458
	1458	948	1646
	1526	1454	1940
	1639	1915	2713
	2041	2810	4642
	3171	4257	6013
	4251	6131	6482
	5228	10000	
416 1638B	1500	0	1447
	1447	1126	1672
	1533	1586	1875
	1631	2168	2798
	1957	2882	4798
	2985	3920	5250
	3783	5518	6151
	4985	10000	
476 1668B	1500	0	1475
	1475	1222	1718
	1592	1748	1926
	1641	2237	2923
	1864	2842	4341
	2699	3779	5248
	3749	5677	6356
	5044	10000	
536 1698B	1500	0	1473
	1473	1390	1647
	1618	1850	1824
	1575	2236	2229
	1741	2858	3652
	2150	3380	5094
	3715	5936	6380
	4973	10000	
596 1728B	1500	0	1450
	1450	1578	1739
	1520	2038	1886
	1590	2470	3074
	1689	3025	3795
	2304	3842	5321
	3664	6038	6347
	4933	10000	
656 1758B	1500	0	1467
	1467	1943	1789
	1536	2337	2070
	1631	2815	2936
	1918	3396	3517
	2715	3978	5384
	3891	6998	6449
	4824	10000	
716 1788B	1500	0	1429
	1429	2026	1809
	1496	2417	1835
	1566	2870	2108
	1858	3436	3465
	2011	3956	5220
	3827	5950	6296
	4610	10000	
776 1818B	1500	0	1454
	1454	2208	1721
	1508	2723	2043
	1620	3339	2478
	1786	3974	3776
	2238	4757	5666
	3897	7517	6315
	4598	10000	
836 1848B	1500	0	1423
	1423	2457	1784
	1469	2776	1957
	1649	3275	2435
	1681	3715	2749
	1918	4513	5344
	2504	6898	6147
	4491	10000	
896 1878B	1500	0	1457
	1457	2631	1764
	1504	3062	1922
	1662	3497	2832
	1895	4407	4450
	2327	4958	5508
	3683	7310	6295
	4524	10000	
956 1908B	1500	0	1455
	1455	2892	1769
	1499	3285	1883
	1624	3774	3052
	1883	4494	3980
	2393	5451	5684
	3770	8009	6334
	4401	10000	
1016 1938B	1500	0	1465
	1465	2823	1708
	1499	3294	1046
	1619	4033	3092
	1846	4549	3695
	2264	5471	5809
	3650	7673	6243
	4392	10000	
[illegible]	1500		
	1566		
	1858		
	2253		
	3707		
	4574		

FILTER TIMES: A (0-2.1 SEC) B (1.3-2 SEC) C (6.0-10 SEC)

WD-M: 277 332 391 449 507 631 759 832 899 965 1045 1156 1268 1483 1523 1566 1701 2042 1829 1966 2103 2130 2120 2145

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