DC-12 IPOD 264 4300-8820

SOUTHEAST

U.S.G.S.

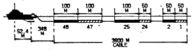
OFFSHORE
EAST COAST
U.S.A.

LINE IPOD
SHOTPOINTS 4721-6935

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 = 3 DB/SECOND
T1 = WATER BOTTOM
T2 = WB + 5.5 SECONDS

DECONVOLUTION
TWO 320 MS. WHITENING DECONVOLUTION FILTERS WERE APPLIED. THE DESIGN GATE IS 5.0 SECONDS IN 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.

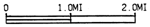
CDP STACK
36 FOLD CDP STACK WITH 1/SQRT(FOLD) RECOVERY SCALING

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



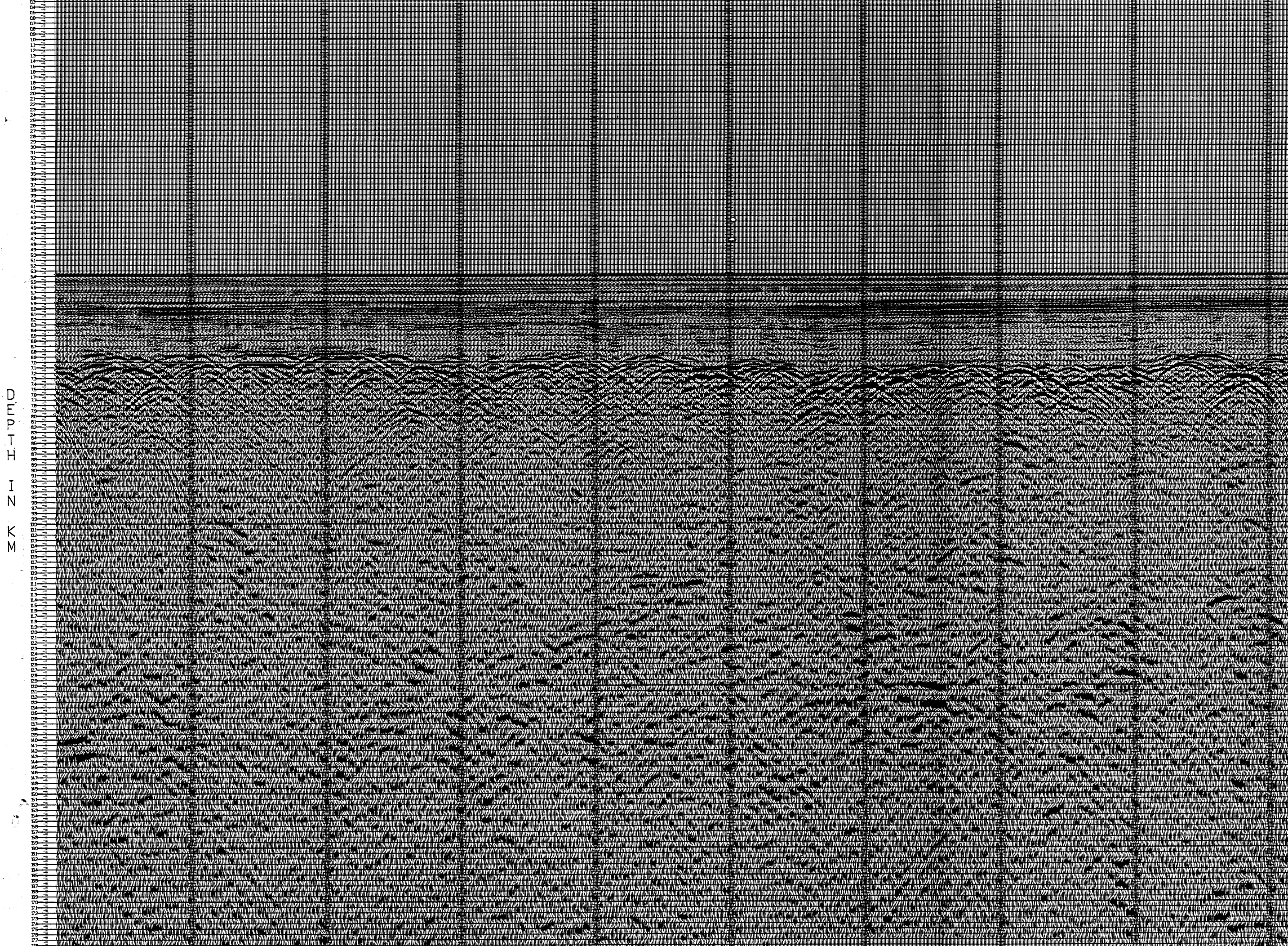
GEOPHYSICAL SERVICE
INC.
(A SUBSIDIARY OF TEXAS INSTRUMENTS INC)

PARTY 3078
CHECKED BY ____________________ 03 MAY 1976

STACKING VELOCITY FUNCTIONS AT CONTROL POINTS

CDP	SPN	DEPTH MT	INTVEL MT/SEC
139	4720	4497 5359 5723 5989 6270 6845 8195 17895	1506 1598 1747 1996 2500 5399 6801
199	4750	4497 5336 5736 5994 6317 6902 8253 17948	1512 1605 1840 2084 2585 5406 6807
259	4780	4497 5343 5736 5994 6323 6845 8200 18079	1512 1607 1840 2097 2647 5409 6808
319	4810	4500 5346 5709 5978 6305 6822 8187 18096	1501 1598 1795 2048 2730 5404 6800
379	4840	4497 5343 5729 5989 6343 6964 8320 17909	1512 1609 1782 2099 2773 5402 6797
439	4870	4494 5336 5729 5989 6295 6973 8329 17837	1518 1607 1729 2009 2719 5403 6804
499	4900	4500 5352 5709 5959 6292 6929 8284 17956	1500 1599 1736 2032 2788 5408 6802
559	4930	4494 5346 5723 5948 6365 7004 8337 17859	1511 1594 1732 2094 2841 5419 6804
619	4960	4497 5346 5709 5955 6328 6933 8266 17952	1506 1598 1795 2018 2786 5399 6807
679	4990	4497 5355 5723 5982 6394 7092 8442 17727	1512 1614 1810 2072 2808 5411 6806
739	5020	4500 5361 5716 5961 6300 7041 8391 17744	1500 1600 1769 1999 2728 5410 6803
799	5050	4497 5361 5705 5951 6267 7104 8456 17738	1512 1604 1740 2012 2789 5397 6800
859	5080	4500 5346 5701 5933 6273 7006 8361 17833	1507 1601 1725 1972 2747 5410 6802
919	5110	4500 5361 5707 5901 6227 6945 8298 17962	1507 1586 1734 1988 2735 5402 6799
979	5140	4497 5352 5686 5909 6257 7011 8352 17885	1512 1607 1764 2007 2724 5397 6802

WD-M	SPN
5347	4721
5348	4740
5348	4760
5349	4780
5349	4800
5350	4820
5351	4840
5351	4860
5352	4880
5352	4900
5353	4920
5353	4940
5354	4960
5355	4980
5355	5000
5354	5020
5353	5040
5352	5060
5352	5080
5351	5100
5350	5120
5349	5140



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

DUSJS2BI 03-001 03MAY76 05-32-24 DUSJS2BI 03-002

CDP	1039
SPN	5170
DEPTH MT	INTVEL MT/SEC
4497	1499
5344	1603
5684	1775
5897	2033
6197	2728
6860	5400
8199	6806
18166	

CDP	1099
SPN	5200
DEPTH MT	INTVEL MT/SEC
4497	1512
5361	1573
5685	1718
5891	2021
6196	2721
6966	5395
8339	6802
17960	

CDP	1159
SPN	5230
DEPTH MT	INTVEL MT/SEC
4500	1507
5366	1577
5675	1756
5902	1990
6197	2701
7105	5407
8465	6798
17737	

CDP	1219
SPN	5260
DEPTH MT	INTVEL MT/SEC
4500	1507
5356	1597
5659	1731
5884	1996
6159	2667
6873	5399
8215	6806
18138	

CDP	1279
SPN	5290
DEPTH MT	INTVEL MT/SEC
4497	1499
5373	1602
5656	1715
5895	1953
6178	2680
7028	5399
8373	6801
17815	

CDP	1339
SPN	5320
DEPTH MT	INTVEL MT/SEC
4500	1507
5370	1567
5633	1698
5891	1945
6179	2633
6975	5407
8318	6810
17878	

CDP	1399
SPN	5350
DEPTH MT	INTVEL MT/SEC
4500	1507
5356	1596
5664	1674
5886	1932
6148	2645
7088	5399
8416	6806
17736	

CDP	1459
SPN	5380
DEPTH MT	INTVEL MT/SEC
4494	1517
5366	1565
5638	1698
5895	1919
6255	2642
7154	5391
8497	6797
17488	

CDP	1519
SPN	5410
DEPTH MT	INTVEL MT/SEC
4497	1499
5359	1563
5631	1700
5883	1946
6185	2730
7344	5397
8690	6809
17361	

CDP	1579
SPN	5440
DEPTH MT	INTVEL MT/SEC
4500	1507
5376	1567
5638	1698
5895	1951
6197	2764
7259	5411
8609	6805
17533	

CDP	1639
SPN	5470
DEPTH MT	INTVEL MT/SEC
4497	1512
5370	1567
5633	1703
5918	2066
6242	2796
7385	5401
8738	6802
17383	

CDP	1699
SPN	5500
DEPTH MT	INTVEL MT/SEC
4497	1499
5368	1606
5642	1748
5902	2097
6222	2746
7295	5406
8662	6799
17524	

CDP	1759
SPN	5530
DEPTH MT	INTVEL MT/SEC
4500	1507
5370	1610
5640	1737
5914	2076
6208	2700
7149	5396
8498	6800
17725	

CDP	1819
SPN	5560
DEPTH MT	INTVEL MT/SEC
4497	1499
5373	1611
5633	1698
5890	2078
6206	2654
7256	5399
8592	6797
17481	

CDP	1879
SPN	5590
DEPTH MT	INTVEL MT/SEC
4500	1507
5370	1572
5614	1721
5905	2019
6198	2724
7416	5395
8761	6805
17311	

CDP	1939
SPN	5620
DEPTH MT	INTVEL MT/SEC
4497	1512
5380	1601
5613	1724
5841	1955
6204	2651
7245	5401
8590	6809
17513	

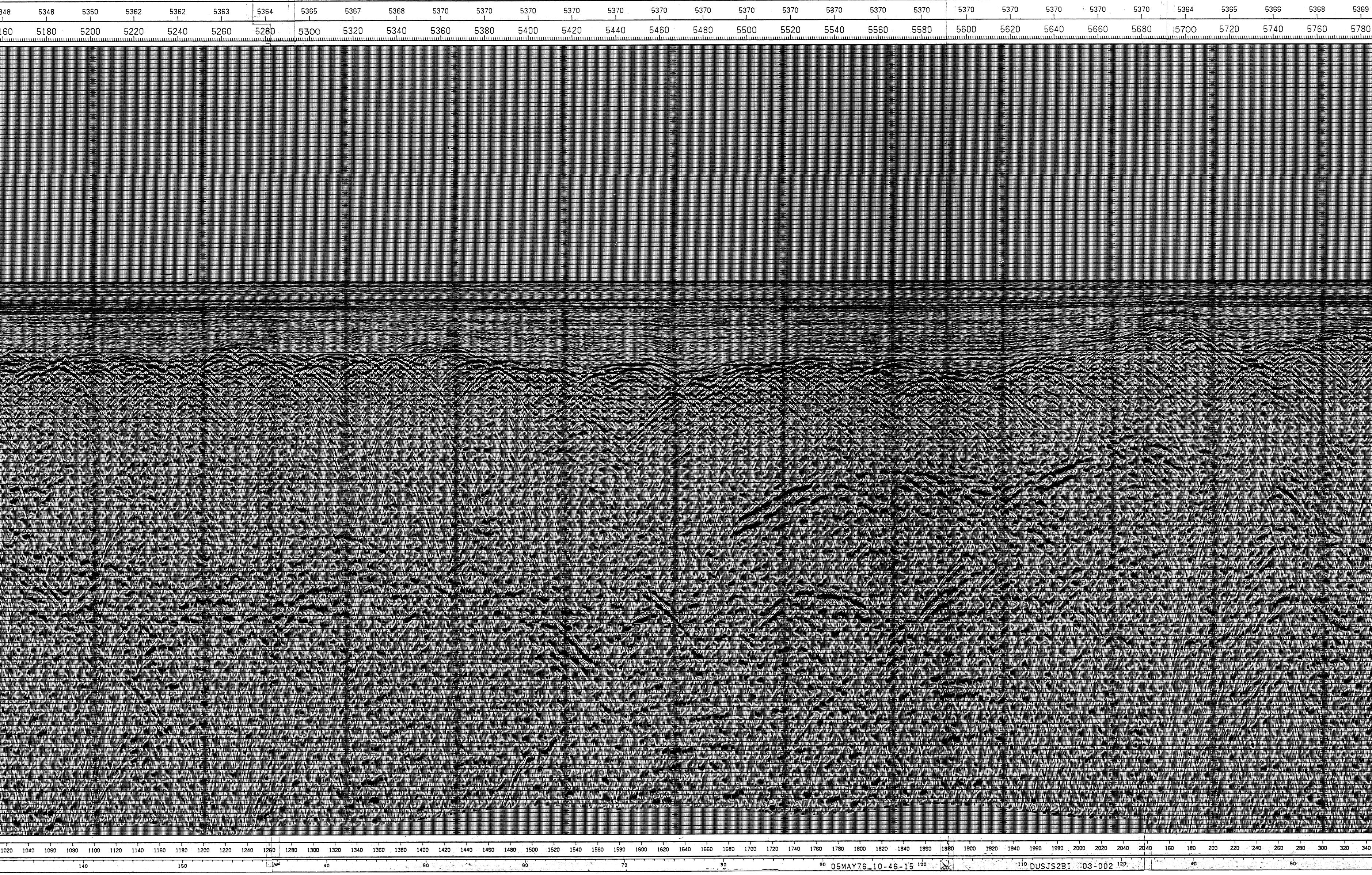
CDP	1999
SPN	5650
DEPTH MT	INTVEL MT/SEC
4500	1507
5370	1607
5589	1681
5944	1921
6147	2679
7103	5393
8446	6809
17729	

CDP	139
SPN	5681
DEPTH MT	INTVEL MT/SEC
4500	1500
5366	1573
5602	1661
5795	1823
6134	2654
6709	5397
8058	6797
18281	

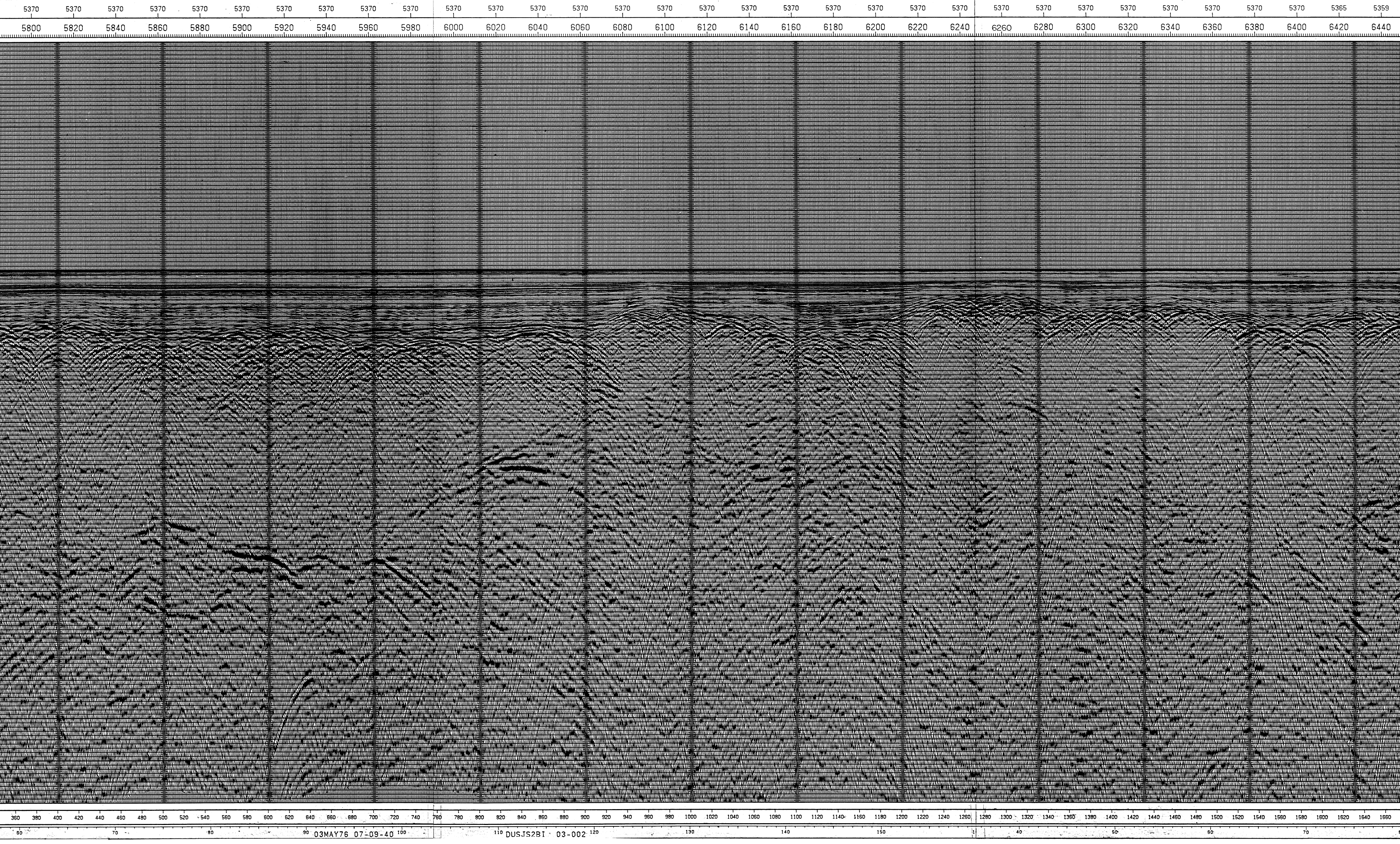
CDP	199
SPN	5711
DEPTH MT	INTVEL MT/SEC
4500	1507
5363	1616
5616	1715
5824	1806
6095	2666
6621	5411
7974	6806
18536	

CDP	259
SPN	5741
DEPTH MT	INTVEL MT/SEC
4500	1500
5377	1574
5612	1665
5801	1797
6075	2629
6923	5406
8269	6802
17985	

CDP	319
SPN	5771
DEPTH MT	INTVEL MT/SEC
4500	1500
5366	1600
5598	1721
5827	1799
6080	2650
6595	5408
7949	6799
18552	



CDP	SPN	DEPTH MT	INTVEL MT/SEC
379	5801	4500 5363 5624 5827 6080 6744 8091 18323	1507 1590 1719 1799 2642 5399 6806
439	5831	4500 5370 5602 5820 6068 6802 8144 18205	1501 1575 1702 1802 2634 5393 6801
499	5861	4500 5384 5635 5831 6098 7138 8492 17654	1501 1617 1728 1837 2612 5404 6797
559	5891	4500 5381 5612 5794 6076 6874 8233 18111	1500 1575 1671 1814 2678 5396 6803
619	5921	4500 5377 5598 5805 6094 6883 8228 18079	1500 1605 1713 1834 2609 5403 6803
679	5951	4500 5373 5602 5816 6112 7096 8448 17673	1500 1576 1705 1825 2595 5399 6806
739	5981	4500 5363 5591 5809 6087 7187 8537 17639	1507 1577 1672 1820 2672 5404 6803
799	6011	4500 5388 5584 5823 6168 6948 8307 17934	1500 1619 1738 1804 2680 5405 6800
859	6041	4500 5391 5576 5772 6125 6845 8180 18101	1507 1563 1690 1811 2629 5394 6805
919	6071	4500 5386 5600 5774 6107 6820 8161 18212	1507 1610 1717 1811 2666 5398 6801
979	6101	4500 5378 5592 5730 5989 6522 7888 18791	1507 1610 1681 1810 2607 5409 6807
1039	6131	4500 5400 5580 5768 6090 6613 7964 18491	1500 1596 1699 1818 2597 5405 6801
1099	6161	4500 5378 5592 5779 6062 7050 8664 17808	1507 1610 1702 1790 2651 5398 6802
1159	6191	4500 5391 5563 5754 6093 7085 8703 17704	1507 1601 1695 1824 2604 5402 6809
1219	6221	4500 5378 5538 5729 6028 6504 7851 18749	1507 1572 1694 1794 2579 5399 6804
1279	6251	4500 5378 5542 5716 5926 6288 7641 19231	1507 1571 1712 1817 2558 5400 6804
1339	6281	4500 5378 5538 5720 5956 6510 7859 18834	1507 1572 1703 1812 2572 5406 6803
1399	6311	4500 5382 5538 5696 5979 6520 7869 18796	1507 1574 1695 1831 2573 5398 6798
1459	6341	4500 5362 5512 5687 5989 6377 7724 19013	1494 1614 1710 1787 2565 5410 6807
1519	6371	4500 5378 5609 5730 5970 6648 7996 18533	1507 1576 1707 1806 2521 5406 6805
1579	6401	4500 5361 5500 5729 5989 6681 8031 18469	1500 1582 1687 1810 2518 5401 6804
1639	6431	4500 5378 5491 5711 5955 6492 7841 18857	1507 1602 1695 1802 2521 5409 6805



CDP	1699
SPN	6461
DEPTH MT	INTVEL MT/SEC
4500	1507
5378	1598
5495	1712
5698	1806
5938	2548
6537	5398
7883	6805
18826	

CDP	1759
SPN	6491
DEPTH MT	INTVEL MT/SEC
4500	1500
5361	1575
5513	1710
5687	1799
5931	2519
6389	5399
7736	6802
19033	

CDP	1819
SPN	6521
DEPTH MT	INTVEL MT/SEC
4500	1500
5349	1624
5487	1692
5678	1799
5922	2426
6268	5395
7612	6810
19249	

CDP	1879
SPN	6551
DEPTH MT	INTVEL MT/SEC
4500	1507
5395	1621
5491	1711
5665	1829
5907	2401
6345	5400
7706	6801
19117	

CDP	1939
SPN	6581
DEPTH MT	INTVEL MT/SEC
4500	1507
5348	1552
5458	1706
5665	1829
5907	2415
6294	5407
7640	6800
19222	

CDP	1999
SPN	6611
DEPTH MT	INTVEL MT/SEC
4500	1507
5344	1626
5481	1717
5651	1802
5870	2413
6174	5409
7534	6800
19484	

CDP	139
SPN	6641
DEPTH MT	INTVEL MT/SEC
4500	1500
5321	1681
5651	2119
6067	5397
7419	6794
19712	

CDP	199
SPN	6671
DEPTH MT	INTVEL MT/SEC
4500	1500
5321	1734
5658	2129
6119	5401
7472	6802
19657	

CDP	259
SPN	6701
DEPTH MT	INTVEL MT/SEC
4500	1500
5366	1760
5647	2146
6059	5402
7412	6800
19791	

CDP	319
SPN	6731
DEPTH MT	INTVEL MT/SEC
4500	1500
5357	1761
5661	2096
5969	5405
7322	6802
19967	

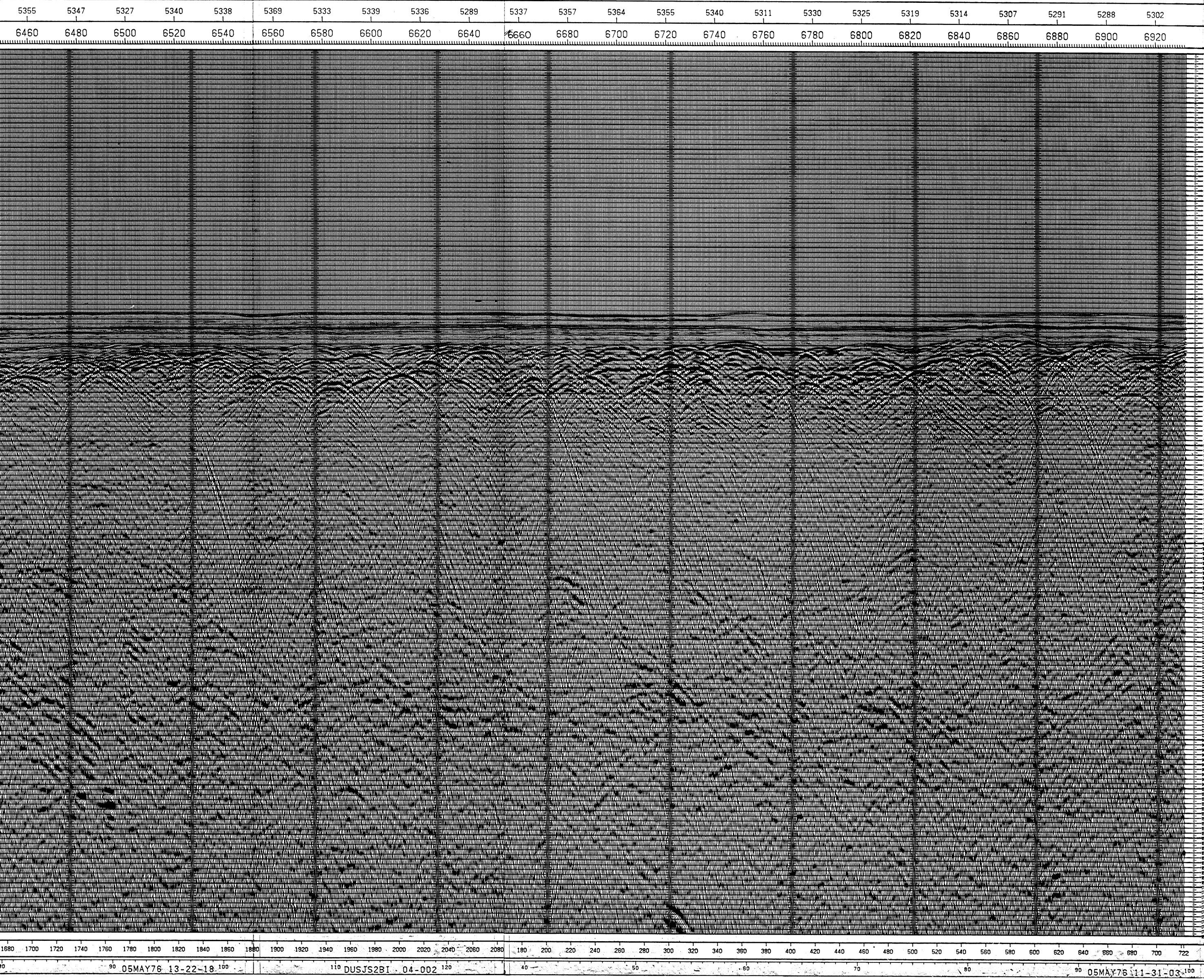
CDP	379
SPN	6761
DEPTH MT	INTVEL MT/SEC
4500	1500
5322	1760
5674	2096
5996	5398
7348	6803
19920	

CDP	439
SPN	6791
DEPTH MT	INTVEL MT/SEC
4500	1501
5315	1760
5668	2058
5970	5405
7324	6802
19969	

CDP	499
SPN	6821
DEPTH MT	INTVEL MT/SEC
4500	1500
5328	1768
5671	2105
6025	5404
7379	6801
19862	

CDP	559
SPN	6851
DEPTH MT	INTVEL MT/SEC
4500	1500
5312	1746
5606	2139
5902	5404
7256	6802
20188	

CDP	619
SPN	6881
DEPTH MT	INTVEL MT/SEC
4500	1500
5305	1735
5612	2073
6019	5402
7372	6804
19888	

CDP	679
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5295	1724
5616	1987
6094	5406
7451	6799
19637