

SIQUEIROS EXPEDITION

R/V THOMAS WASHINGTON

INFORMAL REPORT AND INDEX OF
NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

San Diego, Calif. (17 June 1974)

to

San Diego, Calif. (21 July 1974)

Chief Scientist - L. Dorman
Resident Marine Tech - M. Hausman

Post-Cruise Processing by - S. Smith, U. Albright, R. Lingley, G. Psaropoulos

Prepared by

Underway Data Processing Group

S.I.O. Geological Data Center

Scripps Institution of Oceanography

La Jolla, California

August 14, 1974

Preliminary Report and Index of Navigation, Depth, Magnetic and Subbottom Profiler Data

Contents:

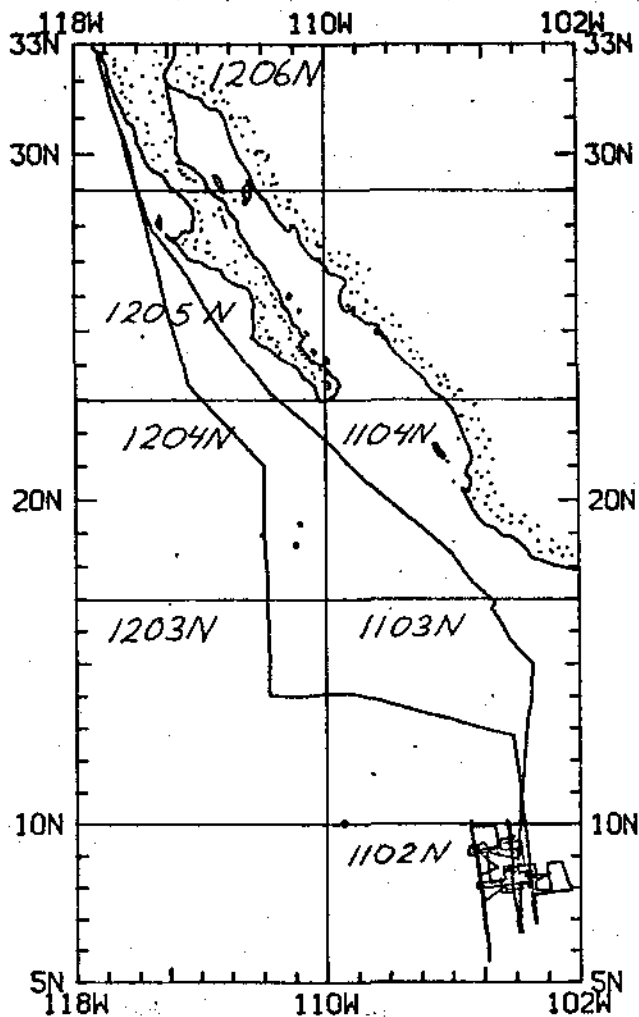
Index Chart - gives track of cruise leg and boundaries of depth compilation plots (see below).

Track Charts - annotated with dates (day/month) and hour ticks. The scale (.3"/deg. long) is the same as the index charts of previous SIO cruises published as Report IMR TR-25.

Profiles - Depth and magnetic anomaly vs. distance. Dates (day/month) and positions of major course changes (greater than 30 degrees) are annotated. Sections of track having subbottom profiler (airgun) records have a solid black line along the bottom of the profile.

For information on the availability and reproduction costs of data in the following forms, contact T. E. Chase, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92037 (714-453-2000, Ext. 1534):

1. Navigation listing of times and positions of course and speed changes, fixes and drift velocity.
 2. Depth compilation plots - in fathoms (assumed sound velocity of 800 fm./sec.) at approximately 1 mile spacing, plotted at 4" degree with standard U.S. Navy Oceanographic Office BC series boundaries (see index chart).
 3. Plots of magnetic anomaly profiles along track-map scale = 1.2"/degree; anomaly scale between 15°N and 15°S latitude = 500 gamma/inch; anomaly scale north of 15°N and south of 15°S = 1000 gamma/inch from values retrieved at approximately 1 mile spacing and regional field removed using the 1965 IGRF.
 4. Card Decks of navigation, depth and magnetics (for specific formats, contact S. M. Smith, Geological Data Center).
 5. S.I.O. Sample Index - list of beginning and end times and positions of all underway records as well as all other samples (geology, biology, physical oceanography, etc.) collected on the cruise leg.
 6. Microfilm or Xerox copies of:
 - a. Echosounder records - 12 and 3.5 kHz frequency
 - b. Subbottom profiler records (airgun)
 - c. Magnetometer records
 - d. Underway Data Log
-

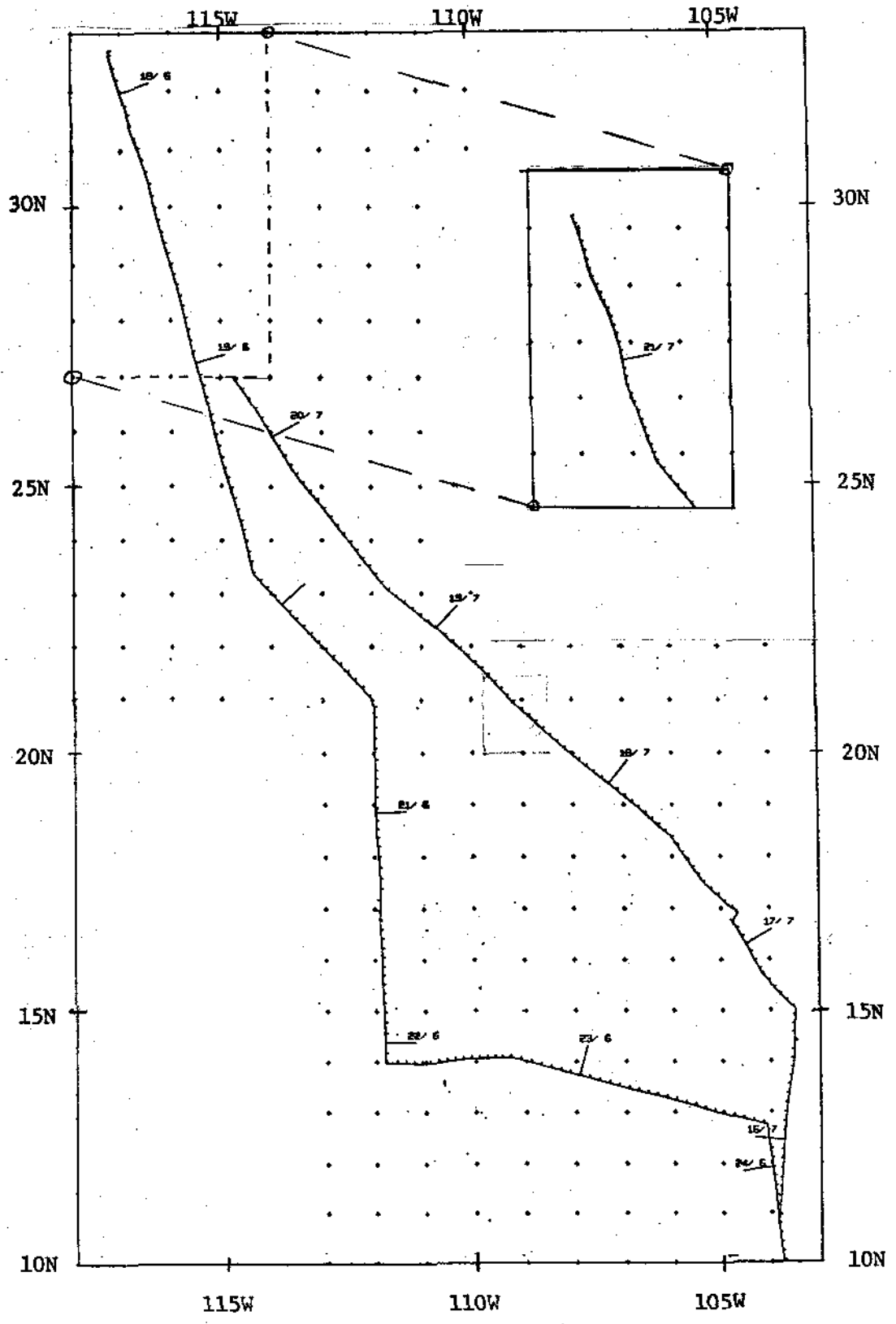


SIQUEIROS EXPEDITION

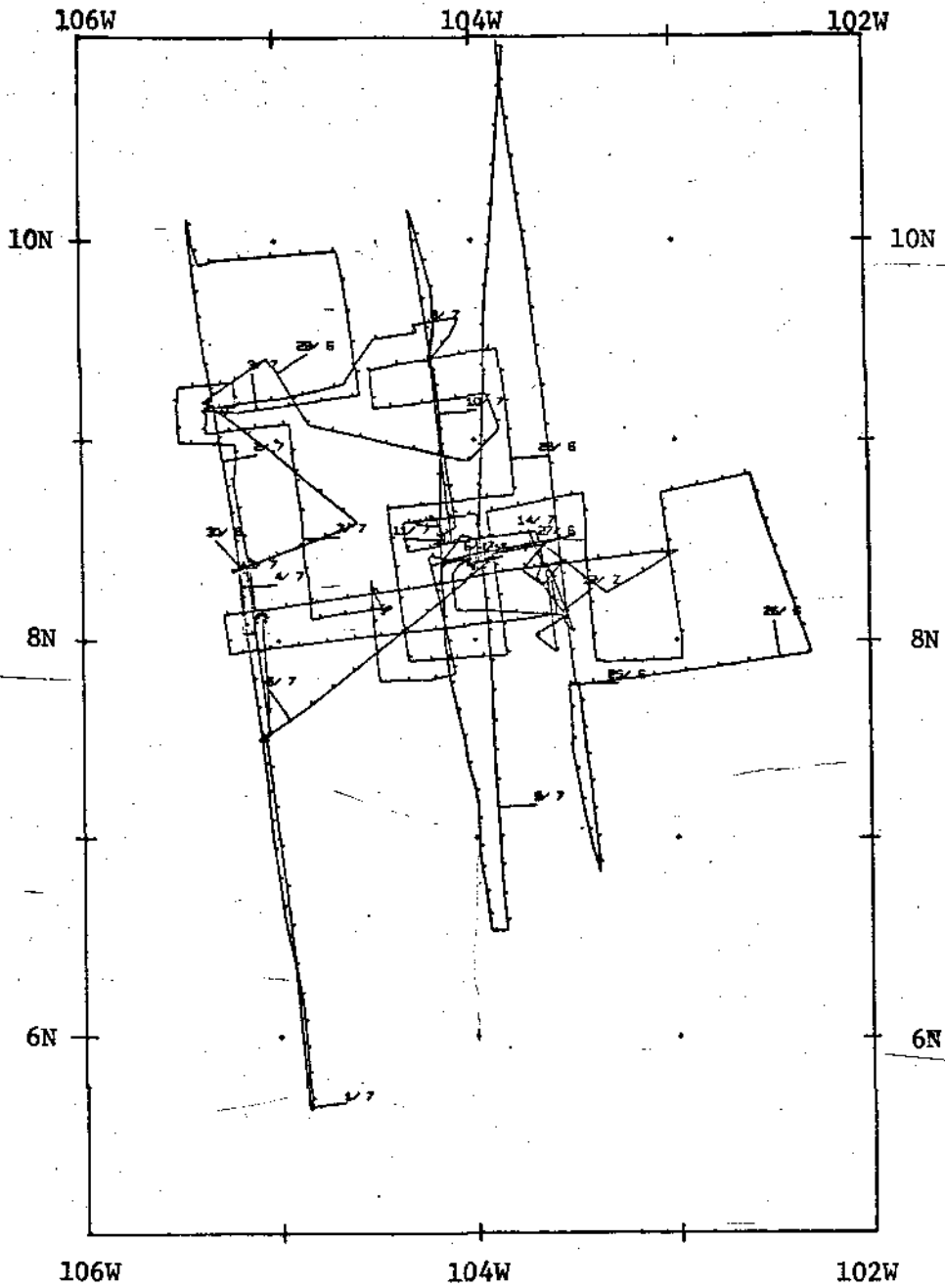
Chief Scientists - F. Spiess, L. Dorman
 San Diego - San Diego, Calif. (17 June - 21 July 1974)

TOTAL MILEAGE

- 1) Cruise - 7120 miles
- 2) Bathymetry - 6425 miles
- 3) Magnetics - 4980 miles
- 4) Seismic Reflection - 4710 miles



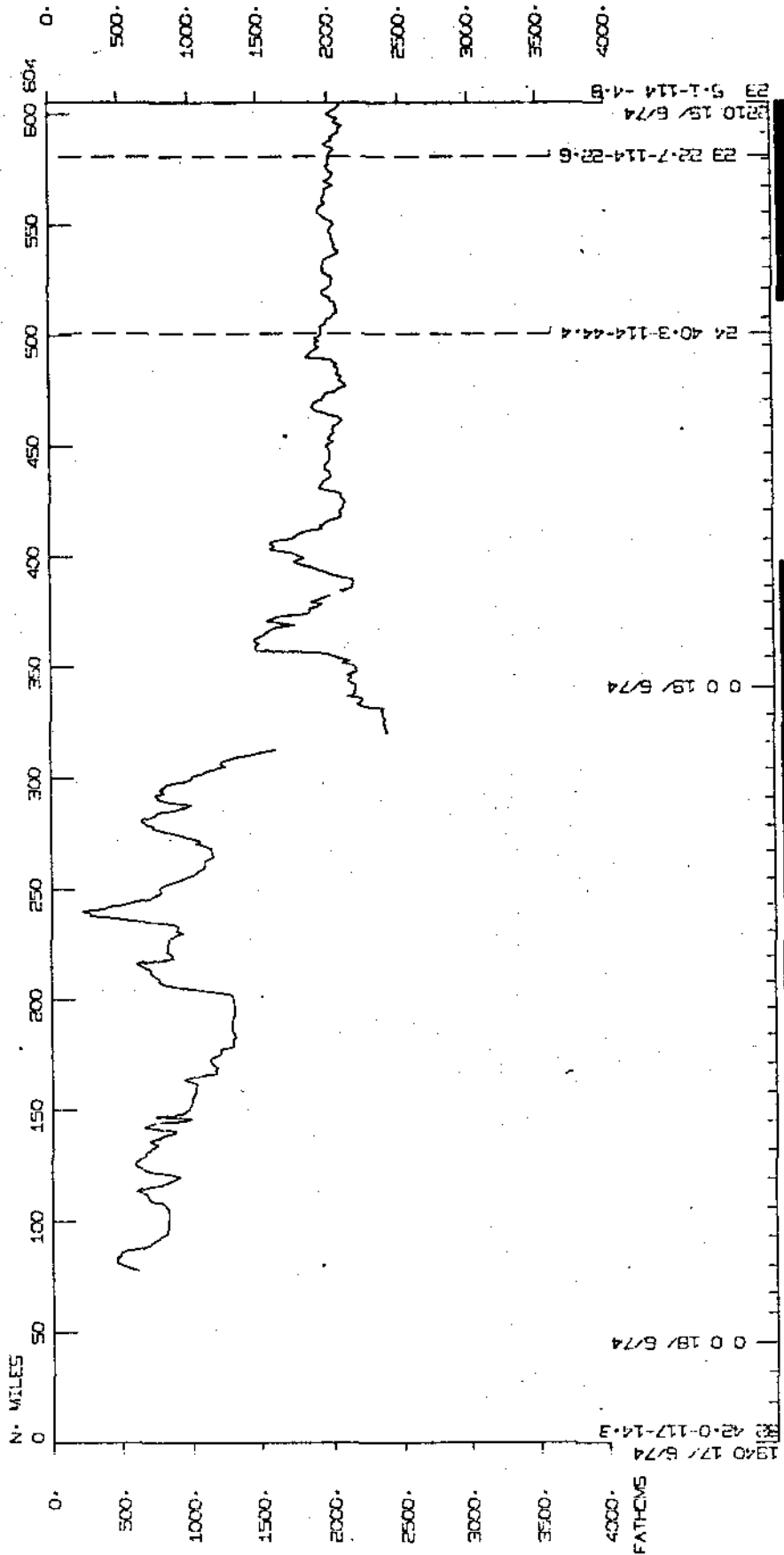
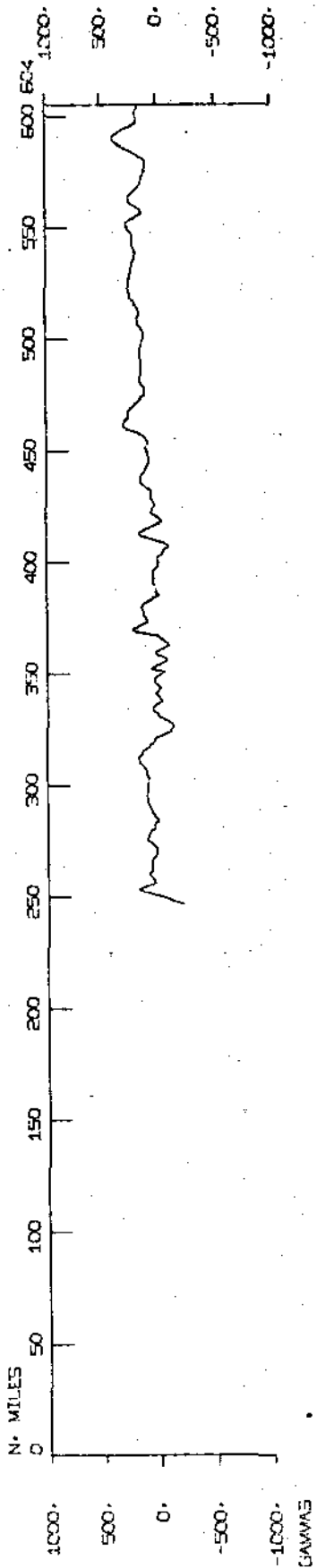
SIQUEIROS TRACK PLOT (1 of 2)



SIQUEIROS TRACK PLOT (2 of 2)

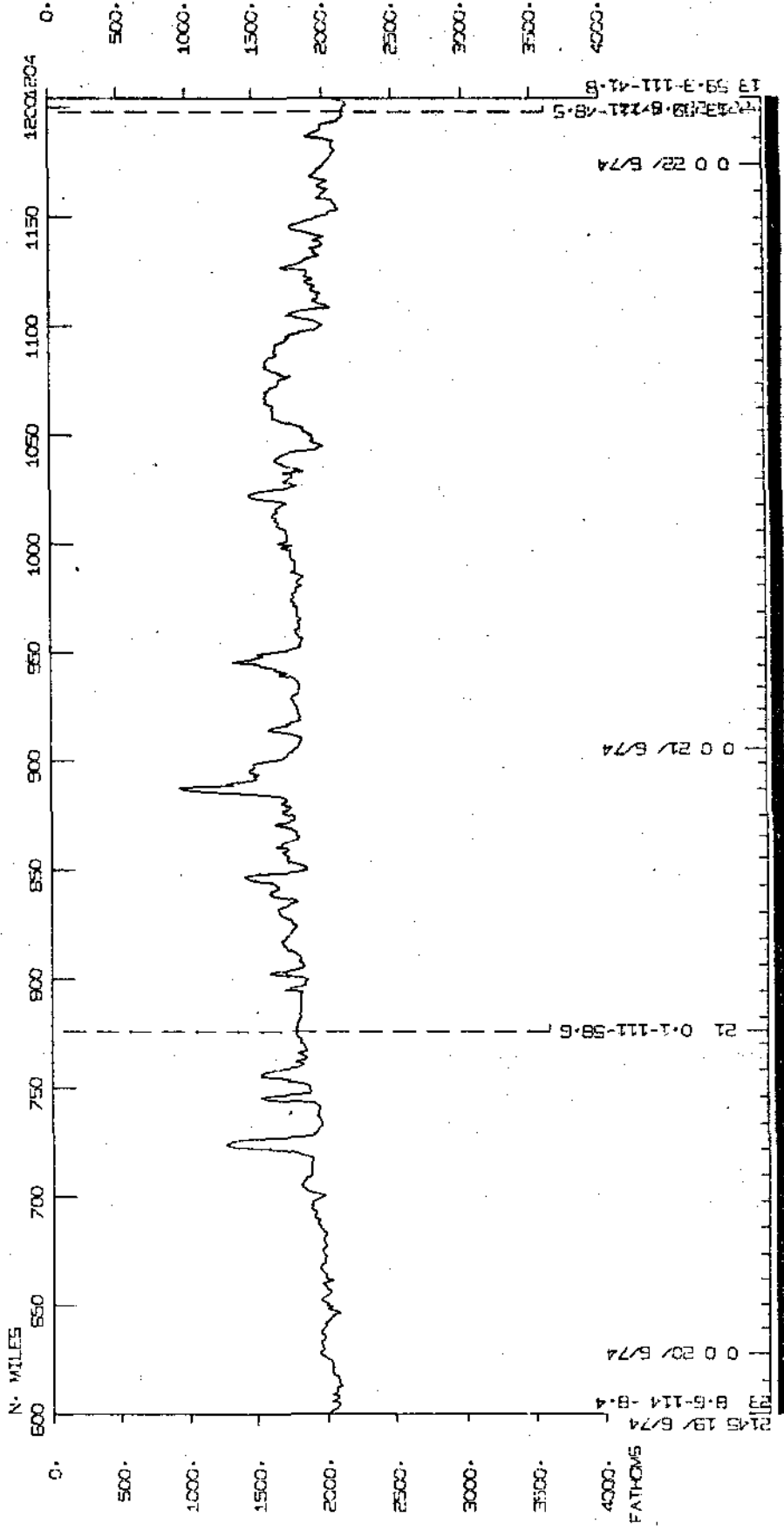
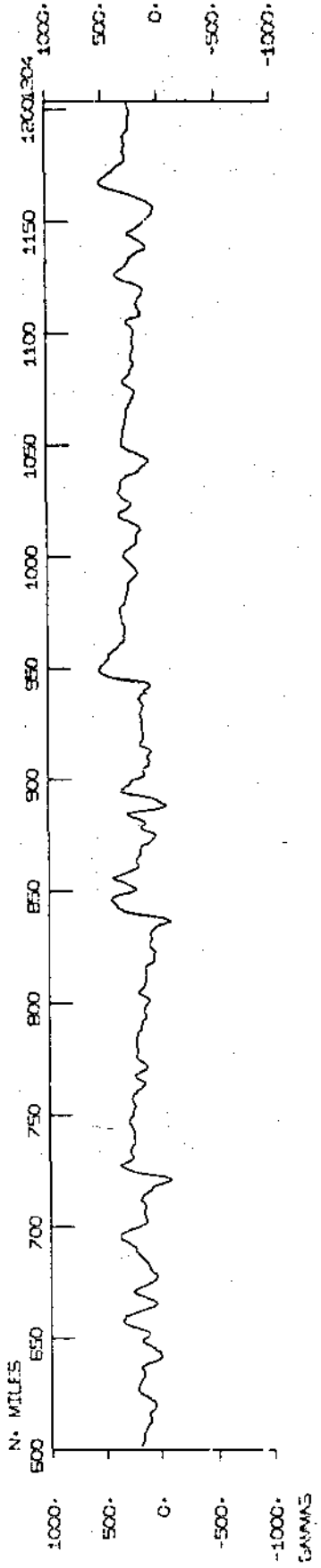
NOTE, SCALE = 1.1"/DEGREE

SIQUEIRDS

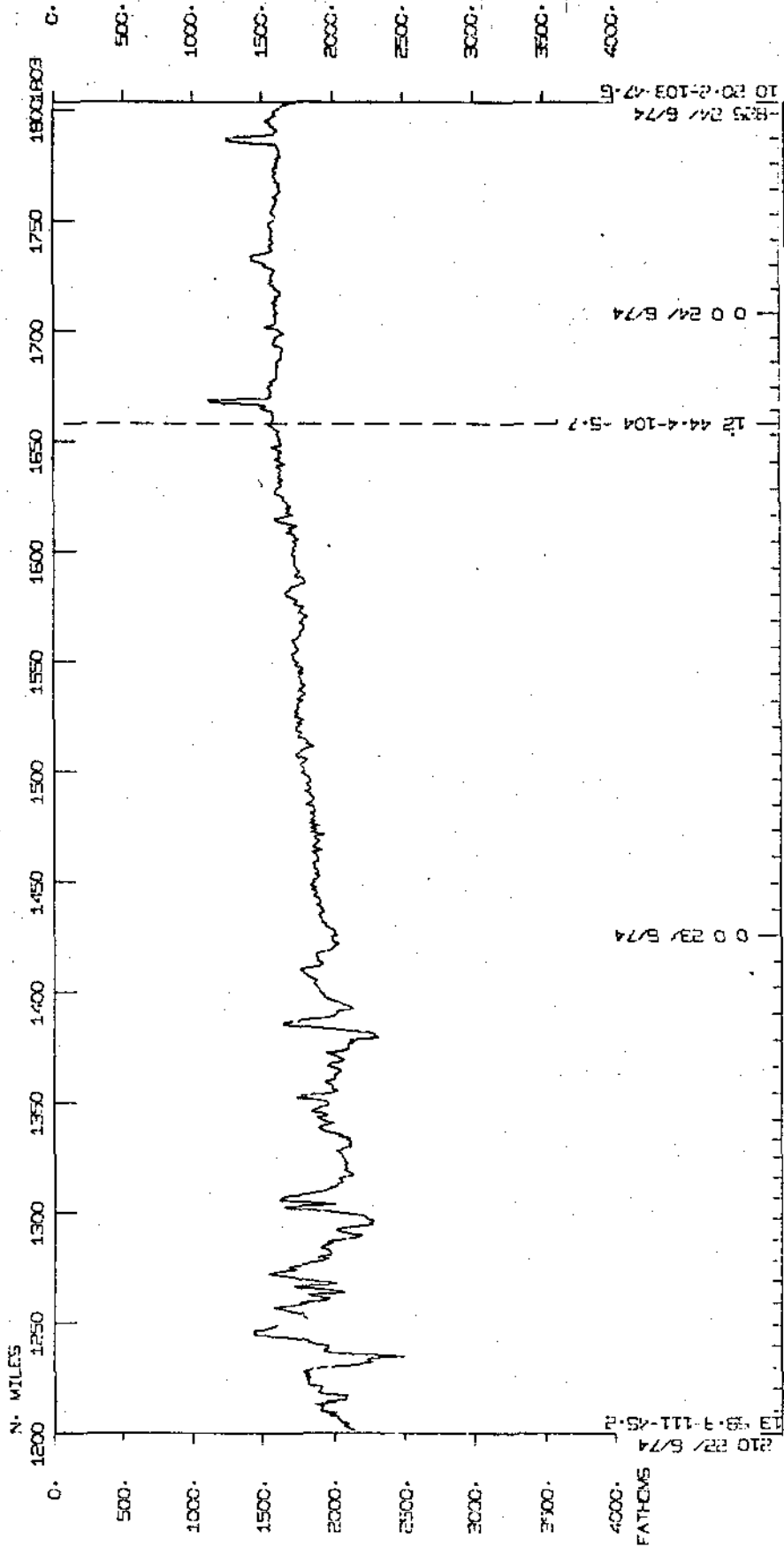
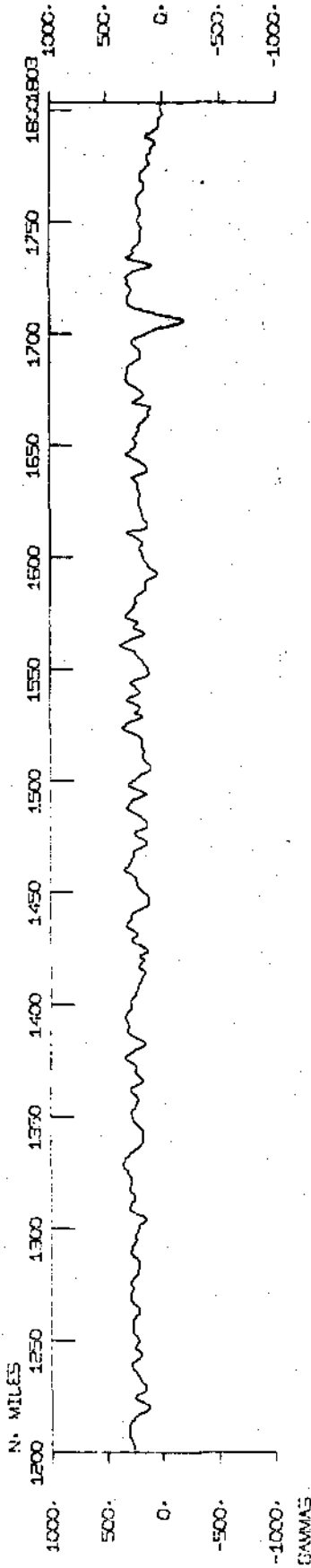


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23 22-7-114-22.6
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SLOUETROS



SIQUEIROS



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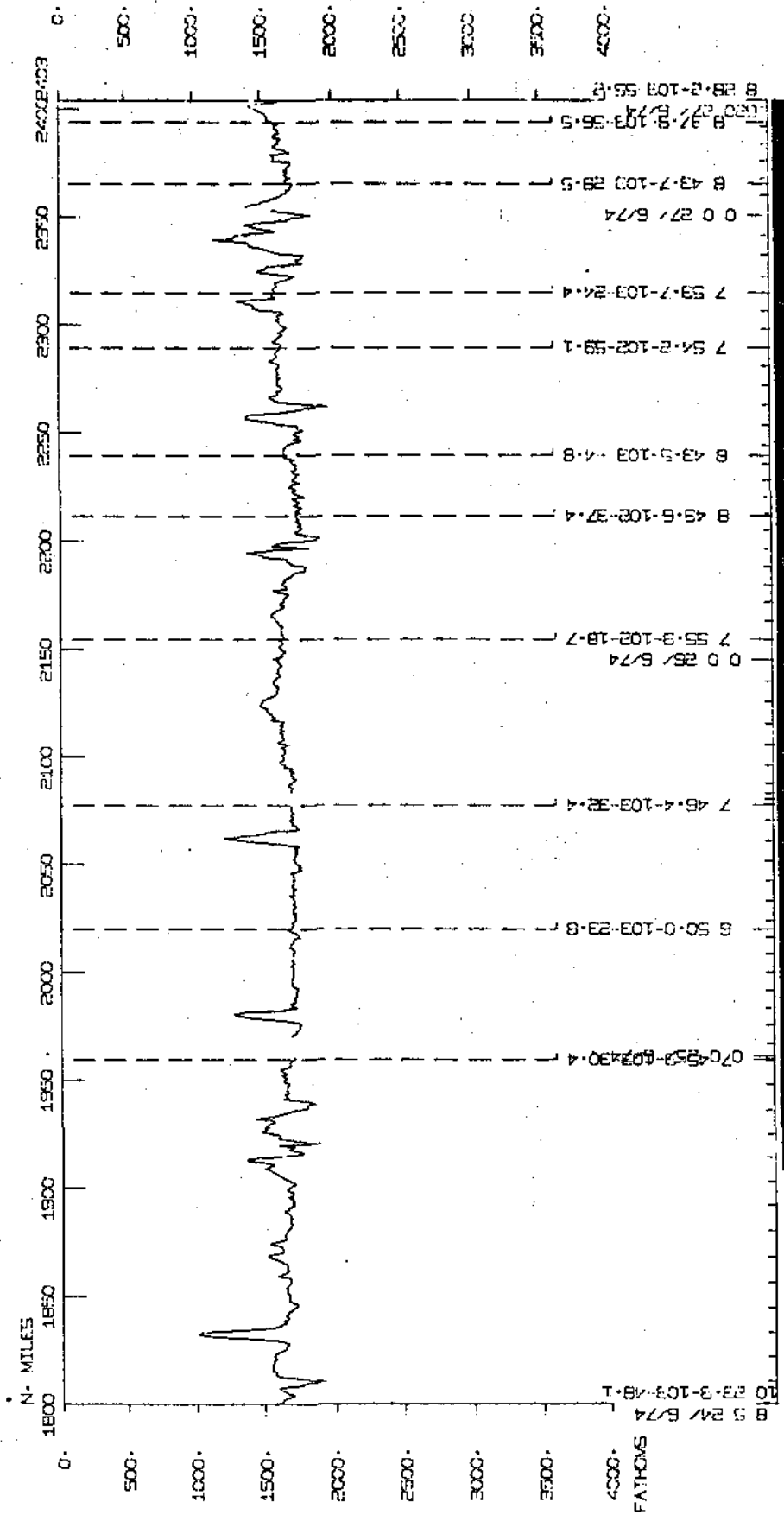
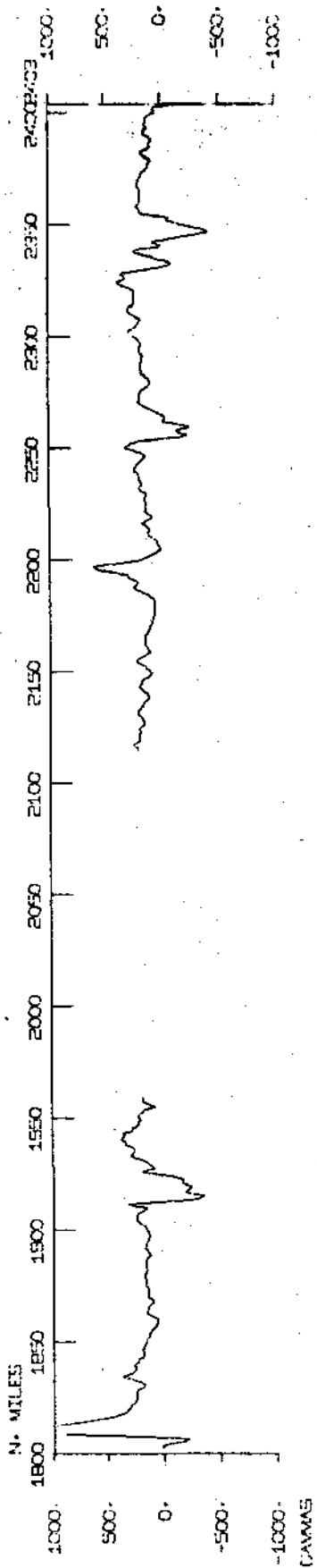
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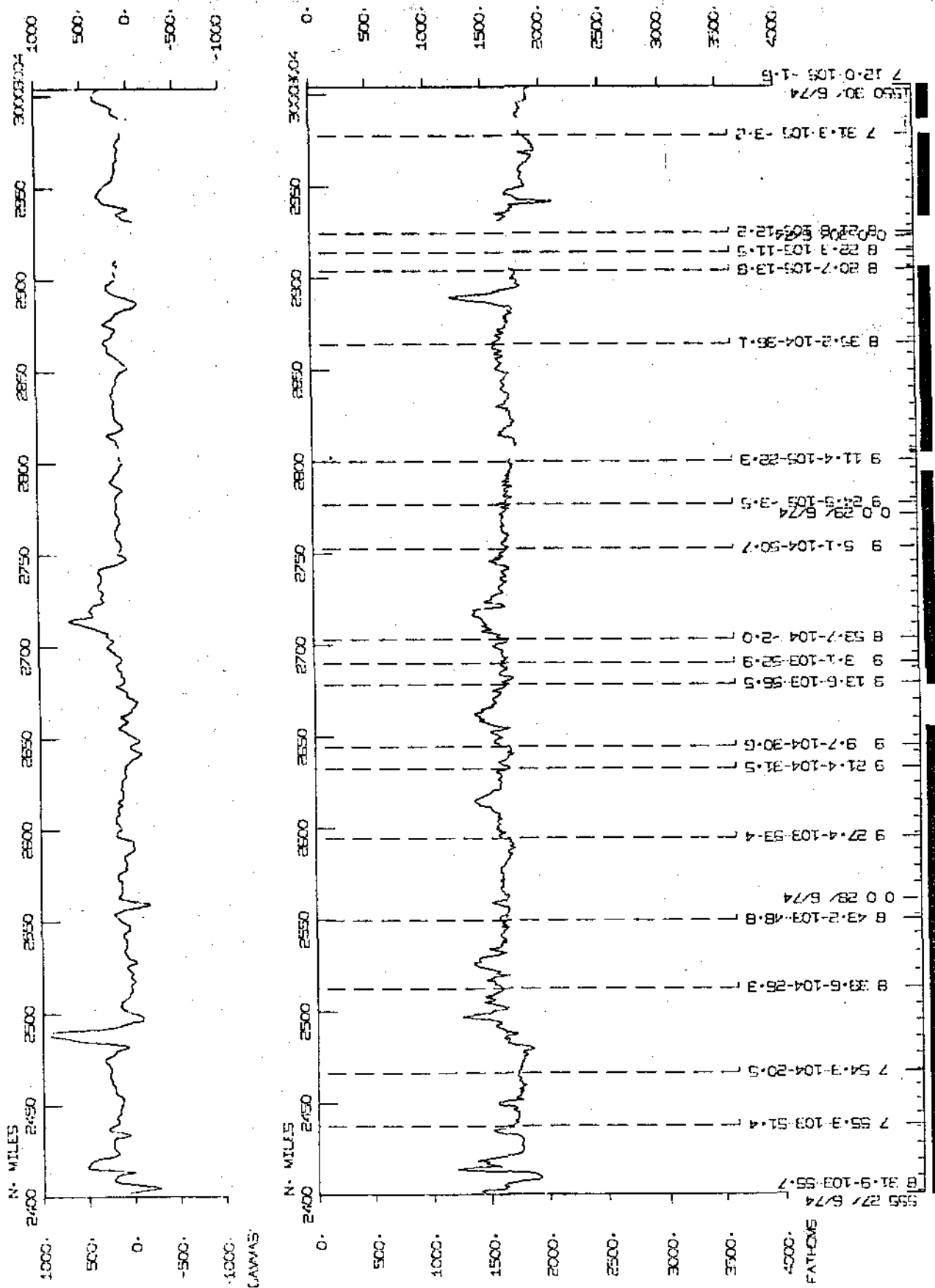
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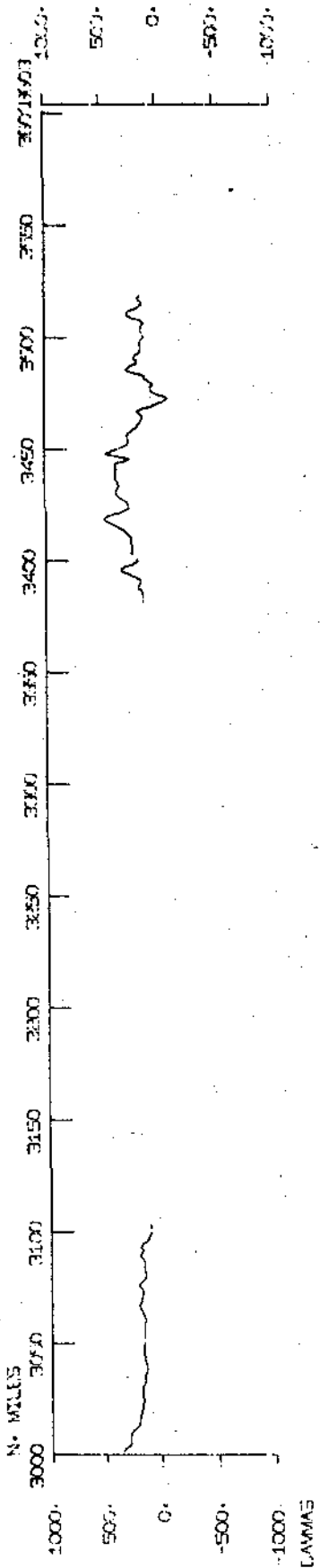
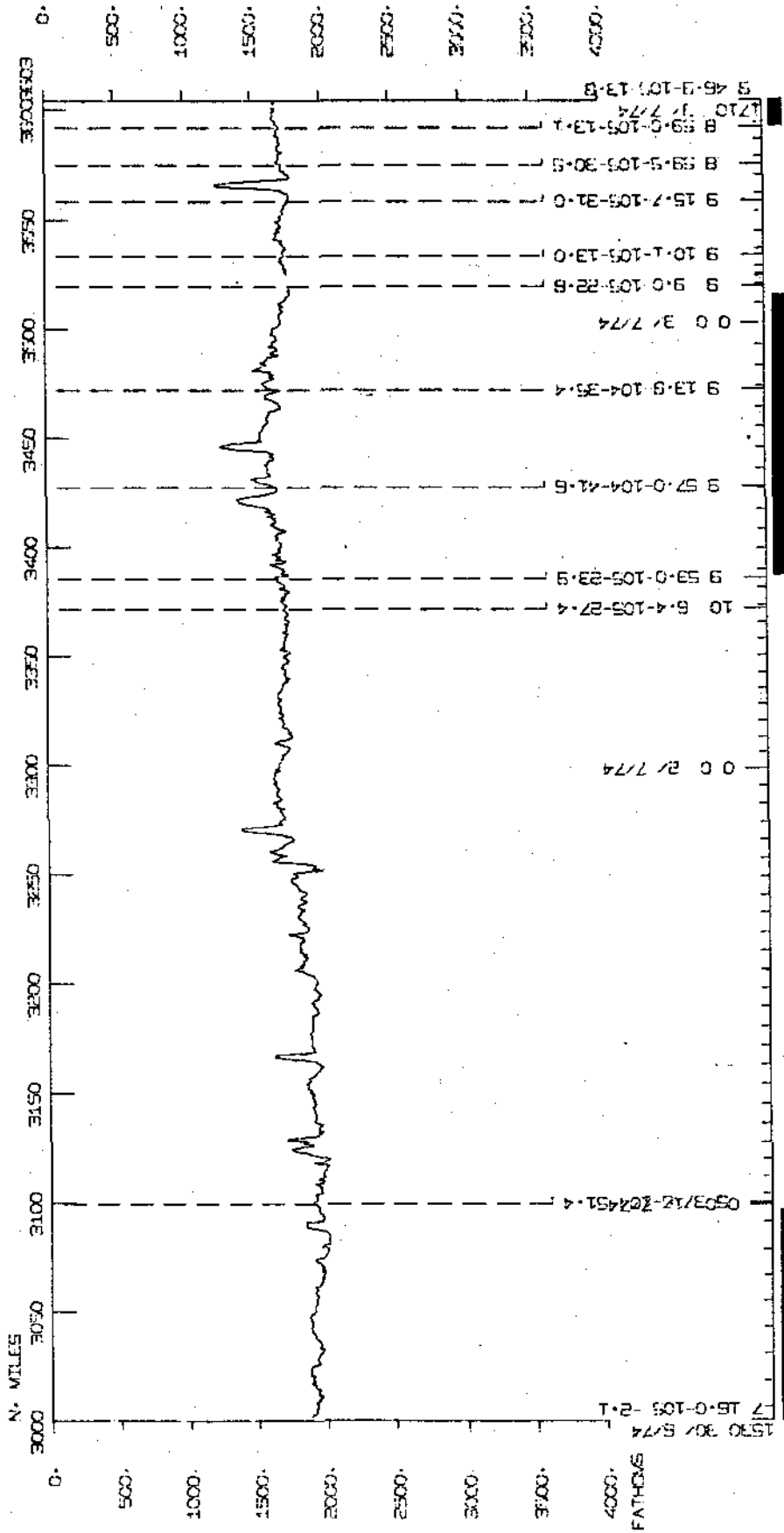


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 0 0 26/ 6/74
 7 55 9 9 102 18 7
 8 49 6 102 37 4
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 8 43 7 103 28 5
 8 47 8 103 26 5
 8 28 2 103 55 5

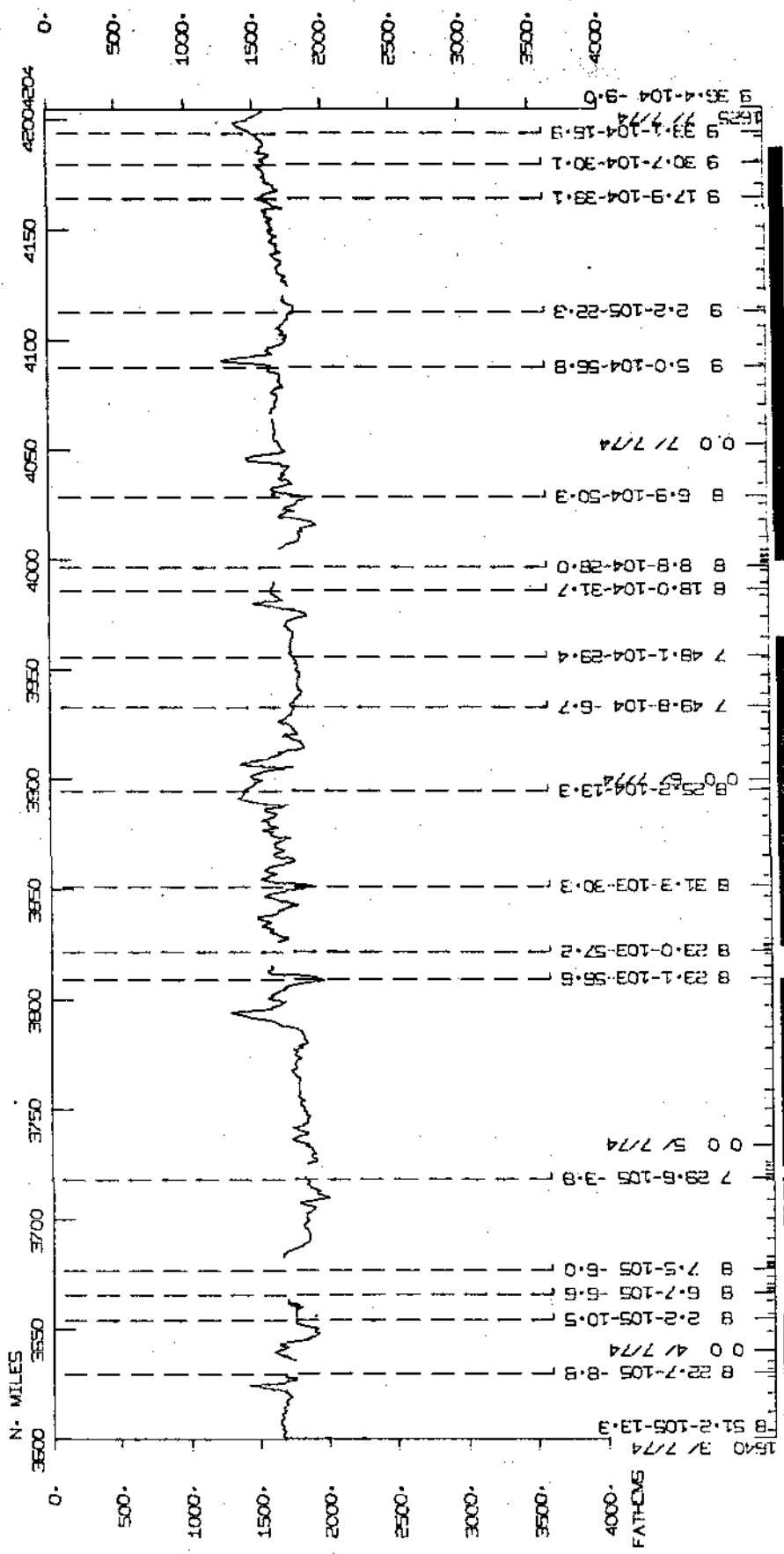
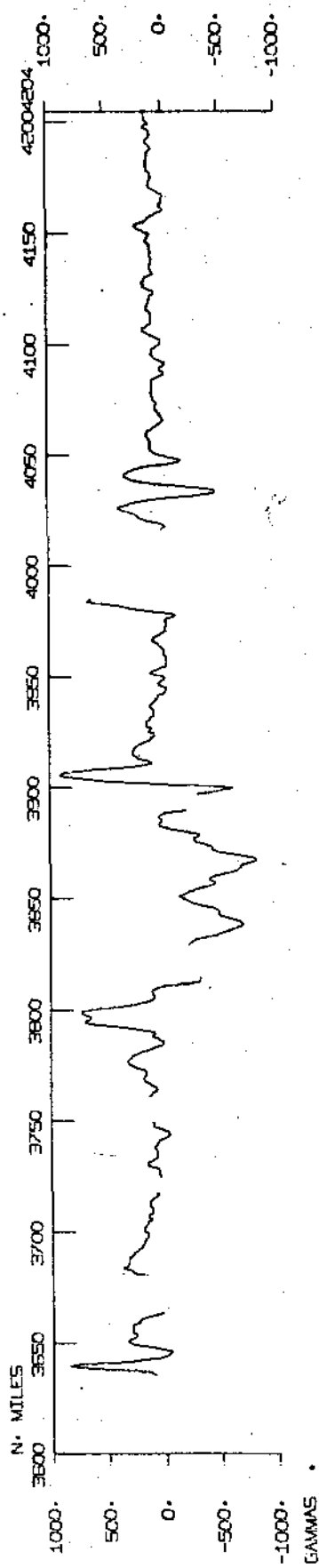
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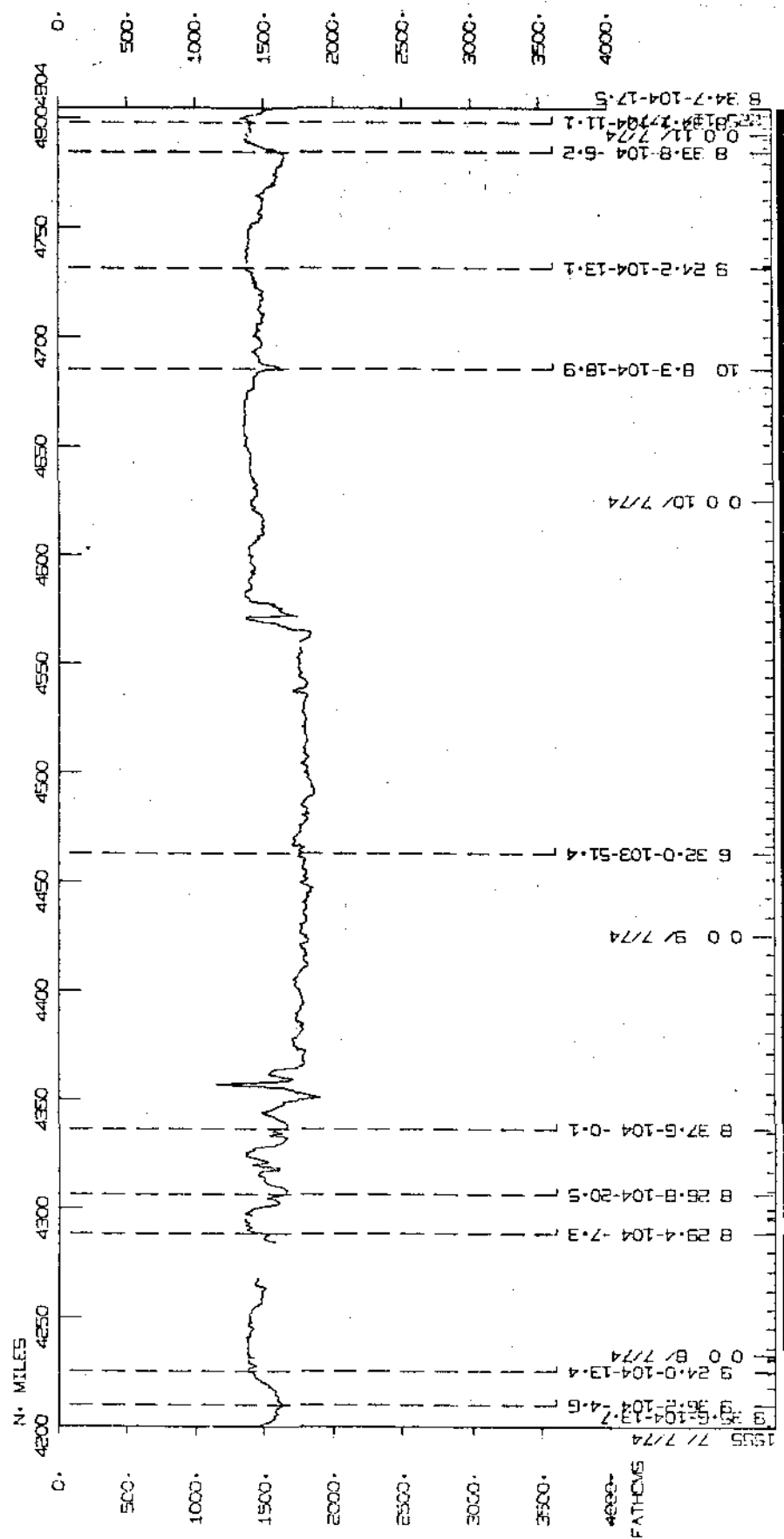
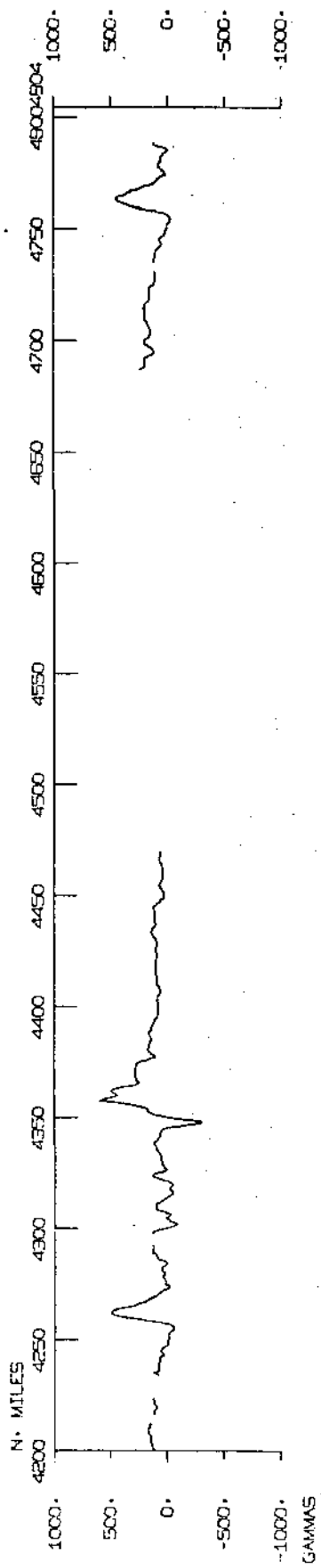
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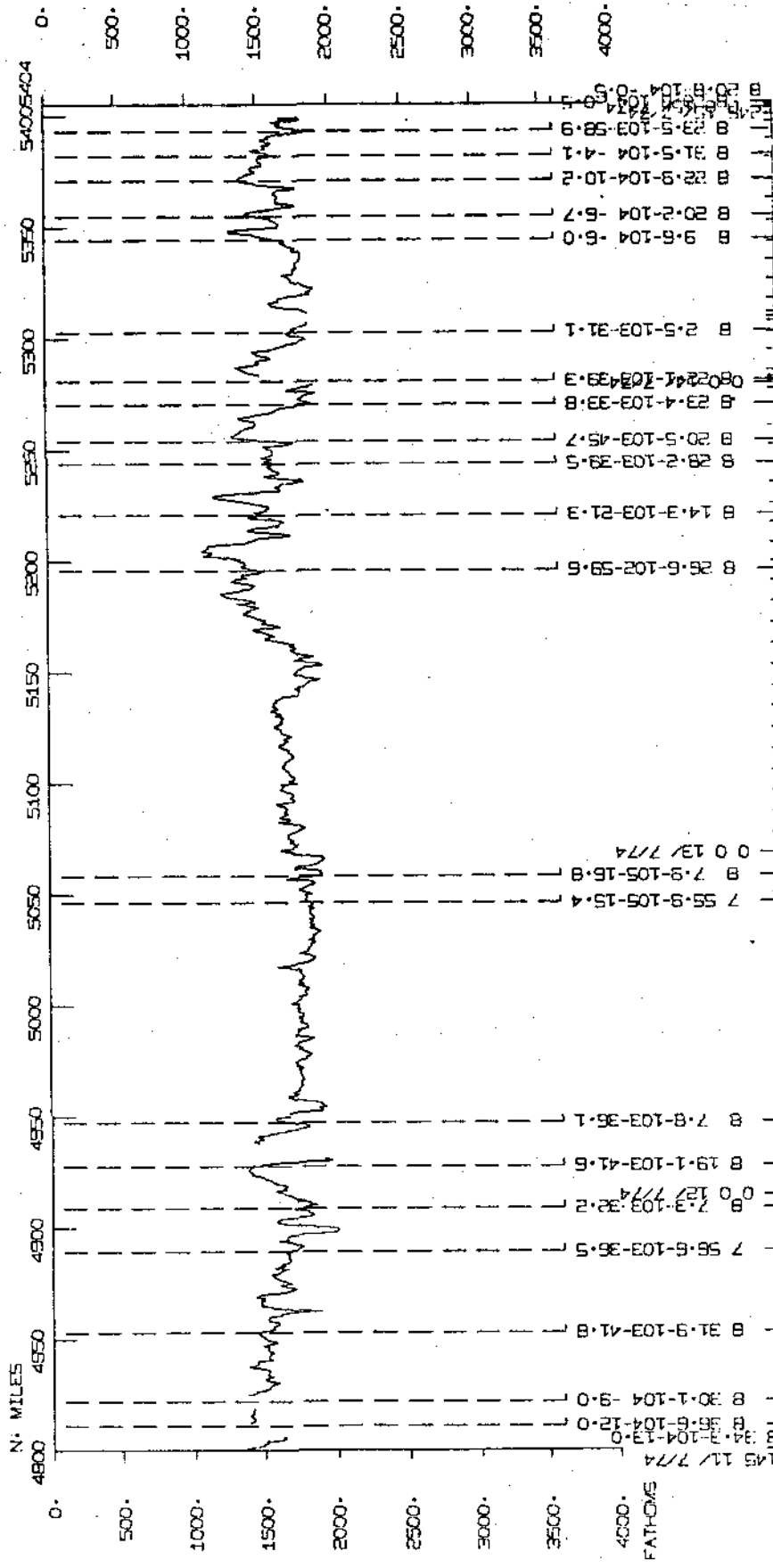
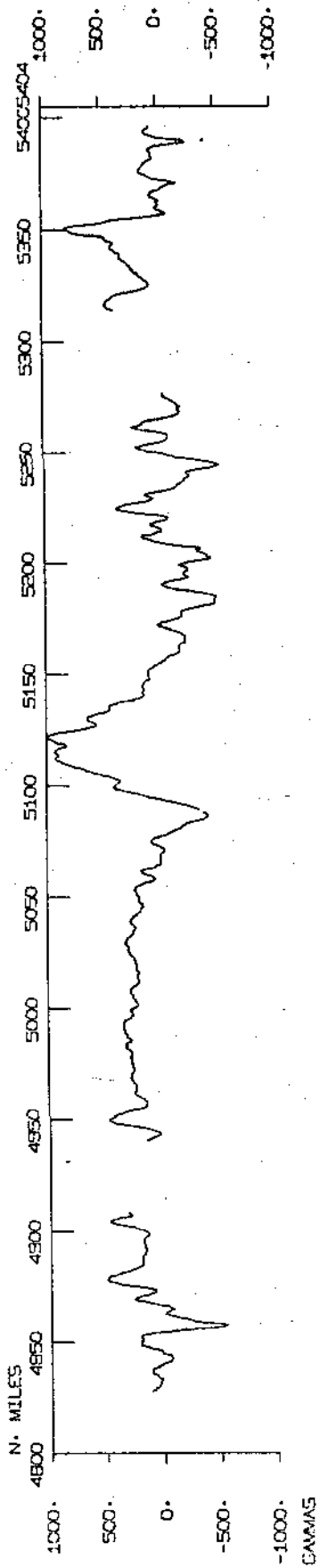
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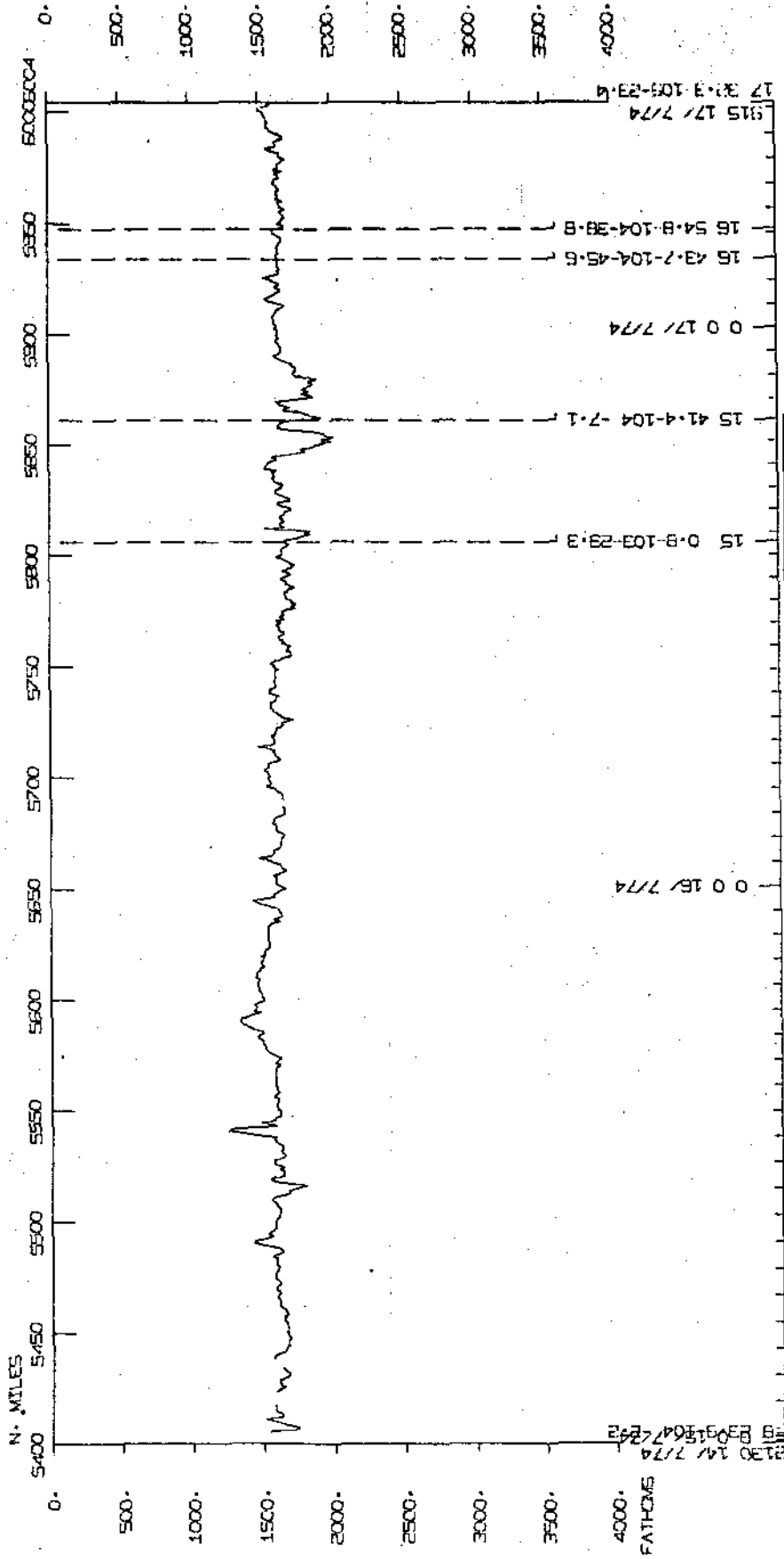
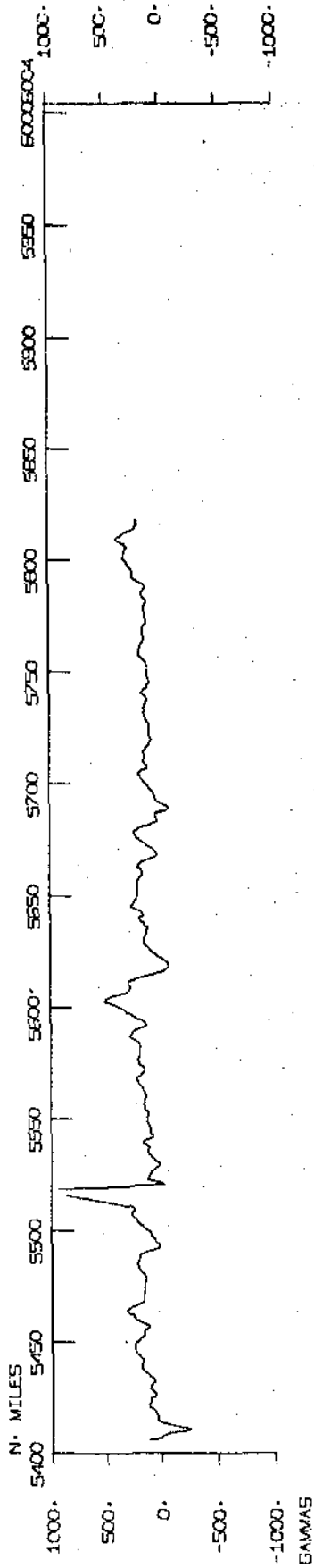
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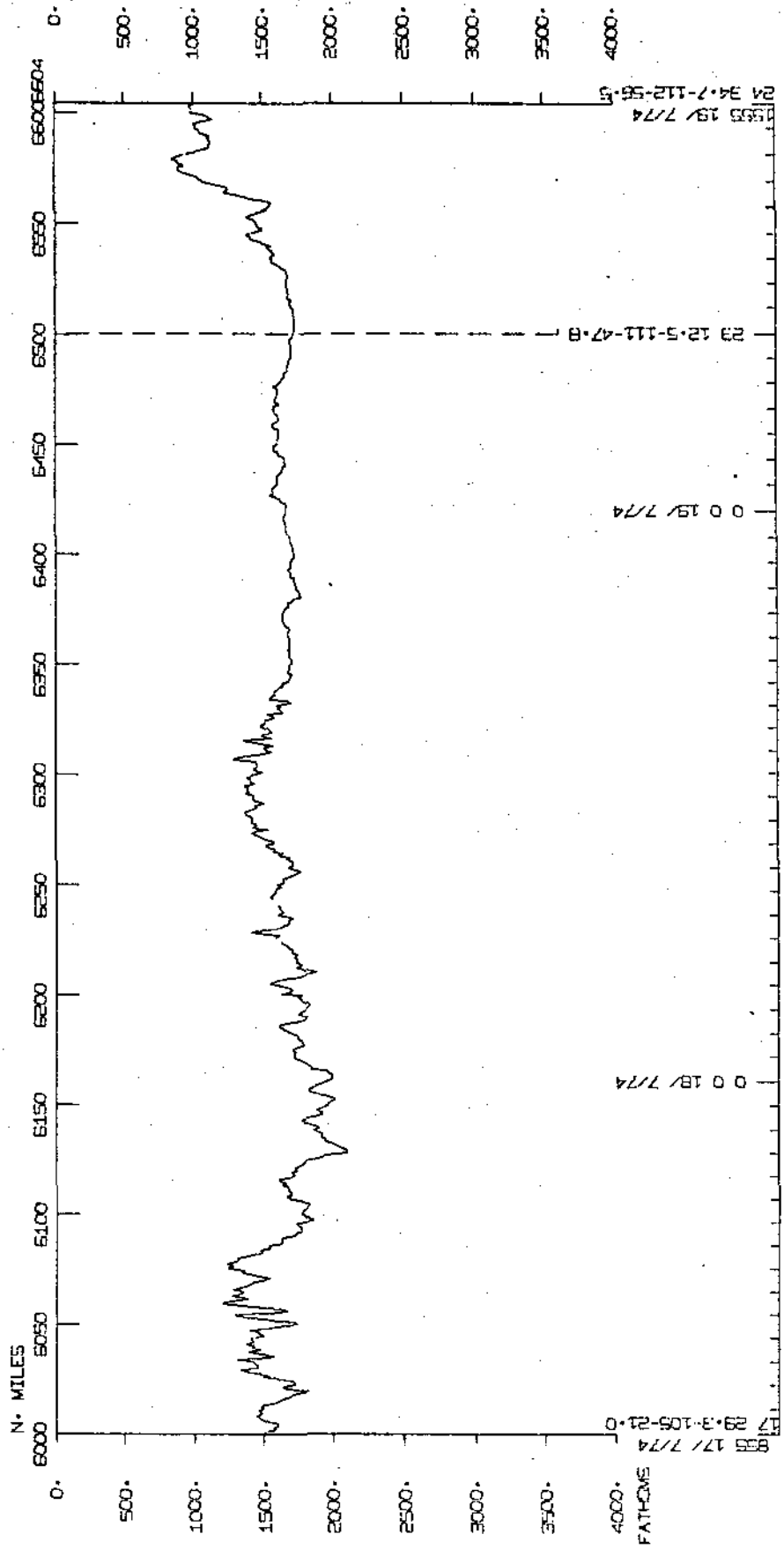
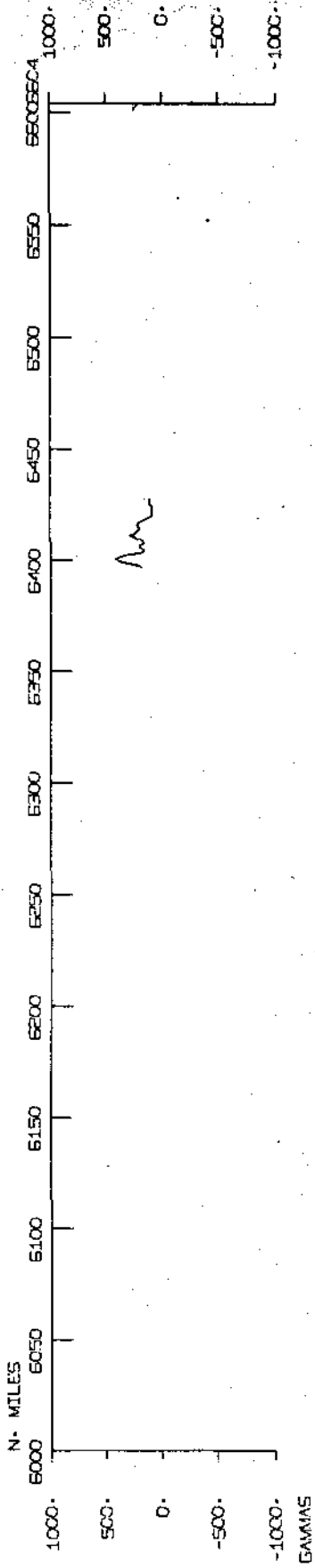
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SIQUEIROS

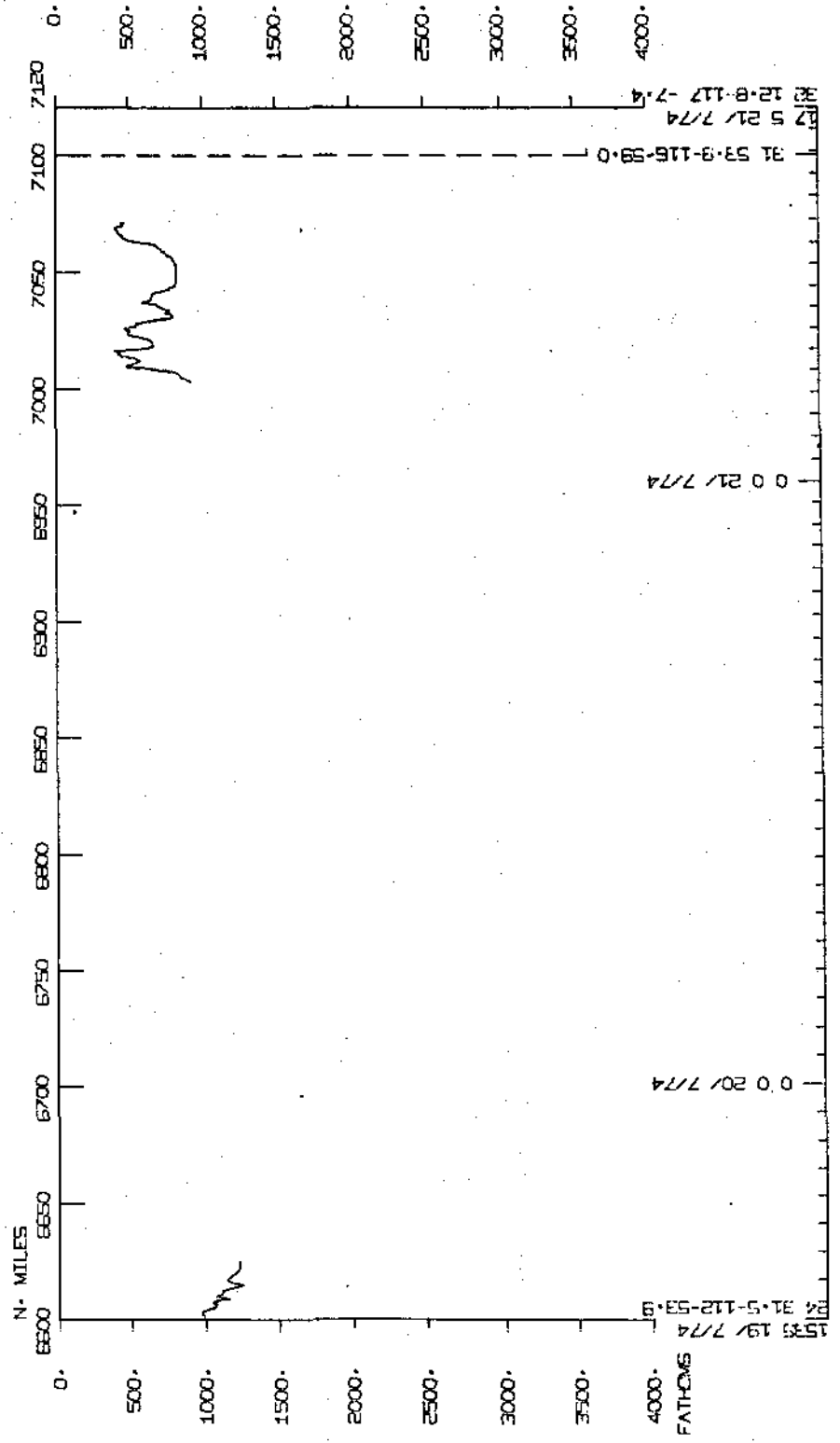
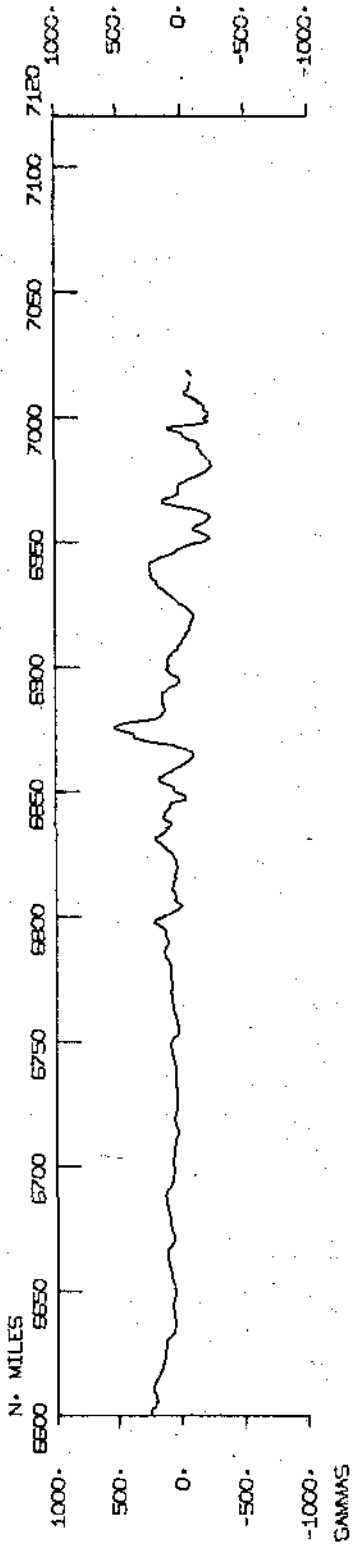


SIQUEIRAS



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0 0 19/ 7/74
29 12.5-111-47.8
85 19/ 7/74 29.34.7-112-58.5

SIQUEIRAS



SIQUEIRUS EXPEDITION SAMPLE INDEX

LISTED 4 NOVEMBER 1974

2100 17 674 B DEPART SAN DIEGO 32 37ON 117 143W S SIOR WT
 2030 21 774 E ARRIVE SAN DIEGO 32 135N 117 77W S SIOR WT

PERSONNEL

| | | | |
|------|----------------|------|----|
| PECS | L.M. DURMAN | SIOR | WT |
| PERT | M.P. HAUSMAN | SIOR | WT |
| PEAT | R.E. HUNGARD | SIOR | WT |
| PEAT | J.G. MCKEE | SIOR | WT |
| PEAT | P.R. PRAKE | SIOR | WT |
| PECT | M.O. ELSTON | SIOR | WT |
| PECT | A.J. HENRY | SIOR | WT |
| PE | K.S. DETRICH | SIOR | WT |
| PE | M. HENRY | SIOR | WT |
| PE | W.J. MCCAULEY | SIOR | WT |
| PE | D.D. MCGOWAN | SIOR | WT |
| PE | D.A. NEWHOUSE | SIOR | WT |
| PE | J.A. URGUTT | SIOR | WT |
| PE | K.W. RAITT | SIOR | WT |
| PE | B.R. RUSENDAHL | SIOR | WT |

*** NOTE *** TIME ZONES AND MINUTES OF LATITUDE AND LONGITUDE ARE LISTED IN TENTHS (E.G. 10.6 IS LISTED AS 106)

*** NOTE *** THE FOLLOWING CODES ARE NEW ***

DISP. CODE LMD= LEROY M. DORMAN
 DISP. CODE WAP= WILLIAM A. PROTHERO

*** NAVIGATION PLOTS ***

| TIME GMT | DATE D.M.Y. | TZ LDC | SAMP LDC | DISP CODE | CRUISE LEG-SHIP |
|-------------|----------------|-----------|-----------------------|--------------|--------------------|
| | | | SAMPLE IDENT. | LAT. | LONG. |
| 2100 | 17 | 674 | NVRP B BRIDGE PLOT 01 | GDC 32 370N | 117 143W S SIOR WT |
| 100 | 18 | 674 | NVBP E BRIDGE PLOT 01 | GDC 31 456N | 116 559W S SIOR WT |
| 100 | 18 | 674 | NVRP B BRIDGE PLOT 02 | GDC 31 456N | 116 559W S SIOR WT |
| 726 | 18 | 674 | NVRP E BRIDGE PLOT 02 | GDC 30 313N | 116 290W S SIOR WT |
| 726 | 18 | 674 | NVRP B BRIDGE PLOT 03 | GDC 30 313N | 116 290W S SIOR WT |
| 1700 | 18 | 674 | NVRP E BRIDGE PLOT 03 | GDC 28 387N | 115 535W S SIOR WT |
| 1700 | 18 | 674 | NVRP B BRIDGE PLOT 04 | GDC 28 387N | 115 535W S SIOR WT |
| 248 | 19 | 674 | NVRP E BRIDGE PLOT 04 | GDC 26 400N | 115 188W S SIOR WT |
| 248 | 19 | 674 | NVRP B BRIDGE PLOT 05 | GDC 26 400N | 115 188W S SIOR WT |
| 1500 | 19 | 674 | NVRP E BRIDGE PLOT 05 | GDC 24 210N | 114 380W S SIOR WT |
| 1500 | 19 | 674 | NVRP B BRIDGE PLOT 06 | GDC 24 210N | 114 380W S SIOR WT |
| 1225 | 20 | 674 | NVRP E BRIDGE PLOT 06 | GDC 21 10N | 111 588W S SIOR WT |
| 1225 | 20 | 674 | NVRP B BRIDGE PLOT 07 | GDC 21 10N | 111 588W S SIOR WT |
| 652 | 21 | 674 | NVRP E BRIDGE PLOT 07 | GDC 17 376N | 111 527W S SIOR WT |
| 652 | 21 | 674 | NVRP B BRIDGE PLOT 08 | GDC 17 376N | 111 527W S SIOR WT |
| 756 | 24 | 674 | NVRP E BRIDGE PLOT 08 | GDC 10 256N | 103 484W S SIOR WT |
| 756 | 24 | 674 | NVRP B BRIDGE PLOT 09 | GDC 10 256N | 103 484W S SIOR WT |
| 814 | 30 | 674 | NVRP E BRIDGE PLOT 09 | GDC 7 363N | 105 36W S SIOR WT |
| 814 | 30 | 674 | NVRP B BRIDGE PLOT 10 | GDC 7 363N | 105 36W S SIOR WT |
| 1320 | 6 | 774 | NVRP E BRIDGE PLOT 10 | GDC 8 88N | 104 275W S SIOR WT |
| 1320 | 6 | 774 | NVRP B BRIDGE PLOT 11 | GDC 8 88N | 104 275W S SIOR WT |
| 714 | 12 | 774 | NVRP E BRIDGE PLOT 11 | GDC 8 207N | 103 382W S SIOR WT |
| 714 | 12 | 774 | NVRP B BRIDGE PLOT 12 | GDC 8 207N | 103 382W S SIOR WT |
| 1242 | 15 | 774 | NVRP E BRIDGE PLOT 12 | GDC 10 188N | 103 532W S SIOR WT |
| 1242 | 15 | 774 | NVRP B BRIDGE PLOT 13 | GDC 10 188N | 103 532W S SIOR WT |
| 836 | 17 | 774 | NVRP E BRIDGE PLOT 13 | GDC 17 269N | 105 183W S SIOR WT |
| 836 | 17 | 774 | NVRP B BRIDGE PLOT 14 | GDC 17 269N | 105 183W S SIOR WT |
| 1252 | 19 | 774 | NVRP E BRIDGE PLOT 14 | GDC 24 53N | 112 324W S SIOR WT |
| 1252 | 19 | 774 | NVRP B BRIDGE PLOT 15 | GDC 24 53N | 112 324W S SIOR WT |
| 450 | 20 | 774 | NVRP E BRIDGE PLOT 15 | GDC 26 456N | 114 316W S SIOR WT |
| 450 | 20 | 774 | NVRP B BRIDGE PLOT 16 | GDC 26 456N | 114 316W S SIOR WT |
| 1250 | 20 | 774 | NVRP E BRIDGE PLOT 16 | GDC 27 586N | 115 332W S SIOR WT |

| TIME GMT | DATE D.M.Y. | TIME LOC | TZ LOC | SAMP CODE | DISP CODE | SAMPLE IDENT. | LAT. | LONG. | CRUISE | | |
|-------------|----------------|-------------|-----------|--------------|--------------|------------------|------|----------|----------|------|----|
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| 1250 | 20 | 774 | | NVBP B | GDC 27 | BRIDGE PLOT 17 | 586N | 115 332W | S | SIOR | WT |
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| 355 | 21 | 774 | | NVBP B | GDC 30 | BRIDGE PLOT 18 | 171N | 116 205W | S | SIOR | WT |
| 655 | 21 | 774 | | NVBP E | GDC 30 | BRIDGE PLOT 18 | 594N | 116 403W | S | SIOR | WT |
| 855 | 21 | 774 | | NVBP B | GDC 30 | BRIDGE PLOT 19 | 594N | 116 403W | S | SIOR | WT |
| 1959 | 21 | 774 | | NVBP E | GDC 32 | BRIDGE PLOT 19 | 135N | 117 77W | S | SIOR | WT |
| 2100 | 17 | 674 | | NVCP B | GDC 32 | COMPUTER PLOT 01 | 370N | 117 143W | S | SIOR | WT |
| 215 | 19 | 674 | | NVCP E | GDC 26 | COMPUTER PLOT 01 | 468N | 115 207W | S | SIOR | WT |
| 230 | 19 | 674 | | NVCP B | GDC 26 | COMPUTER PLOT 02 | 437N | 115 198W | S | SIOR | WT |
| 1330 | 20 | 674 | | NVCP E | GDC 20 | COMPUTER PLOT 02 | 479N | 111 584W | S | SIOR | WT |
| 1345 | 20 | 674 | | NVCP B | GDC 20 | COMPUTER PLOT 03 | 449N | 111 584W | S | SIOR | WT |
| 1315 | 22 | 674 | | NVCP E | GDC 14 | COMPUTER PLOT 03 | 40N | 109 529W | S | SIOR | WT |
| 1332 | 22 | 674 | | NVCP B | GDC 14 | COMPUTER PLOT 04 | 41N | 109 502W | S | SIOR | WT |
| 300 | 24 | 674 | | NVCP E | GDC 11 | COMPUTER PLOT 04 | 215N | 103 541W | S | SIOR | WT |
| 315 | 24 | 674 | | NVCP B | GDC 11 | COMPUTER PLOT 05 | 187N | 103 539W | S | SIOR | WT |
| 1945 | 4 | 774 | | NVCP E | GDC 7 | COMPUTER PLOT 05 | 293N | 105 47W | S | SIOR | WT |
| 2000 | 4 | 774 | | NVCP B | GDC 7 | COMPUTER PLOT 06 | 292N | 105 45W | S | SIOR | WT |
| 1415 | 11 | 774 | | NVCP E | GDC 8 | COMPUTER PLOT 06 | 321N | 103 439W | S | SIOR | WT |
| 1430 | 11 | 774 | | NVCP B | GDC 8 | COMPUTER PLOT 07 | 319N | 103 418W | S | SIOR | WT |
| 1700 | 13 | 774 | | NVCP E | GDC 8 | COMPUTER PLOT 07 | 170N | 103 249W | S | SIOR | WT |
| 1715 | 13 | 774 | | NVCP B | GDC 8 | COMPUTER PLOT 08 | 184N | 103 268W | S | SIOR | WT |
| 1800 | 15 | 774 | | NVCP E | GDC 11 | COMPUTER PLOT 08 | 197N | 103 480W | S | SIOR | WT |
| 1812 | 15 | 774 | | NVCP B | GDC 11 | COMPUTER PLOT 09 | 220N | 103 478W | S | SIOR | WT |
| 515 | 17 | 774 | | NVCP E | GDC 17 | COMPUTER PLOT 09 | 20N | 104 488W | S | SIOR | WT |
| 530 | 17 | 774 | | NVCP B | GDC 17 | COMPUTER PLOT 10 | 37N | 104 512W | S | SIOR | WT |
| 2145 | 18 | 774 | | NVCP E | GDC 22 | COMPUTER PLOT 10 | 25N | 110 204W | S | SIOR | WT |
| 2200 | 18 | 774 | | NVCP B | GDC 22 | COMPUTER PLOT 11 | 44N | 110 228W | S | SIOR | WT |
| 1115 | 20 | 774 | | NVCP E | GDC 27 | COMPUTER PLOT 11 | 460N | 115 252W | S | SIOR | WT |
| 1130 | 20 | 774 | | NVCP B | GDC 27 | COMPUTER PLOT 12 | 483N | 115 273W | S | SIOR | WT |
| 1930 | 21 | 774 | | NVCP E | GDC 32 | COMPUTER PLOT 12 | 135N | 117 77W | S | SIOR | WT |

***FATHOGRAMS ***

| TIME GMT | DATE | TIME | TZ | SAMP LOC | CODE | SAMPLE | IDENT. | DISP CODE | LAT. | LONG. | CRUISE | | | |
|-------------|------|------|----|-------------|------|--------|----------------|--------------|------|-------|----------|------|------|----|
| | | | | | | | | | | | LEG | SHIP | | |
| 256 | 18 | 674 | | UPRT | B | GDR | 12KHZ ROLL 01 | GDC | 31 | 254N | 116 514W | S | SIOR | WT |
| 2032 | 19 | 674 | | UPRT | E | GDR | 12KHZ ROLL 01 | GDC | 23 | 190N | 114 187W | S | SIOR | WT |
| 2050 | 19 | 674 | | UPRT | B | GDR | 12KHZ ROLL 02 | GDC | 23 | 164N | 114 162W | S | SIOR | WT |
| 710 | 22 | 674 | | UPRT | E | GDR | 12KHZ ROLL 02 | GDC | 13 | 588N | 110 524W | S | SIOR | WT |
| 726 | 22 | 674 | | UPRT | B | GDR | 12KHZ ROLL 03 | GDC | 13 | 589N | 110 497W | S | SIOR | WT |
| 645 | 25 | 674 | | UPRT | E | GDR | 12KHZ ROLL 03 | GDC | 6 | 547N | 103 238W | S | SIOR | WT |
| 650 | 25 | 674 | | UPRT | B | GDR | 12KHZ ROLL 04 | GDC | 6 | 541N | 103 238W | S | SIOR | WT |
| 719 | 28 | 674 | | UPRT | E | GDR | 12KHZ ROLL 04 | GDC | 9 | 226N | 104 255W | S | SIOR | WT |
| 716 | 28 | 674 | | UPRT | B | GDR | 12KHZ ROLL 05 | GDC | 9 | 227N | 104 250W | S | SIOR | WT |
| 1215 | 1 | 774 | | UPRT | E | GDR | 12KHZ ROLL 05 | GDC | 7 | 166N | 105 36W | S | SIOR | WT |
| 1246 | 1 | 774 | | UPRT | B | GDR | 12KHZ ROLL 06 | GDC | 7 | 209N | 105 42W | S | SIOR | WT |
| 1521 | 4 | 774 | | UPRT | E | GDR | 12KHZ ROLL 06 | GDC | 8 | 32N | 105 47W | S | SIOR | WT |
| 1528 | 4 | 774 | | UPRT | B | GDR | 12KHZ ROLL 07 | GDC | 8 | 22N | 105 47W | S | SIOR | WT |
| 130 | 7 | 774 | | UPRT | E | GDR | 12KHZ ROLL 07 | GDC | 8 | 437N | 104 539W | S | SIOR | WT |
| 136 | 7 | 774 | | UPRT | B | GDR | 12KHZ ROLL 08 | GDC | 8 | 446N | 104 540W | S | SIOR | WT |
| 1649 | 9 | 774 | | UPRT | E | GDR | 12KHZ ROLL 08 | GDC | 8 | 22N | 104 94W | S | SIOR | WT |
| 1653 | 9 | 774 | | UPRT | B | GDR | 12KHZ ROLL 09 | GDC | 8 | 24N | 104 94W | S | SIOR | WT |
| 1444 | 11 | 774 | | UPRT | E | GDR | 12KHZ ROLL 09 | GDC | 8 | 301N | 103 414W | S | SIOR | WT |
| 1444 | 11 | 774 | | UPRT | B | GDR | 12KHZ ROLL 10 | GDC | 8 | 301N | 103 414W | S | SIOR | WT |
| 1745 | 13 | 774 | | UPRT | E | GDR | 12KHZ ROLL 10 | GDC | 8 | 212N | 103 304W | S | SIOR | WT |
| 1747 | 13 | 774 | | UPRT | B | GDR | 12KHZ ROLL 11 | GDC | 8 | 213N | 103 307W | S | SIOR | WT |
| 2247 | 13 | 774 | | UPRT | E | GDR | 12KHZ ROLL 11 | GDC | 8 | 223N | 103 390W | S | SIOR | WT |
| 2302 | 13 | 774 | | UPRT | B | GDR | 12KHZ ROLL 12 | GDC | 8 | 222N | 103 398W | S | SIOR | WT |
| 2145 | 16 | 774 | | UPRT | E | GDR | 12KHZ ROLL 12 | GDC | 15 | 557N | 104 169W | S | SIOR | WT |
| 2148 | 16 | 774 | | UPRT | B | GDR | 12KHZ ROLL 13 | GDC | 15 | 562N | 104 172W | S | SIOR | WT |
| 1417 | 19 | 774 | | UPRT | E | GDR | 12KHZ ROLL 13 | GDC | 24 | 190N | 112 438W | S | SIOR | WT |
| 1430 | 19 | 774 | | UPRT | B | GDR | 12KHZ ROLL 14 | GDC | 24 | 211N | 112 455W | S | SIOR | WT |
| 1725 | 19 | 774 | | UPRT | E | GDR | 12KHZ ROLL 14 | GDC | 24 | 489N | 113 88W | S | SIOR | WT |
| 425 | 21 | 774 | | UPRT | B | GDR | 12KHZ ROLL 15 | GDC | 30 | 216N | 116 222W | S | SIOR | WT |
| 1200 | 21 | 774 | | UPRT | E | GDR | 12KHZ ROLL 15 | GDC | 31 | 271N | 116 506W | S | SIOR | WT |
| 245 | 18 | 674 | | UPR3 | B | GDR | 3.5KHZ ROLL 01 | GDC | 31 | 277N | 116 510W | S | SIOR | WT |
| 1800 | 20 | 674 | | UPR3 | E | GDR | 3.5KHZ ROLL 01 | GDC | 19 | 534N | 111 578W | S | SIOR | WT |
| 1805 | 20 | 674 | | UPR3 | B | GDR | 3.5KHZ ROLL 02 | GDC | 19 | 524N | 111 578W | S | SIOR | WT |
| 1410 | 23 | 674 | | UPR3 | E | GDR | 3.5KHZ ROLL 02 | GDC | 12 | 597N | 105 87W | S | SIOR | WT |

| TIME GMT | DATE D.M.Y. | TIME TZ | SAMP LOC | CRUISE LEG-SHIP |
|--------------|------------------|------------|---------------------------|-------------------------------|
| DISP CODE | SAMPLE IDENT. | LAT. | LONG. | |
| 1415 | 23 674 | | UPR3 H GDR 3.5KHZ ROLL 03 | GDC 12 595N 105 77W S SIOR WT |
| 1940 | 25 674 | | UPR3 E GDR 3.5KHZ ROLL 03 | GDC 7 487N 103 106W S SIOR WT |
| 2003 | 25 674 | | UPR3 B GUR 3.5KHZ ROLL 04 | GDC 7 492N 103 69W S SIOR WT |
| 416 | 29 674 | | UPR3 E GDR 3.5KHZ ROLL 04 | GDC 9 115N 105 214W S SIOR WT |
| 725 | 29 674 | | UPR3 B GDR 3.5KHZ ROLL 05 | GDC 9 102N 105 203W S SIOR WT |
| 1255 | 1 774 | | UPR3 E GDR 3.5KHZ ROLL 05 | GDC 7 222N 105 43W S SIOR WT |
| 1916 | 1 774 | | UPR3 H GDR 3.5KHZ ROLL 06 | GDC 8 155N 105 115W S SIOR WT |
| 823 | 6 774 | | UPR3 E GDR 3.5KHZ ROLL 06 | GDC 8 1N 104 305W S SIOR WT |
| 827 | 6 774 | | UPR3 H GDR 3.5KHZ ROLL 07 | GDC 8 8N 104 306W S SIOR WT |
| 1512 | 8 774 | | UPR3 E GDR 3.5KHZ ROLL 07 | GDC 8 289N 103 585W S SIOR WT |
| 1603 | 8 774 | | UPR3 H GDR 3.5KHZ ROLL 08 | GDC 8 210N 103 577W S SIOR WT |
| 1715 | 11 774 | | UPR3 E GUR 3.5KHZ ROLL 08 | GDC 8 107N 103 377W S SIOR WT |
| 1750 | 11 774 | | UPR3 H GDR 3.5KHZ ROLL 09 | GDC 8 62N 103 372W S SIOR WT |
| 1300 | 14 774 | | UPR3 E GUR 3.5KHZ ROLL 09 | GDC 8 88N 103.566W S SIOR WT |

GRAVIMETRIC RECORDS

| TIME GMT | DATE D.M.Y. | TIME TZ | SAMP LOC | CRUISE LEG-SHIP |
|--------------|------------------|------------|----------------------------|--------------------------------|
| DISP CODE | SAMPLE IDENT. | LAT. | LONG. | |
| 400 | 18 674 | | GVR H GRAVIMETRICS ROLL 01 | LMD 31 125N 116 457W S SIOR WT |
| 2340 | 18 674 | | GVR E GRAVIMETRICS ROLL 01 | LMD 27 187N 115 312W S SIOR WT |
| 0 | 19 674 | | GVR B GRAVIMETRICS ROLL 02 | LMD 27 145N 115 298W S SIOR WT |
| 2015 | 19 674 | | GVR E GRAVIMETRICS ROLL 02 | LMD 23 213N 114 212W S SIOR WT |
| 0 | 20 674 | | GVR H GRAVIMETRICS ROLL 03 | LMD 22 486N 113 480W S SIOR WT |
| 2355 | 20 674 | | GVR E GRAVIMETRICS ROLL 03 | LMD 18 519N 111 575W S SIOR WT |
| 0 | 21 674 | | GVR H GRAVIMETRICS ROLL 04 | LMD 18 515N 111 575W S SIOR WT |
| 2355 | 21 674 | | GVR E GRAVIMETRICS ROLL 04 | LMD 14 241N 111 493W S SIOR WT |
| 0 | 22 674 | | GVR B GRAVIMETRICS ROLL 05 | LMD 14 230N 111 493W S SIOR WT |
| 2355 | 22 674 | | GVR E GRAVIMETRICS ROLL 05 | LMD 13 437N 107 570W S SIOR WT |
| 0 | 23 674 | | GVR B GRAVIMETRICS ROLL 06 | LMD 13 434N 107 560W S SIOR WT |
| 2355 | 23 674 | | GVR E GRAVIMETRICS ROLL 06 | LMD 11 560N 103 586W S SIOR WT |
| 0 | 24 674 | | GVR H GRAVIMETRICS ROLL 07 | LMD 11 551N 103 585W S SIOR WT |
| 2355 | 24 674 | | GVR E GRAVIMETRICS ROLL 07 | LMD 7 461N 103 293W S SIOR WT |
| 0 | 25 674 | | GVR B GRAVIMETRICS ROLL 08 | LMD 7 464N 103 293W S SIOR WT |
| 2355 | 25 674 | | GVR E GRAVIMETRICS ROLL 08 | LMD 7 544N 102 292W S SIOR WT |

| TIME | DATE | TIME | TZ | SAMP | DISP | IDENT. | CODE | LAT. | LUNG. | LEG-SHIP | |
|------|--------|------|-----|--------------|------|--------|------|--------|----------|----------|----|
| GMT | D.M.Y. | LUC | LUC | CODE | | SAMPLE | | | | | |
| 0 26 | 674 | GVR | B | GRAVIMETRICS | ROLL | 09 | LMD | 7 544N | 102 292W | S SIQR | WT |
| 2355 | 26 674 | GVR | E | GRAVIMETRICS | ROLL | 09 | LMD | 8 298N | 103 272W | S SIQR | WT |
| 0 27 | 674 | GVR | B | GRAVIMETRICS | ROLL | 10 | LMD | 8 298N | 103 272W | S SIQR | WT |
| 2355 | 27 674 | GVR | E | GRAVIMETRICS | ROLL | 10 | LMD | 8 535N | 103 492W | S SIQR | WT |
| 0 28 | 674 | GVR | B | GRAVIMETRICS | ROLL | 11 | LMD | 8 542N | 103 492W | S SIQR | WT |
| 2355 | 28 674 | GVR | E | GRAVIMETRICS | ROLL | 11 | LMD | 9 196N | 104 596W | S SIQR | WT |
| 0 29 | 674 | GVR | B | GRAVIMETRICS | ROLL | 12 | LMD | 9 202N | 105 0W | S SIQR | WT |
| 2355 | 29 674 | GVR | E | GRAVIMETRICS | ROLL | 12 | LMD | 8 220N | 105 118W | S SIQR | WT |
| 0 30 | 674 | GVR | B | GRAVIMETRICS | ROLL | 13 | LMD | 8 218N | 105 120W | S SIQR | WT |
| 2355 | 30 674 | GVR | E | GRAVIMETRICS | ROLL | 13 | LMD | 5 387N | 104 521W | S SIQR | WT |
| 0 1 | 774 | GVR | B | GRAVIMETRICS | ROLL | 14 | LMD | 5 383N | 104 520W | S SIQR | WT |
| 2355 | 1 774 | GVR | E | GRAVIMETRICS | ROLL | 14 | LMD | 8 532N | 105 171W | S SIQR | WT |
| 0 2 | 774 | GVR | B | GRAVIMETRICS | ROLL | 15 | LMD | 8 532N | 105 171W | S SIQR | WT |
| 2355 | 2 774 | GVR | E | GRAVIMETRICS | ROLL | 15 | LMD | 9 93N | 105 60W | S SIQR | WT |
| 0 3 | 774 | GVR | B | GRAVIMETRICS | ROLL | 16 | LMD | 9 93N | 105 60W | S SIQR | WT |
| 2355 | 3 774 | GVR | E | GRAVIMETRICS | ROLL | 16 | LMD | 8 168N | 105 118W | S SIQR | WT |
| 0 4 | 774 | GVR | B | GRAVIMETRICS | ROLL | 17 | LMD | 8 161N | 105 118W | S SIQR | WT |
| 2355 | 4 774 | GVR | E | GRAVIMETRICS | ROLL | 17 | LMD | 7 355N | 104 575W | S SIQR | WT |
| 0 5 | 774 | GVR | B | GRAVIMETRICS | ROLL | 18 | LMD | 7 359N | 104 569W | S SIQR | WT |
| 2355 | 5 774 | GVR | E | GRAVIMETRICS | ROLL | 18 | LMD | 8 230N | 104 136W | S SIQR | WT |
| 0 6 | 774 | GVR | B | GRAVIMETRICS | ROLL | 19 | LMD | 8 225N | 104 134W | S SIQR | WT |
| 2355 | 6 774 | GVR | E | GRAVIMETRICS | ROLL | 19 | LMD | 8 297N | 104 526W | S SIQR | WT |
| 0 7 | 774 | GVR | B | GRAVIMETRICS | ROLL | 20 | LMD | 8 304N | 104 526W | S SIQR | WT |
| 2355 | 7 774 | GVR | E | GRAVIMETRICS | ROLL | 20 | LMD | 9 244N | 104 134W | S SIQR | WT |
| 0 8 | 774 | GVR | B | GRAVIMETRICS | ROLL | 21 | LMD | 9 244N | 104 134W | S SIQR | WT |
| 2355 | 8 774 | GVR | E | GRAVIMETRICS | ROLL | 21 | LMD | 7 100N | 103 537W | S SIQR | WT |
| 0 9 | 774 | GVR | B | GRAVIMETRICS | ROLL | 22 | LMD | 7 93N | 103 536W | S SIQR | WT |
| 2355 | 9 774 | GVR | E | GRAVIMETRICS | ROLL | 22 | LMD | 9 74N | 104 105W | S SIQR | WT |
| 0 10 | 774 | GVR | B | GRAVIMETRICS | ROLL | 23 | LMD | 9 81N | 104 105W | S SIQR | WT |
| 2355 | 10 774 | GVR | E | GRAVIMETRICS | ROLL | 23 | LMD | 8 303N | 104 105W | S SIQR | WT |
| 0 11 | 774 | GVR | B | GRAVIMETRICS | ROLL | 24 | LMD | 8 300N | 104 105W | S SIQR | WT |
| 2355 | 11 774 | GVR | E | GRAVIMETRICS | ROLL | 24 | LMD | 8 79N | 103 337W | S SIQR | WT |
| 0 12 | 774 | GVR | B | GRAVIMETRICS | ROLL | 25 | LMD | 8 84N | 103 341W | S SIQR | WT |
| 2355 | 12 774 | GVR | E | GRAVIMETRICS | ROLL | 25 | LMD | 8 91N | 105 79W | S SIQR | WT |

| TIME GMT | DATE D.M.Y. | TIME TZ | SAMP LUC CODE | SAMP IDENT. | DISP CODE | LAT. | LONG. | CRUISE LEG-SHIP |
|-------------|----------------|------------|------------------|----------------------|--------------|----------|--------|--------------------|
| 0 13 | 774 | | GVR B | GRAVIMETRICS ROLL 26 | LMD R | 92N 105 | 71W S | SIQR WT |
| 2355 | 13 | 774 | GVR E | GRAVIMETRICS ROLL 26 | LMD R | 227N 103 | 403W S | SIQR WT |
| 0 14 | 774 | | GVR B | GRAVIMETRICS ROLL 27 | LMD R | 227N 103 | 402W S | SIQR WT |
| 2355 | 14 | 774 | GVR E | GRAVIMETRICS ROLL 27 | LMD R | 222N 104 | 25W S | SIQR WT |
| 0 15 | 774 | | GVR H | GRAVIMETRICS ROLL 28 | LMD R | 222N 104 | 25W S | SIQR WT |
| 2355 | 15 | 774 | GVR E | GRAVIMETRICS ROLL 28 | LMD R | 260N 103 | 434W S | SIQR WT |
| 0 16 | 774 | | GVR B | GRAVIMETRICS ROLL 29 | LMD R | 269N 103 | 433W S | SIQR WT |
| 1900 | 16 | 774 | GVR E | GRAVIMETRICS ROLL 29 | LMD R | 341N 104 | 13W S | SIQR WT |
| 500 | 17 | 774 | GVR H | GRAVIMETRICS ROLL 30 | LMD R | 4N 104 | 465W S | SIQR WT |
| 335 | 18 | 774 | GVR E | GRAVIMETRICS ROLL 30 | LMD R | 489N 107 | 499W S | SIQR WT |

*** MAGNETOMETER ***

| TIME GMT | DATE D.M.Y. | TIME TZ | SAMP LUC CODE | SAMP IDENT. | DISP CODE | LAT. | LONG. | CRUISE LEG-SHIP |
|-------------|----------------|------------|------------------|-------------------|--------------|----------|--------|--------------------|
| 411 | 18 | 674 | MGR H | MAGNETICS ROLL 01 | GDC R | 111N 116 | 450W S | SIQR WT |
| 830 | 24 | 674 | MGR E | MAGNETICS ROLL 01 | GDC R | 192N 103 | 475W S | SIQR WT |
| 906 | 24 | 674 | MGR H | MAGNETICS ROLL 02 | GDC R | 123N 103 | 465W S | SIQR WT |
| 1455 | 13 | 774 | MGR E | MAGNETICS ROLL 02 | GDC R | 208N 103 | 93W S | SIQR WT |
| 1505 | 13 | 774 | MGR B | MAGNETICS ROLL 03 | GDC R | 201N 103 | 105W S | SIQR WT |
| 615 | 21 | 774 | MGR E | MAGNETICS ROLL 03 | GDC R | 376N 116 | 290W S | SIQR WT |

*** SEISMIC REFLECTION PROFILES ***

| TIME GMT | DATE D.M.Y. | TIME TZ | SAMP LUC CODE | SAMP IDENT. | DISP CODE | LAT. | LONG. | CRUISE LEG-SHIP |
|-------------|----------------|------------|------------------|-------------------|--------------|----------|--------|--------------------|
| 200 | 18 | 674 | SPRS H | AIRGUN RS ROLL 01 | GDC R | 366N 116 | 534W S | SIQR WT |
| 2010 | 16 | 774 | SPRS E | AIRGUN RS ROLL 01 | GDC R | 414N 104 | 83W S | SIQR WT |
| 200 | 18 | 674 | SPRF H | AIRGUN RF ROLL 01 | GDC R | 366N 116 | 534W S | SIQR WT |
| 1150 | 13 | 774 | SPRF E | AIRGUN RF ROLL 01 | GDC R | 250N 103 | 154W S | SIQR WT |
| 1155 | 13 | 774 | SPRF H | AIRGUN RF ROLL 02 | GDC R | 251N 103 | 146W S | SIQR WT |
| 2010 | 16 | 774 | SPRF E | AIRGUN RF ROLL 02 | GDC R | 414N 104 | 83W S | SIQR WT |

*** SEISMIC REFRACTION RECORD ***

| TIME GMT | DATE D.M.Y. | TIME TZ | SAMP LOC | CRUISE LEG-SHIP | DISP CODE | LAT. | LONG. |
|---------------|----------------|------------|----------------------------|--------------------------------|--------------|------|-------|
| SAMPLE IDENT. | | | | | | | |
| 133 | 21 | 674 | SKUR B SEISMIC LINE NO. 01 | UDM 18 372N 111 571W S SIQR WT | | | |
| 309 | 21 | 674 | SKUR E SEISMIC LINE NO. 01 | DUM 18 216N 111 562W S SIQR WT | | | |
| 2022 | 22 | 674 | SRUK B SEISMIC LINE NO. 02 | DDM 13 552N 108 384W S SIQR WT | | | |
| 2307 | 22 | 674 | SRUK E SEISMIC LINE NO. 02 | DDM 13 463N 108 65W S SIQR WT | | | |
| 1614 | 23 | 674 | SRUR B SEISMIC LINE NO. 03 | DDM 12 538N 104 441W S SIQR WT | | | |
| 1835 | 23 | 674 | SRUR E SEISMIC LINE NO. 03 | DDM 12 471N 104 155W S SIQR WT | | | |
| 37 | 25 | 674 | SRUR B SEISMIC LINE NO. 04 | DDM 7 446N 103 294W S SIQR WT | | | |
| 1330 | 25 | 674 | SRUR E SEISMIC LINE NO. 04 | DDM 7 443N 103 323W S SIQR WT | | | |
| 240 | 27 | 674 | SRUR B SEISMIC LINE NO. 05 | DDM 8 424N 103 365W S SIQR WT | | | |
| 503 | 27 | 674 | SRUR E SEISMIC LINE NO. 05 | DDM 8 385N 103 554W S SIQR WT | | | |
| 1919 | 27 | 674 | SRUR B SEISMIC LINE NO. 06 | DDM 8 400N 104 233W S SIQR WT | | | |
| 2100 | 27 | 674 | SRUR E SEISMIC LINE NO. 06 | DDM 8 416N 104 64W S SIQR WT | | | |
| 58 | 1 | 774 | SRAS B SEISMIC LINE NO. 07 | DDM 5 412N 104 513W S SIQR WT | | | |
| 1125 | 2 | 774 | SRAS E SEISMIC LINE NO. 07 | DDM 9 543N 105 245W S SIQR WT | | | |
| 2305 | 4 | 774 | SRUR B SEISMIC LINE NO. 08 | DDM 7 316N 105 32W S SIQR WT | | | |
| 135 | 5 | 774 | SRUR E SEISMIC LINE NO. 08 | DDM 7 437N 104 463W S SIQR WT | | | |
| 119 | 8 | 774 | SRUR B SEISMIC LINE NO. 09 | DDM 9 186N 104 124W S SIQR WT | | | |
| 235 | 8 | 774 | SRUR E SEISMIC LINE NO. 09 | DDM 9 75N 104 113W S SIQR WT | | | |
| 504 | 9 | 774 | SRAS B SEISMIC LINE NO. 10 | DDM 6 317N 103 551W S SIQR WT | | | |
| 319 | 10 | 774 | SRAS E SEISMIC LINE NO. 10 | DDM 9 369N 104 144W S SIQR WT | | | |

*** ICEAN-BUTTON SEISMOGRAPH W.A. PROTHERO, EXT. 2875 ***

| TIME GMT | DATE D.M.Y. | TIME TZ | SAMP LOC | CRUISE LEG-SHIP | DISP CODE | LAT. | LONG. |
|---------------|----------------|------------|---------------------|-----------------------------------|--------------|------|-------|
| SAMPLE IDENT. | | | | | | | |
| 2225 | 11 | 774 | SQBS B OBS DRUP | 1860 WAP 8 61N 103 333W S SIQR WT | | | |
| 930 | 14 | 774 | SQBS E OBS RECOVERY | 1860 WAP 8 65N 103 334W S SIQR WT | | | |

GEOLOGICAL SAMPLES - CUKATUR M.R. RIEDEL (EXT. 1579)

*** DREDGE ***

| TIME GMT | DATE U.M.Y. | TIME TZ | SAMP LUC | DISP CODE | IDENT. | LAT. | LONG. | CRUISE LEG-SHIP |
|-------------|----------------|------------|-------------|--------------|----------|------|-----------------------|--------------------|
| 343 | 4 | 774 | D R | B SIQR. | DREDGE 1 | 4245 | GCR R 68N 105 66W S | SIQR WT |
| 800 | 4 | 774 | D R | E SIQR. | DREDGE 1 | | GCR R 70N 105 42W S | SIQR WT |
| 952 | 4 | 774 | D R | B SIQR. | DREDGE 2 | 5007 | GCR R 74N 105 59W S | SIQR WT |
| 1415 | 4 | 774 | D R | E SIQR. | DREDGE 2 | | GCR R 81N 105 53W S | SIQR WT |
| 1020 | 5 | 774 | D R | B SIQR. | DREDGE 3 | 4707 | GCR R 230N 103 572W S | SIQR WT |
| 1321 | 5 | 774 | D R | E SIQR. | DREDGE 3 | | GCR R 245N 103 555W S | SIQR WT |
| 1227 | 6 | 774 | D R | B SIQR. | DREDGE 4 | 5001 | GCR R 88N 104 280W S | SIQR WT |
| 1830 | 6 | 774 | D R | E SIQR. | DREDGE 4 | | GCR R 100N 104 274W S | SIQR WT |
| 236 | 11 | 774 | D R | B SIQR. | DREDGE 5 | 4000 | GCR R 352N 104 173W S | SIQR WT |
| 645 | 11 | 774 | D R | E SIQR. | DREDGE 5 | | GCR R 366N 104 122W S | SIQR WT |
| 213 | 12 | 774 | D R | B SIQR. | DREDGE 6 | 5000 | GCR R 215N 103 409W S | SIQR WT |
| 700 | 12 | 774 | D R | E SIQR. | DREDGE 6 | | GCR R 204N 103 384W S | SIQR WT |
| 2318 | 13 | 774 | D R | B SIQR. | DREDGE 7 | 4503 | GCR R 228N 103 409W S | SIQR WT |
| 430 | 14 | 774 | D R | E SIQR. | DREDGE 7 | | GCR R 217N 103 380W S | SIQR WT |
| 2045 | 14 | 774 | D R | B SIQR. | DREDGE 8 | 4497 | GCR R 238N 104 25W S | SIQR WT |
| 200 | 15 | 774 | D R | E SIQR. | DREDGE 8 | | GCR R 216N 104 10W S | SIQR WT |

| TIME GMT | DATE D.M.Y. | TIME TZ | SAMP LOC | SAMP CODE | IDENT. | DISP CODE | LAT. | LONG. | CRUISE LEG-SHIP |
|-------------|----------------|------------|-------------|--------------|---------------|--------------|----------|-------|--------------------|
| 0 21 | 674 | | | BTX | NO. SAMPLES=3 | BTS 18 | 515N 111 | 575W | S SIOR WT |
| 0 22 | 674 | | | BTX | NO. SAMPLES=3 | BTS 14 | 230N 111 | 493W | S SIOR WT |
| 0 23 | 674 | | | BTX | NO. SAMPLES=2 | BTS 13 | 424N 107 | 560W | S SIOR WT |
| 0 24 | 674 | | | BTX | NO. SAMPLES=3 | BTS 11 | 551N 103 | 585W | S SIOR WT |
| 0 25 | 674 | | | BTX | NO. SAMPLES=3 | BTS 7 | 464N 103 | 293W | S SIOR WT |
| 0 26 | 674 | | | BTX | NO. SAMPLES=4 | BTS 7 | 546N 102 | 284W | S SIOR WT |
| 0 27 | 674 | | | BTX | NO. SAMPLES=4 | BTS R | 298N 103 | 272W | S SIOR WT |
| 0 28 | 674 | | | BTX | NO. SAMPLES=4 | BTS R | 542N 103 | 492W | S SIOR WT |
| 0 29 | 674 | | | BTX | NO. SAMPLES=4 | BTS 9 | 202N 105 | 0W | S SIOR WT |
| 0 30 | 674 | | | BTX | NO. SAMPLES=3 | BTS R | 218N 105 | 120W | S SIOR WT |
| 0 1 | 774 | | | BTX | NO. SAMPLES=2 | BTS 5 | 383N 104 | 520W | S SIOR WT |
| 0 2 | 774 | | | BTX | NO. SAMPLES=2 | BTS R | 538N 105 | 172W | S SIOR WT |
| 0 3 | 774 | | | BTX | NO. SAMPLES=1 | BTS 9 | 93N 105 | 60W | S SIOR WT |
| 0 4 | 774 | | | BTX | NO. SAMPLES=3 | BTS R | 161N 105 | 118W | S SIOR WT |
| 0 5 | 774 | | | BTX | NO. SAMPLES=2 | BTS 7 | 359N 104 | 569W | S SIOR WT |
| 0 6 | 774 | | | BTX | NO. SAMPLES=1 | BTS R | 225N 104 | 134W | S SIOR WT |
| 0 7 | 774 | | | BTX | NO. SAMPLES=3 | BTS R | 304N 104 | 526W | S SIOR WT |
| 0 8 | 774 | | | BTX | NO. SAMPLES=3 | BTS 9 | 244N 104 | 134W | S SIOR WT |
| 0 9 | 774 | | | BTX | NO. SAMPLES=4 | BTS 7 | 93N 103 | 536W | S SIOR WT |
| 0 10 | 774 | | | BTX | NO. SAMPLES=2 | BTS 9 | 81N 104 | 105W | S SIOR WT |
| 0 11 | 774 | | | BTX | NO. SAMPLES=2 | BTS R | 300N 104 | 105W | S SIOR WT |
| 0 17 | 774 | | | BTX | NO. SAMPLES=1 | BTS 16 | 168N 104 | 291W | S SIOR WT |

END SAMPLE INDEX