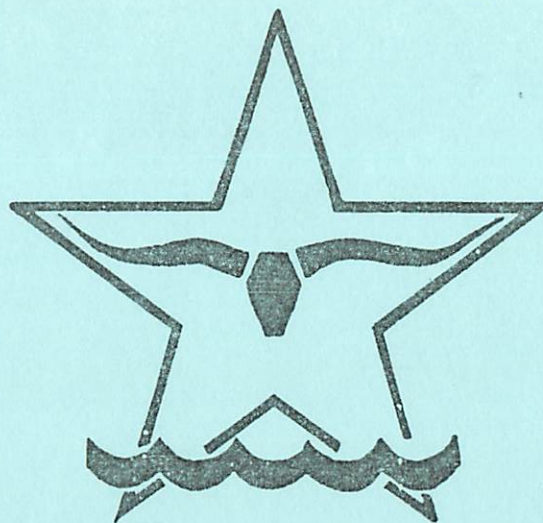


COPY 1

UNIVERSITY OF TEXAS AT AUSTIN



INSTITUTE FOR GEOPHYSICS
8701 MOPAC BLVD, THIRD FLOOR
AUSTIN, TEXAS 78759

WATCH LOG

R. V. MAURICE EWING

CRUISE
EW9502

GMT CRUISE 9502

LDGO
MAIN LAB LOG

PAGE 1

| DATE | TIME | PIT LOG | SE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|--------|---------|-------|------|-------|--|-----|-----|-----|-----|-----|-----|
| | | | | | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 088 | 1630 | 512.89 | 307 | 12 | 3935 | BEGN WATER | | | | | | |
| 088 | 1700 | 518.82 | 307 | 11.6 | 3920 | TRANSIT 1 | | | | | | |
| 088 | 1722 | 523.09 | 306.3 | 12 | 3943 | LOST SKYFIX NAVIGATION | | | | | | |
| 088 | 1735 | 524.99 | 105 | 1.4 | 3793 | 11:30 LOG ENTRY | | | | | | |
| 088 | 175108 | 525.51 | 153 | 1.1 | 3774 | OBS2 FAUNCH LAT 09:36.434N Lon 086:17.063W | | | | | | |
| 088 | 1800 | 526.16 | 58 | 10.5 | 3874 | 1200 LOG ENTRY | | | | | | |
| 088 | 1825 | 528.53 | 129.3 | 0.6 | 4088 | 09:38:238N 086:14.953W 5 MINUTE OFF | | | | | | |
| | | | | | | DUO TO WATCH CHANGE | | | | | | |
| | | | | | | 9:38:1239N 086:14.919W EXACT | | | | | | |
| | | | | | | FROM BRIDGE TLB | | | | | | |
| 088 | 1830 | 528.57 | 152 | 1.1 | 4064 | 12:30 LOG ENTRY | | | | | | |
| 088 | 1831 | | | | | 12:31 UNDERWAY | | | | | | |
| 088 | 1833 | | | | | MAGNAVAX #2 OFFLINE | | | | | | |
| 088 | 1853 | | | | | OBS3 09 40.062 086 12.875 | | | | | | |
| 088 | | | | | 4403 | 09 40.062 086 12.8825 FROM BRIDGE | | | | | | |
| 088 | 1907 | 532.42 | 49 | 11.1 | 4237 | 1300 LOG ENTRY | | | | | | |
| 088 | 1924 | 534.24 | 147 | 0.6 | | OBS4 09 41.854N 086 10.822W Beacon OK | | | | | | |
| 088 | 1925 | | | | | 1325 UNDERWAY | | | | | | |
| 088 | 1930 | 534.5 | 57.5 | 8.7 | 3829 | 13:30 LOG ENTRY | | | | | | |
| 088 | 19:52 | 537.17 | 128 | 0.2 | 3558 | OBS OUT STREMBLE 943.732N | | | | | | |
| | | | | | | 86 08.786W | | | | | | |
| | | | | | | STATION * 5 | | | | | | |
| 088 | 20:00 | 537.89 | 60.7 | 9.8 | 3464 | 14:00 LOG ENTRY | | | | | | |
| 088 | 2016 | 5 (?) | | | 3218 | OBS OUT From 945.476N | | | | | | |
| | | | | | | STATION * 6 GPSX1.MX 86 06.770W | | | | | | |
| 088 | 2018 | 539.77 | | | 3220 | UNDERWAY | | | | | | |
| 088 | 2030 | 541.63 | 54.0 | 10.8 | 3053 | LOG ENTRY (14:30) | | | | | | |
| 088 | 20:42 | 542.87 | 1695 | 0.51 | 2758 | OBS OUT * 947.278 | | | | | | |
| | | | | | | STATION * 7 86 04.719 | | | | | | |

PAGE 2[illegible]

LDGO
MAIN LAB LOG

PAGE 3

GMT CRUISE 9502
HOG

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | | |
|------|----------|---------|-------|------|--------|---|-------|--------|----|-----|--------|----|-----|
| | | | | | | | SWP | DEL/LO | HI | SWP | DEL/LO | HI | SWP |
| 089 | 00:31 | 564.48 | 112.0 | 1.6 | 38.804 | 10 00.831N 085 49.359W (Station #18) | (OBS) | | | | | | |
| 089 | 00:32 | 564.50 | 116.0 | 1.4 | 38.001 | Underway | | | | | | | |
| 089 | 00:50 | | | | | 10 01.08 085 48.18. Ph. with release system OBH 19 | | | | | | | |
| 089 | 01:00 | " | " | " | 80.00 | 10 01.731 N 085 48.363 W | | | | | | | |
| 089 | 01:00.14 | 566.33 | 201. | 0.30 | 79.8 | 10 01.735 N 085 48.361 W (Station #19) | (OBH) | | | | | | |
| 089 | 01:02 | 566.38 | 83.3 | 2.80 | 79.8 | Underway | | | | | | | |
| 089 | 01:16 | 567.66 | 333 | 0.30 | 62.4 | 10 02:654 N 085 47.364 W (Station #20) | (OBS) | | | | | | |
| 089 | 01:18 | 567.69 | 293 | 2.3 | 63.6 | Underway | | | | | | | |
| 089 | 01:30 | 569.44 | 195.3 | 10.2 | 79.60 | 10 01:113 N 085 47.941 W | | | | | | | |
| 089 | 02:00 | 574.94 | 188.3 | 11.3 | 380.84 | 09 55.969 N 085 49.443 W | | | | | | | |
| 089 | 02:30 | 580.72 | 181.7 | 11.5 | 99.24 | 09 50.572 N 085 50.688 W | | | | | | | |
| 089 | 02:53 | 583.16 | 107.8 | 0.91 | 1482.3 | 09 48.464 N 085 51.081 W (Station #21) | (OBH) | | | | | | |
| 089 | 02:57 | 583.30 | 39.7 | 7.81 | 1455 | Underway | | | | | | | |
| 089 | 03:00 | 583.82 | 316.7 | 11.0 | 129.7 | 09 49.044 N 085 51.071 W | | | | | | | |
| 089 | 03:30 | 589.46 | 316.3 | 11.1 | 1240 | 09 53.643 N 085 55.410 W | | | | | | | |
| 089 | 04:00 | 595.05 | 316.8 | 11.1 | 1208 | 09 58.254 N 085 59.756 W | | | | | | | |
| 089 | 04:20 | | | | | OBH#22 not deployed. Moving to start of line 103 | | | | | | | |
| 089 | 04:30 | 598.58 | 318.3 | 4.61 | 1262 | 10 01.212 N 086 02.544 W | | | | | | | |
| 089 | 05:00 | 600.81 | 319.5 | 4.51 | 1210 | 10 03.268 N 086 04.380 W | | | | | | | |
| 089 | 05:30 | 603.05 | 319.7 | 4.61 | 1234 | 10 05.310 N 086 06.209 W | | | | | | | |
| 089 | 06:00 | 605.30 | 320. | 4.61 | 1370 | 10 07.398 N 086 08.013 W | | | | | | | |
| 089 | 06:30 | 607.57 | 322. | 4.51 | 1334 | 10 09.316 N 086 09.854 W | | | | | | | |
| 089 | 07:00 | 609.76 | 318.7 | 9.81 | 1239.3 | 10 11.568 N 086 11.747 W | | | | | | | |
| 089 | 07:30 | 612.43 | 317.3 | 5.11 | 1411.3 | 10 13.877 N 086 13.757 W | | | | | | | |
| 089 | 08:00 | 614.88 | 315.7 | 4.81 | 1430.3 | 10 16.018 N 086 15.636 W | | | | | | | |
| 089 | 08:30 | 617.38 | 316.1 | 4.81 | 1559.3 | 10 18.138 N 086 17.603 W | | | | | | | |
| 089 | 09:00 | 619.86 | 299.8 | 4.71 | 1731.3 | 10 20.065 N 086 19.689 W | | | | | | | |
| 089 | 09:30 | 622.26 | 300.8 | 5.01 | 1824.3 | 10 21.906 N 086 22.018 W | | | | | | | |
| 089 | 10:00 | 624.69 | 300.3 | 5.01 | 1852.3 | 10 23.610 N 086 24.220 W | | | | | | | |
| 089 | 10:30 | 627.26 | 119.3 | 7.41 | 1827.3 | 10 24.317 N 086 24.556 W | | | | | | | |

[illegible]

30
29 Mar 95

LDGO
MAIN LAB LOG

PAGE 5

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | | |
|-------|-------|---------|-------|------|--------|--|-----|-----|----|----|-----|-----|----|
| | | | | | | | SWP | DEL | LO | HI | SWP | DEL | LO |
| 089 | 1759 | | | | | Gun #8 shooting again (850cl) | | | | | | | |
| | 1800 | 669.00 | 129 | 4.2 | 1212 | 10 00.31N 86 01.77W on Line 103 | | | | | | | |
| 089 | 1830 | 671.64 | 143 | 5.12 | 1202 | 9 58.774 86 00.41 (Speed From Trundle Nav Source) | | | | | | | |
| 89 | 1900 | 674.16 | 145 | 4.72 | 1173.4 | 9 57.263 85 59.040 | | | | | | | |
| 89 | 19:30 | 676.69 | 132.5 | 5.06 | 1123.3 | 9 55.780 85 57.723 | | | | | | | |
| 89 | 20:00 | 679.22 | 1122 | 4.9 | 1122.3 | 9 54.382 85 56.462 | | | | | | | |
| @ | 19:55 | | | | | WE JUST CROSSED THE LINE 101! | | | | | | | |
| | 20:15 | 680.6 | 140 | 6.02 | 1306 | GOING A LITTLE BIT FASTER! | | | | | | | |
| 89 | 20:30 | 682.1 | 143 | 5.7 | 1083 | 9 52.930 85 55.140 | | | | | | | |
| 089 | 20:36 | | | | | Restarted DMS 2000 to make Truetime and Datum consistent | | | | | | | |
| | 2050 | | | | | Restarted DMS 2000 AS ABOVE | | | | | | | |
| | 21:00 | 684.91 | 142 | 5.8 | 1197 | 9 51.365 85 53.733 | | | | | | | |
| | 2125 | | | | | END 5015 REEL #2 SHOT 750 09° 50.0N 085 52.5W | | | | | | | |
| | 2125 | | | | | BEGIN 5015 REEL 3 SHOT 751 | | | | | | | |
| 89 | 2130 | 687.56 | 142 | 4.8 | 1321 | 9 49.894 85 52.411 | | | | | | | |
| | 2130 | | | | | GUNS STOPPED | | | | | | | |
| | 2132 | | | | | GUNS RESUME! | | | | | | | |
| 89 | 22:00 | 690.20 | 1358 | 5.02 | 1430.3 | 09 48.379 N 085 51.039 W | | | | | | | |
| 89 | 22:30 | 692.59 | 1427 | 4.82 | 1452 | 09 46.887 N 085 49.702 W | | | | | | | |
| 89 | 22:58 | 694.71 | | | 1 | GUN STOPPED 09 45.546 N 85 48.696 W | | | | | | | |
| | | | | | | GUN GUN depth | | | | | | | |
| 89 | 23:00 | 695.05 | 1437 | 4.82 | 1399 | 09 45.371 N 085 48.338 W | | | | | | | |
| 89 | 23:28 | 697.42 | 135 | 4.92 | 1400.3 | END OF LINE 09 43.918 N 085 47.005 W (LINE 103) | | | | | | | |
| 89 | 23:30 | | | | | START of TURN OFF (to make to start of line 101) | | | | | | | |
| 89 | 23:53 | 699.38 | 78 | 4.82 | 1172.3 | END OF TURN 09 44.872 N 085 46.341 W | | | | | | | |
| 89 | 00:00 | 699.87 | 21 | 4.52 | 1113 | 09 45.399 W 085 46.295 W (WAITING FOR LAND SHOT 1 FROM 23:55 to 00:05) | | | | | | | |
| 00905 | 00:05 | 700.30 | 105 | 4.42 | 1102 | SHOT START 09 45.846 N 085 46.914 W | | | | | | | |
| 4 | | | | | | SOL 100 TAP 4 SP 1728 P/LF 30 NAV LOG TAP 2 | | | | | | | |

PAGE 6

| DATE | TIME | PIT LOG | HDG | | | REMARKS | A | | B | | C | |
|------|-------|---------|------|------|--------|--|---------------|---------------|---------------|--|---|--|
| | | | CSE | SPD | DEPTH | | SWP DEL LO HI | SWP DEL LO HI | SWP DEL LO HI | | | |
| 090 | 00:30 | 702.05 | 10 | 4.32 | 874.43 | 09 47.862 N 085 46.183 W | | | | | | |
| 09 | 00:43 | 702.98 | 12.5 | 4.62 | 629.63 | INCREASE VELOCITY { 09 48.978 N 085 46.156 W | | | | | | |
| 09 | 00:49 | 703.68 | 12.0 | 4.92 | 519.63 | 2D DIF GPS 09 49.518 N 085 46.145 W | | | | | | |
| 09 | 00:52 | 703.70 | 12.8 | 4.52 | 511.03 | BACK to 3D DIF GPS { 09 49.746 N 085 46.136 W | | | | | | |
| 090 | 00:55 | 704 | 10.0 | 5.12 | 472.63 | STOP SHOOTING 09 50.089 N FOR 10 minutes 085 46.130 W WAITING FOR LAND SHOT 2 | | | | | | |
| 090 | 01:00 | 704.34 | 11.3 | 4.92 | 441.93 | 2D DIF GPS 09 50.175 N 085 46.127 W | | | | | | |
| 090 | 01:05 | 704.78 | 8.7 | 4.92 | 444.93 | 09 50.973 N 085 46.113 W (START AGAIN SHOOTING) | | | | | | |
| 090 | 01:30 | 706.73 | 12.1 | 4.82 | 190.13 | 09 53.217 N 085 46.069 W <u>stop shooting - listen for "beech shot" 3.25 kg</u> <u>start recording</u> | | | | | | |
| 090 | 01:55 | 708.81 | 19.7 | 4.72 | 96.71 | STOP SHOOTING { 09 55.535 N FOR 10 mn } 085 46.032 W waiting for LAND SHOT 2 | | | | | | |
| 090 | 02:00 | 709.19 | 9.8 | 4.92 | 94.413 | 09 55.985 N 085 46.018 W | | | | | | |
| 090 | 02:05 | 709.65 | 15.8 | 4.92 | 88.313 | SHOOTING AGAIN 09 56.495 N 085 46.002 W | | | | | | |
| 090 | 02:07 | | | | | STOP SHOOTING { 09 56.635 N AGAIN !!! } 085 45.997 W | | | | | | |
| 090 | 02:10 | 710 | 15.3 | 4.62 | 85.71 | for a land shot (LAND SHOT 2.5 kg) START SHOOTING AGAIN 09 56.915 N 085 45.997 W | | | | | | |
| 090 | 02:30 | 711.52 | 35.7 | 4.27 | 71.313 | 09 58.690 N 085 45.948 W | | | | | | |
| 090 | 02:55 | 713 | 35.9 | 4.52 | 57.3 | STOP SHOOTING FOR 10 min WAITING for LAND SHOT 3 10 01.019 N 085 45.902 W | | | | | | |

CRUISE 9502

LDGO
MAIN LAB LOG

PAGE 7

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|------|---------|-------|------|--------|---|-----|--------|----|-----|--------|----|
| | | | | | | | SWP | DEL/LO | HI | SWP | DEL/LO | HI |
| | 0255 | | | | | EOL 100 5615 TAP 4 50.2105 NAVLOG #2 | | | | | | |
| 090 | 0300 | 713.95 | 44 | 4.7 | 55313 | 10 01.370N 085 45.912W | | | | | | |
| 090 | 0305 | 714.34 | - | 532 | 49.8B | initiate turn 10 01.819 N | | | | | | |
| | | | | | | 085 45.874 W | | | | | | |
| 090 | 0328 | 716.25 | 250 | 332 | 63 | 10 02.606N 085 47.251W | | | | | | |
| | | | | | | (START SHOOTING - TURN IS NOT FIN SHID) | | | | | | |
| 090 | 0330 | 716.34 | 251 | 372 | 65 | 10 02.365N 085 47.378W | | | | | | |
| 090 | 0347 | 717.42 | 211 | 332 | 80 | OVER OBH #19 | | | | | | |
| 090 | 0400 | 718.19 | 221 | 4.8 | 90713 | 10 01.178W 085 48.925W | | | | | | |
| 090 | 0407 | 718.75 | 212 | 6.12 | 99.8 | over OBS #18 | | | | | | |
| 090 | 0417 | 720.05 | 212 | 4.02 | 362.33 | over OBS #17 | | | | | | |
| 090 | 0430 | 720.24 | 209 | 4.02 | 341 | 09 59.860N 085 50.469W | | | | | | |
| 090 | 0447 | 721.48 | 212 | 4.32 | 487 | OVER OBS #16 | | | | | | |
| 090 | 0459 | | | | | Reset h Datum / True Time | | | | | | |
| 090 | 0500 | 722.36 | 212 | 4.08 | 513.13 | 09 58.693N 085 52.006W | | | | | | |
| 090 | 0507 | 722.86 | 212 | 4.2 | 589 | over OBH #15 | | | | | | |
| 090 | 0529 | 724.39 | 208 | 4.32 | 746 | over OBS #14 | | | | | | |
| 090 | 0530 | 724.48 | 210 | 4.62 | 752 | 09 57.167N 085 53.497W | | | | | | |
| 090 | 0550 | 725.9 | 209 | 4.52 | 883 | over OBH #13 | | | | | | |
| 090 | 0600 | 726.63 | 207 | 4.22 | 938 | 09 55.855N 085 54.988W | | | | | | |
| 090 | 0613 | 727.59 | 214.3 | 4.42 | 1006 | over OBS #12 | | | | | | |
| 09 | 0630 | 728.75 | 216.0 | 4.12 | 1120.3 | 09 54.48 N 085 56.564 W | | | | | | |
| 090 | 0630 | 729.01 | 215.0 | 4.22 | 1141.3 | over OBS #11 | | | | | | |
| 090 | 0700 | 730.86 | 209.3 | 4.32 | 1483.3 | 09 53.132 N 085 58.067W | | | | | | |
| 090 | 0710 | 731.56 | 211.7 | 4.12 | 1612.3 | over OBS #10 | | | | | | |
| 090 | 0730 | 732.90 | 220.0 | 4.22 | 1799.3 | 09 51.821 N 085 59.533 W | | | | | | |
| 090 | 0752 | 734.47 | 212.8 | 4.32 | 2054.2 | 09 50.830 N 085 00.646 W | | | | | | |
| 090 | 0800 | 735.10 | 212.5 | 4.22 | 2157.2 | 09 50.433 N 086 01.125 W | | | | | | |
| 090 | 0830 | 737.18 | 214.0 | 4.42 | 2407.2 | 09 49.117N 086 02.582W | | | | | | |

PAGE 8

[illegible]

PAGE 9

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|------|------|-------|---|-----|-----|----|----|-----|-----|
| | | | | | | | SWP | DEL | LO | HI | SWP | DEL |
| 090 | 16:10 | 771.13 | | | 3631 | DATUM CLOCK IS FIXED! | | | | | | |
| 90 | 16:30 | 772.48 | 54.8 | 4.22 | 3745 | 9:35.965 86 17.423 | | | | | | |
| 90 | 16:40 | 773.17 | 56.1 | 4.12 | 3794 | PASSING OVER OBH1 (STATION #1) | | | | | | |
| | 16:55 | | | | | GUN #15 : 20% EARLY SHOTS OVER LAST 100 | | | | | | |
| | 16:56 | 774.3 | 70.7 | 4.9 | 3980 | RUNNING DMB STRONG CURRENT => INCREASING | | | | | | |
| | | | | | | SPEED | | | | | | |
| | 16:59 | | | | | UNSYNC. CLOCKS => RESET | | | | | | |
| | 17:00 | 774.59 | 57.0 | 4.4 | 3990 | 9 37.382 86 15.792 | | | | | | |
| 090 | 17:15 | | | | | re-synchronized time and Datum but Datum clock still one second behind | | | | | | |
| 90 | 17:30 | 776.85 | 60.0 | 4.42 | 4184 | 9:38.881 86:19.140 | | | | | | |
| | 17:34 | | | | | We passed STATION #2 (41.17.17) (MISSED?) | | | | | | |
| | 17:44 | | | | 4380 | RIGHT @ the trench | | | | | | |
| | 17:46 | | | | 4384 | STILL @ the trench | | | | | | |
| | 17:48 | | | | 4392 | STILL OVER THE TRENCH | | | | | | |
| 90 | 17:53 | 778.65 | 55.1 | 4.82 | 4407 | OVER STATION #3 9 40.062 86:12.775 | | | | | | |
| 90 | 1800 | 779.13 | 65.1 | 4.42 | 4357 | 9 40.455 N 86 12.35 W | | | | | | |
| | 1828 | | | | | PASSED OVER #4 86 7.97 W | | | | | | |
| | | | | | | 9 41.854 N | | | | | | |
| | 1830 | 781.42 | 57 | 4.2 | 3849 | 9 41.952 N 86 10.676 W ENTRY | | | | | | |
| 90 | 1900 | 783.64 | 66.7 | 4.12 | 3610 | 9 43.44 86 09.000 | | | | | | |
| | 19:06 | 784.13 | 51.5 | 4.6 | 3559 | PASSED OVER STATION #5 9 43.737 | | | | | | |
| | | | | | | 86 08.647 | | | | | | |
| 90 | 19:30 | 785.94 | 64 | 4.8 | 3276 | 9 44.958 86 07.270 | | | | | | |
| 90 | 19:40 | 786.67 | 59 | 4.12 | 3214 | 9 45.476 7 STATION #6 | | | | | | |
| | | | | | | 86 06.699 3 | | | | | | |
| 90 | 20:00 | 788.13 | 63 | 4.22 | 3072 | 9 46.507 86 05.560 | | | | | | |
| 90 | 20:16 | 789.27 | 58 | 4.22 | | 9 47.278 86 04.657 STAT. #7 | | | | | | |
| 90 | 20:23 | | | | | Change Course for fishing boats to NW; will go around | | | | | | |
| 90 | 20:30 | 790 | 11 | 4.12 | 2628 | 9 48.83 86 4.181, starting to head back to line | | | | | | |

PAGE 10

| DATE | TIME | PIT LOG | HOG | | | REMARKS | A | | B | | C | | | | | |
|------------------------------------|-------|---------|------|------|--------|--|-----|-----|----|----|-----|-----|----|----|-----|-----|
| | | | CSE | SPD | DEPTH | | SWP | DEL | LO | HI | SWP | DEL | LO | HI | SWP | DEL |
| 090 | 2043 | | | | | GPS TIME differs FROM WRONG TZB GPS DATUM clock by about 10 seconds GPS TRATIM & DATUM TIME differ by 1 sec. | | | | | | | | | | |
| 090 | 2050 | 791.83 | 71 | 4.2 | 2447 | BACK ON LINE 100 MTRS FROM LINE | | | | | | | | | | |
| 090 | 2053 | 792.06 | 58 | 5.1 | 2419 | ONLINE | | | | | | | | | | |
| 090 | 2058 | | | | | Resyncronised DATUM & True TIME | | | | | | | | | | |
| 090 | 2100 | 792.57 | 64 | 4.02 | 2390 | 9 49.355N 86 2.346 W | | | | | | | | | | |
| 090 | 2130 | 794.80 | 59.6 | 4.52 | 2052 | 9° 50.809 N 86 00.657 W | | | | | | | | | | |
| 090 | 2133 | | | | | 9 50.928 N 86 00.47 W Passed by STATION #9 | | | | | | | | | | |
| 090 | 22.00 | 797.07 | 61.5 | 4.32 | 1675.3 | 09° 52.897 N 085 58.981 W | | | | | | | | | | |
| 090 | 22.07 | 797.58 | 65.7 | 4.12 | 1615.3 | above OBS #10 (mismatch between longitude and latitude according to the position of deployment?) | | | | | | | | | | |
| initiated between 22.07 and 22.30? | | | | | | CHANGE COARSE for fishing boats | | | | | | | | | | |
| 090 | 22.30 | 799.23 | 123 | 4.12 | 1217.3 | 09 54.004 N 085 57.683 W | | | | | | | | | | |
| 090 | 22.52 | 801.88 | 62.1 | 4.2 | 1038 | 09 55.032 N 085 55.899 W ON LINE AGAIN | | | | | | | | | | |
| 090 | 23.00 | 801.50 | 69.8 | 4.32 | 1015 | 09 55.200 N 085 55.711 W | | | | | | | | | | |
| 090 | 23.04 | | | | 988 | pass OBS #12 09 55.476 55.406 | | | | | | | | | | |
| 090 | 23:20 | | | | 889 | above (v probably 23.03) OBS #13 | | | | | | | | | | |
| 090 | 23.30 | 803.68 | 71 | 4.12 | 819.11 | 09 56.761 N 085 53.987 W | | | | | | | | | | |
| 090 | 23.40 | 804.4 | 59 | 4.12 | 742 | above OBS #14 above OBS #14 | | | | | | | | | | |
| 090 | 23.58 | 805.73 | | | 577 | above OBS #15 (mismatch between latitude and longitude compared deployment) | | | | | | | | | | |
| 0 | 00.00 | | | | | | | | | | | | | | | |
| 091 | 00.00 | 806.85 | 62 | 4.22 | 559 | 09 58.246 N 085 52.204 W | | | | | | | | | | |
| 091 | 00.15 | 807 | | | 492 | above OBS #16 | | | | | | | | | | |
| 091 | 00.30 | 808.05 | 59.7 | 4.2 | 346 | 09 59.772 085 50.552 W | | | | | | | | | | |
| 091 | 00.34 | | | | 326 | above OBS #17 (2D DIF GPS) | | | | | | | | | | |
| 091 | 00.49 | | | | 99.6 | 30 GPS 10 06.775 N 085 49.406 W | | | | | | | | | | |

| DATE | TIME | PIT LOG | HOG | | | REMARKS | A | | B | | C | |
|------|-------|---------|-------|------|--------|--|-----|-----|----|----|-----|-----|
| | | | CSE | SPD | DEPTH | | SWP | DEL | LO | HI | SWP | DEL |
| 091 | 00:51 | 809.63 | 55 | 5.02 | 99 | above over OBS #18 | | | | | | |
| 091 | 00:58 | | | | | 2D GPS 10 01.268 N 085 48.874 W | | | | | | |
| 091 | 01:02 | 810.53 | 57 | 4.42 | 86.1 | 10 01.424 N 085 48.682 W | | | | | | |
| 091 | 01:09 | 810.98 | 59 | 4.22 | 80.0 | above OBH #19 | | | | | | |
| 091 | 01:18 | 811.67 | 55 | 4.42 | 70 | Back to 3D GPS 10 02.161 N 085 47.844 W | | | | | | |
| 091 | 01:28 | 812.41 | 41.7 | 4.22 | 61 | above OBS #20 | | | | | | |
| 091 | 01:30 | 812.52 | 30.1 | 4.22 | 60.6 | 10 02.742 N 085 47.187 W | | | | | | |
| 091 | 01:36 | 812.98 | 79.1 | 3.62 | 52 | START of the TURN 10 03.029 N 10 03.46.812 W | | | | | | |
| | | | | | | END of SHOTS - END of LINE 102 | | | | | | |
| | | | | | | TRAP #8 SP 4477 NAVTRAP 4. | | | | | | |
| 091 | 02:00 | 814.77 | 185 | 4.02 | 60.6 | 10 01.425 N 085 46.341 W | | | | | | |
| 091 | 02:09 | 815.45 | 216 | 4.02 | 65.5 | TURN to go to recover OBS #20 | | | | | | |
| | | | | | | 10 00.658 N 085 46.449 W | | | | | | |
| 091 | 02:30 | 816.66 | 340 | 2.99 | 67.6 | 10 01.459 N 085 47.130 W | | | | | | |
| 091 | 03:00 | 817.90 | 377 | 1.22 | 63.8 | 10 02.661 085 47.420 W | | | | | | |
| 091 | 03:06 | 818.02 | 110.8 | 1.12 | 61.4 | 10 02.717 085 47.326 W | | | | | | |
| | | | | | | <u>OBS #20 on surface</u> | | | | | | |
| 091 | 03:24 | 818.24 | 488 | 0.42 | 61.504 | <u>OBS #20 on deck</u> 10 02.668 N 085 47.274 W | | | | | | |
| | | | | | | engine stopped | | | | | | |
| 091 | 03:30 | 818.43 | 228 | 6.72 | 63.304 | 10 02.531 N 085 47.340 W | | | | | | |
| 091 | 03:45 | 819.78 | 331.5 | 0.82 | 79 | 10 01.883 N 085 48.388 W | | | | | | |
| | | | | | | <u>OBH #19 in surface</u> . (OBS seen on the screen from the lab). | | | | | | |
| 091 | 03:50 | 819.85 | 75 | 2.92 | 78.7 | 10 01.966 N 085 48.374 OBH #19 (~ 50 m from the boat) (call from the bridge) | | | | | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|-------|------|--------|---|-----|-----|-----|-----|-----|-----|
| | | | | | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 091 | 04:00 | 819.96 | 198.1 | 0.62 | 77.4 | 10 01 980 N 085 48.320 W | | | | | | |
| 091 | 04:05 | 819.99 | 191.5 | 0.58 | 77.7 | OBH #19 on deck | | | | | | |
| 091 | / | / | -0 | | 77.7 | 10 02.011 N 085 48.361 W | | | | | | |
| 091 | 04:30 | 821.79 | 162.1 | 0.62 | 99.614 | 10 00.726 N 085 49 414 W | | | | | | |
| 091 | 05:00 | 821.99 | 162.3 | 0.58 | 100.86 | 10 00.986 N 085 49.453 W | | | | | | |
| 091 | 05:11 | 822.21 | 166.8 | 1.08 | 99.6 | 10 00.892 N 085 49.403 W | | | | | | |
| | | | | | | <u>OBH #18 on surface</u> | | | | | | |
| 091 | 05:20 | 822.31 | 163.7 | 0.62 | 99.13 | 10 00.965 085 49.429 W | | | | | | |
| | | | | | | <u>OBH #18 on deck</u> | | | | | | |
| 091 | 05:30 | 823.15 | 169.8 | 0.92 | 85.41 | 10 00 664 N 085 50.091 W | | | | | | |
| 091 | 05:42 | 823.80 | 175.7 | 0.92 | 37.3 | 10 00 175 N 085 50 561 W | | | | | | |
| | | | | | | OBH #17 on surface | | | | | | |
| 091 | 05:45 | 823.80 | 195.0 | 0.32 | 378.51 | 10 00 163 N 085 50.588 W | | | | | | |
| | | | | | | OBH #17 on deck | | | | | | |
| 091 | 06:00 | 825.20 | 194.5 | 0.72 | 433.14 | 09 59.126 N 085 51.525 W | | | | | | |
| 091 | 06:30 | 825.67 | 122.8 | 0.72 | 439.30 | 09 59.064 N 085 51.509 W | | | | | | |
| 091 | 07:00 | 826.04 | 148.7 | 0.62 | 430.44 | 09 59.140 N 085 51.513 W | | | | | | |
| 091 | 07:11 | 826.13 | 166.7 | 0.62 | 416.24 | OBH #16 on surface 09 59.191 N 085 51.559 W | | | | | | |
| 091 | 07:26 | 826.36 | 159.0 | 0.72 | 396.94 | OBH #16 on deck 09 59.320 N 085 51.535 W | | | | | | |
| 091 | 07:30 | 826.40 | 166.0 | 0.92 | 395.04 | 09 59.336 N 085 51.520 W | | | | | | |
| 091 | 07:52 | 827.95 | 239.1 | 0.22 | 554.64 | OBH #15 on deck 09 58.431 N 085 52.761 W | | | | | | |
| 091 | 08:00 | 828.02 | 214.7 | 2.32 | 588.14 | (broke surface ~ 0736) 09 58.10 N 085 53.12 W | | | | | | |
| 091 | 08:30 | 829.82 | 134.8 | 1.42 | 746.24 | 09 57.341 N 085 53.601 W | | | | | | |
| 091 | 09:00 | 830.37 | 141.0 | 0.92 | 744.84 | 09 57.365 N 085 53.603 W | | | | | | |
| 091 | 09:14 | 830.48 | 171.3 | 0.42 | 720.54 | OBH #14 on surface 09 57.447 N 085 53.767 W | | | | | | |
| 091 | 09:30 | 830.76 | 237.1 | 0.72 | 713.74 | 09 57.521 N 085 53.869 W | | | | | | |
| 091 | 09:32 | 830.79 | 254.8 | 0.82 | 715.94 | OBH #14 on deck 09 57.540 N 085 53.917 W | | | | | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|-------|------|--------|---|-----|-----|-----|-----|-----|-----|
| | | | | | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 091 | 0943 | 831.58 | 204.5 | 8.82 | 798.14 | OBH #13 on surface 09 57.028 N 085 54.426 W | | | | | | |
| 091 | 0955 | 832.32 | 194.8 | 0.82 | 866.44 | OBH #13 on deck 09 56.443 N 085 54.767 W | | | | | | |
| 091 | 1000 | 832.39 | 181.8 | 0.52 | 855.44 | 09 56.512 N 085 54.887 W | | | | | | |
| 091 | 1030 | 834.02 | 178.2 | 0.32 | 998.44 | 09 55.311 N 085 55.508 W | | | | | | |
| 091 | 1100 | 834.49 | 141.8 | 0.52 | 996.44 | 09 55.477 N 085 55.783 W | | | | | | |
| 091 | 1108 | 834.72 | 127.8 | 2.42 | 992.44 | OBH #12 on surface 09 55.519 N 085 55.657 W | | | | | | |
| 091 | 1121 | 834.94 | 126.8 | 1.02 | 976.44 | OBH #12 on deck 09 55.687 N 085 55.767 W | | | | | | |
| 091 | 1130 | 835.34 | 186.7 | 5.32 | 1002.4 | 09 55.455 N 085 55.981 W | | | | | | |
| 091 | 1136 | 836.31 | 190.5 | 6.62 | 1091.3 | OBH #11 on surface 09 54.697 N 085 56.294 W | | | | | | |
| 091 | 1200 | 837.59 | 213.8 | 1.92 | 1028.3 | 09 55.156 N 085 56.926 W | | | | | | |
| 091 | 1205 | 837.71 | 159.1 | 1.62 | 1071.3 | OBH #11 on deck 09 55.155 N 085 56.984 W | | | | | | |
| 091 | 1230 | 841.44 | 138.8 | 10.0 | 1074.3 | 09 52.697 N 085 54.671 W | | | | | | |
| 091 | 1300 | 843.32 | 138.7 | 9.40 | 1276.3 | 09 49.553 N 085 51.808 W | | | | | | |
| 091 | 1330 | 847.95 | 133.8 | 0.80 | 1548.3 | 09 48.528 N 085 51.213 W | | | | | | |
| 091 | 1337 | 848.03 | 144.8 | 0.90 | 1544.3 | OBH #21 on deck 09 48.641 N 085 51.292 W | | | | | | |
| 091 | 1400 | 850.90 | 232.3 | 9.50 | 1842.3 | 09 47.089 N 085 53.825 W | | | | | | |
| 91 | 14:30 | 855.70 | 225 | 9.4 | 2136 | 9 44.35 85 57.550 | | | | | | |
| 091 | 14:56 | | | | | Engines Stopped. Drifting to position to test/deploy vertical streamer (Geomar) | | | | | | |
| 091 | 15:00 | 859.19 | 300 | 0.8 | 2603 | 9° 42.088' N 86° 00.256' W preparing V. streamer | | | | | | |
| 091 | 15:30 | 859.50 | 208 | 1.4 | 2589 | 9° 42.248 86° 00.330 | | | | | | |
| | | | | | | @ 200 south from station #26 | | | | | | |
| 091 | 15:38 | 859.64 | 132 | 0.4 | 2590 | 9° 42.424 } OBH out! + vert. st. | | | | | | |
| | | | | | | 86° 00.364 } station #26 | | | | | | |
| 091 | 15:45 | 860.75 | 232 | 9.8 | 2645 | Under way to st. 25 | | | | | | |
| 091 | 16:00 | 862.28 | 230 | 9.0 | 2804 | 9° 41.222 86° 01.665 | | | | | | |
| 91 | 16:30 | 866.05 | 144 | 1.2 | 3311 | 9° 38.859 86° 04.406 #25 | | | | | | |
| | 1640 | 866.28 | 173 | 0.8 | 3328 | 9° 38.783 86° 04.417 } OBH Is | | | | | | |
| | 16:41 | | | | | UNDER WAY TO #24 | | | | | | |
| 091 | 17:00 | 868.55 | 318 | 9.2 | 3428 | 9° 40.539' 86° 6.25' | | | | | | |

[illegible]

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|-------|------|--------|--|-----|-----|-----|-----|-----|-----|
| | | | | | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 092 | 01:30 | 907.59 | 1417 | 6.50 | 2850 | 09 55 538 N 086 12.148 W | | | | | | |
| 092 | 01:58 | 909.80 | 148 | 4.70 | 2709 | 09 54.127 N 086 10.902 W (TURN OFF due to fishing boat) | | | | | | |
| 092 | 02:00 | 909.95 | 1479 | 5.00 | 2701 | 09 54 015 N 086 10.848 W | | | | | | |
| 092 | 02:03 | 910.21 | 149 | 4.70 | 2675 | 09 53 807 N 086 10 713 W (airgun 9 stops problem with fishing boat net) | | | | | | |
| 092 | 02:31 | 912.49 | 137 | 5.00 | 2688 | 09 52.463 N 086 09.378 W | | | | | | |
| 092 | 02:33 | 912.67 | 136 | 4.50 | 2681 | ONLINE AGAIN 09 52.375 N All the airguns 086 09.312 W available | | | | | | |
| 092 | 02:37 | 912.95 | 135.5 | 4.70 | 2675 | above OBH #23 | | | | | | |
| 092 | 02:00 | 914.70 | 138.3 | 4.70 | 2715 | 9250.945 86° 08.012 | | | | | | |
| 092 | 03:11 | 915.55 | 139 | 4.60 | 2700 | 09 50.438 N 086 07.559 W air gun 4 stops available (8, 16, 19 unavailable) | | | | | | |
| 092 | 03:30 | 917 | 137 | 4.20 | 2745 | 09 49.509 N 086 06.718 W | | | | | | |
| 092 | 04:00 | 919.35 | 138 | 4.50 | 2761 | 09 48.036 N 086 05.387 W | | | | | | |
| 092 | 04:15 | 920.51 | 136.5 | 4.80 | 2753 | above OBH #7 - CROSSING POINT with lines 101 and 102. | | | | | | |
| 092 | 04:30 | 921.70 | 138.7 | 4.70 | 2856.2 | 09 46.503 N 086 06.013 W | | | | | | |
| 092 | 05:00 | 924.02 | 137.7 | 4.8 | 2792.0 | 9° 44.935 N 86° 02.603 W hour. | | | | | | |
| 092 | 05:30 | 926.38 | 139.1 | 4.4 | 2668.2 | 9° 43.440 N 86° 01.257 W half h. | | | | | | |
| 092 | 05:51 | 927.95 | 145.7 | 4.5 | 2584.2 | Above OBH #26 and vertical streamer | | | | | | |
| 092 | 06:00 | 928.66 | 140.3 | 4.5 | 2607.2 | 9241.986 N 85° 59.945 W. | | | | | | |
| 092 | 0630 | 930.99 | 140.5 | 4.20 | 2695.2 | 09 40.478 N 085 58.585 W | | | | | | |
| 092 | 0700 | 933.32 | 143.5 | 5.00 | 2561.2 | 09 38.972 N 085 57.225 W | | | | | | |
| 092 | 0730 | 935.73 | 140.0 | 5.40 | 2395.2 | 09 37.427 N 085 55.838 W (stopped shooting 104) | | | | | | |
| 092 | 0737 | 936.34 | 219.7 | 4.20 | 2418.2 | 09 37.001 N 085 55.929 W (started shooting on transit to Line 105) | | | | | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-----------------|-------------------|----------------|----------------|-----------------|--|-----|-----|-----|-----|-----|-----|
| | | | | | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 092 | 0800 | 937.82 | 218.7 | 4.00 | 2740.2 | 09 35.962 N 085 57.115 W | | | | | | |
| 092 | 0830 | 939.34 | 216.1 | 4.20 | 3107.1 | 09 34.547 N 085 58.722 W | | | | | | |
| 092 | 0857 | 941.82 | 325.3 | 4.00 | 3211.1 | 09 34.45 N 085 00.00 W | | | | | | |
| | | | | | | Start shooting line 105 | | | | | | |
| 092 | 0900 | 941.99 | 319.8 | 3.40 | 3199.1 | 09 34.20 N 086 00.400 W w/ 1st current with us, speed ~4.5 ground | | | | | | |
| 092 | 0930 | 944.02 | 315.0 | 4.00 | 3296.1 | 09 36.100 N 086 01.913 W | | | | | | |
| 092 | 1000 | 946.02 | 317.0 | 4.10 | 3334.1 | 09 37.742 N 086 03.483 W | | | | | | |
| 092 | 1020 | 947.36 | 316.0 | 3.70 | 3317.1 | 09 38.893 N 086 04.504 W over OBST #5 | | | | | | |
| 092 | 1030 | 947.98 | 314.0 | 4.10 | 3338.1 | 09 39.447 N 086 04.900 W | | | | | | |
| 092 | 1100 | 949.95 | 316.1 | 4.10 | 3471.1 | 09 41.094 N 086 05.510 W | | | | | | |
| 092 | 1130 | 951.87 | 318.1 | 3.70 | 3531.1 | 09 42.738 N 086 08.00 W | | | | | | |
| 092 | 1145 | 952.99 | 318.0 | 3.40 | 3570.1 | crossing Line 102, OBH #5 09 43.910 086 9.033 | | | | | | |
| 092 | 1200 | 953.70 | 317.8 | 3.80 | 3568.1 | 09 44.512 N 086 09.565 W | | | | | | |
| 092 | 1230 | 955.47 | 308.0 | 3.40 | 3582.1 | 09 46.226 N 086 11.112 W | | | | | | |
| 092 | 1300 | 957.26 | 315.1 | 3.70 | 3656.1 | 09 47.953 N 086 12.670 W | | | | | | |
| 092 | 1311 | 957.89 | 313.8 | 3.70 | 3618.1 | 09 48.551 N 086 13.210 W over OBH #24 | | | | | | |
| 092 | 1330 | 959.07 | 313.5 | 3.50 | 3623.1 | 09 49.605 N 086 14.156 W | | | | | | |
| 092 | 1400 | 960.76 | 316 | 3.9 | 3850 | 9 51 323 86 15.715 | | | | | | |
| 092 | 14:30 | 962.84 | 316 | 3.4 | 3974 | 9 52.999 86 17.221 | | | | | | |
| 092 | 14:37 | 963.26 | 325 | 3.9 | 3948 | 9 53 400 END OF THE LINE | | | | | | |
| | | | | | | 86 17 560 * 105 | | | | | | |
| | 14:38 | | | | | LAST SHOT ON LINE * 105 | | | | | | |
| | 15:00 | | | | | | | | | | | |
| 092 | 1500 | 964.84 | 323 | 4.8 | 3876 | 09 54.935 N 86. 18.867 W nearly | | | | | | |
| 092 | 1530 | 966.59 | 323 | 2.0 | 4019 | 09 56.492 N 86 20.122 W | | | | | | |
| 092 | 1531 | | | | | GAVE A FISHERMAN A bag Full of | | | | | | |
| | 1550 | 970.64 | 146 | 9.0 | 3456 | CIGARETTES TO MAKE him leave. | | | | | | |
| 092 | 1600 | 970.64 | 146 | 9.0 | 3456 | 9 57.493 86 18.742 | | | | | | |
| 092 | 1630 | 975.16 | 148 | 9.1 | 3670 | 9 54.015 N 86 16.567 W | | | | | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|-----|------|-------|--|-----|--------|-----|--------|-----|--------|
| | | | | | | | SWP | DEL/LO | SWP | DEL/LO | SWP | DEL/LO |
| 092 | 1700 | 977.56 | 265 | 9.2 | 3700 | 9 53.552N 86 16.171W ENROUTE TO RETRIEVE STA 24 | | | | | | |
| 092 | 1720 | | | | | CHANGED PLATTER PPN FROM Red TO Blue TTB | | | | | | |
| 092 | 1730 | 982.07 | 171 | 7.8 | 3614 | 9 50.200N 86 14.309W | | | | | | |
| | 17:35 | 983.00 | 154 | 8.00 | 3631 | 9 49.501 7 OBH IS ON SSHE 86 14.122 THE SURFACE | | | | | | |
| 092 | 1757 | | | | | 7 48.893N 86 13.769W OBS ON BOARD | | | | | | |
| 092 | 1800 | 984 | 126 | 0.5 | 3655 | 9 48.892N 86 13.767W hour | | | | | | |
| 092 | 1801 | | | | | UNDERWAY ENROUTE TO RETRIEVE STATION 23 | | | | | | |
| 092 | 1830 | 987.5 | 60 | 9.5 | 3106 | 9 50.949N 86 10.813W half hour | | | | | | |
| | 1848 | 989.81 | 79 | 0.9 | 2677 | 9 52.057 86 09.043 trying to communicate with OBH | | | | | | |
| | 1900 | 989.98 | 335 | 1.1 | 2666 | 9 52.218 86 09.045 | | | | | | |
| | 1907 | 990.12 | 142 | 0.9 | 2669 | 9 52.092 86 09.077 OBH on sight! | | | | | | |
| | 1930 | 990.67 | 985 | 1.7 | 2710 | 9 52.211 86 09.331 turning around to get OBH | | | | | | |
| | 19:38 | 990.84 | 803 | 0.8 | 2680 | 9 52.262 86 09.239 OBH ON BOARD | | | | | | |
| | 19:40 | | | | | EN RUTA A ESTACION NUMERO 26 | | | | | | |
| | 20:00 | 993.56 | 138 | 9.01 | 2715 | 9 50.525 86 07.657 | | | | | | |
| | 20:30 | 998.19 | 137 | 9.5 | 2711 | 9 47.632 86 04.441 | | | | | | |
| | 20:31 | 999.54 | 137 | 9.3 | 2704 | CROSSING DIP LINE | | | | | | |
| 092 | 20:41 | 1000 | 136 | 9.2 | 2703 | 1000 1000 MILES OF THIS CRUISE | | | | | | |
| 092 | 21:00 | 1002.94 | 148 | 9.2 | 2635 | 9 44.35' 86 1.54' | | | | | | |
| 092 | 21:30 | 1007.61 | 130 | 12.9 | 2519 | 9 41.41' 85 58.45' We are travelling SE to go around longline - past St. 26 | | | | | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|-------|------|--------|--|-----|--------|----|-----|--------|----|
| | | | | | | | SWP | DEL/LO | HI | SWP | DEL/LO | HI |
| 92 | 22:00 | 1011.50 | 101.1 | 1.80 | 2583 | 09 42.411 N 086 00.473 W | | | | | | |
| 92 | 22:17 | 1011.78 | 37.8 | 0.80 | 2611 | 09 42.757 N 086 00.382 W | | | | | | |
| | | | | | | Station # 26 on surface | | | | | | |
| | | | | | | and vertical streamer | | | | | | |
| 092 | 22:30 | 1012.22 | 289.0 | 1.60 | 2619 | 9° 42.800 N 86° 00.619 W. | | | | | | |
| 092 | 22:32 | 1012.27 | 30.9 | 0.70 | 2624 | 09 42 833 N 086 00.652 W | | | | | | |
| | | | | | | station # 26 and vertical streamer | | | | | | |
| | | | | | | on deck | | | | | | |
| 092 | 23:00 | 1014.92 | 213.7 | 9.0 | 2957 | 9° 41.260 N 86° 02.469 W | | | | | | |
| 092 | 23:24 | 1018.15 | 190.7 | 2.0 | 3311 | 09 39.099 N 086 04.617 W | | | | | | |
| | | | | | | OBH # 23 on surface | | | | | | |
| 092 | 23:26 | 1018.30 | 320 | 1.80 | 3320 | 09 39.172 N 086 04.821 W | | | | | | |
| 092 | 23:37 | 1018.48 | 4.8 | 0.90 | 3329 | 09 39.352 N 086 04.936 W | | | | | | |
| | | | | | | OBH # 23 on the deck | | | | | | |
| | | | | | | | | | | | | |
| 092 | 24:00 | 1021.78 | 256.3 | 12.1 | 3923.1 | 9° 39.049 N 86° 08.551 W. | | | | | | |
| 092 | 00:00 | 1027.79 | 2600 | 7.5 | 4076 | 9° 38.129 N 86° 14.687 | | | | | | |
| 092 | 00:37 | 1028.16 | 807 | 0.81 | 4059 | 09 38.042 N 086 14.971 W | | | | | | |
| 092 | 01:00 | 1029.10 | 223 | 3.21 | 3996 | 09 37.816 N 086 15.964 W | | | | | | |
| 093 | 01:30 | 1030 | 192 | 1.61 | 3860 | 09 37.037 N 086 16.947 W | | | | | | |
| 093 | 01:33 | 1030 | 190 | 0.51 | 3863 | 09 37.063 N 086 16.997 W | | | | | | |
| | | | | | | on surface. OBH # 1 | | | | | | |
| 093 | 01:54 | 1030.99 | 223.5 | 0.61 | 3787.1 | 9° 36.681 N 86.17.294 W OBH # 1 | | | | | | |
| 093 | 02:00 | 1031.07 | 199.0 | 0.91 | 3787.1 | 9° 36.752 N 86.17.38 W on surface deck | | | | | | |
| 093 | 02:03 | 1031.12 | 258 | 0.91 | 3784 | 09 36.767 N 086 17.439 W | | | | | | |
| | | | | | | OBH # 1 on deck | | | | | | |
| 093 | 02:17 | 1032.66 | 597 | 8.91 | 3994 | OBS on surface (for) | | | | | | |
| | | | | | | 09 37.655 N 086 16.255 W | | | | | | |
| 093 | 02:30 | 1034.00 | 178 | 1.21 | 4063 | 09. 38.56 N 086.15.21 W - OBS # 2 | | | | | | |
| | | | | | | on deck. | | | | | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | | B | | | C | | |
|------|-------|---------|-------|------|--------|----------------------------|---------------|---------------------|----|----|-----|-----|----|----|-----|
| | | | | | | | SWP | DEL | LO | HI | SWP | DEL | LO | HI | SWP |
| 093 | 03:00 | 1036.66 | 81.8 | 1.61 | 4392 | 09° 40.028 N | 086° 13.151 W | | | | | | | | |
| 093 | 03:30 | 1037.01 | 50.3 | 0.51 | 4399 | 09° 40.374 N | 086° 13.491 W | | | | | | | | |
| 093 | 03:35 | 1037.09 | 21.3 | 0.21 | 4398 | 09° 40.423 N | 086° 13.511 | OBH #3 | | | | | | | |
| | | | | | | on the surface. | | | | | | | | | |
| 093 | 03:40 | 1037.13 | 103.3 | 3.11 | 4397 | 09° 40.416 N | 086° 13.445 | OBH #3 | | | | | | | |
| | | | | | | is on deck. | | | | | | | | | |
| 093 | 03:54 | 1037.58 | 125.8 | 0.11 | 4402 | 09° 40.339 N | 086° 13.093 W | OBH #4 | | | | | | | |
| | | | | | | OBH #4 | | | | | | | | | |
| 093 | 04:00 | 1038.01 | 59.5 | 8.81 | 4407 | 09° 40.693 N | 086° 12.635 W | OBS #4 | | | | | | | |
| 093 | 04:30 | 1040.69 | 60.3 | 8.51 | 38130 | 09° 42.753 N | 086° 11.116 W | on surface, on deck | | | | | | | |
| 093 | 04:58 | 1043.48 | 103.0 | 0.61 | 3573 | 09° 43.448 N | 086° 08.744 W | ? | | | | | | | |
| 093 | 05:30 | 1043.75 | 73.5 | 0.41 | 3580 | 09 43.763 N | 086 09.121 W | | | | | | | | |
| 093 | 05:41 | 1044.20 | 311.4 | 2.81 | 3575 | 09 44.239 N | 086 09.277 W | | | | | | | | |
| | | | | | | OBH #5 on surface. | | | | | | | | | |
| 093 | 05:46 | 1044.36 | 303.1 | 1.41 | 3580 | 09 44.387 N | 086 09.434 W | | | | | | | | |
| | | | | | | OBH #5 on deck. | | | | | | | | | |
| 093 | 06:00 | 1045.76 | 74.8 | 8.81 | 3469 | 09 45.024 N | 086 08.399 W | (transit to OBS #6) | | | | | | | |
| 093 | 06:07 | 1046.87 | 71.3 | 8.91 | 3266 | 09 45.405 N | 086 07.360 W | | | | | | | | |
| | | | | | | OBS #6 on surface. | | | | | | | | | |
| 093 | 06:18 | 1047.45 | 17 | 0.81 | 3215 | 09 45.848 N | 086 06.952 W | | | | | | | | |
| | | | | | | (OBS #6 on deck). | | | | | | | | | |
| 093 | 0630 | 1048.21 | 49.5 | 9.01 | 3132.1 | 09 46.536 N | 086 06.481 W | | | | | | | | |
| 093 | 0653 | 1050.51 | 134.5 | 1.21 | 2755.2 | 09 47.540 N | 086 04.937 W | OBH #7 on surface? | | | | | | | |
| | | | | | | (radio contact, no visual) | | | | | | | | | |
| 093 | 0700 | 1050.63 | 106.0 | 0.51 | 2749.2 | 09 47.580 N | 086 04.946 W | | | | | | | | |
| 093 | ~0700 | | | | | OBH #7 on deck | | | | | | | | | |
| 093 | 0730 | 1052.92 | 58.8 | 5.91 | 2398.2 | 09 49.310 N | 086 03.262 W | | | | | | | | |
| 093 | 0800 | 1053.81 | 119.3 | 0.41 | 2399.2 | 09 49.270 N | 086 02.954 W | | | | | | | | |
| 093 | 0809 | 1053.91 | 112.7 | 0.51 | 2397.2 | 09 49.285 N | 086 02.987 W | OBS #8 on surface | | | | | | | |
| 093 | 0819 | 1054.15 | 95.8 | 0.91 | 2393.2 | 09 49.346 N | 086 02.854 W | OBS #8 on deck | | | | | | | |

[illegible]

| DATE | TIME | PIT LOG | H182 | | | DEPTH | REMARKS | A | | B | | C | | |
|------|-------|---------|------|------|--------|---|-------------------------|-----|-----|----|----|-----|-----|----|
| | | | CSE | SPD | DEL | | | SWP | DEL | LO | HI | SWP | DEL | LO |
| 093 | 20:00 | 1172.27 | 227 | 11.5 | 120 | 9° 34.35 S | 85 00.330 | | | | | | | |
| 93 | 20:30 | 1178.05 | 54 | 12.1 | 126 | 9° 33.750 | 85 00.502 | | | | | | | |
| 93 | 21:00 | 1182.91 | 288 | 0.4 | 106 | 9° 37.06 Z | 84 57.093 | | | | | | | |
| 93 | 21:30 | 1183.37 | 190 | | | 9° 36.949 N | 84 57.180 W | | | | | | | |
| | 21:43 | 1183.47 | 180 | 0.5 | 107 | 9° 36.924 | 84 57.185 } TEST | OBH | OUT | | | | | |
| 93 | 22:00 | 1184.16 | 43.7 | 2.92 | 106.2 | 9° 37.403 N | 84° 56.65 W | | | | | | | |
| 93 | 22:30 | 1185.07 | 46.0 | 4.12 | 103.74 | 9° 38.130 N | 84° 55.911 W | | | | | | | |
| 93 | 23:00 | 1187.12 | 67.8 | 3.82 | 95.701 | 09° 39.360 N | 084° 56.227 W | | | | | | | |
| | | | | | | (During the turnoff to move to site 63) | | | | | | | | |
| | | | | | | GUN ARRAY TEST - (AREA 2) | | | | | | | | |
| 93 | 23:23 | 1189.04 | 210 | 4.92 | 96.5 | 09 39.666 N | 084 56.813 W | | | | | | | |
| | | | | | | (Start of the test) | | | | | | | | |
| | | | | | | 1st test shot interval 40s | | | | | | | | |
| | | | | | | (test shot only) | | | | | | | | |
| 93 | 23:30 | 1189.13 | 216 | 5.32 | 96.5 | 09 39.599 N | 084 56.863 W | | | | | | | |
| 93 | 23:36 | 1189.69 | 218 | 5.12 | 96.5 | 09 39.183 N | 084 55.267 W | | | | | | | |
| | | | | | | (start of the second array test) | | | | | | | | |
| 93 | 23:40 | | | | | Resynchronized Datum two time | | | | | | | | |
| 93 | 23:42 | 1190.17 | 222 | 5.32 | 101.96 | 09 38.828 N | 084 55.554 W | | | | | | | |
| | | | | | | Test starts Test no 1 | | | | | | | | |
| | | | | | | 5985 c. inches - Shot interval 19 s | | | | | | | | |
| | | | | | | Shot spacing 50m. | | | | | | | | |
| 94 | 00:00 | 1191.65 | 226 | 5.12 | 108.06 | 09 37.682 N | 084 56.528 W | | | | | | | |
| 94 | 00:11 | 1192 | 223 | 5.32 | 108.06 | ng above OBH | (Point 53) | | | | | | | |
| 94 | 00:13 | 1192.77 | 224 | 5.22 | 107 | 09 36.839 N | 084 57.263 W | | | | | | | |
| | | | | | | Failure of the compressor - test 2. shot interval 29s | | | | | | | | |
| | | | | | | array sep. 8420 c. inches shot distance 75 m | | | | | | | | |
| 94 | 00:20 | 1194.30 | 225 | 5.22 | 112 | 09 35.7103 N | 084 58.226 W | | | | | | | |
| 94 | 00:43 | 1195 | 225 | 5.32 | 113 | 09 34.869 N | 084 58.956 W (Point 43) | | | | | | | |
| | | | | | | (END of Test 2) | | | | | | | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|------|------|--------|---|-----|-----|-----|-----|-----|-----|
| | | | | | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 094 | 00:45 | 1195 | 23.5 | 6.8 | 142 | BEGINNING of the TURN 09 34.704 N 086 59.165 W air gun away set for test 3 3365 cubic inches shot interval 195 shot interval 50m. | | | | | | |
| 094 | 01:00 | 1196.79 | 186 | 5.02 | 135 | 09 34.187 N 085 00.046 W | | | | | | |
| 094 | 01:13 | | | | | 09 34 | | | | | | |
| 094 | 01:24 | 1198.92 | 36 | 4.82 | 147.54 | ON LINE for test 3 (Point 43) | | | | | | |
| 094 | 01:27 | 1199 | 338 | 5.62 | 139.6 | GUNS STOP 09 35.032 N 086 58.809 W | | | | | | |
| 094 | 01:30 | 11995 | 35.3 | 5.12 | 138.5 | 09 35.249 N 084 58.607 W (Air gun start again) | | | | | | |
| 094 | 01:57 | 1201.71 | 60 | 5.62 | 108.7 | above OBH | | | | | | |
| 094 | 01:58 | 1201.80 | 40 | 5.32 | 109.21 | TEST 4 - 09 37.007 N 084 57.115 W shot interval 28s 8420 cubic inches shot interval 48s shot interval (m) 125m | | | | | | |
| 094 | 02:00 | 1202 | 603 | 5.52 | 106.81 | 09 37.160 N 084 56.995 W | | | | | | |
| 094 | 02:27 | 1204.4 | 38.0 | 4.92 | 98.3 | | | | | | | |
| 0.94 | 02:28 | 1204.5 | 37.3 | 5.12 | 98.0 | 09 39.089 N (end of test 4) Point 63 | | | | | | |
| 0.94 | 02:30 | 1204.6 | 37.8 | 4.92 | 98.6 | 09 39.089 N 084.55.30 W TURN OFF. Array for test 5 5960 cubic inches shot interval 38s shot distance 100m. | | | | | | |
| 094 | 03:00 | 1207.14 | 1440 | 4.92 | 87.9 | 09 40 32 N 084.54.52 W | | | | | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|-------|------|--------|--|-----|-----|-----|-----|-----|-----|
| | | | | | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 94 | 03:20 | 1208.73 | 220 | 4.82 | 97.12 | ONLINE for test 5 Point 63 | | | | | | |
| 94 | 03:30 | 1209.45 | 2180 | 4.32 | 99.17 | Start of test 5 | | | | | | |
| | | | | | | 09 38.360 N 84 55.962 W | | | | | | |
| 94 | 03:52 | 1211.27 | 2227 | 4.52 | 105.96 | above OBH - end of test 5 | | | | | | |
| 94 | 03:55 | 1211.66 | 2168 | 4.52 | 106.66 | 09 36.719 N 084 57.369 W | | | | | | |
| | | | | | | (start of test 6) | | | | | | |
| 94 | 04:00 | 1211.92 | 214 | 5.32 | 110.00 | 3365 cubic inches $\Delta t = 38s$ shot interval 100 m | | | | | | |
| 94 | 04:24 | 1213.90 | 2123 | 5.02 | 140 | 09 36.436 N 084 57.612 W | | | | | | |
| | | | | | | End of line End of test 6 | | | | | | |
| | | | | | | keep on shooting (Point 43) | | | | | | |
| 94 | 04:30 | 1214 | 169 | 4.82 | 147.91 | TURN OFF (Keep on shooting) | | | | | | |
| | | | | | | 09 34.646 N 084 59.171 W | | | | | | |
| 94 | 04:54 | 1216.50 | 334 | 4.32 | 151.66 | 09 33.494 N 084 59.862 W | | | | | | |
| | | | | | | Start again test 2 | | | | | | |
| | | | | | | 8420 cubic inches $\Delta t = 29s$ | | | | | | |
| | | | | | | (not still on line) | | | | | | |
| 94 | 05:00 | 1216 | 46 | 4.4 | 142 | on line 09 33.915 N | | | | | | |
| | | | | | | 084 59.813 W | | | | | | |
| 94 | 05:14 | 1218 | 47 | 5.62 | 139 | 09 34.804 N 084 59.012 W | | | | | | |
| 94 | 05:30 | 1219 | 48.3 | 5.72 | 117.3 | 09 35.86 N 084.58.08 | | | | | | |
| 94 | 05:47 | 1221 | 47 | 5.62 | 107.11 | above OBH (Point 53) | | | | | | |
| 94 | 05:49 | 1221 | 45 | 4.72 | 103 | END of shooting - End of Test | | | | | | |
| | | | | | | 09 37.092 N 084 57.023 W | | | | | | |
| 94 | 06:00 | 1222 | 51.8 | 3.52 | 99.6 | 09 37.613 N 084 56.524 W | | | | | | |
| 94 | 06:30 | 1223.70 | 225.1 | 6.42 | 78.114 | 09 38.100 N 084 56.101 W | | | | | | |
| 094 | 0700 | 1225.57 | 235.0 | 1.22 | 102.34 | 09 36.941 N 084 57.297 W OBH on deck | | | | | | |
| 094 | 0730 | 1226.02 | 80.3 | 1.12 | 104.34 | 09 36.868 N 084 57.361 W | | | | | | |
| 094 | 0800 | 1226.43 | 101.8 | 0.82 | 105.84 | 09 36.953 N 084 57.175 W | | | | | | |
| 094 | 0830 | 1226.71 | 73.7 | 0.32 | 106.34 | 09 37.060 N 084 57.040 W | | | | | | |

| DATE | TIME | PIT LOG | HDG CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|------|---------|------------|------|--------|---|-----|--------|----|-----|--------|----|
| | | | | | | | SWP | DEL/LO | HI | SWP | DEL/LO | HI |
| 094 | 0900 | 1227.07 | 223.8 | 0.62 | 106.74 | 09 37.025 N 084 57.036 N | | | | | | |
| 094 | 0930 | 1227.38 | 220.8 | 0.82 | 107.04 | 09 37.013 N 084 57.090 W | | | | | | |
| 094 | 1000 | 1227.72 | 223.8 | 0.72 | 108.14 | 09 37.880 N 084 57.179 W | | | | | | |
| 094 | 1030 | 1227.95 | 226.0 | 0.32 | 111.44 | 09 36.762 N 084 57.097 W | | | | | | |
| 094 | 1100 | 1228.16 | 226.3 | 0.51 | 112.54 | 09 36.836 N 084 56.923 W | | | | | | |
| 094 | 1130 | 1228.38 | 306.8 | 0.72 | 116.94 | 09 36.747 N 084 56.809 W | | | | | | |
| 094 | 1200 | 1228.78 | 295.5 | 0.52 | 111.24 | 09 36.873 N 084 56.984 W | | | | | | |
| 094 | 1230 | 1229.08 | 291.1 | 0.32 | 115.74 | 09 36.883 N 084 57.098 W | | | | | | |
| 094 | 1300 | 1229.30 | 312.8 | 0.22 | 110.64 | 09 36.838 N 084 57.133 W | | | | | | |
| 094 | 1330 | 1229.64 | 298.7 | 0.52 | 107.54 | 09 36.980 N 084 57.209 W | | | | | | |
| 094 | 1400 | 1229.91 | 218 | 0 | 109 | 09 36.781 N 084 57.167 W | | | | | | |
| 094 | 1430 | 1230.20 | 139 | .52 | | 9 36.494 N 84 57.013 W | | | | | | |
| 094 | 1500 | 1230.52 | 356 | 0.72 | 119.8 | 9 36.343 N 84 56.904 HANGING OUT! | | | | | | |
| 094 | 1530 | 1230.9 | 18.5 | 0.82 | 118.14 | 9 36.562 N 84 56.800 | | | | | | |
| 094 | 1600 | 1231.4 | 18.5 | 1.12 | 112.74 | 9 37.008 N 84 56.680 W | | | | | | |
| | 1630 | 1232.2 | 233 | 1.8 | 110 | 9 36.098 N 84 57.093 | | | | | | |
| 094 | 1700 | 1232.9 | 225 | 1.3 | 111.94 | 9 36.267 N 84 57.732 W | | | | | | |
| 094 | 1730 | 1233.5 | 51 | 1.4 | 105.3 | 9 36.64 N 84 57.646 W | | | | | | |
| 094 | 1800 | 1234 | 51 | 1.4 | 101.5 | 9 37.042 N 84 57.323 W | | | | | | |
| 094 | 1830 | 1234.6 | 181 | .7 | 100.6 | 9° 36.9' N 84° 57.45' W, Prep. Instruments. | | | | | | |
| 094 | 1900 | 1234.86 | 67 | 0.9 | 97.7 | 9° 37.136 N 84 57.4615 | | | | | | |
| 094 | 1930 | | | | | SKY FIX HAS BEEN DOWN FOR 1/2 HOUR | | | | | | |
| 094 | 1930 | 1237.33 | 178 | 12 | 156.64 | 9 35.036 N 84 57.362 W | | | | | | |
| 094 | 2000 | 1243.11 | 180 | 11.7 | 145.3 | 9 29.370 N 84 57.365 MAKING WATER! | | | | | | |
| 094 | 2030 | 1249.05 | 181 | 11.6 | 107.8 | 9 23.39 N 84 57.471 | | | | | | |
| 094 | 2030 | | | | | SKY FIX FIXED SELF | | | | | | |
| 094 | 2100 | 1254.89 | 181 | 11.2 | 160.5 | 9 17.536 N 84 57.425 W | | | | | | |
| 094 | 2120 | | | 11.7 | | SATREX + BOAT drift FIRE + EMERGENCY Drill | | | | | | |
| 094 | 2130 | 1260.61 | 179 | 11.7 | 143.2 | 9 11.943 N 84 57.254 | | | | | | |
| 094 | 2200 | 1266.6 | 154.5 | 11.7 | 219.7 | 9° 06.32 N 84.56.81 W hour. | | | | | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|-------|------|--------|--|-----|-----|-----|-----|-----|-----|
| | | | | | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 094 | 22:30 | 1272.20 | 124 | 11.5 | 2323 | 09° 02.98 N 84.51.99 W | | | | | | |
| 094 | 23:00 | 1278 | 290.8 | 11.5 | 2282 | 08° 59.104 N 84.49.36 W | | | | | | |
| 094 | 23:30 | 1283.7 | 323.8 | 11.1 | 2376 | 09° 03.48 N 84.52.79 W | | | | | | |
| 094 | 24:00 | 1289.5 | 323.7 | 11.2 | 2181 | 9° 08.22 N 84.56.08 W | | | | | | |
| 095 | 00:30 | 1295.2 | 271.7 | 10.6 | 1805 | 9° 12.722 N 84.59.644 W | | | | | | |
| 095 | 01:00 | 1300.8 | 309.1 | 11.0 | 1810 | 9° 13.26 N 85.05.36 W | | | | | | |
| 095 | 01:30 | 1306.4 | 345.7 | 11.1 | 1862 | 9° 18.89 N 85.06.85 W | | | | | | |
| 095 | 02:00 | 1311.4 | 339.8 | 1.65 | 1353 | 9° 24.016 N 85.07.757 W | | | | | | |
| 095 | 02:30 | 1311.9 | 350.5 | 0.35 | 1161.3 | 9° 24.625 N 85.07.818 W Ship Stop | | | | | | |
| 095 | 03:00 | 1312.09 | 334.7 | 0.15 | 1100 | 9° 24.696 N 85.07.892 W | | | | | | |
| 095 | 03:30 | 1312.3 | 286.3 | 0.35 | 1102 | 9° 24.653 N 85.08.037 W | | | | | | |
| 095 | 04:00 | 1312.4 | 324.3 | 0.45 | 1081.3 | 9° 24.711 N 85.08.127 W | | | | | | |
| 095 | 04:30 | 1312.6 | 287.5 | 0.35 | 1042.3 | 9° 24.765 N 85.08.215 W | | | | | | |
| 095 | 05:00 | 1313 | 112.0 | 1.35 | 1132.3 | 9° 24.621 N 85.08.023 W | | | | | | |
| 095 | 05:30 | 1313.6 | 153.3 | 1.25 | 977.4 | 9° 24.895 N 85.07.984 W | | | | | | |
| 095 | 06:00 | 1314.2 | 165.3 | 1.65 | 1257.0 | 9° 24.446 N 85° 07.808 W | | | | | | |
| 095 | 0630 | 1314.67 | 336.1 | 6.45 | 1252.3 | 09 24.425 N 085 07.742 W | | | | | | |
| 095 | 0700 | 1314.88 | 186.3 | 0.25 | 1204.3 | 09 24.556 N 085 07.812 W OBS#27 deployed | | | | | | |
| 095 | 0730 | 1318.33 | 42.7 | 9.15 | 507.63 | 09 27.437 N 085 05.500 W | | | | | | |
| 095 | 0750 | 1320.33 | 189.0 | 0.85 | 378.53 | 09 28.663 N 085 04.280 W OBS#28 deployed | | | | | | |
| 095 | 0800 | 1320.93 | 28.3 | 8.85 | 309.93 | 09 29.161 N 085 03.984 W | | | | | | |
| 095 | 0830 | 1325.45 | 36.1 | 6.95 | 116.23 | 09 33.211 N 085 01.734 W | | | | | | |
| 095 | 0837 | 1325.83 | 87.7 | 0.45 | 116.73 | 09 33.524 N 085 01.544 W OBS#31 deployed | | | | | | |
| 095 | 0857 | 1326.48 | 130.1 | 0.85 | 129.93 | 09 33.192 N 085 01.134 W OBS#32 deployed | | | | | | |
| 095 | 0900 | 1326.50 | 130.5 | 0.55 | 131.73 | 09 33.204 N 085 01.123 W | | | | | | |
| 095 | 0914 | 1327.13 | 124.7 | 0.45 | 144.13 | 09 32.840 N 085 00.730 W OBH#33 deployed | | | | | | |
| 095 | 0930 | 1327.76 | 211.0 | 0.45 | 168.43 | 09 32.466 N 085 00.334 W OBS#34 deployed | | | | | | |
| 095 | 0946 | 1328.40 | 101.5 | 0.65 | 203.13 | 09 32.117 N 084 59.902 W OBH#35 deployed | | | | | | |
| 095 | 1000 | 1329.00 | 147.8 | 1.45 | 250.63 | 09 31.741 N 084 59.485 W OBS#36 deployed | | | | | | |
| 095 | 1030 | 1331.73 | 355.0 | 0.60 | 204.43 | 09 33.797 N 084 57.716 W OBS#46 deployed | | | | | | |

| DATE | TIME | PIT LOG | HSG CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|------------|------|--------|------------------------|------------|----------|------------|----------|------------|----------|
| | | | | | | | SWP DEL | LO HI | SWP DEL | LO HI | SWP DEL | LO HI |
| 095 | 1042 | 1332.31 | 305.0 | 1.00 | 178.13 | 09 34.186N 084 58.099W | | | | | | |
| 095 | 1053 | 1332.87 | 351.7 | 0.30 | 155.53 | 09 34.556N 084 58.519W | | | | | | |
| 095 | 1100 | 1333.39 | 359.0 | 1.20 | 140.93 | 09 34.913N 084 58.948W | | | | | | |
| 095 | 1108 | 1333.53 | 105.8 | 0.80 | 142.23 | 09 34.911N 084 58.940W | | | | | | |
| 095 | 1119 | 1334.17 | 21.0 | 0.40 | 121.03 | 09 35.238N 084 59.350W | | | | | | |
| 095 | 1130 | 1334.72 | 317 | 1.50 | 165.05 | 09 35.535N 084 59.751W | | | | | | |
| 095 | 1140 | 1334.80 | 305.7 | 0.70 | 104.63 | 09 35.538N 084 59.780W | | | | | | |
| 095 | 1200 | 1337.18 | 31.8 | 3.20 | 85.903 | 09 37.499N 084 58.118W | | | | | | |
| 095 | 1205 | 1337.37 | 33.0 | 0.20 | 27.003 | 09 37.624N 084 58.000W | | | | | | |
| 095 | 1217 | 1337.96 | 186.8 | 0.40 | 94.703 | 09 37.278N 084 57.571W | | | | | | |
| 095 | 1230 | 1338.55 | 70.3 | 0.10 | 107.83 | 09 36.902N 084 57.185W | | | | | | |
| 095 | 1237 | 1338.60 | 354.8 | 0.40 | 107.83 | 09 36.928N 084 57.152W | | | | | | |
| 095 | 1254 | 1339.42 | 271.5 | 1.50 | 119.13 | 09 36.585N 084 56.745W | | | | | | |
| 095 | 1300 | 1339.88 | 121.5 | 4.40 | 123.63 | 09 36.235N 084 56.918W | | | | | | |
| 095 | 1306 | 1340.00 | 131.0 | 0.7 | 124.73 | 09 36.230N 084 56.363W | | | | | | |
| 095 | 1315 | 1340.59 | 92.3 | 0.20 | 142.63 | 09 35.858N 084 55.914W | | | | | | |
| 095 | 1330 | 1342.52 | 365 | 9.40 | 98.313 | 09 35.364N 084 54.628W | | | | | | |
| 095 | 1341 | 1343.22 | 353.0 | 0.70 | 97.213 | 09 37.925N 084 54.179W | | | | | | |
| 095 | 1400 | 1344.10 | 56.3 | 1.20 | 93.613 | 09 38.252N 084 54.579W | | | | | | |
| 095 | 1405 | 1344.18 | 326.8 | 0.20 | 94.313 | 09 38.291N 084 54.569W | | | | | | |
| 095 | 1417 | 1344.79 | 264 | 0.10 | 95.413 | 09 38.618 084 54.976 W | | | | | | |
| 95 | 14:30 | 1345.47 | 229 | 0.6 | 97.3 | 9 39 03.2 084 55.409 | | | | | | |
| 95 | 14:34 | 1345.50 | 229 | 0.5 | 98.5 | 9 39 01.1 84 55.412 | | | | | | |
| 95 | 14:44 | 1346.16 | 284 | 0.5 | 93.5 | 9 39.350 84 55.833 | | | | | | |
| 95 | 15:00 | 1346.60 | 326 | 2.0 | 88.5 | 9 39.649 84 56.116 | | | | | | |
| 95 | 15:11 | 1346.8 | 340 | 0.4 | 87.6 | 9 39.693 84 56.247 | | | | | | |
| 95 | 15:30 | 1348.72 | 38 | 7.2 | 78.4 | 9 41.182 84 54.952 | | | | | | |
| 95 | 15:53 | 1349.86 | 74 | 0.5 | 75.05 | 9 41.745 84 54.460 | | | | | | |
| 95 | 16:00 | 1350.26 | 139 | 4.7 | 76.8 | 9 41.660 84 54.230 | | | | | | |
| | 16:18 | 1350.75 | 286 | 0.7 | 79.75 | 9 41.424 84 54.030 | | | | | | |

| DATE | TIME | PIT LOG | HIDG USE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|-------------|------|--------|---------------------------------|-----|--------|-----|--------|-----|--------|
| | | | | | | | SWP | DEL/LO | SWP | DEL/LO | SWP | DEL/LO |
| 095 | 1630 | 1351.25 | 1068 | 1.6 | 82 | 09°41.104N 84 53.682W 1/2 HOUR | | | | | | |
| 095 | 1645 | 1351.52 | 37 | .8 | 83 | 09 41.194N 84 53.632W OBS #73 | | | | | | |
| 095 | 1700 | 1352.15 | 245 | .5 | 84 | 09 40.691 84 53.224 | | | | | | |
| 095 | 1703 | 1352.20 | 260 | .3 | 84 | 9 40.707 84 53.289 OBS #74 | | | | | | |
| 095 | 1730 | 1352. | 128 | 1.5 | 83.7 | 9 40.503 84 53.000 | | | | | | |
| 095 | 1800 | 1352.92 | 109 | 0.2 | 84.1 | 9 40.352N 84 52.791 midday | | | | | | |
| 095 | 1830 | 1353.11 | 326 | 1.30 | 84.153 | 09 40.453N 084 52 814W | | | | | | |
| 095 | 1842 | 1353 | 181 | 0.60 | 85.053 | 09 40 362 084 52.803 | | | | | | |
| | | | | | | 10BH #75 out | | | | | | |
| 095 | 1856 | 1353.85 | 151.7 | 0.90 | 84.853 | 09 40 009N 084 52 378W | | | | | | |
| | | | | | | 10BH #76 out | | | | | | |
| 095 | 1900 | 1353.90 | 127.7 | 0.0 | 84.153 | 09 39 978W 084 52 361W | | | | | | |
| | 1930 | 1358.3 | 131 | 9.1 | 90.1 | 9 37.190 84 48.800 | | | | | | |
| | 2000 | 1361.83 | 127 | 0.4 | 102 | | | | | | | |
| 095 | 2001 | 1361.84 | 124 | 0.2 | 102 | 9 34, 721 84 46.157 OBS 77 OUT! | | | | | | |
| | 2030 | 1362.12 | 125 | 0.3 | 100 | 9 34.755 84 45.963 | | | | | | |
| | 2100 | 1362.44 | 116 | 0.4 | 99 | 9 34.787 84 45.650 | | | | | | |
| 095 | 2130 | 1365.74 | 253 | 8.5 | 166 | 9 33.790 84 48.729 | | | | | | |
| 095 | 2200 | 1370.26 | 260 | 9. | 299 | 9 33.057 84 53.419 | | | | | | |
| 095 | 2230 | 1374.6 | 261.1 | 8.6 | 279.8 | 9 32.575N 84° 57.777W | | | | | | |
| 095 | 2300 | 1378.9 | 254.5 | 9.1 | 143.1 | 9 31.666N 85 02.134W | | | | | | |
| 095 | 2330 | 1381.6 | 269.0 | 1.80 | 121.4 | 9 30.989N 85 04.832W | | | | | | |
| 095 | 2400 | 1381.9 | 306.8 | 0.70 | 119.8 | 9 30 961N 85 05.091W | | | | | | |
| 096 | 0030 | 1382 | 323.0 | 0.50 | 113.63 | 9 31 132N 85 05.230W | | | | | | |
| L | 00:30 | | | | | | | | | | | |
| 096 | 0100 | 1382.70 | 45.1 | 0.70 | 116.23 | 09 31.131N 085 05.077W | | | | | | |
| 096 | 0130 | 1383.19 | 31.7 | 1.70 | 118 | 09 30 994N 085 04.773W | | | | | | |
| 096 | 0200 | 1385.35 | 26.1 | 4.60 | 83.7 | 9 32.917N 85.03.623W - start | | | | | | |
| 096 | 0230 | 1387.6 | 27.1 | 4.70 | 60.4 | deploy airgun array | | | | | | |
| | | | | | | 9 34 893N 85.02.471W | | | | | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|----------------|------------------|---------|-------|-------|--------|--|-----|--------|----|-----|--------|----|
| | | | | | | | SWP | DEL/LO | HI | SWP | DEL/LO | HI |
| 096 | 02:39 | 1388.34 | 34.3 | 400 | 57.5 | 935 467 85.01.959 star shooting | | | | | | |
| | | | | | | Starting the turn 09 36.199 N | | | | | | |
| 096 | 02:52 | 1389 | 48.1 | 660 | 62.913 | to the line 239 085 01 331 W | | | | | | |
| 096 | 03:00 | 1390 | 104.8 | 4.70 | 75.613 | 09 36 267 N 085 00 655 W | | | | | | |
| | | | | | | Start of line 239 | | | | | | |
| 096 | 03:13 | 1391.04 | 126.7 | 690 | 104.63 | above OBH # 41 | | | | | | |
| | | | | | | (resynchronized true time Datum) | | | | | | |
| 096 | 03:19 | 1391.55 | 129.7 | 560 | 121.33 | above OBH # 42 | | | | | | |
| 096 | 03:25 | 1392 | 128 | 500 | 139.73 | above OBH # 43 | | | | | | |
| 096 | 03:30 | 1392.48 | 129 | 690 | 150.88 | 09 34 636 W 085 58 664 W | | | | | | |
| 096 | 03:31 | 1392.56 | 128.8 | 4.80 | 154.6 | above OBH # 44 | | | | | | |
| 096 | 03:38 | 1393.10 | 128.8 | 4.90 | 177.73 | above OBH # 45 | | | | | | |
| 096 | 03:45 | 1393.77 | 133 | 500 | 208.63 | 09 33 731 N 084 57.589 W | | | | | | |
| | | | | | | (miss OBH # 46) (somewhere | | | | | | |
| | | | | | | between 03 38 and 03 45 | | | | | | |
| | | | | | | theoretically ~ 03 44 | | | | | | |
| 096 | 03:58 | 1394.93 | 129 | 5.20 | 284.23 | 09 32 993 N 084 56 731 W | | | | | | |
| | | | | | | move to huge away - Exiting SD Box | | | | | | |
| 096 | 04:00 | 1394.9 | 129 | 15.50 | 286.1 | 09 32 949 N 084 56 681 W | | | | | | |
| 096 | 04:28 | 1397.51 | 132.8 | 530 | 397.2 | 09 31 359 N 084 54.791 W | | | | | | |
| | | | | | | STOP SHOTS. wait for land shot | | | | | | |
| 096 | 04:30 | 1397.64 | 135 | 690 | 401.63 | 09 31 284 N 084 54 693 W | | | | | | |
| | | | | | | land shot: 25 kg | | | | | | |
| 096 | 04:33 | 1397.92 | 132 | 500 | 408 | 09 31 102 N 084 54.490 W | | | | | | |
| 096 | 05:00 | | | | | SHOTS start again | | | | | | |
| 96 | 05:00 | 1400.32 | 134 | 540 | 473 | 09 29.615 N 084 52.740 W | | | | | | |
| 96 | 05:29 | 1408 | 132 | 5.50 | 537 | 09 28.020 N 084 50 864 W | | | | | | |
| | | | | | | (STOP SHOOTING WAITING for land shot 2) | | | | | | |
| 96 | 05:30 | 1403.13 | 131 | 5.20 | 536 | 09 27.940 N 084 50 770 W | | | | | | |
| 96 | 05:32 | 1403.30 | 131 | 5.20 | 539 | 09 27.846 N 084 50 654 W land shot 18 kg | | | | | | |
| | | | | | | (SHOTS START AGAIN) | | | | | | |

[illegible]

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|------|------|--------|---|-----|-----|---------------|---------------|---------------|---------------|
| | | | | | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 096 | 17:30 | 1463.46 | 221 | 5.5 | 77 | 9° 41.631 84° 54.224 | | | SHOT | * | 84 | 83 |
| 096 | 18:00 | 1466.21 | 216 | 5.4 | 88.43 | 9° 39.653 84° 55.926 | 85 | 77 | 85 | 84 | 84 | 83 |
| 096 | 18:30 | 1468.90 | 216 | 5.6 | 88.65 | 9° 37.706 84° 57.603 | 86 | 70 | | | | |
| | 18:45 | 1470.36 | 223 | 5.6 | 96.3 | DATUM 18:29 } => RESET TRUE TIME 18:45 } | | | SHOT | * | 87 | 15 |
| | 18:47 | | | | | DATUM 18:47:47 } => RESET TRUE TIME 18:17:48 } | | | | | | |
| 096 | 19:00 | 1471.64 | 215 | 5.3 | 104.73 | 9° 35.762 84° 59.284 | 87 | 62 | | | | |
| 096 | 19:13 | | | | | TRYING GUN #2 GUN #19 OFF | 88 | 02 | | | | |
| 096 | 19:16 | | | | | #2 OFF #19 ON | 88 | 11 | | | | |
| 096 | 19:30 | 1474.26 | 222 | 5.2 | 114.53 | 9° 33.85'N 85° 09.3'W | 88 | 54 | | | | |
| | 20:06 | 1476. | 218 | 5.2 | 134 | 9° 31.916 85° 02.596 | 89 | 46 | | | | |
| | 20:12 | 1477.9 | 222 | 4.8 | 151 | CHANGE GUN *7 FOR GUN *6 | 89 | 84 | | | | |
| | 20:19 | | | | | SWITCHED BACK: GUN *7(ON) GUN *6(OFF) | 90 | 09 | | | | |
| | 20:26 | 1479.13 | 222 | 5.7 | 174 | END OF LINE *2!! | 90 | 27 | | | | |
| | 20:30 | 1479.45 | 256 | 5.5 | 177 | HALF HOUR (TURNING AROUND) | 90 | 40 | | | | |
| | 20:33 | | | | | GUNS *2 AND *8 ON DURING THE TURN | 90 | 48 | | | | |
| | 20:37 | | | | | GUNS *2 AND *8 OFF | 90 | 65 | | | | |
| | 20:49 | 1481.21 | 51 | 4.6 | 115.1 | BEGIN OF LINE ²⁰² (IS NOT SHOOTING!) | 90 | 95 | | | | |
| | 20:54 | 1481.53 | 32 | 5.1 | 107 | SHOOTING RESUMED | 90 | 97 | | | | |
| | | | | | | GUNS *2 AND *8 REPLACED *4 AND *5 | | | | | | |
| | 20:59 | | | | | GUNS *4 AND *5 ARE BACK [2 AND 8 OFF] | | | | | | |
| | 21:00 | 1482.03 | 40 | 5.3 | 103 | 9° 31.802 84° 04.296 | 91 | 18 | | | | |
| | 21:30 | 1484.60 | 40.7 | 4.5 | 84.32 | 9° 33.773 85° 02.591W | 92 | 14 | | | | |
| | 22:00 | 1487.17 | 41 | 6.6 | 71.723 | 09° 35.703 N 085° 00.929 W | | | | | | |
| | | | | | | 1 second of delay between Datum and True time although resynchronization | | | | | | |
| | 22:08 | | | | | True time and Datum synchronized again | | | | | | |
| | 22:25 | | | | | | | | | | | |
| 96 | 22:30 | 1489.67 | 13.1 | 6.80 | 71.823 | 09° 37.662 N 084° 59.266 W | | | | | | |
| | 23:00 | 1492 | 41.8 | 6.60 | 79.823 | 09° 39.647 N 084° 57.534 W | | | | | | |

CRUISE 9502LDGO
MAIN LAB LOGPAGE 30

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|-------|------|---------|---|-----|--------|----|-----|--------|----|
| | | | | | | | SWP | DEL/LO | HI | SWP | DEL/LO | HI |
| 096 | 2330 | 1494 | 41.0 | 460 | 71.0 | 9241.634N 84° 55.82 W | | | | | | |
| 097 | 00:00 | 1496.68 | 40.3 | 470 | 60.723 | 09 43.570N 084 54 158W Resynchronize True Time and Datum | | | | | | |
| 097 | 00:10 | 1497.49 | 41.1 | 480 | 60.023 | 09 44.243N 084 53.580W | | | | | | |
| 097 | 00:30 | 1499.03 | 39.3 | 490 | 62.123 | End of the line 09 45.531 N n=202 084 52 467 W | | | | | | |
| 097 | 00:32 | 1499.16 | 59.5 | 490 | 62.023 | Start of turn 09 45 670N 084 52 339 W | | | | | | |
| 097 | 00:57 | 1501.33 | 226.7 | 530 | 65.123 | GUNS are stopped 09 44.500N 084 51.380 W | | | | | | |
| | | | | | | START of PROFILE 213 | | | | | | |
| 097 | 00:58 | 1501.60 | 225.5 | 510 | 65.723 | 09 44 454N 084 51.426 W | | | | | | |
| 097 | 01:00 | 1501.57 | 224.5 | 540 | 67.023 | 09 44.323 N 084 51.535 W | | | | | | |
| 097 | 01:30 | 1504.31 | 225.8 | 510 | 74.123 | 09 42.356 N 084 53 235 W | | | | | | |
| 097 | 01:44 | 1505.57 | 225 | 540 | 81.723 | above OBH #72 | | | | | | |
| | 02:00 | 1506.32 | 225 | 520 | 86.923 | 09 40.426 N 084 54.900 W | | | | | | |
| 097 | 02:11 | 1507.96 | 223 | 590 | 92.023 | above OBH #62 | | | | | | |
| 097 | 02:17 | 1508.42 | 222.7 | 560 | 94.223 | above OBH #62 | | | | | | |
| 097 | 02:30 | 1509.60 | 223.7 | 550 | 96.223 | 09 38.486 N 084 56 564 W | | | | | | |
| 097 | 02:48 | 1511.22 | 224 | 560 | 93.9 | above OBH #52 | | | | | | |
| 097 | 03:00 | 1512.29 | 222.7 | 510 | 103.723 | 09 36.525 N 084 58.258 W | | | | | | |
| 097 | 03:20 | 1514.11 | 223.3 | 530 | 124.23 | 09 35.198 N 084 59 388 W | | | | | | |
| | | | | | | miss OBH #42 (after 1 min OBH #42) | | | | | | |
| 097 | 03:30 | 1514.97 | 219.1 | 520 | 125.6 | 9° 34.546 N 84.59.978 W | | | | | | |
| 097 | 03:50 | 1516.90 | 225.7 | 520 | 129.33 | above OBH #32 | | | | | | |
| 097 | 04:00 | 1517.76 | 223.8 | 530 | 133.93 | 09 32.582 N 085 01.658 W | | | | | | |
| 097 | 04:30 | 1520.4 | 224.3 | 570 | 154.6 | 9° 30.588 N 85.03.379 W | | | | | | |
| 097 | 04:39 | 1521.04 | 226 | 5.00 | 149.03 | 09 30.033 N 085 03.854 W END of PROFILE 213. | | | | | | |
| | | | | | | initiate turn off | | | | | | |

CRUISE EW9502LDGO
MAIN LAB LOGPAGE 32

| DATE | TIME | PIT LOG | HRC | | | DEPTH | REMARKS | A | | B | | C | |
|------|-----------------|---------|-------|------|--------|-------|--|-----|-----|-----|-----|-----|-----|
| | | | CSE | SPD | | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 097 | 05:00 | 1523.07 | 34.7 | 4.60 | 119.13 | | First shot Line n° 205 | | | | | | |
| | | | | | | | 09 30 870N 085 06.567W | | | | | | |
| 097 | 05:30 | 1525.48 | 34 | 4.30 | 87 | | 09 32 850N 085 02 857W | | | | | | |
| 097 | 0600 | 1527.85 | 32.7 | 4.20 | 82.603 | | 09 34.840N 085 01.136W | | | | | | |
| | 0630 | | | | | | guns # 2, 6, 8, 17 off | | | | | | |
| 097 | 0630 | 1530.32 | 42.2 | 5.00 | 78.703 | | 09 36.811N 084 59.440W | | | | | | |
| 097 | 0700 | 1532.73 | 42.0 | 4.20 | 84.403 | | 09 38.765N 084 57.753W | | | | | | |
| 097 | 0730 | 1535.11 | 39.1 | 4.90 | 77.903 | | 09 40.670N 084 56.113W | | | | | | |
| 097 | 0800 | 1537.47 | 39.2 | 4.70 | 66.203 | | 09 42.636N 084 54.406W | | | | | | |
| 097 | 0811 | | | | | | problem - stopped shooting for few minutes | | | | | | |
| | | | | | | | bridge changed display (Δd direction of line) | | | | | | |
| 097 | 0818 | | | | | | changed direction back | | | | | | |
| 097 | 0830 | 1539.76 | 40.8 | 4.50 | 63.703 | | 09 42.571N 084 52.747W | | | | | | |
| 097 | 0840 | 1540.60 | 41.8 | 4.90 | 62.803 | | EOL 205 shot no 11319 | | | | | | |
| 097 | 0840 | | | | | | started turn to line 215, shot no 11320 on time | | | | | | |
| | | | | | | | 09 45.483N 084 51.620W | | | | | | |
| 097 | 0900 | 1542.30 | 201.8 | 5.00 | 59.603 | | 09 46.707N 084 50.923W | | | | | | |
| 097 | 0906 | | | | | | end of turn, shot no 11400 | | | | | | |
| 097 | 0907 | 1542.95 | 219.3 | 5.00 | 63.703 | | SOL 215 shot no 11402 | | | | | | |
| | | | | | | | 09 44.277N 084 51.227W | | | | | | |
| 097 | 0930 | 1545.03 | 218.8 | 5.40 | 75.203 | | 09 42.718N 084 52.511W | | | | | | |
| 097 | 1000 | 1547.72 | 220.1 | 5.20 | 84.303 | | 09 40.753N 084 54.263W | | | | | | |
| 097 | 1030 | 1550.46 | 216.2 | 5.60 | 97.203 | | 09 38.796N 084 55.945W | | | | | | |
| 097 | 1100 | 1553.12 | 213.1 | 5.50 | 99.313 | | 09 36.906N 084 57.576W | | | | | | |
| 097 | 11:30 | 1556.14 | 220.1 | 5.50 | 133.53 | | 09 34.834N 084 59.838W | | | | | | |
| 097 | 1200 | 1558.98 | 218.1 | 5.90 | 139.53 | | 09 32.888N 085 01.051W | | | | | | |
| 097 | 1230 | 1561.81 | 220.2 | 5.30 | 160.00 | | 09 30.871N 085 02.776W | | | | | | |
| 097 | 1246 | 1563.35 | 220.0 | 5.40 | 232.83 | | EOL 215, shot no 12102, started turn to line 207 | | | | | | |
| | | | | | | | 09 29.842N 085 03.660W | | | | | | |
| 097 | 1300 | 1564.67 | 359.7 | 5.80 | 145.13 | | 09 30.124N 085 04.572W | | | | | | |

PAGE 34

PAGE 35

| DATE | TIME | PIT LOG | HDS | | | REMARKS | A | | B | | C | | | | | | |
|------|------------------|---------|------|------|-----------------|-----------------------------------|---------------|--------------|----|----|-----|-----|----|----|-----|-----|----|
| | | | CSE | SPD | DEPTH | | SWP | DEL | LO | HI | SWP | DEL | LO | HI | SWP | DEL | LO |
| 098 | 02:30 | 1634.6 | 17.0 | 5.3 | 1213.3 | 09 16.418 N | 085.12.249 W | | | | | | | | | | |
| 098 | 02:33 | 1634.97 | 16.3 | 5.10 | 1243 | (END of the TURN) LINE 217 (Ext) | | | | | | | | | | | |
| | | | / | | | Pog 19 659 3 | 085 12 0931 | | | | | | | | | | |
| 098 | 02:45 | 1636.1 | 44.5 | 5.10 | 1335.0 | 09 20.647N | 081.11.18 W | | | | | | | | | | |
| | | | | | | on Line 217 - SW-NE | | | | | | | | | | | |
| 098 | 03:00 | 1637.2 | 46.5 | 4.9 | 1420 | 09 21.427W | 085 10.510 W | | | | | | | | | | |
| 098 | 03:30 | 1639.7 | 48.3 | 5.0 | 1415.3 | 09.23.381 N | 85 .08 825W | | | | | | | | | | |
| 098 | 03:48 | 1641.29 | 46.8 | 5.00 | 1193.3 | above OBH # 27 | | | | | | | | | | | |
| 098 | 03:00 | | | | 1642 | Resynchronize True time datum | | | | | | | | | | | |
| 098 | 03:57 | 1642.16 | | | 1642 | Resynchronize True time datum | | | | | | | | | | | |
| 098 | 04:00 | 1642.28 | 45 | 5.10 | 814.63 | 09 25 305 N | 085 07.173 W | | | | | | | | | | |
| 098 | 04:22 | | | | | Resynchronize true time datum | | | | | | | | | | | |
| 098 | 04:30 | 1644.8 | 45.3 | 5.2 | 510.1 | 9 27.310 N | 85 05 450 W | | | | | | | | | | |
| 098 | 04:51 | 1646.66 | 42.7 | 4.70 | 377.13 | above OBH #28 (~ 09 28.663 N | 085 04.280W) | | | | | | | | | | |
| 098 | 04:53 | 1646.87 | 26.7 | 4.60 | 355 | 09 28.841 N | 085 04 1146W | | | | | | | | | | |
| | | | | | | (Last shot Line 217 (Ext)) | | | | | | | | | | | |
| | | | | | | start turn off. | | | | | | | | | | | |
| 098 | 05:14 | | | | | → 9 30 550 | 85 04 097 | | | | | | | | | | |
| | | | | | | start Line 209 SW-NE SOL 209 | | | | | | | | | | | |
| 098 | 05:30 | 1649.8 | 39.5 | 5.3 | 131.2 | 9 31 496 N | 85 03 298 W | | | | | | | | | | |
| 098 | 0600 | 1652.3 | 40.5 | 5.3 | 121.2 | 933 402 N | 85 01 648 W | | | | | | | | | | |
| 098 | 06:02 | 1652.5 | 37.8 | 5.6 | 115.5 | Above OBS #31 | | | | | | | | | | | |
| 098 | 06:30 | 1655.17 | 46.1 | 5.3 | 97.713 | 9 35.451 N | 084 57.886 W | | | | | | | | | | |
| 098 | 06:33 | 1655.43 | 45.7 | 5.60 | 103.20 | 9 35.601 N | 085 01 037 W | above OBH 41 | | | | | | | | | |
| 098 | 0700 | 1657.80 | 40.7 | 5.10 | 23.143 | 09 37.359 N | 084 58.246 W | | | | | | | | | | |
| 098 | ~0708 | 1658.61 | 44.7 | 5.30 | 85.543 | 09 37.882 N | 084.57.793W | over OBS #51 | | | | | | | | | |
| 098 | 0730 | 1660.48 | 45.5 | 5.30 | 88.543 | 09 39.306 N | 084 56.572 W | | | | | | | | | | |
| 098 | 0741 | 1661.55 | 45.7 | 4.90 | 85.743 | 09 40.043 N | 084 55.935 W | over OBS #61 | | | | | | | | | |
| 098 | 0800 | 1663.00 | 46.1 | 4.50 | 77.543 | 09 41.272 N | 084 581.850 W | | | | | | | | | | |

| DATE | TIME | PIT LOG | HDS CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|------|---------|------------|------|--------|---------------------------------------|-----|-----|-----|-----|--------------|-----|
| | | | | | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 098 | 0808 | 1663.76 | 43.3 | 4.70 | 74.743 | 09 41.815 N 084 54.412 W over OBS #71 | | | | | | |
| 098 | 0830 | 1665.41 | 45.7 | 4.70 | 68.143 | 09 43.283 N 084.53.136 W | | | | | | |
| 098 | 0855 | 1667.46 | 49.7 | 4.50 | 64.743 | EOL 209 shot no 15908 | | | | | | |
| | | | | | | 09 44.928 N 084 51.729 W | | | | | | |
| 098 | 0900 | 1667.78 | 49.5 | 5.20 | 62.142 | 09 45.071 N 084 51.316 W | | | | | | |
| 098 | 0917 | | | | | end of turn, shot no 15974 | | | | | | |
| 098 | 0917 | 1669.32 | 205.0 | 5.00 | 62.143 | SOL 219, shot no 15975 | | | | | | |
| | | | | | | 09 43.901 N 084 50.843 W | | | | | | |
| 098 | 0930 | 1670.39 | 216.1 | 4.90 | 69.343 | 09 43.042 N 084 51.590 W | | | | | | |
| 098 | 1000 | 1672.91 | 213.7 | 5.60 | 81.443 | 09 41.113 N 084 53.231 W | | | | | | |
| 098 | 1018 | 1674.61 | 212.3 | 5.30 | 90.043 | reset true time / datum | | | | | | |
| 098 | 1030 | 1675.59 | 214.3 | 5.20 | 95.943 | 09 39.134 N 084 54.936 W | | | | | | |
| 098 | 1100 | 1678.26 | 213.7 | 5.30 | 110.03 | 09 37.173 N 084 56.629 W | | | | | | |
| 098 | 1130 | 1680.77 | 215.0 | 5.20 | 144.35 | 09 35.231 N 084 58.339 W | | | | | | |
| 098 | 1200 | 1683.45 | 218.7 | 5.00 | 156.13 | 09 33.265 N 084 59.995 W | | | | | | |
| 098 | 1230 | 1686.12 | 220.3 | 5.30 | 177.63 | 09 31.260 N 085 01.720 W | | | | | | |
| 098 | 1257 | 1688.40 | 213.3 | 5.20 | 301.43 | EOL 219, shot no 16670 | | | | | | |
| | | | | | | 09 29.483 N 085 03.250 W | | | | | | |
| 098 | 1300 | 1688.71 | 197.7 | 6.30 | 326.3 | 09 29.184 N 085 03.399 W | | | | | | |
| 098 | 1328 | 1691.38 | 50.1 | 5.60 | 369.43 | SOL 229, shot no 16766 | | | | | | |
| | | | | | | 09 28.726 N 085 02.096 W | | | | | | |
| 098 | 1330 | 1691.53 | 42.0 | 5.30 | 362.03 | 09 28.875 N 085 01.957 W | | | | | | |
| | | | | | | ASHTEC/MAG. ON PANAMA; CARMEN DROPPED | | | | | | |
| | | | | | | OUT IN MIDDLE OF TURN. BACK AND FOR | | | | | | |
| | | | | | | LEFT ON PANAMA FOR NOVA. | | | | | | |
| 098 | 1400 | 1694.20 | 51.7 | 5.6 | 279.5 | 9 30.890 85 00.221 W | | | | | SHOT # 16869 | |
| 098 | 1430 | 1696.81 | 46.5 | 5.3 | 225.33 | 9 32.865 84 58.520 W | | | | | 16966 | |
| 098 | 1500 | 1699.27 | 44.1 | 4.7 | | 9 34.796 84 56.864 W | | | | | 17060 | |
| 098 | 1526 | | | | | Removed GUN #4 FROM SERVICE | | | | | 17142 | |
| 098 | 1530 | 1701.75 | 45 | 5.1 | 117.63 | 9 36.742 84 55.177 W | | | | | 17155 | |

CRUISE 9502LDGO
MAIN LAB LOGPAGE 37

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|-----------------|-----------------|--------------------|---------------|----------------|-------------------|--|------|-----------|-----|-----------|-----|-----------|
| | | | | | | | SWP | DEL/LO HI | SWP | DEL/LO HI | SWP | DEL/LO HI |
| 0931 | | | | | | | | | | | | |
| 098 | 0931 | 1701.92 | 44 | 4.8 | 114.83 | Reset Clock | | | | | | |
| 098 | 1533 | 1702.04 | | | | Reset Clock | | | | | | |
| 098 | | | | | | DATUM 15:46:59.26 | | | | | | |
| | | | | | | True Time 15:52:22 | | | | | | |
| 098 | 1553 | | | | | Reset Clock "AGAIN" | | | | | | |
| | | | | | | DATUM 15:53:56.5 TT 15:53:56.5 | | | | | | |
| 098 | 1600 | 1704.29 | 40 | 9.3 | 95.6 | 9 38.700 84 53.504 W | Shot | | | 17251 | | |
| | 1621 | 1706.13 | | | | PASSING OVER OBS #76 | | | | 17315 | | |
| | 1622 | 1706.20 | 41 | 5.2 | 84 | GUN #1 IS BACK | | | | 17317 | | |
| | 1630 | 1706.85 | 44 | 4.9 | 80.9 | 90 40.630 84 51.836 | | | | 17344 | | |
| | 1700 | 1709.46 | 41 | 5.0 | 67 | 90 42.599 84 50.146 | | | | 17439 | | |
| | 1709 | 1710 | 37 | 5.1 | 60 | 90 43.158 84 49.663 END OF LINE 229 | | | | 17466 | | |
| | 1710 | | | | | GUN #19 OFF #8 ON (TURNING) | | | | 17471 | | |
| | 1729 | | | | | BEGIN OF LINE #221 SOL 221 | | | | 17531 | | |
| 098 | 1730 | 1712.10 | 202 | 5.1 | 62 | 90 43.661 84 50.658 | | | | 17532 | | |
| 098 | 1800 | 1714.61 | 216 | 5 | 78 | 90 41.766 84 52.315 | | | | 17635 | | |
| 098 | 1812 | | | | 80 | DROPPED XBT near OBS #74 | | | | | | |
| 098 | 1830 | 1717.15 | 214 | 5.1 | 90.8 | 9 34.822 84 53.987 | | | | 17720 | | |
| | 18:35 | 1717.60 | 214 | 5.2 | 9.5 | DATUM 18:05:18.640 } RESET | | | | 17738 | | |
| | | | | | | True Time 18:35:32.051 } | | | | | | |
| 098 | 1900 | 1719.81 | 225 | 5.3 | 101 | 9 37.802 84 55.728 | | | | 17817 | | |
| | 19:30 | 1722.35 | 216 | 4.8 | 125 | 9 35.852 84 57.406 | | | | 17912 | | |
| | 19:34 | | | | | GUN #18 BACK OUT | | | | 17925 | | |
| | 19:44 | 1723.56 | 215 | 5.0 | 149 | GUN #18 IS BACK | | | | 17957 | | |
| | 19:51 | 1724.11 | | | 156 | PASSING OVER OBS #44 90 34.524 84 58.544 | | | | 17978 | | |
| | 20:00 | 1724.82 | 212 | 4.7 | 162 | 90 33.934 84 59.055 | | | | 18006 | | |
| | 20:13 | | | | | DATUM 19:56:01.394 } RESET | | | | 18050 | | |
| | | | | | | True Time 20:13:45.033 } | | | | | | |
| | 20:26 | 1727.08 | 214 | 5.2 | 170 | DROPPED XBT NEAR OBS #34 | | | | 18090 | | |
| | 20:22 | 1726.27 | 215 | 5.1 | 168 | PASSING OVER OBS #34 90 32.325 85 00.442 | | | | 18077 | | |

| DATE | TIME | PIT LOG | HDE | | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|-------|------|-------|--|-----|-----|-----|-----|-----|-----|
| | | | SE | SPD | | | SWP | DEL | SWP | DEL | SWP | DEL |
| | 20:30 | 1727.48 | 216 | 5.1 | 174 | 90 31.720 8500.790 | | | 18 | 103 | | |
| | 21:00 | 1730.11 | 217 | 5.0 | 262 | 90 29.941 8502.495 | | | 18 | 199 | | |
| | 21:09 | 1730.95 | 217 | 5.3 | 318 | 90 29.283 8503.070 EOL * 221 | | | 18 | 229 | | |
| | 21:24 | | | | | Stop switch to change executables | | | | | | |
| | 21:28 | | | | | Restart " | | | | | | |
| 98 | 21:30 | 1732.82 | 675 | 5.4 | 395 | TURNING | | | 18 | 287 | | |
| | 21:33 | 1733.14 | 300 | 5.3 | 376 | BOC * 231 | | | 18 | 295 | | |
| 98 | 22:00 | 1735.4 | 43.0 | 5.0 | 315 | 90 30.322 N 8500.355 W | | | 18 | 380 | | |
| | 22:30 | 1737.9 | 44 | 5.3 | 266 | 90 32.299 8458.649 | | | 18 | 479 | | |
| | 23:00 | 1740.5 | 46 | 5.0 | 199.7 | 90 34.261 8456.960 | | | 18 | 575 | | |
| | 23:30 | 1743.0 | 47.7 | 4.9 | 130.5 | 90 36.227 8455.267 | | | 18 | 669 | | |
| | 23:59 | 1745.46 | 50 | 4.90 | 94.2 | OFF LINE (Fishing boat ?) | | | | | | |
| | | | | | | 09 38 143 N 084 53 649 W | | | 18 | | | |
| 99 | 00:00 | 1745.59 | 51.1 | 5.00 | 95.3 | 09 38.191 N 084 53 598 W | | | 18 | 765 | | |
| 99 | 00:02 | 1745.65 | 46.3 | 4.90 | 94.5 | 09 38 292 N 084 53 496 W ON LINE AGAIN | | | 18 | 770 | | |
| 99 | 00:22 | 1747 | 45.3 | 4.80 | 84 | 09 39 973 N 084 52 046 W | | | | | | |
| | | | | | | Resynchronize true time datum. | | | | | | |
| 99 | 00:30 | 1747 99 | 46.7 | 4.80 | 84.1 | 09 40.128 N 084 51.907 W | | | 18 | 861 | | |
| 99 | 01:00 | 1750.4 | 41.8 | 5.0 | 66.7 | 90 42.116 N 84.50.196 W | | | 18 | 955 | | |
| 99 | 01:13 | 1751.56 | 41.1 | 4.80 | 62.5 | 09 42.971 N 084 49.465 W | | | | | | |
| | | | | | | last shot end of the box Line 231 | | | 18 | 997 | | |
| | | | | | | initiate TURN OFF-end of line 231 | | | | | | |
| 99 | 01:17 | 1751.91 | 40 | 5.10 | 60. | 09 43 301 N 084 49 331 W | | | 19 | 004 | | |
| 99 | 01:30 | 1753.10 | 233 | 5.70 | 62.6 | 09 43.809 N 084 50 143 W | | | 19 | 046 | | |
| 99 | 01:33 | 1753.47 | 218 | 5.50 | 62.83 | 09 43 57.9 N 084 50.392 W | | | 19 | 052 | | |
| | | | | | | into the box - Line 223 | | | 19 | 138 | | |
| 99 | 02:00 | 1755.8 | 219 | 5.2 | 76.9 | 9 41 845 N 84: 51.880 W | | | | | | |
| 99 | 02:30 | 1758.4 | 218.8 | 5.4 | 89.8 | 9 39 885 N 84: 53.573 W | | | 19 | 432 | | |
| 99 | 03:00 | 1760.9 | 219 | 5.0 | 101.1 | 90 37.948 N 84: 55.241 W | | | 19 | 320 | | |
| 99 | 03:30 | 1763.6 | 222.7 | 5.0 | 126.8 | 90 35.968 N 84: 56.942 W | | | | | | |

LDGO
MAIN LAB LOG

CRUISE 9502
HDS

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[illegible]

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | | B | | | C | | | | | |
|----------------|-----------------|---------|-------|------|--------|---|-----|-----|----|-----|-----|-----|----|----|-----|-----|----|----|
| | | | | | | | SWP | DEL | LO | HI | SWP | DEL | LO | HI | SWP | DEL | LO | HI |
| 099 | 1030 | 1797.40 | 220.5 | 5.00 | 86.7 | 1801.85 0940.120 N 084 53.024 W Miss OBS #75 1801.85 | | | | | | | | | | | | |
| 099 | 1100 | 1801.85 | 213.8 | 5.40 | 92.9 | 0938.324 N 084 54.592 W | | | | | | | | | | | | |
| 099 | 1101 | 1801.88 | 214.1 | 5.50 | 92.4 | 0938.226 N 084 54.671 W over OBS #65 | | | | | | | | | | | | |
| 099 | 1111 | 1803.02 | 217.7 | 5.80 | 95.7 | 0937.516 N 084 55.263 W | | | | | | | | | | | | |
| | | | | | | going around a fishing boat (~12 m off the line) | | | | | | | | | | | | |
| 099 | 1121 | | | | | gun #11 not firing, ~40 m off the line | | | | | | | | | | | | |
| 099 | | | | | | 0936.818 N 084 55.882 W | | | | | | | | | | | | |
| 099 | 1124 | | | | | gun #11 back on, back on the line | | | | | | | | | | | | |
| 099 | 1130 | 1804.66 | 221.0 | 5.30 | 123.13 | 0936.232 N 084 56.358 W, over OBS #55 | | | | | | | | | | | | |
| 099 | 1200 | 1807.31 | 218.3 | 5.80 | 176.53 | 0934.273 N 084 58.048 W | | | | | | | | | | | | |
| 099 | 1203 | | | | | 0934.081 N 084 58.210 W over OBS #45 | | | | | | | | | | | | |
| 099 | 1209 | | | | | fishing lines tangled in guns, #20 out of water, #18 + 19 coming out soon | | | | | | | | | | | | |
| | | | | | | 0933.664 N 084 58.578 W | | | | | | | | | | | | |
| 099 | 1230 | 1809.97 | 224.0 | 5.20 | 199.33 | 0932.277 N 084 59.785 W | | | | | | | | | | | | |
| | | | | | | all guns back in water | | | | | | | | | | | | |
| 099 | 1234 | | | | | 0932.029 N 084 59.975 W over OBS #35 | | | | | | | | | | | | |
| 099 | 1300 | 1812.51 | 222.1 | 5.10 | 261.33 | 0930.359 N 085 01.426 W | | | | | | | | | | | | |
| 099 | 1321 | 1814.43 | 211.3 | 5.40 | 359.73 | EOL 225, shot no 21280 | | | | | | | | | | | | |
| | | | | | | 0928.917 N 085 02.659 W | | | | | | | | | | | | |
| 099 | 1330 | 1815.26 | 140.8 | 5.90 | 413.53 | 0928.084 N 085 02.632 W | | | | | | | | | | | | |
| 099 | 1346 | 1816.75 | 45.7 | 5.30 | 380.33 | SOL 235, shot no 21359 | | | | | | | | | | | | |
| | | | | | | 0928.193 N 085 01.472 W | | | | | | | | | | | | |
| 099 | 1400 | 1817.95 | 41.5 | 4.70 | 350.53 | 0929.121 N 085 00.666 W | | | | | | | | | | | | |
| | 14:23 | 1819.46 | 39 | 5.0 | 322 | SHOTS SYSTEM RESETED | | | 21 | 470 | | | | | | | | |
| | 14:30 | 1820.56 | 39.7 | 5.1 | 313 | 9° 31.080 84 58.979 | | | 21 | 492 | | | | | | | | |
| | 14:37 | | | | | DATUM 14:26:53.401 } RESET | | | 21 | 517 | | | | | | | | |
| | | | | | | TRUE TIME 14:37:48.452 } | | | | | | | | | | | | |
| | 15:00 | 1823.15 | 40.3 | 5.2 | 270 | 9° 33.058 84 57.270 | | | 21 | 587 | | | | | | | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | | B | | | C | | |
|------|-------|---------|------|-----|-------|---|-----|-----|---------------|---------------|--------------|----|-----|-----|--------|
| | | | | | | | SWP | DEL | LO | SWP | DEL | LO | SWP | DEL | LO |
| 099 | 15:30 | 1825.75 | 37.5 | 4.9 | 165.6 | 9° 35.040 84° 55.575 | | | 21 | 68 | 3 | | | | |
| | 15:42 | 1826.76 | | | 138 | Off line to avoid fishing boat | | | 21 | 72 | 0 | | | | |
| | 15:46 | | | | | Pulling GUNS OUT (tangled on fishing gear) | | | 21 | 73 | 3 | | | | |
| | 15:48 | | | | | heading back on line [GOT A 1m ^{long} FISH!] | | | | | | | | | |
| | 15:51 | | | | | NOW IS BACK ON LINE | | | 21 | 74 | 8 | | | | |
| | 16:00 | 1828.6 | 40.1 | 5.3 | 103 | 9° 37.000 84° 53.885 | | | 21 | 78 | 0 | | | | File # |
| | 16:12 | 1829.3 | | | 93 | Avoiding traffic again | | | 21 | 81 | 3 | | | | |
| 099 | 16:30 | 1830.91 | 38.5 | 5.2 | 90.1 | 9° 38.932'N 84° 52.216'W | | | 21 | 87 | 1 | | | | 1522 |
| | 16:33 | | | | | Moving off line to avoid fishing equip. | | | 21 | 88 | 1 | | | | 1532 |
| 099 | 16:47 | | | | | 9° 39.951'N 84° 51.311'W crossed back to line 335 | | | 21 | 92 | 1 | | | | 1572 |
| | 17:00 | 1833.6 | 36.5 | 5.3 | 73 | 9° 40.989 84° 50.622 | | | 21 | 96 | 3 | | | | |
| | 17:29 | 1836.16 | 33.5 | 5.6 | 62 | 9° 42.616 84° 49.045 EOL *235 | | | 22 | 05 | 2 | | | | 1703 |
| | 17:30 | 1836.24 | 24 | 5.6 | 62 | 9° 42.722 84° 48.980 | | | 22 | 05 | 7 | | | | |
| | 17:47 | 1837.97 | 227 | 4.9 | 65 | 9° 43.212 84° 49.978 BOL *227 | | | 22 | 11 | 5 | | | | 1766 |
| 099 | 18:00 | 1838.84 | 222 | 5.0 | 67 | 9° 42.469 84° 50.625 | | | 22 | 15 | 0 | | | | 1801 |
| 099 | 18:30 | 1841.37 | 219 | 4.8 | 82 | 9° 40.513 84° 52.307 | | | 22 | 24 | 6 | | | | 1897 |
| 099 | 18:35 | | | | | Clock unsynced DATUM: 18:17:50 | | | | | | | | | |
| | | | | | | GPS 18:35:50 | | | | | | | | | |
| | 18:36 | | | | | Clock Resynced 18:36:54 | | | | | | | | | |
| | 18:53 | 1843.35 | 221 | 5.2 | 94.1 | 18:47:54 } RESETED | | | | | | | | | |
| | | | | | | 18:53:25 } | | | | | | | | | |
| | 18:56 | | | | | Restart SEISMIC - missed a few shots | | | | | | | | | |
| | 19:00 | 1843.88 | 219 | 5.4 | 94.6 | 9° 38.591 84° 53.961 | | | 22 | 33 | 6 | | | | |
| | 19:30 | 1846.33 | 221 | 5.0 | 118 | 9° 36.591 84° 55.684 | | | 22 | 43 | 2 | | | | |
| | 19:37 | | | | | 19:30:58.873 DATUM } RESET | | | | | | | | | |
| | | | | | | 19:37:48.589 TRUE TIME } | | | 22 | 45 | 8 | | | | |
| | 20:00 | 1848.81 | 218 | 5.0 | 177 | 9 | | | 22 | 52 | 9 | | | | 2180 |
| | 20:03 | | | | | 9° 34.359 84° 57.606 | | | 22 | 68 | 4 | | | | |
| 099 | 20:30 | 1851.14 | 221 | 5.0 | 211 | 9° 32.626 84° 59.092 | | | 22 | 62 | 4 | | | | 2275 |
| | 20:49 | | | | | 20:47:08.620 } | | | 22 | 68 | 5 | | | | 2336 |

20:49:02.192 } RESETED!

HOE.

LDGO
MAIN LAB LOG

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| DATE | TIME | PIT LOG | HDC | | | REMARKS | A | | B | | C | |
|----------------|------------------|---------|------|-----|-------------------------|----------------------------------|---------------|---------------|---------------|------|---|--|
| | | | CSE | SPD | DEPTH | | SWP DEL LO HI | SWP DEL LO HI | SWP DEL LO HI | | | |
| 099 | 21:00 | | | | | | | | | | | |
| 099 | 21:00 | 1853.8 | 216 | 5.1 | 267 | 9° 30.708 85° 00.746 | 22 | 717 | | 2369 | | |
| 099 | 21:29 | 1856.35 | | | | 9° 28.784 85° 02.405 EOL * 227 | 22 | 811 | | 2463 | | |
| 099 | 21:30 | 1856.45 | 217 | 4.8 | 368 | 9° 28.751 85° 02.435 | | | | | | |
| 099 | 21:43 | | | | | 21:28:12.422 ? RESET | 22 | 855 | | | | |
| 099 | | | | | | 21:42:49.498 } | | | | | | |
| 099 | 21:44 | | | | | STOPPED. | | | | | | |
| 099 | 21:55 | 1858.73 | 38 | 5.4 | 386 | 9° 28.008 85° 01.261 BOL * | 22 | 833 | | 2540 | | |
| 099 | 22:00 | 1859.17 | 41 | 5.7 | 361 | 9° 28.337 85° 00.985 237 | 22 | 704 | | 2556 | | |
| 099 | 22:30 | 1861.89 | 62.1 | 5.8 | 328 328.7 | 09 30 322 N 084 59.275 W | | | | | | |
| 099 | 22:46 | 1863 | 41.5 | 5.5 | 318 | Resynchronize true time - datum | | | | | | |
| | | | | | 297.1 | 09 31.622 N 084 58.397 W | | | | | | |
| 099 | 23:00 | 1864.55 | 43.1 | 5.5 | 297.1 | 09 32.287 N 084 57.579 W | 23 | 095 | | 2767 | | |
| | 23:08 | 1865 | 42.3 | 5.4 | 278 | Resynchronize true time - datum | | | | | | |
| | 23:16 | 1866 | 40.8 | 6.0 | 266 | " " " " | | | | | | |
| 099 | 23:30 | 1867.2 | 43.8 | 5.3 | 205.2 | 9° 34.287 N 84.55 85.5 W | | | | | | |
| 100 | 00:00 | 1869.89 | 42.8 | 5.1 | 125.5 | 09 36.234 N 084 54.189 W | 23 | 281 | | 2934 | | |
| 100 | 00:02 | 1870.15 | | | | Resynchronize true time - datum | | | | | | |
| | | | | | | 09 36.447 N 084 54.060 W (2DGPS) | | | | | | |
| | | | | | | <u>Pb with augum m = 4?</u> | | | | | | |
| 100 | 00:30 | 1872.4 | 43.0 | 4.9 | 88.4 | 9 38.234 N 84 52.459 W | | | | | | |
| 100 | 01:00 | 1874.9 | 45.0 | 4.9 | 78 | 9 40.185 N 84 50.778 W | | | | | | |
| | 01:04 | 1875.0 | | | | Resynchronize true time - datum | | | | | | |
| | 01:06 | 1875.4 | | | | " " " " | | | | | | |
| 100 | 01:10 | 1875.80 | 41.5 | 4.9 | 71.40 | 09 40.841 N 084 50.213 W | 23 | 504 | | 3155 | | |
| | | | | | | Back to standard augum away | | | | | | |
| 100 | 01:26 | | | | | stop shooting 09 41.934 N | 23 | 550 | | 3201 | | |
| | | | | | | 084 49.875 W | | | | | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|-------------|-------|------|-------|-----------------------------------|---------------|----------------|-----|-----------------|-----|-----|
| | | | | | | | SHP | DEL | SHP | DEL | SHP | DEL |
| 100 | 01:27 | | | | | start again shoochip | 23 | 552 | | 3203 | | |
| 100 | 01:30 | 1877.57 | 44.7 | 5.3 | 65.7 | 09 42.1483N 084 49.0924 W | | | | | | |
| 100 | 01:36 | 1877.99 | 43.3 | 6.3 | 62.60 | 09 42 44.0N 084 48.825W | 23 | 574 | | 3225 | | |
| | | | | | | out of the 3D Box End of line 237 | | | | | | |
| | | | | | | enchole turn off | 23 | 545 | | 3225 | | |
| 100 | 01:58 | 1880.149178 | 53 | 65.2 | | 09 43.053 N 084 49.942 W | 23 | 644 | | 3295 | | |
| | | | | | | start of the line 228 - 3D Box | | | | | | |
| 100 | 02:00 | 1880.8 | 219 | 5.2 | 64.90 | 09 42.961 N 084 50.020 W | | | | | | |
| 100 | 02:30 | 1882.8 | 218 | 4.6 | 78.7 | 9 40.955 N 84 51.749 W | | | | | | |
| | 02:31 | 1882.9 | | | | Resynchronize true time. Datum | | | | | | |
| | 02:37 | 1883.3 | | | | " " " | | | | | | |
| | 02:45 | 1884 | | | | " " " | | | | | | |
| 100 | 03:00 | 1885.1 | 215.5 | 4.4 | 94.3 | 9° 39.029 N 84.53.415 W | 23 | 841 | | | | |
| 100 | 03:30 | 1887.7 | 216.5 | 4.9 | 107.8 | 9° 37.053 N 84.55.112 W | 23 | 937 | | | | |
| 100 | 04:00 | 1890.3 | 216 | 5.3 | 158.1 | 9° 35.113 N 84.56.786 W | 24 | 024 | | | | |
| 100 | 04:30 | 1892.9 | 218 | 5.3 | 212.4 | 9° 33.160 N 84.58.463 W | 24 | 118 | | | | |
| 100 | 05:00 | 1895.5 | 214.1 | 5.3 | 250.1 | 9° 31.177 N 85.00.109 W | | | | | | |
| 100 | 05:11 | 1896.6 | 214.7 | 5.1 | 294 | 09 30.467 N 085 00.783 W | 24 | 267 | | 3893 | | |
| | | | | | | ↑ replace Airgun 7' by Airgun 17' | | | | | | |
| 100 | 05:30 | 1898 | 215.8 | 5.1 | 341.1 | 9.29.233 N 85.01.847 W | 24 | 310 | | | | |
| 100 | 05:38 | 1898.84 | 215.7 | 5.7 | 376.9 | 09 28.665 N 085 02.327 W | 24 | 336 | | 3982 | | |
| | | | | | | out of the box - End of line 228. | | | | | | |
| 100 | 05:58 | 1900.68 | 44.0 | 4.9 | 383.1 | SOL 236, shot no 24399 | | | | | | |
| | | | | | | 09 28.132 N 085 01.343 W | | | | | | |
| 100 | 06:00 | 1900.74 | 41.5 | 5.0 | 377.1 | 09 28.220 N 085 01.274 W | | | | | | |
| 100 | 06:30 | 1903.06 | 44.1 | 4.8 | 329.4 | 09 30.174 N 084 59.563 W | | | | | | |
| 100 | 07:00 | 1905.45 | 44.0 | 4.7 | 299.2 | 09 32.085 N 084 57.932 W | | | | | | |
| 100 | 07:30 | 1907.94 | 47.5 | 5.0 | 223.0 | 09 33.993 N 084 56.291 W | | | | | | |
| 100 | 08:00 | 1910.63 | 47.5 | 5.4 | 132.7 | 09 35.990 N 084 54.566 N | | | | | | |

| DATE | TIME | PIT LOG | 1866 | | DEPTH | REMARKS | A | | B | | C | | | | | |
|------|------|---------|-------|-----|-------|---|-----|-----|----|----|-----|-----|----|----|-----|-----|
| | | | CSE | SPD | | | SWP | DEL | LO | HI | SWP | DEL | LO | HI | SWP | DEL |
| 100 | 0830 | 1913.20 | 44.1 | 4.9 | 90.10 | 0937.708N 084 52.917 W | | | | | | | | | | |
| 100 | 0854 | 1915.33 | 46.0 | 5.3 | 82.60 | gun #11 not firing | | | | | | | | | | |
| 100 | 0900 | 1915.74 | 45.1 | 5.1 | 80.30 | 09 39.816 N 084 51.272 W | | | | | | | | | | |
| 100 | 0911 | 1916.77 | 44.7 | 5.2 | 74.10 | log caught in guns #5 + 6, pulling guns | | | | | | | | | | |
| | | | | | | 09 40.587 N 084 50.611 W | | | | | | | | | | |
| | | | | | | guns #5, 6, 11, 13, 17, 19 off | | | | | | | | | | |
| 100 | 0928 | | | | | gun #6 back on | | | | | | | | | | |
| 100 | 0930 | 1918.39 | 44.5 | 5.1 | 64.60 | 09 41.808 N 084 49.559 W | | | | | | | | | | |
| 100 | 0941 | 1919.43 | 43.5 | 5.7 | 60.10 | EOL 236, shot 25099 | | | | | | | | | | |
| | | | | | | 09 42.539 N 084.48.929 W | | | | | | | | | | |
| 100 | 0944 | | | | | did not start turn - waiting for gunners, | | | | | | | | | | |
| | | | | | | still shooting | | | | | | | | | | |
| 100 | 0947 | | | | | guns #13 + 17 to replace #5 + 8, so guns | | | | | | | | | | |
| | | | | | | #5, 7, 8, 11, 17 off, still going straight, | | | | | | | | | | |
| | | | | | | slowed down to < 4 knots | | | | | | | | | | |
| 100 | 1000 | 1920.85 | 43.8 | 3.7 | 56.60 | 09 43.603 N 084 48.025 W, still going straight | | | | | | | | | | |
| | | | | | | gun #6 off | | | | | | | | | | |
| 100 | 1018 | | | | | gun #4 off (#4-8 + 17) | | | | | | | | | | |
| 100 | 1024 | 1922.58 | 42.0 | 4.1 | 49.20 | log out of water, beginning turn | | | | | | | | | | |
| | | | | | | 09 44.831 N 084 46.953 W | | | | | | | | | | |
| 100 | 1028 | | | | | log loose! free of gun lines! | | | | | | | | | | |
| 100 | 1030 | 1922.95 | 18.0 | 5.5 | 47.70 | 09 45.126 N 084 46.770 W | | | | | | | | | | |
| 100 | 1046 | | | | | guns back in water, #2, 6, 17, 19 out, | | | | | | | | | | |
| | | | | | | going around other vessel | | | | | | | | | | |
| 100 | 1100 | 1925.81 | 240.7 | 5.6 | 50.40 | 09 45.171 N 084 48.849 W | | | | | | | | | | |
| 100 | 1129 | 1928.22 | 211.8 | 4.7 | 63.70 | SOL 226, shot no 25439 | | | | | | | | | | |
| | | | | | | 09 43.293 N 084 50.098 W | | | | | | | | | | |
| 100 | 1200 | 1930.87 | 214.1 | 5.3 | 39.20 | 09 41.215 N 084 51.883 W | | | | | | | | | | |
| 100 | 1230 | 1933.41 | 216.0 | 5.1 | 93.70 | 09 39.306 N 084 53.532 W | | | | | | | | | | |
| 100 | 1255 | 1935.68 | 192.8 | 5.3 | 98.10 | 09 37.600 N 084 54.920 W going around fishing buoys | | | | | | | | | | |

| DATE | TIME | PIT LOG | H09 CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|------------|-----|-------|--|-----|--------|----|-----|--------|--------|
| | | | | | | | SWP | DEL/LO | HI | SWP | DEL/LO | HI |
| 100 | 1300 | 1936.08 | 193.7 | 5.3 | 103.2 | 09 37.068 N 084 55.072 W | | | | | | |
| 100 | 1314 | 1937.29 | 195.0 | 4.9 | 132.5 | 09 36.125 N 084 55.359 W, turning back toward line after detouring around buoys (crossed 5 adjacent lines) | | | | | | |
| 100 | 1330 | 1938.66 | 197.0 | 5.0 | 143.7 | 09 35.716 N 084 56.628 W (Back on track of line 226) | | | | | | |
| 100 | 1400 | 1941.18 | 205.3 | 5.6 | 188.1 | 09 33.849 N 084 58.227 W | | | | | | |
| 100 | 1405 | | | | | Resynced Truetime + GPS to correct Two hour discrepancy | | | | | | CEO |
| | | | | | | | | | | | | File # |
| 100 | 1430 | 1943.87 | 218 | 5.1 | 214 | 9 31.826 84 59.971 | | | | | | 25997 |
| 100 | 1500 | 1946.42 | 213 | 4.7 | 303 | 9 29.858 85 1.664 | | | | | | 9872 |
| 100 | 15:15 | 1947.73 | 210 | 5.5 | 361 | 9° 28.085 85 02.495 EOL 226 226 | | | | | | 26091 |
| | 15:30 | 1949.05 | 88 | 5.8 | 410 | 9° 29.994 85 01.969 | | | | | | 9966 |
| 100 | 15:36 | 1949.61 | 45 | 4.9 | 376 | 9° 28.268 85 01.590 BOL 234 | | | | | | 14 |
| 100 | 16:00 | 1951.72 | 47 | 5.4 | 334 | 9° 29.830 N 85° 0.248 W | | | | | | 26139 |
| 100 | 16:30 | 1954.36 | 47 | 5.3 | 294 | 9° 31.819' N 84° 58.51' W | | | | | | 26186 |
| 100 | 17:00 | 1956.83 | 45 | 4.7 | 234 | 9° 33.736' N 84° 56.869' W | | | | | | 26203 |
| 100 | 17:30 | 1959.33 | 37 | 5 | 143 | 9 35.721 84 55.151 W | | | | | | 26274 |
| | 17:34 | | | | | Diverge from line for obstacle | | | | | | 26369 |
| | 17:42 | | | | | Back on line; maximum divergence ~100m NW | | | | | | 26463 |
| 100 | 1800 | 1961.91 | 46 | 5 | 94 | 9 37.684 84 53.462 W | | | | | | 26558 |
| 100 | 1830 | 1964.56 | 44 | 5.3 | 86.3 | 9 39.650 84 51.771 | | | | | | 26654 |
| | 1832 | | | | | resynchronized datum and Truetime clocks | | | | | | 26749 |
| 100 | 1900 | 1967.24 | 44 | 4.9 | 68 | 9° 41.534' N 84° 50.157' W | | | | | | 26841 |
| | 19:12 | 1968.35 | 44 | 5.1 | 65 | 19:07 DATUM ? RESET | | | | | | 26880 |
| | | | | | | 19:12 TRUE TIME } | | | | | | 716 |
| | 19:18 | 1968.83 | 42 | 5.0 | 62.7 | 9° 42.695 84 49.162 EOL * 234 | | | | | | 755 |
| | 19:30 | 1970.0 | 309 | 5.8 | 59.1 | 9° 43.66' N 84° 49.26' W (on turn) | | | | | | 26897 |
| | 19:36 | | | | | A COMPRESSOR IS DOWN | | | | | | 26933 |
| | 1944 | | | | | ON Line 224 | | | | | | 773 |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | | B | | | C | | | |
|------|-------|---------|-------|-----|-------|--|-----|-----|----|----|-----|-----|-------|----|-----|-----|
| | | | | | | | SWP | DEL | LO | HI | SWP | DEL | LO | HI | SWP | DEL |
| 100 | 2000 | 1972.62 | 214 | 5 | 71.2 | 09 42.346 84 51.268 | 27 | 029 | | | | | 906 | | | |
| | | | | | | | 54 | 17 | 11 | | | | 512 | | | |
| 100 | 2015 | | | | | RESET CLOCK TO 2015136.805 | 27 | 077 | | | | | 953 | | | |
| 100 | 2030 | 1975 | 214 | 48 | 87.4 | 9 40.443 84 52.910 | 27 | 123 | | | | | 999 | | | |
| | 21:00 | 1977.48 | 218 | 5.3 | 92 | 90 38.513 84 54.563 | 27 | 217 | | | | | 10 93 | | | |
| | 21:03 | | | | | RESET CLOCK (off by ~5 seconds) | 27 | 228 | | | | | | | | |
| | 21:23 | | | | | RESET CLOCK off by 2 MINUTES | | | | | | | | | | |
| | 21:30 | 1979 | 214 | 4.8 | 112.1 | 9 36.593 84 56.224 | 27 | 312 | | | | | 11 88 | | | |
| | 22:00 | 1982.4 | 216.1 | 4.9 | 165.4 | 90 34.590 84 57.950 | 27 | 407 | | | | | | | | |
| | 2205 | | | | | SWITCH ASHTEC MAG. FROM CARMEN TO DANAKA OUTAGE ~ 400 SEC | | | | | | | | | | |
| 100 | 22:30 | 1984.85 | 215 | 1.7 | 188.5 | 09 32 66S N 084 59.606 W | 27 | 504 | | | | | 13 80 | | | |
| 100 | 23:00 | 1987.2 | 214.3 | 4.6 | 235.5 | 9 30.688 85.01.313 | 27 | 598 | | | | | 14 74 | | | |
| | 23:13 | 1988.2 | | | | Resynchronize true time - Datum | | | | | | | | | | |
| 100 | 23:25 | 1989.0 | 212.5 | 5.3 | 351.7 | 9 28 982 85.02.774 | 27 | 676 | | | | | 15 52 | | | |
| | | | | | | End of Line # 224 | | | | | | | | | | |
| 100 | 23:30 | 1989.6 | 166.7 | 5.7 | 376 | 9 28.624 85.02.842 | | | | | | | | | | |
| 100 | 23:45 | 1991.16 | 112 | 5.8 | 369.3 | 09 28 480 N 085 01.759 W | 27 | 736 | | | | | 16 12 | | | |
| 101 | 00:00 | | | | | in the 3D BOX START of PROFILE 232 | | | | | | | | | | |
| 101 | 00:00 | 1992.58 | 44 | 5.9 | 338.2 | 09 29.467 N 085 00.911 W | 27 | 786 | | | | | 16 62 | | | |
| | 00:20 | 1994.4 | | | | Resynchronize true time - Datum | | | | | | | | | | |
| 101 | 00:30 | 1995.3 | 45.0 | 5.3 | 291.6 | 9.31.413 84.59.234 | 27 | 880 | | | | | 17 56 | | | |
| | 00:31 | 1995.5 | | | | Resynchronize true time - Datum | | | | | | | | | | |
| | 01:00 | 1998.1 | 45.7 | 5.5 | 232.3 | 9.33.421 84.57.504 | 27 | 977 | | | | | 18 53 | | | |
| 101 | 01:30 | 2000.8 | 43.7 | 5.3 | 152.3 | 9.35.370 84.55.827 | 28 | 072 | | | | | 19 48 | | | |
| | 01:56 | 2003 | | | | Resynchronize true time - Datum | | | | | | | | | | |
| 101 | 02:00 | 2003.3 | 43.1 | 5.1 | 100.5 | 9.37.303 84.54.161 | 28 | 164 | | | | | 20 41 | | | |
| | 0216 | | | | | STOP / START SEISMAT | | | | | | | | | | |
| 101 | 02:30 | 2005.8 | 44.0 | 4.9 | 90.2 | 9.39.290 84.52.444 | 28 | 252 | | | | | 21 29 | | | |
| | 03:00 | 2008.5 | 43.7 | 5.3 | 73.9 | 9.41.267 84.50.751 | 28 | 347 | | | | | 22 24 | | | |

| DATE | TIME | PIT LOG | SE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|-------|-----|-------|--|-----|--------|----|-----|--------|----|
| | | | | | | | SWP | DEL/LO | HI | SWP | DEL/LO | HI |
| 101 | 03:24 | 2010.52 | 423 | 5.2 | 63 | 09 42.877N 084 49.368 W | 28 | 426 | | | 23 | 03 |
| | | | | | | Out of 3D Box End of line 239 | | | | | | |
| | | | | | | initiate turn of hand move to line 222 | | | | | | |
| 101 | 03:30 | 2010.97 | 35 | 5.6 | 60.6 | 09 43 299 N 084 49.192 W | | | | | | |
| | | | | | | STOP START Acquisition process. Doing some test | | | | | | |
| 101 | 03:36 | 2011.53 | 306.5 | 5.5 | 57.2 | 09 43.800N 084 49.104 W | | | | | | |
| | | | | | | End of the test - Start again short time | 28 | 443 | | | 23 | 23 |
| 101 | 03:50 | 2012.88 | 219 | 4.9 | 62.8 | 09 43 644 N 084 50.516 W | 28 | 488 | | | 23 | 68 |
| | | | | | | Start of profile 222 into the 3D BOX | | | | | | |
| 101 | 04:00 | 2013.6 | 219 | 5.2 | 68.8 | 9 43 008 84 51 059 | 28 | 520 | | | 24 | 00 |
| 101 | 04:30 | 2016.2 | 220 | 5.1 | 86.1 | 9 41 017 84 52 776 | 28 | 618 | | | 24 | 98 |
| | 04:31 | 2016.3 | | | | Resynchronize true time - Datum. | | | | | | |
| | 04:39 | 2017 | | | | " " " " | | | | | | |
| 101 | 05:00 | 2018.7 | 222.5 | 5.0 | 95.8 | 9 39 048 84 54 475 | 28 | 712 | | | 25 | 92 |
| 101 | 05:30 | 2021.2 | 221.5 | 4.8 | 114.3 | 9 37 083 84 58.163 | 28 | 808 | | | 26 | 88 |
| 101 | 05:51 | | | | | gun #11 not firing for few minutes (3.2 hr fires in last 200 shots) | | | | | | |
| 101 | 06:00 | 2023.80 | 223.9 | 4.7 | 154.9 | 09 35.020 N 084 57.892 W | | | | | | |
| 101 | 06:13 | | | | | brought in gun #11 to work on it | | | | | | |
| 101 | 06:30 | 2026.30 | 225.0 | 4.9 | 173.7 | 09 33.153 N 084 59.555 W, still working on gun #11 | | | | | | |
| 101 | 06:54 | | | | | gun #11 back in water | | | | | | |
| 101 | 07:00 | 2028.80 | 224.8 | 5.3 | 195.1 | 09 31.255 N 085 01.189 W | | | | | | |
| 101 | 07:30 | 2031.28 | 221.1 | 5.2 | 312.0 | 09 29.330 N 085 02.838 W | | | | | | |
| 101 | 07:31 | | | | | EOL 222, sh no 29187 | | | | | | |
| 101 | 07:52 | 2033.33 | 35.5 | 4.9 | 377.1 | SOL 230, sh no 29252 | | | | | | |
| | | | | | | 09 28.646 N 085 01.974 W | | | | | | |
| 101 | 08:00 | 2033.95 | 40.1 | 5.1 | 346.7 | 09 29.134 N 085 01.558 W | | | | | | |
| 101 | 08:30 | 2036.56 | 37.5 | 4.9 | 280.1 | 09 31.119 N 084 59.845 W | | | | | | |
| 101 | 09:00 | 2039.11 | 40.7 | 5.9 | 233.2 | 09 32.976 N 084 58.248 W | | | | | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|------|---------|-------|-----|-------|---|-----|-----|-----|-----|-----|-----|
| | | | | | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 101 | 0930 | 2041.94 | 41.3 | 5.5 | 166.3 | 09 34.984 N 084 56.516 W | | | | | | |
| 101 | 1000 | 2044.77 | 41.5 | 5.3 | 111.8 | 09 36.984 N 084 54.790 W | | | | | | |
| 101 | 1030 | 2047.39 | 43.8 | 4.8 | 93.11 | 09 38.903 N 084 53.140 W | | | | | | |
| 101 | 1041 | | | | | reset true time + datum | | | | | | |
| 101 | 1100 | 2049.97 | 40.7 | 4.9 | 77.21 | 09 40.862 N 084 51.454 W | | | | | | |
| 101 | 1130 | 2052.59 | 43.5 | 5.5 | 64.31 | 09 42.305 N 084 49.778 W | | | | | | |
| 101 | 1133 | 2053.06 | 39.7 | 5.5 | 60.31 | EOL 230, shot no 29950 | | | | | | |
| | | | | | | 09 43 094 N 084 49.530 W | | | | | | |
| 101 | 1157 | 2055.30 | 210.0 | 5.4 | 61.01 | SOL 220, shot no 30024 | | | | | | |
| | | | | | | 09 43.805 N 084 50.740 W | | | | | | |
| 101 | 1200 | 2055.52 | 217.3 | 5.2 | 62.61 | 09 43.631 N 084 50.887 W | | | | | | |
| 101 | 1210 | | | | 69.5 | heard radio beeper frg 160.705 Chond - | | | | | | |
| | | | | | | could be OBS 9 42.713 N 084 51.621 W | | | | | | |
| 101 | 1215 | 2056.90 | 179.5 | 5.0 | 71.91 | 09 42.584 N 084 51.719 W | | | | | | |
| | | | | | | turning to avoid fishing buoys | | | | | | |
| 101 | 1227 | | | | | 09 41.719 N 084 51.546 W, shot no 30105 | | | | | | |
| | | | | | | turning back toward line, ~1350 m away | | | | | | |
| 101 | 1230 | 2058.12 | 245.3 | 5.0 | 75.41 | 09 41.552 N 084 51.792 W, hear something on | | | | | | |
| | | | | | | OBS frequency, think fisherman has 1 of our | | | | | | |
| | | | | | | instruments caught in his net, we're contacting him | | | | | | |
| 101 | 1233 | | | | | saw OBH on deck of fishing boat through binoculars | | | | | | |
| 101 | 1241 | | | | | trouble getting through to fishermen | | | | | | |
| 101 | 1244 | | | | | back on line | | | | | | |
| | | | | | | 09 41.316 N 084 52.875 W | | | | | | |
| 101 | 1256 | | | | | sending 2nd msg, Germans + Marino over to boat | | | | | | |
| | | | | | | in Zodiac - can't raise fishermen on radio | | | | | | |
| 101 | 1300 | 2060.61 | 219.2 | 5.4 | 88.71 | 09 40.361 N 084 53.703 W | | | | | | |
| 101 | 1309 | | | | | missed a shot 09 39.752 N 084 54.229 W | | | | | | |
| | | | | | | reset true time + datum | | | | | | |
| 101 | 1319 | | | | | Zodiac away - Marino, Jorge + Mark | | | | | | |

| DATE | TIME | PIT LOG | HDS CSE | SPD | DEPTH | REMARKS | A | | | B | | | C | | |
|------|--------|---------|------------|-----|-------|--|-----|-----|----|-------|-----|----|------|-----|----|
| | | | | | | | SWP | DEL | LO | SWP | DEL | LO | SWP | DEL | LO |
| 101 | 1328 | | | | | instrument probably OBH #72 or 74 - closest ones | | | | | | | | | |
| 101 | 1330 | 2063.34 | 219.3 | 5.8 | 104.8 | 09 38.384 N 084 55.405 W | | | | | | | | | |
| 101 | 1347 | | | | | they got the OBH + are on their way back | | | | | | | | | |
| 101 | 1400 | 2065.83 | 216.7 | 4.8 | 116.3 | 09 36.446 N 084 57.075 W waiting for Zodiac | | | | | | | | | |
| 101 | 1410 | | | | | Continued shooting while OBH was loaded from Zodiac to Ewing | | | | | | | | | |
| | 1420 | | | | | Zodiac on board | | | | | | | | | |
| 101 | 1430 | 2066.46 | 218.5 | 5.2 | 154 | 9° 34.502' N 84° 58.748' W continue line 220 | | | | 30471 | | | 4353 | | |
| 101 | 1500 | 2071.00 | 220.7 | 5.4 | 164 | 9° 32.51' N 85° 0.45' W continue line 220 | | | | 30567 | | | 4449 | | |
| 101 | 1530 | 2073.63 | 223 | 5.3 | 213 | 9° 30.50' N 85° 02.19' W (stop start DMS at 1529) | | | | 30657 | | | 4539 | | |
| | 1547 | 2075.01 | 228 | 5.0 | 308 | 9° 29.41' N 85° 03.13' EOL #220 | | | | 30713 | | | 4595 | | |
| 101 | 1600 | 2076 | 314 | 5.0 | 252 | 9° 29.38' N 85° 04.14' W Turning to line 210 | | | | 30751 | | | 4633 | | |
| | 1613 | 2077.1 | 38 | 5.5 | 157 | 9° 30.37' N 85° 04.06' W BOL #210 | | | | 30793 | | | 4675 | | |
| 101 | 1700 | 2081.42 | 37 | 5.4 | 115 | 9° 33.45' N 85° 1.45' W cont Line 210 | | | | 30934 | | | 4816 | | |
| 101 | 1730 | 2084.0 | 36 | 5.7 | 109.7 | 9° 35.40' N 84° 59.75' W | | | | 31029 | | | 4911 | | |
| 101 | 1743 | | | | | Going off line to avoid fishing equipment | | | | | | | | | |
| 101 | 1749 | 2085.7 | 58 | | | Going back to line - Max dist. off line 176 m | | | | | | | | | |
| | | | | | | Bringing some guns in - several are off remaining fishing line | | | | | | | | | |
| 101 | 1753 | | | | | Back on line - still fixing gun problems | | | | | | | | | |
| | | | | | | all guns off on starboard array | | | | 31123 | | | 5005 | | |
| 101 | 1800 | 2086.59 | 38 | 5.3 | 88.4 | 9° 37.39' N 84° 58.074' W | | | | | | | | | |
| 101 | 1809 | | | | | GUNS 3, 4, & 5 ON LINE | | | | | | | | | |
| 101 | 1811 | | | | | Forced END of line Forced ON CED | | | | | | | | | |
| 101 | 1821 | | | | | GUNS 1, 3, 4, 5, 7, 8, 9, 10, 13, 14, 17, 20 ON LINE | | | | 31190 | | | 5069 | | |
| 101 | 1830 | 2089 | 39.5 | 5.5 | 91.3 | 9° 37.36' N 84° 56.354' W | | | | | | | | | |
| 101 | 1800 | 2091 | 39 | 5.2 | 79.3 | 9° 41.36' N 84° 54.62' W | | | | 31315 | | | 5194 | | |
| 101 | 190045 | | | | | CLOCKS 35 MINUTES OUT OF SYNC (RESET) | | | | | | | | | |
| 101 | 1930 | 2094 | 39 | 5.2 | 70.2 | 9° 43.263' N 84° 52.991' W | | | | 31404 | | | 5288 | | |
| | 1955 | 2096.5 | 41 | 5.3 | 66.7 | 9° 44.851' N 84° 51.627' EOL #210 | | | | 31487 | | | 5366 | | |
| | 2000 | 2096.74 | 70 | 5.4 | 64.2 | 9° 45.027' N 84° 51.235' (TURNING) | | | | 31504 | | | 5383 | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|---------|---------|-------|-----|-------|---|-----------------------|-----|-----|-----|-----|-----|
| | | | | | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 101 | 2003 | | | | | STOP / START SENS HAND | | | | | | |
| | 2016 | 2098.36 | 220 | 5.2 | 63.50 | (NE → SW) BOL * 218 | 31 | 549 | | | 54 | 29 |
| 101 | 2030 | 2099.51 | 220 | 5.0 | 71.80 | 9° 43.098 84° 51.703 | 31 | 593 | | | 54 | 73 |
| 101 | 2046 | 2102.9 | | | | MANUEVERING AROUND logs | | | | | | |
| 101 | 2100 | 2102.02 | 220 | 5.1 | 84.5 | 9° 41.14' N 84° 53.40' W continue line 218 | 31 | 688 | | | 55 | 68 |
| | 2120 | 2103.78 | 221 | 4.8 | 92.5 | 21:14 DATUM } RESET | 31 | 755 | | | 56 | 35 |
| | 2130 | | | | | 21:20 TRUE TIME } | | | | | | |
| | 2130 | 2104.51 | 221 | 5.0 | 97.3 | 9° 39.170 84° 55.082 | 31 | 784 | | | 56 | 64 |
| 101 | 2200 | 2106.9 | 221 | 4.8 | 107.8 | 9° 37.207 84° 56.777 | 31 | 879 | | | 57 | 59 |
| 101 | 2230 | 2109.4 | 221 | 4.8 | 138.5 | 9° 35.240 84° 58.473 | 31 | 975 | | | 58 | 55 |
| 101 | 2300 | 2111.8 | 220.5 | 4.9 | 152.7 | 9° 33.274 85° 00.164 - no shoot. | shooting in the land | | | | | |
| 101 | 2330 | 2114.2 | 221.5 | 5.0 | 169.3 | 9° 31.340 85° 01.834 | 32 | 165 | | | 60 | 35 |
| 101 | 2356 | 2116.5 | 221.3 | 5.0 | 288 | 09 29 592 N 085 03 338 W | 32 | 268 | | | 61 | 19 |
| | | | | | | out of 3D Box End of line 218 | | | | | | |
| 102 | 0000 | 2116.79 | 243 | 5.7 | 293.1 | STOP shooting for land shot | 32 | 256 | | | 61 | 26 |
| | (23:59) | | | | | 09 29 429 N 085 03 548 W | | | | | | |
| 102 | 0009 | 2117.03 | 268 | 5.9 | 290.9 | 09 29 357 N 085 03 787 W | 32 | 269 | | | 61 | 30 |
| | | | | | | start again shooting | | | | | | |
| 102 | 0009 | 2118.69 | 413 | 5.1 | 156.8 | 09 30.561 N 085 04.288 W | 32 | 224 | | | 60 | 31 |
| | | | | | | in the 3D Box start of the line 208 | 32 | 325 | | | 61 | 86 |
| 102 | 0030 | 2119.5 | 42.3 | 5.2 | 132.9 | 9° 31.257 N 85° 03.683 W | 32 | 353 | | | 62 | 14 |
| 102 | 0100 | 2122.2 | 45.4 | 5.8 | 108.8 | 9° 33.260 N 85° 01.962 W | not shooting for land | | | | | |
| | 0108 | 2122.9 | | | | Reset true time - Datum. | | | | | | |
| 102 | 0130 | 2124.8 | 41.3 | 4.6 | 103.2 | 9° 35.198 N 85° 00.289 W | 32 | 544 | | | 63 | 86 |
| | 0150 | 2126.9 | | | | Reset true time - Datum. | | | | | | |
| 102 | 0200 | 2127.3 | 43.8 | 5.2 | 82.4 | 9° 37.149 N 84° 58.608 W stop shooting, waiting land shoot. | | | | | | |
| | 0202 | 2127.7 | 42.0 | 5.2 | 81.9 | 9° 37.341 N 84° 58.446 W start shooting | 32 | 640 | | | 64 | 83 |
| 102 | 0230 | 2129.97 | 44.5 | 4.9 | 88.3 | 9° 39.130 84° 56.898 W | 32 | 730 | | | 65 | 73 |
| | 0232 | 2130.5 | | | | Reset true time - Datum | | | | | | |
| 102 | 0300 | 2132.5 | 42.0 | 4.6 | 79.0 | 9° 41.085 N 84° 55.223 | | | | | | |

| DATE | TIME | PIT LOG | HDB CSE | SPD | DEPTH | REMARKS | A | | | | B | | | | C | | | |
|------|-------|---------|------------|-----|-------|---|-----|-----|-----|----|-----|-----|----|----|-----|-----|----|----|
| | | | | | | | SWP | DEL | LO | HI | SWP | DEL | LO | HI | SWP | DEL | LO | HI |
| 102 | 03:02 | 2132.7 | 43.7 | 4.5 | 78.6 | 9° 41.276 N 84.55.055 W start shot - | 32 | | 828 | | | | | | 66 | | 62 | |
| | 03:30 | 2134.9 | 44.0 | 4.7 | 68 | ting again | | | | | | | | | | | | |
| | | | | | | 9° 43.047 N 84.53.528 W | 32 | | 916 | | | | | | 67 | | 50 | |
| 102 | 03:59 | 2137.26 | 44.3 | 5.0 | 65.80 | 09 44.919 N 084 51.919 W | 33 | | 007 | | | | | | 68 | | 41 | |
| | | | | | | lost shot line 208. End of line 208 land | | | | | | | | | | | | |
| 102 | 04:00 | 2137.46 | 45.7 | 4.9 | 65.11 | 09 45.031 N 084 51.826 W shot | 33 | | 007 | | | | | | 68 | | 41 | |
| | | | | | | End of line 208 out of 3D Box | | | | | | | | | | | | |
| 102 | 04:02 | 2137.58 | 46.7 | 5.0 | 65.0 | 09 45.129 N 084 51.686 W | 33 | | 018 | | | | | | 68 | | 42 | |
| | | | | | | start again shooting | | | | | | | | | | | | |
| | | | | | | SWITCH ASUTEC/NAVAVOX GPS | | | | | | | | | | | | |
| | | | | | | FROM PANAMA TO CARMEN BASE. | | | | | | | | | | | | |
| 102 | 04:21 | 2139.4 | 219.3 | 5.3 | 66.1 | 9° 43.990 N 84° 51.294 W | 33 | | 076 | | | | | | 69 | | 00 | |
| 102 | 04:30 | 2139.9 | 218.1 | 5.2 | 68.8 | 9° 43.606 N 84° 51.625 W | 33 | | 105 | | | | | | 69 | | 29 | |
| 102 | 05:00 | 2142.5 | 220.7 | 5.5 | 79.7 | 9° 41.649 N 84.53.305 W | 33 | | 200 | | | | | | 70 | | 24 | |
| 102 | 05:30 | 2145.0 | 223.0 | 5.1 | 91.9 | 9° 39.683 N 84.55.007 W | 33 | | 295 | | | | | | 71 | | 19 | |
| 102 | 0600 | 2147.60 | 221.8 | 5.2 | 95.3 | 09 37.736 N 084 56.624 W | 33 | | 390 | | | | | | 72 | | 14 | |
| 102 | 0630 | 2150.29 | 222.3 | 5.3 | 122.0 | 09 35.726 N 084 58.414 W | | | | | | | | | | | | |
| 102 | 0700 | 2152.90 | 220.5 | 5.2 | 141.5 | 09 33.773 N 085 00.093 W | | | | | | | | | | | | |
| 102 | 0713 | | | | | missed a shot, shot no 33621 | | | | | | | | | | | | |
| 102 | 0730 | 2155.60 | 221.0 | 5.7 | 147.0 | 09 31.815 N 085 01.781 W | | | | | | | | | | | | |
| 102 | 0748 | | | | | reset true time + datum, missed a shot | | | | | | | | | | | | |
| 102 | 0800 | 2158.26 | 222.3 | 4.8 | 237.6 | 09 29.838 N 085 03.488 W | | | | | | | | | | | | |
| 102 | 0801 | 2158.38 | 219.7 | 4.9 | 247.3 | EOL 216, shot no 33775 | | | | | | | | | | | | |
| | | | | | | 09 29.740 N 085 03.568 W | | | | | | | | | | | | |
| 102 | 0825 | 2160.42 | 40.8 | 4.7 | 125.5 | SOL 206, shot no 33853 | | | | | | | | | | | | |
| | | | | | | 09 30.739 N 085 04.484 W | | | | | | | | | | | | |
| 102 | 0830 | 2160.81 | 37.8 | 5.0 | 126.0 | 09 31.049 N 085 04.215 W | | | | | | | | | | | | |
| 102 | 0900 | 2163.32 | 38.7 | 4.9 | 98.42 | 09 33.033 N 085 02.510 W | | | | | | | | | | | | |
| 102 | 0930 | 2165.80 | 38.5 | 4.9 | 91.91 | 09 35.006 N 085 00.814 W | 34 | | 060 | | | | | | 78 | | 83 | |

| DATE | TIME | PIT LOG | HDS CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|------------|-----|-------|--|------------|----------|------------|----------|------------|----------|
| | | | | | | | SWP DEL | LO HI | SWP DEL | LO HI | SWP DEL | LO HI |
| 102 | 1000 | 2162.28 | 36.8 | 5.0 | 72.61 | 09 36.923 N 084 59.111 W | | | | | | |
| 102 | 1030 | 2170.80 | 37.7 | 5.3 | 85.61 | 09 38.943 N 084 57.421 W | 34 | 252 | | | 80 | 74 |
| 102 | 1100 | 2173.35 | 41.0 | 4.9 | 77.91 | 09 40.907 N 084 55.731 W | | | | | | |
| 102 | 1130 | 2175.92 | 58.5 | 5.1 | 65.61 | 09 49.890 N 084 54.011 W | | | | | | |
| 102 | 1200 | 2172.47 | 41.3 | 5.3 | 63.91 | 09 44.234 N 084 52.343 W | 34 | 536 | | | 93 | 58 |
| 102 | 1205 | 2172.99 | 41.3 | 5.6 | 64.01 | EOL 206, shot no 34553 | | | | | | |
| | | | | | | 09 45.176 N 084 52.055 W | | | | | | |
| 102 | 1224 | 2170.82 | 321.0 | 5.0 | 63.21 | SOL 214, shot no 34612 | | | | | | |
| | | | | | | 09 44.334 N 084 51.352 W | | | | | | |
| 102 | 1230 | 2171.34 | 220.7 | 5.2 | 66.41 | 09 43.986 N 084 51.661 W | | | | | | |
| 102 | 1300 | 2173.98 | 220.0 | 5.1 | 75.11 | 09 42.023 N 084 53.343 W | | | | | | |
| 102 | 1330 | 2176.60 | 217.0 | 5.4 | 91.31 | 09 40.108 N 084 54.996 W | | | | | | |
| 102 | 1400 | 2184 | 216 | 5.6 | 94.81 | 9 38.147 N 84 56.692 | 34 | 914 | | | 87 | 36 |
| | 1430 | 2192.00 | 214 | 5.4 | 102 | 9 36.209 84 58.352 | 35 | 008 | | | 88 | 30 |
| | 15:00 | 2194.67 | 214 | 5.2 | 132 | 9 34.229 85 00 053 | 35 | 103 | | | 89 | 25 |
| | 15:30 | 2197.41 | 217 | 5.3 | 133 | 9 32.241 85 01 762 | 35 | 199 | | | 90 | 21 |
| | 16:00 | 2200.35 | 219 | 5.1 | 131 | 9 30.292 85 03.444 | 35 | 294 | | | 91 | 16 |
| | 16:05 | 2200.47 | 219 | 5.0 | 213 | 9 27.964 85 03.732 EOL * 214 | 35 | 311 | | | 91 | 33 |
| | 16:20 | | | | | BOL * 204 | 35 | 387 | | | 92 | 09 |
| | 16:30 | 2202.25 | 40 | 4.7 | 118 | 9 30.394 85 04.672 | 35 | 588 | | | 92 | 10 |
| | 17:00 | 2205.33 | 43 | 5.1 | 84 | 9 32.399 85 02.992 | 35 | 484 | | | 93 | 06 |
| | 17:04 | | | | 87 | 16:49:59 ? RESET CLOCK | 35 | 496 | | | 93 | 18 |
| | | | | | | 17:03:25 S | | | | | | |
| 102 | 17:30 | 2207.75 | 40 | 4.9 | 79 | 9 34.87' N 85° 1.28' W Continue line 204 | 35 | 578 | | | 94 | 00 |
| 102 | 1800 | 2210 | 41 | 5.1 | 81 | 9 36.871 84 59.552 W | 35 | 675 | | | 94 | 97 |
| 102 | 1830 | 2212 | 39 | 4.7 | 83 | 9 38.851 84 57.894 | 35 | 770 | | | 95 | 92 |
| 102 | 1900 | 2214 | 37 | 4.8 | 77 | 9 40.761 84 56.219 | 35 | 864 | | | 96 | 86 |
| 102 | 1930 | 2217 | 37 | 4.8 | 67 | 9 42.705 84 54.561 | 35 | 959 | | | 97 | 81 |
| 102 | 2000 | 2219 | 42.4 | 5.3 | 62 | 9 44.721 84 52.799 | 36 | 054 | | | 98 | 76 |
| 102 | 2010 | 2220 | | | | END LINE | 36 | 085 | | | 99 | 07 |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | | B | | | C | | |
|------|-------|---------|-------|-----|-------|---|-----|-----|----|-----|-----|----|-----|-----|----|
| | | | | | | | SWP | DEL | LO | SWP | DEL | LO | SWP | DEL | LO |
| 102 | 2030 | 2222 | 215 | 5. | 62.52 | 9 44.783 84 51.322 | 36 | 148 | | | | | 99 | 70 | |
| | 2033 | | | | | 19:36:46 } => RESET | 36 | 158 | | | | | 99 | 80 | |
| | | | | | | 20:33:31 } | | | | | | | | | |
| | 20:34 | 2222.96 | 221 | 5.3 | 67.2 | 9° 44.54 / 84° 51.531 B02 * 212 | 36 | 159 | | | | | 99 | 81 | |
| | 20:00 | 2225.13 | 222 | 5.4 | 72.7 | 9° 42.851 84 52.986 | | ? | | | | | | ? | |
| | 21:24 | 2227.28 | 225 | 5.0 | 82 | AVOIDING SHREMPERS | 36 | 317 | | | | | 1 | 37 | |
| | 21:30 | 2227.77 | 222 | 5.4 | 84 | 9 40.895 84 54.673 | 36 | 334 | | | | | 1 | 55 | |
| 102 | 22:00 | 2230.3 | 223 | 5.1 | 92.5 | 9° 38.917 N 84° 56.381 W | 36 | 430 | | | | | 2 | 51 | |
| 102 | 22:30 | 2232.9 | 219.8 | 5.2 | 93.02 | 9° 36.949 N 84° 58.080 W | 36 | 526 | | | | | 3 | 47 | |
| 102 | 23:00 | 2235.4 | 218.3 | 5.0 | 120.1 | 9° 34.993 N 84° 59.757 W | 36 | 621 | | | | | 4 | 42 | |
| 102 | 23:30 | 2237 | 220.7 | 5.1 | 125.7 | 09 33.019 N 085 01.461 W | | | | | | | | | |
| 102 | 00:00 | " | " | " | " | Fishing boat ^{sonar} initiate a turn | 36 | 809 | | | | | 6 | 30 | |
| 103 | 00:00 | 2240.60 | 219 | 4.6 | 155.1 | 09 31.132 N 085 03.088 W | | | | | | | | | |
| 103 | 00:07 | 2240.96 | 240.3 | 4.2 | 155.8 | 09 30.692 N 085 03.481 W | 36 | 831 | | | | | 6 | 52 | |
| 103 | 00:10 | | | | | initiate the turn now | | | | | | | | | |
| 103 | 00:10 | 2241.17 | 269.5 | 4.8 | 153.2 | 09 30.642 N 085 03.706 W | 36 | 837 | | | | | 6 | 58 | |
| | | | | | | last of shot last shot End of line 212 | | | | | | | | | |
| | | | | | | initiate the turn in the 3D box | | | | | | | | | |
| | | | | | | because of fishing boat | | | | | | | | | |
| 103 | 00:21 | 2242.41 | 368 | 5.7 | 110.5 | 09 31.313 N 085 04.519 W | 36 | 876 | | | | | 6 | 37 | |
| | | | | | | first shot - line 203 SOL #203 | | | | | | | | | |
| | | | | | | (profile start within the 3D box because of fishing boat) → 750 m down line | | | | | | | | | |
| 103 | 00:30 | 2242.9 | 43.7 | 5.2 | 104.6 | 9° 31.723 N 85° 04.180 W | 36 | 895 | | | | | 7 | 16 | |
| 103 | 01:00 | 2245.6 | 46.7 | 5.4 | 82.5 | 9° 33.659 N 85° 02.513 W | 36 | 990 | | | | | 8 | 11 | |
| 103 | 01:30 | 2248.3 | 47.0 | 5.6 | 74.2 | 9° 35.620 N 85° 00.841 W | 37 | 085 | | | | | 9 | 00 | |
| 103 | 02:00 | 2250.9 | 46.7 | 5.4 | 73.4 | 9° 37.583 N 84° 59.130 W | 37 | 180 | | | | | 9 | 95 | |
| | 02:09 | 2251.8 | | | | Reset true time. Datum | | | | | | | | | |
| | 02:13 | 2252.1 | | | | " " " | | | | | | | | | |
| 103 | 02:30 | 2253.5 | 46.0 | 4.9 | 81.3 | 9° 39.602 N 84° 57.403 W | 37 | 277 | | | | | 10 | 90 | |

| DATE | TIME | PIT LOG | SE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|-------|-----|-------|--|-----|-----|-----|-----|-----|-----|
| | | | | | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 103 | 02:47 | | | | | Reset true time - datum. | | | | | | |
| 103 | 03:00 | 2255.8 | 45.1 | 4.7 | 73.5 | 9° 41.535 N 84° 55.730 W | 37 | 367 | | | 11 | 82 |
| 103 | 03:30 | 2258. | 44.0 | 4.9 | 60.7 | 9° 43.498 N 84° 54.039 W | 37 | 462 | | | 12 | 77 |
| 103 | 04:00 | 2260.79 | 43 | 4.9 | 62.62 | 09 45.435 N 084 52.371 W | 37 | 556 | | | 13 | 71 |
| | | | | | | End of line 203 out of 3D Box | | | | | | |
| 103 | 04:30 | 2263.46 | 184 | 5.1 | 61.8 | 09 44.189 N 084 50.659 W | | | | | | |
| 103 | 04:35 | 2263.87 | 281 | 5.1 | 62.82 | 09 43.807 N 084 50.692 W | 37 | 664 | | | 14 | 79 |
| | | | | | | Start of line 220 (second time) | | | | | | |
| 103 | 05:00 | 2266 | 248 | 5.7 | 75.2 | 9° 42.155 N 84° 52.151 W | 37 | 745 | | | 15 | 60 |
| | 05:03 | 2266.5 | | | | Reset true time - datum | | | | | | |
| 103 | 05:16 | 2267.67 | 201 | 5.3 | 84.82 | 09 41.098 N 084 53.052 W | 37 | 792 | | | 16 | 07 |
| | | | | | | Last shot for the part of the line 220 | | | | | | |
| 103 | 05:30 | 2268.8 | 199.5 | 5.1 | 87.9 | 9° 40.005 N 84° 53.008 W | 37 | 835 | | | 16 | 50 |
| | 05:34 | 2269.3 | 219.5 | 5.1 | 92.0 | 9° 39.624 N 84° 53.257 W | 37 | 848 | | | 16 | 63 |
| | | | | | | start line 226 (second time) | | | | | | |
| 103 | 06:00 | 2271.5 | 218.3 | 5.0 | 95.0 | 9° 38.029 N 84° 54.639 W | 37 | 929 | | | 17 | 44 |
| 103 | 06:30 | 2274.22 | 219.0 | 5.3 | 127.5 | 09 36.048 N 084 56.334 W | 38 | 025 | | | 18 | 40 |
| 103 | 06:41 | | | | | EOL 226 (repeat), shot no 38059 - last shot on distance 09 35.306 N 084 56.974 W | | | | | | |
| 103 | 06:43 | 2275.45 | 201.0 | 5.5 | 152.2 | begin turn to Line 235 | | | | | | |
| | | | | | | 09 35.141 N 084 57.074 W | | | | | | |
| 103 | 07:00 | 2276.77 | 77.1 | 4.9 | 202.4 | 09 34.363 N 084 56.266 W | 38 | 116 | | | 19 | 31 |
| 103 | 07:02 | | | | | 124.755 N 084 56.151 W on line 235, | | | | | | |
| | | | | | | problem switching to distance, still on time | | | | | | |
| 103 | 07:09 | 2277.67 | 42.8 | 5.1 | 166.8 | switched to distance, 09 34.165 N 084 55.633 W | 38 | 140 | | | 19 | 55 |
| | | | | | | gun #11 not firing, SOL 235 (repeat) | | | | | | |
| 103 | 07:30 | 2279.38 | 41.3 | 5.2 | 122.8 | 09 36.324 N 084 54.462 W | | | | | | |

| DATE | TIME | PIT LOG | HDS CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|------|---------|------------|-----|-------|---|------------|----------|------------|----------|------------|----------|
| | | | | | | | SWP DEL | LO HI | SWP DEL | LO HI | SWP DEL | LO HI |
| 103 | 0747 | | | | | reset true time + datum | | | | | | |
| 103 | 0800 | 2281.96 | 39.5 | 5.2 | 90.61 | 09 38.276 N 084 52.773 W | 38 | 301 | | | 21 | 16 |
| 103 | 0830 | 2284.49 | 40.8 | 4.9 | 79.11 | 09 40.199 N 084 51.130 W | 38 | 398 | | | 22 | 13 |
| 103 | 0831 | | | | | EOL 235 (repeat), switcheded to time | 38 | 401 | | | 22 | 16 |
| 103 | 0832 | | | | | begin turn to strike line 242, crossing grid + | | | | | | |
| | | | | | | keeping 2km crossline distance from line 242 | | | | | | |
| | | | | | | (242 will be shot NW-SE), gun#11 back on | | | | | | |
| 103 | 0900 | 2287.09 | 311.0 | 5.2 | 74.21 | 09 42.137 N 084 52.093 W | | | | | | |
| 103 | 0921 | | | | | we're staying ~ 3250m crossline distance from 242 | | | | | | |
| 103 | 0930 | 2289.68 | 310.0 | 5.7 | 59.21 | 09 43.784 N 084 54.121 W | 38 | 528 | | | 24 | 03 |
| | | | | | | crossed grid + starting turn toward SOL 242 | | | | | | |
| 103 | 0957 | 2292.17 | 130.2 | 4.8 | 66.71 | SOL 242, shot no 38674 | | | | | | |
| | | | | | | 09 42.403 N 084 55.202 W | | | | | | |
| 103 | 1000 | 2292.37 | 121.3 | 4.8 | 68.11 | 09 42.269 N 084 55.013 W | | | | | | |
| | | | | | | could not hear Steffen on radio, but | | | | | | |
| | | | | | | broadcast beginning of line anyway | | | | | | |
| 103 | 1023 | 2294.28 | 127.5 | 4.7 | 82.71 | 09 41.010 N 084 53.555 W over OBS#73 | | | | | | |
| 103 | 1030 | 2294.78 | 127.0 | 4.8 | 86.11 | 09 40.642 N 084 53.126 W over OBS#74 | 38 | 776 | | | 25 | 91 |
| 103 | 1034 | 2295.20 | 129.3 | 4.8 | 87.01 | 09 40.362 N 084 52.782 W over OBS#75 | | | | | | |
| 103 | 1041 | 2295.77 | 126.2 | 5.0 | 85.21 | 09 39.988 N 084 52.352 W over OBS#76 | | | | | | |
| 103 | 1055 | 2296.91 | 128.0 | 4.8 | 83.41 | 09 39.225 N 084 51.447 W leaving 3-D grid, | | | | | | |
| | | | | | | switching to larger gun array | | | | | | |
| 103 | 1100 | 2297.34 | 129.2 | 4.9 | 83.51 | 09 38.941 N 084 51.117 W | 38 | 271 | | | 26 | 86 |
| 103 | 1116 | | | | | turned off 6 guns due to compressor problem | | | | | | |
| 103 | 1119 | | | | | all guns back on | | | | | | |
| 103 | 1130 | 2299.89 | 127.3 | 5.4 | 87.81 | 09 37.285 N 084 49.163 W | 38 | 967 | | | 27 | 82 |
| 103 | 1200 | 2302.53 | 133.3 | 5.1 | 95.81 | 09 35.613 N 084 47.195 W | | | | | | |
| 103 | 1216 | 2303.93 | 130.1 | 5.1 | 102.4 | 09 34.716 N 084 46.137 W over OBS#77 | | | | | | |
| 103 | 1230 | 2305.13 | 129.7 | 5.3 | 106.9 | 09 33.961 N 084 45.250 W | 39 | 154 | | | 29 | 69 |
| 103 | 1300 | 2307.26 | 128.3 | 5.2 | 87.46 | 09 32.258 N 084 43.248 W | 39 | 250 | | | 30 | 65 |

| DATE | TIME | PIT LOG | HDS CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|------------|-----|-------|---|-----|--------|-----|--------|-----|--------|
| | | | | | | | SWP | DEL LO | SWP | DEL LO | SWP | DEL LO |
| 103 | 1308 | | | | | gun #11 not firing | | | | | | |
| 103 | 1312 | | | | | reset true time / datum | | | | | | |
| 103 | 1330 | 2310.52 | 132.5 | 5.1 | 65.76 | 09 30.585N 084 41.272W | 39 | 345 | | | 31 | 60 |
| 103 | 1345 | | | | | missed 2 minutes of shots | | | | | | |
| 103 | 1352 | 2312.48 | 132.7 | 5.1 | 48.96 | EOL 242, shot no 39404 | | | | | | |
| | | | | | | 09 29.376N 084 39.850W | | | | | | |
| 103 | 1355 | | | | | pulling guns 1 at a time to check for fishing lines | | | | | | |
| 103 | 1400 | 2313.23 | 2037 | 6.5 | 48.06 | 09 28.705N 084 39.715W | | | | | | |
| | 14:30 | 2316.02 | | | 68 | | | | | | | |
| | 14:31 | 2316.06 | 315 | 4.9 | 70 | 9° 27.423 84 41.768 BOL * 241 | 39 | 527 | | | 33 | 42 |
| | 14:44 | 2317.26 | 312 | 5.3 | 81 | GUNS 7 & 8 OUT | 39 | 567 | | | 33 | 82 |
| | 15:00 | 2318.66 | 311 | 5.4 | 108 | 9° 29.057 84 43.693 | 39 | 617 | | | 34 | 32 |
| | 15:10 | | | | | GUNS 7 & 8 ARE BACK ON LINE | 39 | 650 | | | 34 | 65 |
| | 15:30 | 2321.40 | 314 | 5.2 | 212 | 9° 30.749 84 45.695 | 39 | 713 | | | 35 | 28 |
| | 16:00 | 2324.08 | 315 | 5.4 | 200 | 9° 32.443 84 47.681 | 39 | 810 | | | 36 | 25 |
| | 16:30 | 2326.78 | 315 | 5.1 | 173 | 9° 34.112 84 49.656 | 39 | 905 | | | 37 | 20 |
| | 17:00 | 2329.41 | 310 | 5.1 | 125 | 9 35.806 84 51.645 | 40 | 000 | | | 38 | 15 |
| | 17:26 | | | | | Reduced airgun array to 16 guns (5895cu.in) | 40 | 084 | | | 38 | 99 |
| 103 | 17:30 | 2331.96 | 309 | 5.2 | 95.3 | 9° 37.51'N 84° 53.66'W | 40 | 096 | | | 39 | 11 |
| | 17:34 | 2332.31 | 312 | 5.0 | 97.5 | 17:22:16 ? => RESET clock | 40 | 109 | | | 39 | 24 |
| | | | | | | 17:33:47 S | | | | | | |
| | 17:39 | 2332.64 | | | 97.1 | PASSING OVER OBS * 66 | | | | | | |
| | 17:45 | | | | 94.7 | " " " * 65 | 40 | 143 | | | | |
| | 17:52 | | | | 103 | " " " * 64 | 40 | 163 | | | | |
| | 17:58 | 2334.23 | | | 99 | " " " * 63 | | | | | | |
| | 18:00 | 2334.41 | 312 | 4.9 | 96.8 | 9° 39.136 84 55.592 | 40 | 189 | | | | 4004 |
| | 18:04 | 2334.74 | 310 | 5.4 | 93.3 | PASSING OVER OBS * 62 | 40 | 202 | | | | |
| | 18:11 | 2335.37 | 309 | 5.0 | 88 | " " " # 61 | 40 | 229 | | | | 4039 |
| | 18:19 | | | | | RESET clocks | 40 | 250 | | | | 4066 |
| | 1830 | 2337 | 308 | 5.5 | 66.6 | 9 40.835 84 57.573 | 40 | 282 | | | | 4092 |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | | B | | | C | | |
|------|-------|---------|-------|-----|-------|--|-----|-----|----|-----|-----|----|-----|-----|----|
| | | | | | | | SWP | DEL | LO | SWP | DEL | LO | SWP | DEL | LO |
| 103 | 18:36 | 2337.68 | 294 | 5.1 | 58 | EOL Line 241 (Ext 2 km landward past box) | | | | | | | | | |
| | 19:00 | 2339.84 | 219 | 5.6 | 52 | 9 40.076 84 59.535 | 40 | 377 | | | | | 41 | 92 | |
| | 19:15 | 2341.12 | 131 | 5.3 | 62 | 9 38.992 84 59.593 BOL # 240 | 40 | 424 | | | | | 42 | 39 | |
| | 19:30 | 2342.38 | 132 | 4.8 | 79 | 9 38.130 84 58.583 | 40 | 471 | | | | | 42 | 86 | |
| | 19:36 | | | | | shooting on distance (should have switched earlier) Missed one shot. | | | | | | | | | |
| | 19:40 | 2343.19 | 130 | 4.6 | 90 | PASSING OVER OBS # 51 | 40 | 503 | | | | | 43 | 18 | |
| | 19:46 | 2343.65 | 127 | 5.2 | 96 | " " " # 52 | | | | | | | | | |
| | 19:52 | 2344.17 | 132 | 4.4 | 115 | " " " # 53 | 40 | 540 | | | | | 43 | 55 | |
| | 19:58 | | | | | " " " # 54 | | | | | | | | | |
| | 20:00 | 2344.73 | 127 | 4.4 | 125 | 9 36.478 84 56.633 | 40 | 565 | | | | | 43 | 80 | |
| 103 | 20:05 | 2345.08 | 128 | 4.7 | 126 | PASSING OVER OBS # 55 | 40 | 580 | | | | | 43 | 95 | |
| | 20:12 | 2345.64 | 125 | 4.4 | 141 | " " " # 56 | 40 | 602 | | | | | 44 | 17 | |
| | 20:14 | | | | | LOST NAVIGATION | | | | | | | | | |
| | 20:18 | | 127 | | | RESET CLOCK | 40 | 624 | | | | | 44 | 35 | |
| | 20:20 | | 128 | | | NAVIGATION RECOVERED | | | | | | | | | |
| | 20:22 | | | | | GUN 15 ENOUT 17 OUT IN (WATER) | 40 | 636 | | | | | 44 | 47 | |
| | 20:25 | | | | | Out of 3D Box | | | | | | | | | |
| | 20:28 | | | | | FULL GUN ARRAY | | | | | | | | | |
| | 20:30 | 2347.07 | 124 | 4.9 | 183 | 9 34.808 84 54.673 | 40 | 662 | | | | | 44 | 69 | |
| | 21:00 | 2349.58 | 120 | 5.0 | 295 | 9 33.160 84 52.731 | 40 | 754 | | | | | 45 | 61 | |
| | 21:03 | | | | | GUN 15 BACK IN THE WATER | 40 | 764 | | | | | 45 | 71 | |
| | 21:30 | 2352.03 | 125 | 4.5 | 391 | 9 31.555 84 50.832 | 40 | 847 | | | | | 46 | 54 | |
| | 21:35 | | | | | Stop/Start SEWARD | | | | | | | | | |
| 103 | 22:00 | 2354.6 | 127.7 | 5.8 | 428 | 9 29.899 N 84 48 874 W | 40 | 941 | | | | | 47 | 48 | |
| 103 | 22:30 | 2357.3 | 129.3 | 5.5 | 441 | 9 28.205 N 84 46 883 W | 41 | 037 | | | | | 48 | 44 | |
| | 22:57 | 2359.8 | | | | Reset true time - datum | | | | | | | | | |
| 103 | 23:00 | 2360.0 | 136.8 | 5.2 | 317 | 9 26.515 N 84 44.888 W | 41 | 132 | | | | | 49 | 39 | |
| | 23:01 | 2360.2 | 133.7 | 5.4 | 288 | 9 26.438 N 84 44.797 W | 41 | 134 | | | | | 49 | 41 | |
| | | | | | | End of line 240 | | | | | | | | | |

END OF EXPERIMENT 2

| DATE | TIME | PIT LOG | HDS | | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|-------|-------|-------|--|-----|-----|-----|-----|-----|-----|
| | | | CSE | SPD | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 103 | 23:30 | 2362.8 | 220 | 4.6 | 444 | 9° 24.370 N 84° 45.776 W | | | | | | |
| 104 | 00:00 | 2364.7 | 1595 | 6.0 | 440 | 9° 23.204 N 84° 45.699 W | | | | | | |
| 104 | 00:30 | 2369.4 | 320 | 9.9 | 623 | 9° 26.742 N 84° 48.789 W | | | | | | |
| 104 | 01:00 | 2374.2 | 320 | 9.5 | 421 | 9° 30.508 N 84° 52.008 W | | | | | | |
| 104 | 01:30 | 2379.2 | 295 | 10.0 | 272.1 | 9° 33.343 N 84° 56.286 W | | | | | | |
| 104 | 01:54 | | 2623 | 12 | 26.5 | 09 34.527 N 084 58.630 W OBH # 44 on surface | | | | | | |
| 104 | 01:57 | 2381.74 | 284 | 1.22 | 151.4 | 09 34.575 N 084 58.686 W OBH # 44 on deck surface | | | | | | |
| 104 | 02:10 | 2382.07 | 87 | 1.29 | 149.7 | 09 34.734 N 084 58.669 W OBH # 44 on deck | | | | | | |
| 104 | 02:30 | 2383.97 | 194 | 8.62 | 167.7 | 09 33.232 N 084 59.670 W | | | | | | |
| 104 | 02:44 | 2385.07 | 192 | 30.10 | 197.3 | 09 32.119 N 085 00.009 W OBH # 35 on surface | | | | | | |
| 104 | 03:00 | 2385.37 | 170.7 | 0.12 | 190.6 | 09 32.130 N 085 00.159 W | | | | | | |
| 104 | 03:01 | 2385.37 | 166.7 | 0.22 | 188.3 | OBH # 35 on deck 09 32.123 N 085 06.172 W | | | | | | |
| 104 | 03:08 | 2385.52 | 323 | 4.62 | 180.9 | 09 32.130 N 085 00.365 W ↑ OBH # 33 on surface | | | | | | |
| 104 | 03:30 | 2386.63 | 330.8 | 0.92 | 132.9 | 09 33.010 N 085 01.174 W | | | | | | |
| 104 | 03:31 | 2386.64 | 331 | 0.82 | 133.1 | 09 33.016 N 085 01.189 W ↑ OBH # 33 on deck | | | | | | |
| 104 | 04:00 | 2386.99 | 359 | 0.72 | 119.9 | 09 33.161 N 085 01.597 W | | | | | | |
| | 04:06 | 2387.05 | 346 | 0.92 | 117.1 | 09 33.148 N 085 01.658 W OBH # 31 on surface | | | | | | |
| 104 | 04:20 | 2387.56 | 12.30 | 0.82 | 112.2 | 09 33.521 N 085 01.693 W ↑ OBH # 31 on deck | | | | | | |
| 104 | 04:30 | 2387.65 | 33.1 | 0.62 | 109.9 | 09 33.553 N 085 01.720 W | | | | | | |
| 104 | 04:58 | 2388.16 | 119.3 | 5.72 | 106.6 | 09 34.527 N 084 58.630 W OBH # 32 on surface | | | | | | |
| 104 | 05:00 | 2388.25 | 115.1 | 5.32 | 111.8 | 09 33.697 N 085 01.630 W | | | | | | |

| DATE | TIME | PIT LOG | H06 | | DEPTH | REMARKS | A | | B | | C | |
|------|------|---------|-------|------|-------|---|-----|-----|-----|-----|-----|-----|
| | | | CSE | SPD | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 104 | 0515 | 2388.78 | 113 | 0.72 | 129.7 | 09 33.136 N 085 01.196 W OBH #32 on surface deck | | | | | | |
| 104 | 0530 | 2388.92 | 69 | 1.12 | 132.9 | 09 33.086 N 085 01.159 W | | | | | | |
| 104 | 0600 | 2389.64 | 122.7 | 0.72 | 154.5 | 09 32.578 N 085 00.687 W | | | | | | |
| 104 | 0605 | | | | | 09 32.573 N 085 00.680 W OBS #34 on surface | | | | | | |
| 104 | 0621 | 2390.13 | 89.3 | 1.22 | 170.0 | 09 32.522 N 085 00.388 W OBS #34 on deck | | | | | | |
| 104 | 0630 | 2390.45 | 121.0 | 4.12 | 190.7 | 09 32.344 N 084 59.932 W | | | | | | |
| 104 | 0700 | 2391.34 | 163.0 | 0.82 | 246.0 | 09 31.824 N 084 59.432 W | | | | | | |
| 104 | 0730 | 2392.04 | 339.0 | 2.12 | 230.8 | 09 31.669 N 084 59.851 W | | | | | | |
| 104 | 0800 | 2394.36 | 49.5 | 9.40 | 234.8 | 09 33.079 N 084 58.080 W | | | | | | |
| 104 | 0804 | 2394.93 | 12.8 | 3.70 | 221.5 | 09 33.314 N 084 57.820 W OBS #46 on surface (#36 shipped) | | | | | | |
| 104 | 0820 | 2395.44 | 34.5 | 1.10 | 210.8 | 09 33.719 N 084 57.631 W OBS #46 on deck | | | | | | |
| 104 | 0830 | 2395.70 | 301.3 | 3.20 | 202.7 | 09 33.840 N 084 57.711 W | | | | | | |
| 104 | 0840 | 2396.24 | 240.3 | 2.90 | 184.3 | 09 33.987 N 084 58.061 W OBS #36 on surface | | | | | | |
| 104 | 0900 | 2398.42 | 200.4 | 1.70 | 250.0 | 09 31.884 N 084 59.299 W | | | | | | |
| 104 | 0910 | 2398.70 | 171.5 | 0.80 | 268.5 | 09 31.603 N 084 59.391 W OBS #36 on deck | | | | | | |
| 104 | 0911 | 2398.95 | 77.7 | 8.00 | 261.0 | 09 31.645 N 084 59.329 W OBS #45 on surface | | | | | | |
| 104 | 0930 | 2401.27 | 378 | 4.50 | 197.6 | 09 33.671 N 084 58.298 W | | | | | | |
| 104 | 0940 | 2401.63 | 62.2 | 0.50 | 200.8 | 09 33.703 N 084 58.100 W OBS #45 on deck | | | | | | |
| 104 | 1000 | 2403.11 | 344.0 | 6.50 | 151.2 | 09 34.477 N 084 59.114 W | | | | | | |
| 104 | 1008 | 2403.55 | 21.5 | 1.40 | 142.2 | 09 34.672 N 084 59.072 W OBS #43 on surface | | | | | | |
| 104 | 1026 | 2403.91 | 96.7 | 1.10 | 146.5 | 09 34.644 N 084 59.002 W OBS #43 on deck | | | | | | |
| 104 | 1030 | 2403.94 | 26.7 | 0.30 | 148.4 | 09 34.584 N 084 58.984 W | | | | | | |
| 104 | 1100 | 2404.96 | 15.0 | 9.00 | 133.0 | 09 34.752 N 084 59.470 W | | | | | | |
| 104 | 1109 | 2405.53 | 13.0 | 1.50 | 128.2 | 09 35.151 N 084 59.372 W OBS #42 on surface | | | | | | |
| 104 | 1114 | 2405.58 | 7.0 | 0.90 | 126.1 | 09 35.147 N 084 59.392 W OBS #42 on deck | | | | | | |
| 104 | 1130 | 2406.33 | 356.8 | 4.70 | 108.3 | 09 35.688 N 084 59.643 W | | | | | | |
| 104 | 1200 | 2409.13 | 71.5 | 8.80 | 78.64 | 09 37.152 N 084 58.875 W OBS #51 on surface | | | | | | |
| 104 | 1223 | 2410.80 | 147.3 | 1.30 | 86.54 | 09 37.179 N 084 58.275 W OBS #51 on deck | | | | | | |
| 104 | 1230 | 2410.99 | 88.7 | 4.70 | 91.84 | 09 36.984 N 084 58.201 W | | | | | | |

| DATE | TIME | PIT LOG | HDB CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|------------|------|-------|---|-----|-----|-----|-----|-----|-----|
| | | | | | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 104 | 1242 | 2411.24 | 25.5 | 1.00 | 94.04 | 09 37.146 N 084 57.661 W OBH #52 on surface | | | | | | |
| 104 | 12:59 | 2412.26 | 25.1 | 1.60 | 94.24 | 09 37.006 N 084 57.749 W OBH #52 on deck | | | | | | |
| 104 | 13:00 | 2412.13 | 146.3 | 2.10 | 94.94 | 09 34.756 N 084 57.801 W | | | | | | |
| 104 | 1319 | 2414.41 | 261.1 | 1.02 | 101.2 | 09 35.696 N 084 59.720 W OBH #41 on surface | | | | | | |
| 104 | 1330 | 2414.67 | 160.8 | 1.32 | 99.93 | 09 35.447 N 084 59.959 W OBH #41 on deck | | | | | | |
| 104 | 1400 | 2418.36 | 64.7 | 1.62 | 119.0 | 09 36.293 N 084 56.873 W | | | | | | |
| | 1419 | 2418.94 | 63.3 | 0.72 | 123 | 09 36.211 N 84 56.565 W OBH 55 ON DECK | | | | | | |
| | 1430 | 2419.25 | 49 | 5.0 | 117 | 9 36.414 84 56.375 | | | | | | |
| 104 | 1500 | 2421.92 | 77.7 | 0.7 | 95.6 | 09 37.256 84 54.558 | | | | | | |
| | 1524 | 2422.33 | 93 | 0.7 | 94.8 | 9 37.919 84 54.544 OBH #66 ON DECK | | | | | | |
| 104 | 1530 | 2422.42 | 66 | 1 | 94.6 | 9° 37.895' N 84° 54.616' W | | | | | | |
| | 1600 | 2423.89 | 41 | 2.02 | 96 | 9° 39.120' N 84° 55.788' W | | | | | | |
| 104 | 1613 | 2424.20 | 142 | .7 | 96 | 9° 39.099' N 84° 55.698' W OBH #63 on DECK | | | | | | |
| | 1630 | 2428.87 | 10 | 1.72 | 89 | 9 39.525 84 56.204 | | | | | | |
| | 1659 | | | | | 9 39.847 84 56.605 OBH #61 ON DECK | | | | | | |
| 104 | 1700 | 2425.42 | 216 | .62 | 84 | 9 39.848 84 56.610 | | | | | | |
| | 1730 | 2427.92 | 75 | 6.8 | 85 | 9 40.695 84 54.466 | | | | | | |
| 104 | 1800 | 2429.22 | 143.7 | 1.3 | 84.93 | 9 40.929 84 53.348 OBH 74 ON DECK | | | | | | |
| | 1900 | 2434.35 | 219 | 6.1 | 98 | 9 37.548 84 57.073 | | | | | | |
| 104 | 1930 | 2435.31 | 128 | .4 | 108 | 9° 36.793' N 84° 57.334' W (Killing time) | | | | | | |
| | 2000 | 2435.64 | 29 | .8 | 109 | 9° 36.848 84° 57.177 " | | | | | | |
| | 20130 | 2436.06 | 29 | .8 | 105 | 9° 37.069 84° 57.148 " | | | | | | |
| 104 | 2100 | 2436.55 | 263 | 1.1 | 103 | 9° 37.256' N 84° 57.071' W " | | | | | | |
| 104 | 21:30 | 2436.96 | 187 | 1.0 | 108 | 9° 37.032' N 84° 57.040' W " | | | | | | |
| 104 | 22:00 | 2437.3 | 174 | 0.42 | 114.3 | 9° 36.571 N 84° 57.162 W | | | | | | |
| 104 | 22:30 | 2437.7 | 168.1 | 0.62 | 109.8 | 9° 36.135 N 84° 57.321 W | | | | | | |
| 104 | 23:00 | 2438.1 | 137 | 1.22 | 119.1 | 9° 35.985 N 84° 57.404 W | | | | | | |
| 104 | 23:30 | 2438.7 | 19.3 | 2.92 | 116.8 | 9° 36.241 N 84° 57.489 W | | | | | | |
| 104 | 23:58 | 2439.98 | 122.8 | 1.29 | 103.6 | 09 37 019 W 084 57 170 W | | | | | | |
| | | | | | | ↑ OBH #53 on surface | | | | | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------------|---------|-------|------|-------------------------|---|-----|--------|----|-----|--------|----|
| | | | | | | | SWP | DEL/LO | HI | SWP | DEL/LO | HI |
| 105 | 00:00 | 2440 | 159.3 | 0.92 | 106.1 | 09 36.987 N 084 57.159 W | | | | | | |
| 105 | 00:07 | 2440.16 | 228.7 | 0.92 | 106.3 | 09 36.821 N 084 57.296 W <u>OBH #53 on surface deck</u> | | | | | | |
| 105 | 00:30 | 2440.66 | 100.7 | 2.02 | 105.5 | 09 36.752 N 084 57.448 W | | | | | | |
| 105 | 01:00 | 2441.67 | 146 | 0.92 | 116.3 | 09 36.715 N 084 56.735 W | | | | | | |
| 105 | 01:02 | 2441.70 | 161 | 0.92 | 116.4 | 09 36.667 N 084 56.751 W <u>↑ OBH #54 on surface</u> | | | | | | |
| 105 | 01:16 | 2441.83 | 314.5 | 1.02 | 115.9 | 09 36.568 N 084 56.945 W <u>↑ OBH #54 on deck</u> | | | | | | |
| 105 | 01:30 | 2442.22 | 113.7 | 3.12 | 117.8 | 09 36.507 N 084 56.950 W | | | | | | |
| 105 | 02:00 | 2443.63 | 122.7 | 1.62 | 133.3 | 09 35.999 N 084 55.889 W <u>↑ OBH #55 on surface</u> | | | | | | |
| | (01:59:30s) | | | | | | | | | | | |
| 105 | 02:16 | 2443.88 | 280.3 | 0.92 | 129.6 | 09 35.962 N 084 56.166 W <u>↑ OBH #56 on deck</u> | | | | | | |
| 105 | 02:30 | 2444.8 | 345 | 4.92 | 113.2 | 09 36.749 N 84 55.891 W | | | | | | |
| 105 | 02:55 | 2446.75 | 153 | 4.02 | 254 94.81 | 09 38.082 N 084 54.759 W OBH #65 heard but not yet seen (hardly) | | | | | | |
| 105 | 03:00 | 2446.95 | 8.0 | 1.22 | 93.31 | 09 38.307 N 084 54.766 W | | | | | | |
| 105 | 03:07 | 2447.04 | 29 | 0.92 | 99.71 | 09 38.416 N 084 54.808 W <u>OBH #65 on surface</u> | | | | | | |
| 105 | 03:19 | 2447.31 | 114 | 0.82 | 93.11 | 09 38.404 N 084 54.677 W <u>↑ OBH #65 on deck</u> | | | | | | |
| 105 | 03:30 | 2447.41 | 104.7 | 0.52 | 93.71 | 09 38.464 N 084 54.710 W | | | | | | |
| 105 | 03:57 | 2447.72 | 280.8 | 0.82 | 99.04 | 09 38.840 N 084 54.953 W <u>↑ OBH #64 on surface</u> | | | | | | |

LDGO
MAIN LAB LOG

CRUISE EW 9502

PAGE 62

| DATE | TIME | PIT LOG | HDG | | | REMARKS | A | | B | | C | |
|------|-------|---------|-------|------|-------|---|-----|--------|----|-----|--------|----|
| | | | CSE | SPD | DEPTH | | SWP | DEL/LO | HI | SWP | DEL/LO | HI |
| 105 | 04:14 | 2448.0 | 237.8 | 0.52 | 99.06 | 09 38 881 N 084 55 094 W OBH # 61 on deck ↑ | | | | | | |
| 105 | 04:30 | 2448.2 | 285.1 | 0.42 | 96.5 | 9° 39 129 N 84° 55 229 W | | | | | | |
| 105 | 05:00 | 2448.0 | 312.3 | 0.62 | 89.95 | 09 39 662 N 084 55 834 W | | | | | | |
| 105 | 05:02 | 2448.75 | 304 | 0.72 | 90.45 | 09 39 692 N 084 55 849 W ↑ OBH # 62 on surface | | | | | | |
| 105 | 05:18 | 2449.2 | 132.3 | 0.92 | 91.55 | 09 39 555 N 084 55 847 W ↑ OBH # 62 on deck | | | | | | |
| 105 | 05:30 | 2443.5 | 31.0 | 4.32 | 88.2 | 9° 39 959 N 84° 55 624 W | | | | | | |
| 105 | 06:00 | 2451.94 | 106.3 | 1.12 | 74.55 | 09 41 985 N 084 54 210 W ↑ OBH # 71 on surface | | | | | | |
| 105 | 0627 | 2452.41 | 178.8 | 0.32 | 73.85 | 09 41 947 N 084 54 487 W OBH # 71 on deck | | | | | | |
| 105 | 0630 | 2452.53 | 172.5 | 0.92 | 71.45 | 09 42 221 N 084 54 600 W | | | | | | |
| 105 | 0700 | 2454.51 | 4.0 | 1.12 | 83.05 | 09 41.092 N 084 53.585 W | | | | | | |
| 105 | 0705 | 2454.59 | 24.1 | 0.22 | 84.65 | 09 41.194 N 084 53.577 W OBS # 73 on surface | | | | | | |
| 105 | 0713 | 2454.70 | 33.0 | 0.22 | 83.25 | 09 41.182 N 084 53.642 W OBS # 73 on deck | | | | | | |
| 105 | 0730 | 2455.43 | 145.7 | 4.02 | 86.25 | 09 40.740 N 084 53.164 W | | | | | | |
| 105 | 0800 | 2456.46 | 6.1 | 0.12 | 86.25 | 09 40.242 N 084 52.333 W | | | | | | |
| 105 | 0805 | 2456.48 | 352.0 | 0.62 | 87.35 | 09 40.266 N 084 52.334 W OBS # 75 on surface | | | | | | |
| 105 | 0812 | 2456.65 | 350.5 | 1.02 | 86.60 | 09 40 294 N 084 52 823 W OBS # 75 on deck | | | | | | |
| 105 | 0830 | 2457.41 | 163.7 | 1.32 | 87.05 | 09 40.085 N 084 52.448 W | | | | | | |
| 105 | 0900 | 2457.64 | 190.8 | 0.52 | 87.65 | 09 40.171 N 084 52.476 W OBS # 76 on surface | | | | | | |
| 105 | 0924 | 2458.00 | 150.5 | 1.12 | 88.35 | 09 39.922 N 084 52.426 W OBS # 76 on deck | | | | | | |
| 105 | 0930 | 2458.49 | 129.1 | 9.22 | 86.25 | 09 39.536 N 084 51.995 W | | | | | | |
| 105 | 1000 | 2463.14 | 124.7 | 9.30 | 94.95 | 09 36.482 N 084 48.419 W heading toward # 77 | | | | | | |
| 105 | 1030 | 2466.16 | 61.1 | 0.30 | 106.4 | 09 34.482 N 084 46.264 W OBS # 77 on surface | | | | | | |
| 105 | 1042 | 2466.39 | 51.5 | 0.40 | 107.5 | 09 34.598 N 084 46.337 W OBS # 77 on deck | | | | | | |

| DATE | TIME | PIT LOG | HPS CSE | SPD | DEPTH | REMARKS | A | | | B | | | C | | |
|------|-------|---------|------------|------|---------|--|-----|-----|----|----|-----|-----|----|----|-----|
| | | | | | | | SWP | DEL | LO | HI | SWP | DEL | LO | HI | SWP |
| 105 | 1100 | 2467.69 | 250.3 | 9.30 | 133.0 | 09 33.969 N 084 47.706 W | | | | | | | | | |
| 105 | 1130 | 2472.49 | 250.0 | 9.10 | 342.7 | 09 32.249 N 084 52.562 W | | | | | | | | | |
| 105 | 1200 | 2476.52 | 255.7 | 7.30 | 377.1 | 09 30.960 N 084 56.654 W | | | | | | | | | |
| 105 | 1230 | 2479.97 | 254.0 | 6.80 | 329.7 | 09 29.874 N 085 00.193 W | | | | | | | | | |
| 105 | 1300 | 2483.34 | 254.3 | 4.10 | 357.3 | 09 28.758 U 085 03.543 W | | | | | | | | | |
| 105 | 1330 | 2486.96 | 2.5 | 6.30 | 402.7 | 09 28.485 N 085 04.346 W | | | | | | | | | |
| 105 | 1337 | 2487.21 | 62.3 | 0.70 | 371.6 | 09 28.643 U 085 04.323 W OBS#28 on surface | | | | | | | | | |
| 105 | 1350 | 2487.47 | 62.5 | 0.60 | 378.9 | 09 28.638 U 085 04.367 W OBS#28 on deck | | | | | | | | | |
| 105 | 1400 | 2487.71 | 221 | 5.7 | \$405. | 9 28.441 85 4.509 | | | | | | | | | |
| | 1430 | 2491.21 | 213 | 7.2 | 642 | 9 25 738 85 6 .627 | | | | | | | | | |
| | 1456 | | | | | OBSX 27 on surface | | | | | | | | | |
| | 15:00 | 2493.22 | 21 | 1.7 | 1268 | 9 24.420 857.830 | | | | | | | | | |
| | 15:06 | 2493.40 | 18 | 1.1 | 1207 | 9 24.552 857.746 OBS X 27 ON BOARD | | | | | | | | | |
| | 15:30 | 2497.00 | 105 | 11.1 | 1178 | 9 23.895 854.401 | | | | | | | | | |
| | | | | | | <u>DE CAMINO A EXPERIMENTO</u> * 3 | | | | | | | | | |
| | 16:00 | 2502.59 | 108 | 10.8 | 1201 | 9° 22.102 84° 57.084 | | | | | | | | | |
| 105 | 16:30 | 2508.02 | 105 | 10.7 | 1750 | 9° 20.47' N 84° 53.95' W In transit | | | | | | | | | |
| | 17:00 | 2513.48 | 105 | 10.9 | 1172 | 9 18.737 8448.757 " | | | | | | | | | |
| | 17:30 | 2518.83 | 105 | 10.5 | 1114 | 9 17.382 8443.552 " | | | | | | | | | |
| | 18:00 | 2524.31 | 103 | 11.5 | 98 | 9 16.001 8438.158 " | | | | | | | | | |
| | 1830 | 2529.66 | 104 | 10.8 | 1165.64 | 9 14.733 8432.526 " | | | | | | | | | |
| | 1900 | 2535.02 | 104 | 10.9 | 661 | 9 13.970 8427.200 " | | | | | | | | | |
| 105 | 1930 | 2540.40 | 105 | 11.0 | 493 | 9° 12.565' N 84° 21.751' W " | | | | | | | | | |
| 105 | 2000 | 2545.87 | 114 | 11.0 | 427 | 9° 10.32' N 84° 16.451' W " | | | | | | | | | |
| | 2030 | 2551.46 | 109 | 11.2 | 148 | 9° 07.952 84° 11.238 " | | | | | | | | | |
| | 2100 | 2557.02 | 106 | 10.9 | 111 | 9° 06.356 8405.807 " | | | | | | | | | |
| 105 | 2130 | 2562 | 109 | 10.6 | 109 | 9° 04.257 8401.215 " | | | | | | | | | |
| | 2200 | 2567.85 | 214 | 10.6 | 97 | 8° 59.741 84° 04.118 " | | | | | | | | | |
| 105 | 22:30 | 2573 | 2148 | 10.9 | 96.6 | 8° 55.116 N 84°.07.153 W | | | | | | | | | |

CRUISE EW 9502.

425

[illegible]

| DATE | TIME | PIT LOG | HOB CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|----------------|-----------------|--------------------|------------------|------|--------|---|-----|--------|-----|--------|-----|--------|
| | | | | | | | SWP | DEL/LO | SWP | DEL/LO | SWP | DEL/LO |
| 106 | 1300 | 2606.95 | 119.3 | 8.25 | 106.54 | 09 03.862N 083 59.312W heading toward OBS #99 | | | | | | |
| 106 | 1330 | 2611.51 | 120.5 | 9.55 | 98.034 | 09 01.327N 083 55.415W | | | | | | |
| 106 | 1400 | 2616.14 | 120.7 | | | | | | | | | |
| 106 | 1400 | 2616 | 120 | 9.5 | 93.2 | 8 58.686 83 51.345 | | | | | | |
| | 14:30 | 2620.78 | 107 | 4.5 | 87.7 | 8° 56.226 83 47.579 (500m) From STATION 99 | | | | | | |
| 106 | 14:50 | 2621.31 | 228 | 9.1 | 86.13 | 8° 56.016N 83° 47.146 W OBH 99 Deployed | | | | | | |
| | 14:52 | | | | | Under way to station 97 | | | | | | |
| | 15:00 | 2622.39 | 340 | 9.5 | 88.3 | 8° 56.799 83° 47.607 | | | | | | |
| | 15:30 | 2626.93 | 345 | 9.1 | 86.6 | 9° 01.151 83° 49.013 | | | | | | |
| | 16:00 | 2631.56 | 347 | 9.1 | 71.8 | 9° 05.657 83° 50.280 | | | | | | |
| 106 | 16:22 | 2633.91 | 328 | 1.0 | 60.1 | 9° 8.029N 83° 50.861' W OBH 97 Deployed | | | | | | |
| 106 | 16:30 | 2634.49 | 201 | 8.5 | 64 | 9 7.555 83 51.206 | | | | | | |
| | 17:00 | 2636.74 | 225 | 0.4 | 78 | 9° 05.479 83 51.924 OBH 95 SINKING | | | | | | |
| | 17:30 | 2639.46 | 231 | 0.5 | 96.4 | 9° 02.987 83 52.990 OBH 93 DEPLOYED | | | | | | |
| | 1800 | 2643 | 200 | 9.5 | 81.0 | 8 59.249 83 54.627 | | | | | | |
| | 1816 | 2644.82 | 115 | 0 | 68.1 | 8 57.582(?) 83 55.086 OBH 91 Deployed | | | | | | |
| | 1830 | 2646.63 | 200 | 9.5 | 61.2 | 8 56.183 83 55.41 | | | | | | |
| | 1859 | 2650.19 | 185 | 0.3 | 64.7 | 8 52.997 83 57.199 OBH 89 DEPLOYED | | | | | | |
| | 19:00 | 2650.21 | 188 | 1.2 | 65 | 8 52.992 83 57.199 | | | | | | |
| | 19:30 | 2654.49 | 204 | 9.2 | 79 | 8 48.028 83 58.840 | | | | | | |
| | 19:43 | 2655.54 | 197 | 0.2 | 85.8 | 8 48.006 83 59.313 OBH 87 DEPLOYED | | | | | | |
| | 2000 | 2657.76 | 200 | 9.1 | 95 | 8 45.971 84 00.200 | | | | | | |
| | 2026 | 2660.86 | 177 | .4 | 116 | 8° 43.003 84 01.452 OBH 85 DEPLOYED | | | | | | |
| | 2030 | 2661.00 | 192 | 3.2 | 116.7 | 8° 42.891 84 01.434 | | | | | | |
| | 2100 | 2665.35 | 210 | 9.4 | 237 | 8° 38.968 84 03.441 | | | | | | |
| | 2124 | | | | | 8° 37.982 84 03.573 OBH 83 Deployed | | | | | | |
| | 2130 | 2666.50 | 199 | 3.42 | 299 | 8° 37.921 84 03.564 | | | | | | |
| | 22:00 | 2671.0 | 204 | 9.22 | 865 | 8° 33.658N 84° 05.520 | | | | | | |
| | 22:14 | 2671.8 | 1633 | 0.42 | 1026 | 8° 32.985N 84° 05.626 OBH 81 Deployed | | | | | | |
| | 22:30 | 2673.7 | 203 | 9.3 | 1427.3 | 8° 31.138N 84° 06.457W | | | | | | |

| DATE | TIME | PIT LOG | HDB CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|------------|--------|--------|--------------------------------------|-----|--------|-----|--------|-----|--------|
| | | | | | | | SWP | DEL LO | SWP | DEL LO | SWP | DEL LO |
| 106 | 23:00 | 2678.54 | 20.33 | 9.5 | 230.3 | 08 26.851 N 084 08.401 W | | | | | | |
| 106 | 23:30 | 2682.62 | 19.8 | 10.30 | 227.8 | 08 23.016 N 084 09.871 W | | | | | | |
| 106 | 23:31 | 2682.63 | 19.0 | 0.7 | 2074.2 | 08 23.008 N 084 09.871 W | | | | | | |
| | | | | | 2074.2 | ↑ OBS # 78 deployed | | | | | | |
| 106 | 23:33 | 2682.64 | 15.37 | 1.5 | 2078.2 | underway to 179 (OBS # 79) | | | | | | |
| 107 | 00:00 | 2686.61 | 23.8 | 9.60 | 2241.1 | 08 26.566 N 084 08.250 W | | | | | | |
| 107 | 00:17 | 2688.16 | 33.68 | 0.90 | 2216.2 | 08 27.999 N 084 07.762 W | | | | | | |
| | | | | | | ↑ OBS # 79 deployed | | | | | | |
| 107 | 00:30 | 2689.7 | 21.3 | 9.5 | 1817.3 | 8° 29.501 N 84° 07.113 W | | | | | | |
| 107 | 00:40 | 2690.83 | 33.83 | 0.6 | 1504.3 | 08 30.495 N 084 06.680 W | | | | | | |
| | | | | | | ↑ OBS # 80 deployed | | | | | | |
| 107 | 01:00 | 2693.6 | 19.5 | 9.7 | 994.4 | 8° 33.202 N 84° 05.580 W | | | | | | |
| 107 | 01:19 | 2696.19 | 96.10 | 0.30 | 522.63 | 08 35.478 N 084 04.588 W | | | | | | |
| | | | | | | ↑ OBS # 82 deployed | | | | | | |
| 107 | 01:30 | 2697.3 | 17.3 | 5.4 | 408 | 8° 36.800 N 84° 04.017 W | | | | | | |
| 107 | 02:00 | 2701.67 | 27.22 | 140.83 | | 08 40.436 N 084 02.522 W | | | | | | |
| 107 | 02:05 | 2701.78 | 19.50 | 10.10 | 0.03 | 08 40.508 N 084 02.483 W | | | | | | |
| | | | | | | ↑ OBS # 84 deployed | | | | | | |
| 107 | 02:06 | 2701.79 | 18.50 | 7.13 | 9.53 | underway now 0840.499 N 084 02.485 W | | | | | | |
| 107 | 02:30 | 2704.8 | 24.5 | 8.6 | 113.2 | 8° 43.287 N 84° 01.355 W | | | | | | |
| 107 | 02:59 | 2707.49 | 18.7 | 1.10 | 97 | 08 45.519 N 084 00.376 W | | | | | | |
| | | | | | | ↑ OBS # 86 deployed | | | | | | |
| 107 | 03:00 | 2707.51 | 23.8 | 1.50 | 96.3 | 08 45.529 N 084 00.371 W | | | | | | |
| | | | | | | Underway | | | | | | |
| 107 | 03:30 | 2711.4 | 24.1 | 9.1 | 78.9 | 8° 49.162 N 83° 58.857 W | | | | | | |
| 107 | 03:47 | 2713.0 | 19.0 | 0.6 | 72.9 | 8° 50.520 N 83° 58.228 W | | | | | | |
| | | | | | | ↑ OBS # 88 deployed | | | | | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|-------|------|--------|---|-----|-----|-----|-----|-----|-----|
| | | | | | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 107 | 04:00 | 2714.5 | 20.3 | 9.0 | 66.3 | 8° 51.980 N 83° 52.614 W | | | | | | |
| 107 | 04:30 | 2718.48 | 23.7 | 19.0 | 59.5 | 08 55.465 N 083 56.155 W | | | | | | |
| 107 | 04:36 | 2718.56 | 35.5 | 1.10 | 58.7 | 08 55.511 N 083 56.138 W | | | | | | |
| 107 | 05:00 | 2721.99 | 26.0 | 8.60 | 75.0 | 08 58.597 N 083 54.852 W ↑ OBS # 90 deployed | | | | | | |
| 107 | 05:23 | 2724.10 | 24 | 1.60 | 96.8 | 09 00.502 N 083 54.000 W ↑ OBS # 92 deployed | | | | | | |
| 107 | 05:30 | 2724.5 | 17.7 | 8.7 | 97.3 | 9° 00.950 N 83° 53.805 W | | | | | | |
| 107 | 0600 | 2728.20 | 30.0 | 1.20 | 87.503 | 09 04.284 N 083 52.432 W | | | | | | |
| 107 | 0601 | 2728.23 | 46.7 | 0.6 | 89.003 | 09 04.297 N 083.52.422 W OBS #94 deployed | | | | | | |
| 107 | 0629 | 2730.81 | 27.0 | 1.00 | 72.203 | 09 06.770 N 083 51.350 W OBS #96 deployed | | | | | | |
| 107 | 0657 | 2733.43 | 4.3 | 1.30 | 51.503 | 09 09.266 N 083 50.304 W OBS #98 deployed | | | | | | |
| 107 | 0700 | 2733.46 | 5.3 | 0.90 | 51.003 | 09 09.312 N 083 50.294 W | | | | | | |
| 107 | 0730 | 2737.55 | 26.0 | 9.20 | 41.503 | 09 09.796 N 083 54.431 W | | | | | | |
| 107 | 0800 | 2742.14 | 24.1 | 9.50 | 81.303 | 09 10.517 N 083 59.087 W | | | | | | |
| 107 | 0830 | 2746.26 | 23.5 | 9.40 | 91.403 | 09 11.223 N 084 03.761 W | | | | | | |
| 107 | 0900 | 2751.53 | 27.8 | 9.21 | 104.33 | 09 11.832 N 084 08.439 W | | | | | | |
| 107 | 0930 | 2755.94 | 30.2 | 4.00 | 143.63 | 09 12.543 N 084 12.690 W | | | | | | |
| 107 | 1000 | 2757.41 | 126.1 | 2.20 | 164.73 | 09 12.918 N 084 13.248 W | | | | | | |
| 107 | 1030 | 2759.38 | 122.0 | 4.20 | 132.23 | 09 11.701 N 084 11.468 W | | | | | | |
| 107 | 1100 | 2761.77 | 120.0 | 4.60 | 113.33 | 09 10.492 N 084 09.340 W | | | | | | |
| 107 | 1130 | 2764.00 | 130.0 | 4.60 | 113.03 | 09 09.264 N 084 07.427 W | | | | | | |
| 107 | 1200 | 2766.48 | 129.2 | 4.60 | 109.43 | 09 07.847 N 084 05.390 W SOL #303 | 41 | 123 | | | | |
| 107 | 1202 | | | | | started recording shot no 41128 | 41 | 128 | | | | 2 |
| | | | | | | datum caused too many problems - not being used | | | | | | |
| 107 | 1211 | 2767.29 | 126.3 | 4.40 | 103.73 | problems!! have only recorded 10 shots | | | | | | |
| | | | | | | 09 07.376 N 084 04.654 W stopped shooting | | | | | | |
| | | | | | | ~ 5 minutes ago | | | | | | |
| 107 | 1220 | 2768.02 | 127.8 | 4.10 | 101.73 | 09 07.026 N 084 04.118 W started shooting again | 41 | 169 | | | | |

~ 2300m from beginning of line

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | | B | | | C | | | |
|----------------|-----------------|---------|-------|------|--------|--|-----|-----|-----|----|-----|-----|----|----|-----|------|
| | | | | | | | SWP | DEL | LO | HI | SWP | DEL | LO | HI | SWP | DEL |
| 107 | 1228 | | | | | 09 06.706 N 084 03.622W stopped shooting again ~ sh# 41190 | | | | | | | | | | File |
| 107 | 1230 | 2768.64 | 131.5 | 3.70 | 101.63 | 09 06.657 N 084 03.547W | | | | | | | | | | |
| 107 | 1231 | | | | | started shooting again sh# 41196, ~ 4 km down line | | | | | | | | | | |
| 107 | 1246 | | | | | did not start line w/ full array (guns 1, 2, 14, 18, 19 off) new 18 & 19 on | | | | | | | | | | |
| 107 | 1253 | | | | | gun 1 back in | | | | | | | | | | |
| 107 | 1256 | | | | | gun 10 off | | | | | | | | | | |
| 107 | 1300 | 2770.56 | 123.3 | 3.90 | 99.803 | 09 05.588 N 084 01.897W | | | | | | | | | | |
| 107 | 1303 | | | | | gun 10 back in | | | | | | | | | | |
| 107 | 1314 | 2771.59 | 124.0 | 4.00 | 104.13 | 09 05.008 N 084 00.996W <u>over OBH #100</u> , gun 10 off again for 5 minutes | | | | | | | | | | |
| 107 | 1330 | 2772.69 | 122.3 | 3.20 | 105.23 | 09 04.391 N 084 00.047W | | | | | | | | | | |
| 107 | 1400 | 2774.76 | 124 | 4.2 | 104 | 9 3.310 83 58.331 W | 41 | | 421 | | | | | | | 240 |
| 107 | 1430 | 2776.78 | 121 | 4 | 104 | 9 2.201 83 56.656 W | 41 | | 495 | | | | | | | 322 |
| 107 | 1500 | 2778 | 119 | 4 | 95 | 9 01.100 83 54.955 | 41 | | 569 | | | | | | | 398 |
| 107 | 1530 | 2780.87 | 126 | 41 | 91.9 | 8 59.966 83 53.197 | 41 | | 645 | | | | | | | 472 |
| 107 | 1600 | 2782.88 | 125 | 3.7 | 94 | 8 58.872 83 51.509 | 41 | | 720 | | | | | | | 547 |
| | 1630 | 2784.84 | 124 | 4.1 | 94 | 8 57.758 83 49.785 | | | | | | | | | | |
| | 1700 | 2786.78 | 121 | 3.9 | 90 | 8 56.661 83 48.091 | 41 | | 875 | | | | | | | 698 |
| 107 | 1717 | 2787.93 | 119 | 3.9 | 85.9 | 8 56.03 83 47.12 <u>over OBH 99</u> | | | | | | | | | | |
| | 1730 | 2788.77 | 118 | 4 | 84 | 8 55.556 83 46.386 | 41 | | 945 | | | | | | | 772 |
| | 1800 | 2790.84 | 124 | 4.5 | 80 | 8 54.445 83 44.650 | 42 | | 020 | | | | | | | 843 |
| 107 | 1830 | 2792 | 125 | 3.8 | 76 | 8 53.351 83 42.941 <u>~ EOL line 302</u> | 42 | | 094 | | | | | | | 921 |
| 107 | 1900 | 2794 | 320 | 4.8 | 72 | 8 54.222 83 42.180 | 42 | | 169 | | | | | | | 37 |
| 107 | 1930 | 2797 | 327 | 4.7 | 74 | 8 56.277 83 42.240 | 42 | | 251 | | | | | | | 119 |
| 107 | 2000 | 2799 | 324 | 4.7 | 75 | 8 58.353 83 44.515 | 42 | | 337 | | | | | | | 205 |
| 107 | 2005 | | | | | | | | | | | | | | | |
| 107 | 2030 | 2801 | 329 | 4.5 | 72 | 9 00.430 83 45.702 | 42 | | 424 | | | | | | | 292 |
| | 2100 | 2804.28 | 333 | 4.4 | 80 | 9 02.471 83 46.352 | 42 | | 512 | | | | | | | 380 |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | | B | | | C | | |
|------|-------|---------|-------|------|-------|--------------------------------------|-----|-----|----|----|-----|-----|----|-----|-----|
| | | | | | | | SWP | DEL | LO | HI | SWP | DEL | LO | HI | SWP |
| 107 | 21:30 | 2806.63 | 334 | 4.8 | 77 | 9 04.532 83 48.005 | 42 | 599 | | | | | | 467 | |
| 107 | 22:00 | 2808.9 | 334 | 4.6 | 65.7 | 9° 06.594 N 83° 49.047 W | 42 | 684 | | | | | | | |
| 107 | 22:30 | 2811.4 | 334.6 | 5.1 | 55.1 | 9° 08.861 N 83° 50.213 W | 42 | 777 | | | | | | 645 | |
| 107 | 22:42 | 2812.5 | 332 | 5.1 | 51.2 | 9° 09.763 N 83° 50.738 W | 42 | 814 | | | | | | 682 | |
| | | | | | | End of <u>line 305</u> . start the | | | | | | | | | |
| | | | | | | turn to the <u>next line</u> | | | | | | | | | |
| 107 | 23:00 | 2813.8 | 108 | 4.9 | 46.6 | 9° 10.657 N 83° 50.372 W | 42 | 859 | | | | | | 727 | |
| 107 | 23:12 | 2814.8 | 198.3 | 4.2 | 49.8 | 9° 09.907 N 83° 50.041 W | 42 | 888 | | | | | | 15 | |
| | | | | | | <u>start the line 301</u> | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 107 | 23:23 | 2815.4 | 198.3 | 3.7 | 53.0 | <u>above OBS #98</u> | 42 | 915 | | | | | | 42 | |
| | | | | | | | | | | | | | | | |
| 107 | 23:30 | 2815.9 | 200.7 | 4.0 | 56.1 | 9° 08.851 N 83° 50.487 W | 42 | 932 | | | | | | 59 | |
| 107 | 23:44 | 2816.76 | 199 | 4.10 | 62.4 | 0808 <u>above OBH #97</u> | 42 | 965 | | | | | | 92 | |
| 107 | 23:49 | 2817.13 | 201.5 | 4.00 | 65.7 | 2D DIF GPS ACQUISITION | | | | | | | | | |
| | | | | | | 09 07.670 N 083 50 986 W | | | | | | | | | |
| 108 | 00:00 | 2817.80 | 198.5 | 4.10 | 70.4 | 09 07.012 N 083 51.263 W | | | | | | | | | |
| 108 | 00:04 | 2818.04 | 198.7 | 3.70 | 72.0 | <u>above OBS #96</u> | 43 | 016 | | | | | | 143 | |
| | | | | | | | | | | | | | | | |
| 108 | 00:24 | 2819.4 | 200.1 | 3.8 | 79 | <u>above OBH #95</u> | 43 | 066 | | | | | | 193 | |
| | | | | | | | | | | | | | | | |
| 108 | 00:30 | 2819.7 | 200.5 | 3.6 | 81.7 | 9° 05 146 N 83° 52.055 W | 43 | 080 | | | | | | 207 | |
| | | | | | | | | | | | | | | | |
| 108 | 00:44 | 2820.6 | 203.7 | 3.8 | 85.2 | <u>above OBS #94</u> | 43 | 114 | | | | | | 241 | |
| | | | | | | | | | | | | | | | |
| 108 | 01:00 | 2821.7 | 203 | 3.9 | 97.9 | 9° 03.275 N 83° 52.850 W | 43 | 155 | | | | | | 282 | |
| | | | | | | | | | | | | | | | |
| 108 | 01:05 | 2822.0 | 203 | 4.0 | 97.4 | <u>above OBH #93</u> | 43 | 167 | | | | | | 294 | |
| | 01:19 | | | | | gun 13 leaking, pulled to fix | 43 | 201 | | | | | | | |
| 108 | 01:30 | 2823.7 | 204 | 4.1 | 99.4 | 9° 01.403 N 83° 53.633 W | 43 | 230 | | | | | | 357 | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | | | | | | | |
|------|-------|---------|-------|------|--------|---|-----|-----|-----|----|-----|-----|----|----|-----|-----|------|----|
| | | | | | | | SWP | DEL | LO | HI | SWP | DEL | LO | HI | SWP | DEL | LO | HI |
| 108 | 01:45 | 2824.7 | 202.8 | 3.8 | 94.6 | <u>above</u> <u>OBS #92</u> | 43 | | 266 | | | | | | | | 393 | |
| 108 | 02:00 | 2825.7 | 207.1 | 3.9 | 82.3 | 8° 59.556 N 83° 54.420 | 43 | | 304 | | | | | | | | 431 | |
| | 02:03 | | | | | gun 13 back again line 301 | | | | | | | | | | | | |
| 108 | 02:25 | 2827.4 | 206.5 | 3.9 | 67.0 | <u>above</u> <u>OBH #91</u> | 43 | | 367 | | | | | | | | 494 | |
| 108 | 02:30 | 2827.7 | 206 | 3.8 | 63.8 | 8° 57.664 N 83° 55.224 W | 43 | | 379 | | | | | | | | 506 | |
| 108 | 03:00 | 2829.6 | 207.1 | 3.7 | 58.5 | 8° 55.777 N 83° 56.020 W | 43 | | 454 | | | | | | | | 581 | |
| 108 | 03:04 | 2830 | 206.3 | 4.10 | 59.5 | <u>above</u> <u>OBS #90</u> | 43 | | 465 | | | | | | | | 592 | |
| 108 | 03:30 | 2831.7 | 198.8 | 3.4 | 61.2 | 8° 53.927 N 83° 56.805 W | 43 | | 530 | | | | | | | | 657 | |
| 108 | 03:45 | 2832.7 | 209.1 | 3.9 | 63.0 | <u>above</u> <u>OBH #89</u> | 43 | | 566 | | | | | | | | 693 | |
| 108 | 04:00 | 2833.65 | 203.3 | 3.80 | 64.113 | 08 52 103 N 083 57 576 W above OBS #88 | 43 | | 666 | | | | | | | | 793 | |
| 108 | 04:25 | 2835.31 | 203.3 | 4.10 | 71. | <u>above</u> <u>OBS #88</u> | 43 | | 666 | | | | | | | | 793 | |
| 108 | 04:30 | 2835.7 | 209.7 | 3.9 | 74.3 | 8° 50.190 N 83° 58.379 W | 43 | | 679 | | | | | | | | 806 | |
| 108 | 05:00 | 2837.6 | 209.7 | 3.8 | 82.1 | 8° 48.330 N 83° 59.169 W | 43 | | 753 | | | | | | | | 880 | |
| 108 | 05:05 | 2838.0 | 210 | 4.0 | 82.7 | <u>above</u> <u>OBH #87</u> | 43 | | 766 | | | | | | | | 893 | |
| 108 | 05:30 | 2839.7 | 209.8 | 4.2 | 90.9 | 8° 46.441 N 83° 59.967 W | 43 | | 829 | | | | | | | | 956 | |
| 108 | 05:44 | 2840.7 | 208.7 | 3.9 | 97.5 | <u>above</u> <u>OBS #86</u> | 43 | | 865 | | | | | | | | 992 | |
| 108 | 06:00 | 2841.7 | 206.3 | 3.6 | 103.8 | 8° 44.552 N 84° 00.773 | 43 | | 904 | | | | | | | | 1031 | |
| 108 | 0630 | 2843.69 | 203.8 | 4.56 | 116.23 | 08 42.697 N 084 01.559 W | | | | | | | | | | | | |
| 108 | 0700 | 2845.73 | 208.3 | 4.00 | 133.43 | 08 40.808 N 084 02.349 W | | | | | | | | | | | | |
| 108 | 6708 | 2846.29 | 206.1 | 3.80 | 145.23 | 08 40.333 N 084 02.553 W over OBS #84 | 44 | | 074 | | | | | | | 12 | 01 | |

| DATE | TIME | PIT LOG | CSF | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|-------|------|--------|---|-----|-----|-----|-----|-----|-----|
| | | | | | | | SWP | DEL | SWP | DEL | SWP | DEL |
| 108 | 0730 | 2847.71 | 210.7 | 3.60 | 193.03 | 08 38.911N 084 03.150W | | | | | | |
| 108 | 0744 | 2848.64 | 208.7 | 4.30 | 191.13 | 08 38.001N 084 02.323W <u>over OBS #83</u> | | | | | | |
| 108 | 0800 | 2849.63 | 207.7 | 5.20 | 189.23 | 08 37.027N 084 03.955W | | | | | | |
| 108 | 0830 | 2851.48 | 209.0 | 3.60 | 542.43 | 08 35.224N 084 04.716W <u>over OBS #82 ~10 min. ago</u> | 44 | 277 | | | 14 | 04 |
| 108 | 0900 | 2853.42 | 213.0 | 3.90 | 730.43 | 08 33.337N 084 05.511W | | | | | | |
| 108 | 0905 | 2853.73 | 211.5 | 3.70 | 1002.4 | 08 33.087N 084 05.615W <u>over OBS #81</u> | | | | | | |
| 108 | 0930 | 2855.41 | 210.7 | 3.80 | 1366.3 | 08 31.528N 084 06.281W | | | | | | |
| 108 | 0949 | 2856.73 | 211.8 | 3.90 | 1592.3 | 08 30.304N 084 06.794W <u>over OBS #80</u> | | | | | | |
| 108 | 1000 | 2857.34 | 216.5 | 3.50 | 1760.3 | 08 29.270N 084 04.519W | | | | | | |
| 108 | 1026 | 2859.01 | 210.7 | 3.20 | 2207.2 | 08 28.025N 084 07.765W <u>over OBS #79</u> | 44 | 565 | | | 16 | 92 |
| 108 | 1030 | 2859.25 | 209.0 | 3.70 | 2227.2 | 08 27.803N 084 07.853W | 44 | 574 | | | 17 | 01 |
| 108 | 1100 | 2861.29 | 207.8 | 4.00 | 2143.2 | 08 25.980N 084 08.627W | | | | | | |
| 108 | 1130 | 2863.37 | 211.5 | 4.10 | 2118.2 | 08 24.117N 084 09.413W | | | | | | |
| 108 | 1151 | 2864.81 | 205.7 | 3.80 | 2068.2 | 08 22.804N 084 09.970W <u>over OBS #78</u> | | | | | | |
| 108 | 1200 | 2865.38 | 207.5 | 4.10 | 2049.2 | 08 22.246N 084 10.205W | 44 | 796 | | | 19 | 23 |
| 108 | 1230 | 2867.29 | 205.7 | 3.40 | 1947.3 | 08 20.374N 084 10.993W | | | | | | |
| 108 | 1300 | 2869.04 | 210.5 | 3.60 | 1839.3 | 08 18.523N 084 11.780W | 44 | 945 | | | 20 | 71 |
| 108 | 1310 | 2869.76 | 217.7 | 3.40 | 1794.3 | EOL 301, shot no 44968 08 17.887N 084 12.051W | | | | | | |
| | | | | | | beginning 360° turn | | | | | | |
| 108 | 1330 | 2870.92 | 14.1 | 3.80 | 1782.3 | 08 17.229N 084 11.623W still doing 360° | 45 | 017 | | | 00 | 29 |
| 108 | 1344 | 2872.08 | 1.8 | 4.70 | 1801.3 | SOL 302, shot no 45048 08 18.128N 084 11.930W | | | | | 00 | 60 |
| 108 | 1400 | 2873 | 20.7 | 5.1 | 1860 | 8 19.144N 84 11.534W | 45 | 064 | | | | 76 |
| 108 | 1430 | 2875 | 15.7 | 4.5 | 1871 | 8 21.047N 84 10.706W | 45 | 095 | | | | 107 |
| 108 | 1447 | | | | | Temporarily stopped shooting- missed 1-(2) shots | | | | | | |
| | | | | | | resumed at 1447:30 → | 45 | 110 | | | | 122 |
| 108 | 1500 | 2877 | 14.5 | 4.4 | 2066 | 8 22.957N 84 09.906W | 45 | 123 | | | | 136 |
| 108 | 1530 | 2880.07 | 17.8 | 4.0 | 2135 | 8° 24.895' 84° 9.09' W | 45 | 152 | | | | 164 |
| | 1600 | 2882.18 | 16.3 | 4.5 | 2270 | 08° 26.661 84 08.332 | 45 | 183 | | | | 195 |
| | 16:21 | 2883.73 | 16 | 4.0 | 2207 | 8° 27.999 84 07.760 | 45 | 205 | | | | 217 |

OVER OBS # 79

[illegible]

| DATE | TIME | PIT LOG | CS# | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|-------|------|-------|--|-----|-----|-----|----|-----|-----|
| | | | | | | | SWP | LO | SWP | LO | SWP | LO |
| 109 | 00:00 | 2915.6 | 23.7 | 4.0 | 63.40 | 08 56.576 N 083 55.673 W | | | | | | |
| 109 | 00:23 | 2917.15 | 28.7 | 4.10 | 69.30 | 08 57.982 N 083 55.082 W | | | | | | |
| | | | | | | ↑ <u>above OBH # 91</u> | | | | | | |
| | | | | | | Possible wrong position (latitude) was provided during deployment. | | | | | | |
| 109 | 00:30 | 2917.6 | 23 | 4.0 | 74.4 | 8° 58.435 N 83° 54.885 | 45 | 692 | | | | 704 |
| | 01:00 | 2919.7 | 22.7 | 4.1 | 92.5 | 9° 00.287 N 83° 54.105 W | 45 | 722 | | | | 734 |
| 109 | 01:03 | 2919.9 | 26.0 | 3.9 | 94.9 | <u>above OBS # 92</u> | 45 | 725 | | | | 737 |
| | 01:30 | 2921.6 | 26.5 | 3.8 | 103.5 | 9° 02.129 N 83° 53.328 W | 45 | 751 | | | | 763 |
| 109 | 01:43 | 2922.5 | 24.7 | 4.2 | 98.5 | <u>above OBH # 93</u> | 45 | 764 | | | | 776 |
| | 02:00 | 2923.7 | 24.5 | 4.3 | 91.8 | 9° 04.015 N 83° 52.526 W | 45 | 782 | | | | 794 |
| | 02:04 | 2924.0 | 23.1 | 4.4 | 86.7 | <u>above OBS # 94</u> | 45 | 786 | | | | 798 |
| 109 | 02:23 | 2925.3 | 26.7 | 4.0 | 78.3 | <u>above OBH # 95</u> | 45 | 805 | | | | 817 |
| | 02:30 | 2925.8 | 27.3 | 3.9 | 76.2 | 9° 05.915 N 83° 51.721 W | 45 | 812 | | | | 824 |
| 109 | 02:43 | 2926.7 | 24.0 | 3.9 | 70.8 | <u>above OBS # 96</u> | 45 | 825 | | | | 837 |
| | 03:00 | 2927.8 | 28.5 | 4.3 | 64.0 | 9° 07.808 N 83° 50.928 W | 45 | 842 | | | | 854 |
| 109 | 03:02 | 2928 | 25.3 | 4.1 | 60.3 | <u>above OBH # 97</u> | 45 | 844 | | | | 856 |
| 109 | 03:23 | 2929.4 | 24.1 | 4.1 | 50.3 | <u>above OBS # 98</u> | 45 | 866 | | | | 878 |
| | 03:30 | 2929.8 | 29.8 | 3.5 | 48.0 | 9° 09.708 N 83° 50.128 W | 45 | 873 | | | | 885 |
| | 03:35 | 2930.2 | 25.1 | 3.6 | 44.5 | 9° 10.169 N 83° 49.926 W | 45 | 877 | | | | 889 |
| | | | | | | <u>End of line 302</u> | | | | | | |
| 109 | 04:00 | 2931.6 | 255.8 | 3.5 | 43.4 | 9° 10.671 N 83° 51.007 W | | | | | | |
| 109 | 04:30 | 2933.5 | 204 | 3.7 | 54.9 | 9° 09.680 N 83° 52.508 W | | | | | | |
| 109 | 05:00 | 2935.4 | 203.7 | 4.0 | 69.7 | 9° 07.905 N 83° 53.476 W | | | | | | |
| 109 | 05:30 | 2937.6 | 113.2 | 4.4 | 69.9 | 9° 07.003 N 83° 51.580 W | | | | | | |
| | 05:51 | 2939.5 | 24.7 | 5.7 | 55.1 | 9° 08.382 N 83° 50.736 W OBS # 98 on surface | | | | | | |
| 109 | 06:00 | 2940.2 | 42.5 | 4.2 | 51.3 | 9° 09.181 N 83° 50.621 | | | | | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|------|---------|-------|------|-------|---|-----|--------|----|-----|--------|----|
| | | | | | | | SWP | DEL/LO | HI | SWP | DEL/LO | HI |
| 108 | 0608 | 2940.47 | 80.1 | 1.20 | 50.29 | 09 09.334 N 083 50.413 W <u>OBS #98 on deck</u> | | | | | | |
| 109 | 0630 | 2942.42 | 210.5 | 7.50 | 65.09 | 09 07.706 N 083 51.366 W | | | | | | |
| 109 | 0700 | 2943.69 | 111.7 | 1.60 | 71.19 | 09 06.852 N 083 51.622 W <u>OBS #96 on surface</u> | | | | | | |
| 109 | 0710 | 2944.02 | 106.7 | 1.40 | 70.19 | 09 06.720 N 083 51.386 W <u>OBS #96 on deck</u> | | | | | | |
| 109 | 0730 | 2946.44 | 200.2 | 8.90 | 83.59 | 09 04.744 N 083 52.705 W | | | | | | |
| 109 | 0800 | 2947.74 | 305.5 | 0.10 | 87.19 | 09 04.196 N 083 52.311 W | | | | | | |
| 109 | 0826 | 2948.01 | 197.0 | 0.60 | 90.29 | 09 04.114 N 083 52.415 W <u>no sign of OBS #94,</u> <u>heading toward next station</u> | | | | | | |
| 109 | 0830 | 2948.14 | 200.8 | 6.60 | 91.49 | 09 03.941 N 083 52.496 W | | | | | | |
| 109 | 0856 | 2951.78 | 202.1 | 1.81 | 95.68 | 09 00.654 N 083 53.939 W <u>OBS #92 on surface</u> | | | | | | |
| 109 | 0900 | 2951.85 | 200.5 | 1.61 | 95.98 | 09 00.571 N 083 53.973 W | | | | | | |
| 109 | 0904 | 2951.98 | 179.5 | 1.21 | 94.78 | 09 00.455 N 083 54.015 W <u>OBS #92 on deck</u> | | | | | | |
| 109 | 0930 | 2954.92 | 201.0 | 8.71 | 66.58 | 08 57.681 N 083 55.280 W | | | | | | |
| 109 | 0948 | 2957.02 | 201.2 | 2.31 | 60.98 | 08 55.769 N 083 56.041 W <u>OBS #90 on surface</u> | | | | | | |
| 109 | 1000 | 2957.84 | 267.3 | 2.51 | 62.08 | 08 55.555 N 083 56.821 W | | | | | | |
| 109 | 1015 | 2958.34 | 227.7 | 1.81 | 61.68 | 08 55.403 N 083 57.185 <u>OBS #90 on deck,</u> <u>1900 m offline - suspect it was dragged -</u> <u>instrument partially damaged</u> | | | | | | |
| 109 | 1030 | 2960.11 | 187.7 | 9.21 | 66.78 | 08 53.616 N 083 57.609 W | | | | | | |
| 109 | 1100 | 2963.50 | 327.5 | 1.91 | 75.48 | 08 50.373 N 083 58.169 W <u>OBS #88 on surface</u> | | | | | | |
| 109 | 1106 | 2963.71 | 324.8 | 1.61 | 75.88 | 08 50.572 N 083 58.288 W <u>OBS #88 on deck</u> | | | | | | |
| 109 | 1130 | 2966.23 | 297.7 | 0.41 | 67.18 | 08 52.759 N 083 57.428 W <u>OBH #89 on surface</u> | | | | | | |
| 109 | 1142 | 2966.69 | 17.7 | 4.91 | 66.78 | 08 53.056 N 083 57.323 W <u>OBH #89 on deck</u> | | | | | | |
| 109 | 1200 | 2968.88 | 25.7 | 7.21 | 61.08 | 08 55.167 N 083 56.439 W | | | | | | |
| 109 | 1221 | 2971.58 | 94.1 | 1.01 | 65.48 | 08 57.483 N 083 55.267 W <u>OBH #91 on surface</u> | | | | | | |
| 109 | 1230 | 2971.98 | 11.5 | 2.21 | 67.88 | 08 57.860 N 083 55.115 W | | | | | | |
| 109 | 1239 | 2972.20 | 320.2 | 1.31 | 69.38 | 08 58.017 N 083 55.138 W <u>OBH #91 on deck</u> | | | | | | |
| 109 | 1300 | 2974.96 | 104.3 | 8.91 | 84.98 | 08 57.385 N 083 52.417 W | | | | | | |
| 109 | 1330 | 2979.54 | 105.1 | 9.11 | 90.58 | 08 56.226 N 083 47.927 W | | | | | | |
| 109 | 1338 | 2980.27 | 192.7 | 1.51 | 89.38 | 08 56.026 N 083 47.372 W <u>OBS #99 on surface</u> | | | | | | |

| DATE | TIME | PIT LOG | HDB CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|------------|------|-------|--|-----|-----------|-----|-----------|-----|-----------|
| | | | | | | | SWP | DEL LO HI | SWP | DEL LO HI | SWP | DEL LO HI |
| 109 | 1355 | 2980.64 | 322.8 | 1.41 | 87.08 | 08° 56.175'N 083° 47.249'W OBS #99 on board | | | | | | |
| 109 | 1400 | 2981.17 | 320 | 8.9 | 88 | 8° 56.532 083° 47.547' | | | | | | |
| 109 | 1430 | 2985.64 | 321 | 8.9 | 96 | 9° 00.207 083° 50.691' | | | | | | |
| 109 | 1458 | 2989 | | | | # 0 OBH #93 ON SURFACE | | | | | | |
| | 1500 | 2989.25 | 336 | 1.7 | 95 | 9° 02.958 083° 52.832' | | | | | | |
| | 1510 | 2989.49 | 270 | 0 | 96.14 | OBH #93 ON BOARD | | | | | | |
| 109 | 1537 | 2992 | 79 | 1 | 74 | 9° 05.385 083° 52.053' RANGE TO OBH 360M OBH #95 | | | | | | |
| 109 | 1550 | | | | | OBH #95 ON DECK | | | | | | |
| 109 | 1600 | 2993 | 26 | 8.9 | 71.41 | 9° 06.944' 083° 51.505' | | | | | | |
| 109 | 1617 | 2994 | 146 | 0.7 | 60.91 | 9° 07.875' 083° 50.989' OBH #97 ON SURFACE | | | | | | |
| 109 | 1626 | 2995 | 115 | 1.4 | 59.81 | 9° 08.112'N 083° 50.955' OBH #97 ON BOARD | | | | | | |
| 109 | 1630 | 2995 | 287 | 2. | 60.21 | 9° 08.205'N 083° 51.031' | | | | | | |
| 109 | 1700 | 2999 | 246 | 9 | 79 | 9° 06.777'N 083° 54.920' | | | | | | |
| 109 | 1730 | 3003.82 | 256 | 9.2 | 100 | 9° 05.33' 85° 59.47' | | | | | | |
| 109 | 1743 | 3005.03 | 15 | .5 | 103 | 9° 05.120'N 84° 00.730'W OBH #99 ON BOARD | | | | | | |
| 109 | 1800 | 3005.52 | 302 | .81 | 103 | 9° 04.920'N 84° 01.074'W OBH released | | | | | | |
| | 18:30 | 3008.47 | 242 | 7.51 | 114 | 9° 03.741'N 84° 03.779'W | | | | | | |
| | 19:00 | | | | | 9° 02.231'N 84° 06.966'W | | | | | | |
| 109 | 19:30 | 3015.40 | 238 | 7.1 | 151 | 9° 0.640'N 84° 10.052'W | | | | | | |
| 109 | 20:00 | 3018.73 | 237 | 6.8 | 584 | 8° 58.907'N 84° 12.850'W | | | | | | |
| | 20:30 | 3021.74 | 256 | 3.1 | 883 | 8 57.581 84 15.568 | | | | | | |
| | 21:00 | 3022.22 | 295 | 0.1 | 846 | 8 57.481 84 15.856 | | | | | | |
| | 21:09 | 3022.26 | 258 | 0.6 | 845 | 8 57.471 84 15.837 OBH # 103 DEPLOYED | | | | | | |
| | 21:30 | 3024.76 | 117 | 9.6 | 694 | 8 56.211 84 13.799 | | | | | | |
| 109 | 22:00 | 3029.18 | 1178 | 9.40 | 65.87 | 08 53 . 892 N 084 09.459 W | | | | | | |
| 109 | 22:28 | 3032.9 | 141.7 | 0.40 | 110.0 | 8° 52. 077 N 84° 06.401 W OBH # 102 Deployed | | | | | | |
| | 22:30 | 3032.9 | 123.7 | 0.70 | 109.8 | 8° 52. 065 N 84° 06.375 W | | | | | | |
| | 23:00 | 3037.3 | 121.3 | 8.9 | 136.8 | 8° 49 . 830 N 84 . 02. 323 W | | | | | | |
| | 23:30 | 3041.8 | 118.5 | 9.3 | 79.3 | 8° 47. 706 N 83° 58. 272 W | | | | | | |
| 110 | 00:00 | 3046.26 | 98.1 | 270 | 69.6 | 08 45 325 N 083 54 651 W | | | | | | |

| DATE | TIME | PIT | LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|----------|---------|--------|-------|-------|--|----------|-----|-----|----|----|-----|-----|
| | | | | | | | | SWP | DEL | LO | HI | SWP | DEL |
| 110 | 00:05 | 3046.3 | 41.0 | 0.60 | 68.7 | 8° 45 351 N 83° 54.609 W | OBH 101 | | | | | | |
| 110 | 00:30 | 3049.6 | 270.8 | 9.2 | 76.9 | 8° 45.388 N 83° 57.896 W | | | | | | | |
| 110 | 01:00 | 3052.10 | 325.80 | 20.98 | 71 | 08 45.506 N 084 00.246 W | | | | | | | |
| 110 | 01:04.40 | 3052.13 | 331 | 0.30 | 98.00 | 08 45.518 N 084 00.235 W | | | | | | | |
| | 01:25 | | | | | OBS # 86 on surface | | | | | | | |
| 110 | 01:25 | 3052.54 | 2421 | 210 | 99.85 | 08 45.659 N 084 00.632 W | | | | | | | |
| | | | | | | OBS # 86 on deck | | | | | | | |
| 110 | 01:30 | 3053.01 | 2028.8 | 70 | 102.9 | 08 44.930 N 084 00.674 W | | | | | | | |
| 110 | 01:51 | 3050.7 | 928 | 0.60 | 114.5 | 08 43.180 N 084 01.337 W | | | | | | | |
| | | | | | | OBH # 85 on surface | | | | | | | |
| 110 | 02:00 | 3055.2 | 270.3 | 1.0 | 114.8 | 8° 43.138 N 84° 01.382 W | | | | | | | |
| | 02:02 | 3055.3 | 233.7 | 1.0 | 114.4 | 8° 43.167 N 84° 01.383 W | OBH # 85 | | | | | | |
| | | | | | | | on deck | | | | | | |
| 110 | 02:30 | 3056.1 | 200 | 7.9 | 114.1 | 8° 43.038 N 84° 01.421 W | | | | | | | |
| 110 | 02:52.10 | 3058.70 | 1493 | 1.90 | 136.3 | 08 40.642 N 084 02.423 W | | | | | | | |
| | | | | | | OBS # 84 on surface | | | | | | | |
| 110 | 03:05 | 3058.93 | 2188 | 0.70 | 160.7 | 08 40.562 N 084 02.490 W | | | | | | | |
| | | | | | | OBS # 84 on deck | | | | | | | |
| 110 | 03:30 | 3061.49 | 2270 | 0.80 | 276.8 | 08 38.204 N 084 03.482 W | | | | | | | |
| 110 | 03:33 | 3061.53 | 1901 | 0.80 | 280.5 | 08 38.168 N 084 03.480 W | | | | | | | |
| | | | 150 | | | OBH # 83 and vertical streamer | | | | | | | |
| 110 | 03:35 | 3061.55 | 2045 | 1.80 | 278 | 08 38.164 N 084 03.467 W | | | | | | | |
| | | | | | | on the surface | | | | | | | |
| 110 | 03:51 | 3061.91 | 2315 | 0.20 | 302.6 | 08 37.986 N 084 03.603 W | | | | | | | |
| | | | | | | OBH # 83 and vertical streamer on deck | | | | | | | |
| 110 | 04:00 | 3061.99 | 1658 | 1.60 | 288.9 | 08 38.000 N 084 03.536 W | | | | | | | |

| HDE | | | | | | | SWP DEL LO HI | | | | | | | | | | | | |
|------|-------|---------|-------|------|--------|---|---------------|--|--|--|---|--|--|--|---|--|--|--|--|
| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | | | B | | | | C | | | | |
| 110 | 04:30 | 3063.6 | 210.3 | 3.6 | 462.9 | 8° 36.356 N 84° 04.076 W | | | | | | | | | | | | | |
| 110 | 04:58 | 3064.60 | 315 | 0.80 | 513.6 | 08 35 671 N 084 04.506 W ↑ OBS # 82 on surface | | | | | | | | | | | | | |
| 110 | 05:00 | 3064.6 | 260 | 1.1 | 516.2 | 8° 35.699 N 84° 04 531 W | | | | | | | | | | | | | |
| 110 | 05:17 | 3065.01 | 338 | 1.20 | 519.6 | 08 35.565 N 084 04.176 W ↑ OBS # 82 on deck | | | | | | | | | | | | | |
| 110 | 05:30 | 3065.8 | 200.7 | 7.0 | 579.3 | 8° 34.868 N 84° 04.795 W | | | | | | | | | | | | | |
| 110 | 0559 | 3067.85 | 171.1 | 1.30 | 972.4 | 08 33.018 N 084 05.427 W OBH #81 on surface | | | | | | | | | | | | | |
| 110 | 0619 | 3068.29 | 276.0 | 0.30 | 1014.3 | 08 32.974 N 084 05.566 W OBH #81 on deck | | | | | | | | | | | | | |
| 110 | 0630 | 3068.73 | 209.1 | 8.00 | 1160.3 | 08 32.293 N 084 05.897 W | | | | | | | | | | | | | |
| 110 | 0656 | 3071.19 | 350.1 | 0.80 | 1551.3 | 08 30.311 N 084 06.591 W OBS #80 on surface | | | | | | | | | | | | | |
| 110 | 0700 | 3071.25 | 318.5 | 1.80 | 1555.3 | 08 30.355 N 084 06.625 W | | | | | | | | | | | | | |
| 110 | 0730 | 3071.76 | 25.1 | 1.00 | 1592.3 | 08 30.186 N 084 06.558 W | | | | | | | | | | | | | |
| 110 | 0738 | 3071.98 | 19.0 | 1.20 | 1583.3 | 08 30.105 N 084 06.466 W OBS #80 on deck | | | | | | | | | | | | | |
| 110 | 0755 | 3073.88 | 204.1 | 9.00 | 2152.2 | 08 28.406 N 084 07.274 W OBS #79 on surface | | | | | | | | | | | | | |
| 110 | 0800 | 3074.25 | 230.7 | 5.70 | 2203.2 | 08 27.980 N 084 07.517 W | | | | | | | | | | | | | |
| 110 | 0808 | 3074.68 | 318.3 | 0.70 | 2276.2 | 08 27.890 N 084 07.745 W OBS #79 on deck | | | | | | | | | | | | | |
| 110 | 0830 | 3077.17 | 202.1 | 9.20 | 2163.2 | 08 25.335 N 084 08.600 W | | | | | | | | | | | | | |
| 110 | 0855 | 3080.05 | 339.7 | 0.90 | 2068.2 | 08 22.838 N 084 09.773 W OBS #78 on surface | | | | | | | | | | | | | |
| 110 | 0900 | 3080.17 | 333.3 | 1.80 | 2070.2 | 08 22.926 N 084 09.796 W | | | | | | | | | | | | | |
| 110 | 0904 | 3080.27 | 311.3 | 0.40 | 2072.2 | 08 22.985 N 084 09.819 W OBS #78 on deck | | | | | | | | | | | | | |
| 110 | 0930 | 3084.60 | 342.0 | 12.0 | 2155.2 | 08 27.164 P 084 11.138 W | | | | | | | | | | | | | |
| 110 | 1000 | 3090.66 | 340.0 | 12.2 | 2233.2 | 08 32.747 N 084 12.913 W | | | | | | | | | | | | | |
| 110 | 1030 | 3096.66 | 340.1 | 12.2 | 1641.3 | 08 38.247 N 084 14.812 W | | | | | | | | | | | | | |
| 110 | 1100 | 3102.86 | 340.7 | 11.9 | 1155.3 | 08 43.979 N 084 16.748 W | | | | | | | | | | | | | |
| 110 | 1130 | 3108.80 | 340.3 | 10.8 | 1240.3 | 08 49.499 N 084 18.671 W | | | | | | | | | | | | | |
| 110 | 1200 | 3114.81 | 337.3 | 11.7 | 1141.3 | 08 55.171 N 084 20.639 W | | | | | | | | | | | | | |
| 110 | 1216 | 3116.48 | 24.0 | 4.30 | 1041.3 | 08 56.608 N 084 20.300 W deployed guns | | | | | | | | | | | | | |

| DATE | TIME | PIT LOG | HDS CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|----------------|-----------------|--------------------|----------------|----------------|-------------------|---|-------------------|----------------|------------|----------|------------|----------------|
| | | | | | | | SWP DEL | LO HI | SWP DEL | LO HI | SWP DEL | LO HI |
| 110 | 1230 | 3117.28 | 20.8 | 3.50 | 979.44 | 08 57.342 N 084 19.812 W | | | | | | |
| | | | | | | talked to fishing boat + think they have OBH #101 on board! | | | | | | |
| 110 | 1255 | 3119.05 | 49.7 | 4.60 | 913.44 | 08 58.932 N 084 18.794 W | 45 | 901 | (45 902 | -file 1) | | |
| | | | | | | started shooting on time before SOL 304 | | | | | | |
| 110 | 1300 | 3119.36 | 103.7 | 4.10 | 898.44 | 08 59.020 N 084 18.433 W | 45 926 | | | | | |
| 110 | 1305 | 3119.75 | 118.8 | 4.00 | 879.44 | 08 58.801 N 084 18.150 W | 45 | 926 | | | | |
| 110 | 1330 | 3121.27 | 119.5 | 3.80 | 859.44 | 08 57.979 N 084 16.702 W | 45 | 987 | | | | 85 |
| 110 | 1400 | 3123 | 122 | 4.3 | 823 | 08 56.467 N 084 14.972 W | 46 | 061 | | | | 159 |
| 110 | 1430 | 3125 | 121 | 4.2 | 855 | 8 55.969 84 13.197 | | | | | | |
| 110 | 1500 | 3127 | 117 | 4.3 | 392 | 8 54.937 84 11.420 | 46 | 210 | | | | 308 |
| 110 | 1530 | 3129.41 | 117 | 3.6 | 60 | 8° 53.939' N 84° 9.665' W | 46 | 284 | | | | 382 |
| 110 | 1600 | 3131.33 | 117.8 | 4.1 | 85.9 | 8 53.198 N 84 8.383 W | 46 | 360 | | | | 458 |
| 110 | 1630 | 3133.40 | 121.0 | 4.1 | 115.44 | 8 51.919 84 06.158 W | 46 | 434 | | | | 532 |
| 110 | 1700 | 3135.42 | 118.7 | 3.5 | 142.14 | 8 50.898 N 84 04.378 W | 46 | 509 | | | | 607 |
| 110 | 1730 | 3137.36 | 118 | 4.0 | 141.44 | 8 49.898 N 84 02.631 W | 46 | 582 | | | | 620 |
| 110 | 1730 | 3137.36 | 121 | 4.0 | 141.44 | 8 49.898 N 84 02.631 W | 46 | 582 | | | | 620 |
| | 1800 | 3139.32 | 118 | 4.0 | 106 | 8 48.936 84 00.949 | 46 | 655 | | | | 753 |
| 110 | 1829 | 3141.17 | 114 | 4.0 | 82 | 8° 47.955' N 83° 59.246' W | 46 | 727 | | | | 825 |
| 110 | 1830 | 3141.25 | 116 | 4.1 | 87 | 8° 47.913' N 83° 59.169' W | 46 | 730 | | | | 828 |
| | 1900 | 3143.14 | 113 | 3.8 | 76.2 | 46.884 83 57 38 S | 46 | 806 | | | | 904 |
| 110 | 1930 | 3144.99 | 125 | 3.9 | 70 | 8° 45.909' N 83° 55.661' S | 46 | 878 | | | | 976 |
| | 1800 | 3146.93 | 123 | 3.8 | 61 | 8 44.860 83 53.852 | 45 | 954 | | | | 1054 |
| 110 | 2020 | 3148 | 121 | 4.2 | 45 | 8° 44.062' N 83 52.428 | | | | | | |
| | 2030 | 3148.90 | 56 | 4.4 | 42.1 | 8 44.156 83 51.912 | | | | | | |
| | 2130 | 3154.63 | 282 | 9.8 | 24 | 8 47.165 83 55.317 | | | | | | |
| 110 | 22:00 | 3158.9 | 225.7 | 0.4 | 27.1 | 8° 47.956 N 83° 59.104 W | | | | | | |
| 110 | 22:06 | 3159.05 | 236.3 | 1.8 | 28.314 | 08 47.933 N 083 59.163 W (200 meters | | | | | | |
| | | | | | | OBH # 87 on surface ↑ from the boat) | | | | | | |

| DATE | TIME | PIT LOG | CSE | SPD | DEPTH | REMARKS | A | | B | | C | |
|------|-------|---------|-------|------|--------|---|-----|--------|----|-----|--------|----|
| | | | | | | | SWP | DEL/LO | HI | SWP | DEL/LO | HI |
| 110 | 22:15 | 3159.32 | 331.5 | 1.2 | 21.014 | 08 48.103 N 083 53.384 W <u>OBH # 89 on deck</u> ↑ | | | | | | |
| 110 | 22:30 | 3160.97 | 297.3 | 9.60 | 21.314 | 08 48.991 N 084 00.772 W | | | | | | |
| 110 | 23:00 | 3165.7 | 298.5 | 9.5 | 20.0 | 8° 51.939 N 84° 04.998 W | | | | | | |
| 110 | 23:18 | 3167.77 | 19.7 | 1.31 | 111.74 | 08 51.965 N 084 06.526 W <u>OBH # 102 on surface</u> ↑ | | | | | | |
| 110 | 23:25 | 3167.97 | 3.3 | 0.71 | 113.34 | 08 52.054 N 084 06.328 W <u>OBH # 102 on deck</u> ↑ | | | | | | |
| 110 | 23:30 | 3168.2 | 303 | 7.8 | 106.6 | 8° 52.189 N 84° 06.549 W | | | | | | |
| 111 | 00:00 | 3172.83 | 300.1 | 8.11 | 79.904 | 08 54.297 N 084 10.449 W | | | | | | |
| 111 | 00:30 | 3177.4 | 300.1 | 8.8 | 789.8 | 8° 56.440 N 84° 14.593 W | | | | | | |
| 111 | 00:55 | 3179.05 | 329.3 | 0.10 | 859.44 | 08 57.283 N 084 15.741 W <u>OBH # 103 on surface</u> ↑ | | | | | | |
| 111 | 01:00 | 3179.2 | 335.7 | 200 | 898.4 | 8° 57.433 N 84° 15.796 W | | | | | | |
| 111 | 01:05 | 3179.31 | 323.8 | 1.80 | 863.4 | 8° 57.534 N 84° 05.845 W <u>OBH # 103 on deck</u> ↑ | | | | | | |
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