

STUDENT CRUISE XIV

91G01

8 January 1991

0755 began moving away from dock

~0830 leave boat behind

~0845 SEALWOLF PARK

~0910 Past end of jetties 3.5, LORAN Logger & Mass Camps
Logger up & running1122 ~~Engine Fuel off~~ (for Gery's compressors)

1215 Crazy dinosaur game solved by Lila

1300 Ship safety meeting in lounge

1315 " " " completed

1326 Spd slowed in order to test air gun
→ ~6 kts1336 1st test shot; shots at 30s intervals

1337 C/S to 5 kts

1350 test completed successful

1354 Air gun retrieved

1355 Full speed started

1358 Speed holding at 11.1 knts

OBS sites picked at:

1	27° 02.746'	95° 10.27'
2	27° 01.883'	95° 08.79'
3	27° 00.889'	95° 07.29'
4	27° 00.00'	95° 05.80'

0507 slow speed from 10.9 to 2.2 knts
then back up at 0510 to 6.2

0513 ON STATION near time to deploy

9 January 1991

0514 Z OBS #1 in water
(now heading for station #2)

(-6 hrs for local time)

0535 Z OBS #2 in water (on to station #3)
34.50553 Z OBS #3 in the water
(marked on record at 0555)

0618 Z OBS #4 in water

~0633 Z streamer going out

0718 Z start shooting - 30s shot interval

0722 Z INCREASES SPEED TO 5 KTS.

0747 Z start turn to left 10°/min to ^{CS}E 348

0820 Z start turn @ 10°/min to 270°

~0826 Z start line A first shot = 105 100

0923 begin turn to 070 at 15°/min

0934 continue turn to 090

1005 begin turn @ 5°/min from 090 to 305° (to line 1)

1013 SOL 1 SH 318

1034 360 SH POINT

1505 1st turn w/ streamer initiated~~1515~~ 1517 Pulled in Air gun ~ shot 928

1543 gun in water

1548 Start line #2

9 Jan. 1991

1702
~~1713~~comp. REC shot # not updating
itself (Mark on the job)

1743

begin 180° turn @ 10°/min

1815

▷ csc to 070 to adjust to line.

1815

▷ csc to 053 "

1825

▷ csc to 035 "

1835

▷ csc to 030 "

1852

▷ csc to 033 "

1905

▷ csc to 037 "

1913

034

1955

▷ " " 040

2040

begin 180° turn at 10°/min

2050

start seis line #4

2108-2114

MISFIRE ON SOLENOID SENSOR -
SWITCH TO BLAST PHONE

line 1 started 10:13 z

2 1548 z

3 1752 z

4 2050 z

2153

Gun killed due to lock

2245

GUN in water

Jan 10

0100

start line 5

0315

start line #6

0342

Compressor went off - on 0345

GMT.

10 Jan 91

0335

3.5 record becomes unreadable

0415

3.5 record appears again - very faint

0545

Traffic in area - cannot stay on line at present

0655

Passed traffic and beginning 180° left turn at $5^\circ/\text{min}$

0622

air gun killed - checking gun + compressor

0632

Compressor back on

0634

start line ~~8~~ 7

0649

turn around complete

0951

began turn to line 8

1000

begin line 8

1309

begin turn to line 9

1325

begin line 9

1535

begin turn to line 10 early

1539

gun stopped

1550

gun restarted, line 10

1817 ±

begin 180° left turn at $10^\circ/\text{min}$

1900

second roll for magnetic records started.

2039

 180° right turn at $10^\circ/\text{min}$ initiated

2048

col 11, sol 12

2200

col 12, pull gun, streamer + magnetometer

2217

c/s to dead slow to bring in magnetometer

11 Jan 1991

0008 OBS 1 aboard

LORAN C

27° 02.0

95° 09.75

0127 OBS 2 spotted

27 01.4 } depth 763 fms
95 08.6 }

0242 OBS 3 aboard

~~27 00.42~~ } 27 00.32
~~95 07.16~~ } 95 07.04

depth 765 fms

0324 OBS 4 spotted

0341 OBS 4 onboard

26 59.14 } depth
95 05.58 } 745 fms

0400

heading to N 27° 01.90 } GPS
W 95.19.93 }
for heat probe initiation

0518

on station for H.P.

0547

H.P. in ~~WASSER~~ WATER

(top part only - cable checked)

0642

probe back on deck

0738

underway to hf station 1

0755 z

change of plan - transit to start of next seismic line

845

deployment of streamer initiated

855

Turning to come onto line.

910

turning to 300° and increase spd to 5.0 kts
0908 start line 13

1113

begin to line 14

011 / 11 Jan 1991

056

begin line 14

1113

1123) start line 15

11341 S.H. picked point to stop & try for next Heat Probe

~~27° 02.20 N~~ ~ 27° 03.22 N
~~-95° 17.24 W~~ ~ -95° 16.50 W

1428 END LINE 15
27° 03.45 N
95 16.73 W

1430 Start procedure to deploy Heat Probe (I)
27° 03.45 N
95 16.73 W

1507 Heat probe I in water
27° 04.07' N (5)
95° 16.39' W

1533 Heat Probe I hit bottom
27° 03.38'
95 16.22' depth ~ 600 fms

~~1548 Heat Probe off bottom~~
~~27 03.09 N~~
~~95 16.20 W~~

1551 H P off bottom
27 03.03 N
95 16.20 W

1632 HP on bottom
27° 02.17 N depth ~ 733 fms
95 16.23 W

1647 HP off bottom
27 01.86 N
95 16.18 W

SCXIV

1655 HP out of Water

1745 underway for new heat probe line

1822 adjust course to 050 - turn around for line

1831 change course to 180° for heat flow station

1834 on station, dead in the water

1841 heat probe going down

1903 sonar problems - bring probe back to surface
~~heat probe on bottom~~ (at
loss
depth)

1911 pinger @ surface

~1933 increase speed @ ~165° - "smooth ride for heat probe work"

1958 c/c 214 to start of new seismic line

2018 start turn to line 16 (CSE 000)

2025 streamer going out

2045 gun in the water

2048 start line 16

2047 shooting starts

2050 increase speed to 4.5 - 5.0 range

2053 air hose broken, shooting stopped

2054 gun pulled from water

2055 holding station in 10°/min circle

2005 proceeding south to restart line

2124 start 180° turn to right at 15°/min to start line

2125 air gun operating

2220 air gun pulled

2227 air gun firing

2244 end line 16, start line 17

SC XIV

12 Jan 1991

0020 end line #17, start line #18

0100 end line #18, start line #19

start line #16 @ 2048 $26^{\circ} 59.20'N$
 $-95^{\circ} 18.02'W$

start line #17 @ 2244 $27^{\circ} 02.86'$
 $-95^{\circ} 17.40'$

start line #18 @ 0020 $27^{\circ} 09.09'$
 $-95^{\circ} 12.76'$

start line #19 @ 0100 $27^{\circ} 06.23'$
 $-95^{\circ} 10.59'$

start line #20 @ 0255 $27^{\circ} 06.55'$
 $-95^{\circ} 20.27'$

~~0319 - 0320 box of mag tapes fell on some wires~~

0650 - 8° course shift to right

0700 C/C 200 to ~~200~~ 22

0723 turn initiated late - overshoot line

0737 begin 180° turn to right at $15^{\circ}/min$

0751 cut turn to come about to 000°

0803 stop shooting - out of oil for compressor

slow to retrieve streamer, gun

0833 c/s 6 kts to run magnetometer over seismic line 13

1034 Jan 12 - c/c to 260° from 120°

1107 Jan 12 - c/c to 0° from 260°

12:12:15_{min} - c/c to 45° from 0°

12:13:00_{min} - c/c to 225° from 45°

1345 Magnetometer off

1400 Mag. aboard

1405 CSC to 325° for 1st waypt. for H.P.

1423 final CSC 325°

1445 on station for H.P.

1507 H.P. in water $27^{\circ}02.71'N$
 $-95^{\circ}18.37'W$

1548 3.5 kHz is temp. off

1607 HP on bottom

1625 pulling H.P. up, will tow in water; 3.5 kHz ON

1700 HP being lowered ~500m - 1380m, and free fall to bottom, 1450m.

1719 HP on bottom

1730 HP being pulled up.

1800 HP going down

1811 HP on bottom

1822 HP being pulled up
1826 C/L 045 for ~2 n. mi for next HP station
1928 Slowing down to get on station
1929 On station, lowering HP
1942 HP in bottom
1952 HP on way up & out of the mud
2003 All stop, on station, lowering HP
2026 HP in the mud
2032 HP pulled out of the mud
2055 HP secured in rack
2107 all secured on deck, head for home