

THE UNIVERSITY OF TEXAS AT AUSTIN
INSTITUTE FOR GEOPHYSICS
R. V. FRED H. MOORE

LINE INFORMATION

CRUISE FM35-02 LINE # 1 COURSE ~230.
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY-UTIG

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>94/04APR87</u>	<u>95/05APR87</u>	
TIME(Z)	<u>1648:59</u>	<u>04:54:50</u>	<u>12:05:51</u>
LATITUDE	<u>10 0.2356 N</u>	<u>9 26.2286</u>	
LONGITUDE	<u>85 49.1892 W</u>	<u>86 23.7204</u>	
SHOTPOINT	<u>0001</u>	<u>1652</u>	<u>1652</u>
REC NUM	<u>001</u>	<u>651</u>	<u> </u>
TAPE NUM	<u>350002</u>	<u>350015</u>	<u>14</u>
WATER DEPTH	<u>~120M</u>		
DATA LENGTH (SEC) MIN	<u>16</u>	MAX <u>16</u>	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	^{DISTANCE} <u>54M</u>	FOLD(NOMINAL) <u> </u>	
SEIS TRACES	<u> </u>	AUX TRACES <u> </u>	PROBLEM TRACES <u>18,2324,59,65</u>
SINGLE CHANNEL MONITOR TRACE #	<u>1</u>		
DISTANCE TO NEAR TRACE (M)	<u>201 M</u>	<u>center of group 96 from reel</u>	
DISTANCE TO FAR TRACE (M)	<u>3367 M</u>	<u>center of group 1 from reel</u>	
SOURCE INFO	<u>2-6GUN ARRAYS, 2-2000CUIN, 6130IN³, 2000PSI</u>		
NAVIGATION SYSTEM INFO	<u>ONI, Land based</u>		
SHOOTING BY	<u>X</u>	DISTANCE <u> </u>	TIME <u> </u>
COMMENTS:			

DIP LINE

TERMINATED LINE WHEN CLUTCH WENT OUT ON COMP

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CRUISE FM35-02 LINE # TEST COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	_____	_____	_____
TIME(Z)	<u>1416</u>	_____	_____
LATITUDE	_____	_____	_____
LONGITUDE	_____	_____	_____
SHOTPOINT	<u>1</u>	<u>251</u>	_____
REC NUM	<u>1</u>	<u>251</u>	_____
TAPE NUM	<u>350000A</u>	<u>350001</u>	_____
WATER DEPTH	_____	_____	_____
DATA LENGTH (SEC) MIN	<u>16</u>	MAX <u>16</u>	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>26</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES _____
SINGLE CHANNEL MONITOR TRACE #	_____		
DISTANCE TO NEAR TRACE (M)	<u>207</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	_____		
NAVIGATION SYSTEM INFO	<u>ON1</u>		
SHOOTING BY	_____	DISTANCE <u>✓</u>	TIME _____
COMMENTS:	<u>TESTING GUNS</u>		

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LINE INFORMATION

CRUISE FM 35-02 LINE # 50 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>95/5 APR 87</u>	<u>95/5 APR 87</u>	
TIME(Z)	<u>08:30:29</u>	<u>15:26:</u>	<u>6:55:31</u>
LATITUDE	<u>09 25.7161</u>		
LONGITUDE	<u>86 23.8286</u>		
SHOTPOINT	<u>1</u>	<u>728</u>	
REC NUM	<u>1</u>	<u>725</u>	
TAPE NUM	<u>350016</u>	<u>350020</u>	
WATER DEPTH			
DATA LENGTH (SEC) MIN	<u>10</u>	MAX	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>below</u>	FOLD(NOMINAL)	
SEIS TRACES		AUX TRACES	PROBLEM TRACES
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>ONE 6 GUN ARRAY</u>		
NAVIGATION SYSTEM INFO	<u>ONI</u>		

SHOOTING BY _____ DISTANCE _____ TIME _____

COMMENTS:

REP RATE Shot 1-125 26s
125-175 13s
175- distance 33.33M

terminated line STBD429 down
ABORT

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LINE INFORMATION

CRUISE FM 35-02 LINE # 50A COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY-UTIG

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>96/6APR87</u>	<u>96/6APR87</u>	
TIME(Z)	<u>4:06:20</u>	<u>11:34:49</u>	<u>7:28:29</u>
LATITUDE	<u>9 30.9629</u>	<u>9 55.5026</u>	
LONGITUDE	<u>86 18.4712</u>	<u>85 53.4907</u>	
SHOTPOINT	<u>63</u>	<u>1896</u>	<u>1834</u>
REC NUM	<u>63</u>	<u>896</u>	
TAPE NUM	<u>350021</u>	<u>350031</u>	<u>11</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) distance FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 18,23,24,40,45,52,59,65

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201 From reel to center of 96

DISTANCE TO FAR TRACE (M) 3367 From reel to center of 1

SOURCE INFO PORT 6-GUN ARRAY 106Sci

NAVIGATION SYSTEM INFO ONI

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS: 33.3M

33.3 M shot distance

FIRST GOOD SHOT TO LOGGER IS 63

STOPPED SHOOTING AT SHOT 274-ONIZ85

RESUMED SHOT 277-ONIZ355

CUT LINE SHORT DUE TO FISHING BOATS NEAR SHORE

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LINE INFORMATION

CRUISE FM35-02 LINE # 90 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY-UTIG

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>96/6 APR 87</u>	<u>96 / 06 APR 87</u>	
TIME(Z)	<u>12:40:41</u>	<u>20:26:22</u>	<u>7:45:41</u>
LATITUDE	<u>9 54.1441</u>	<u>9 31.1256</u>	
LONGITUDE	<u>85 51.4442</u>	<u>86 14.6287</u>	
SHOTPOINT	<u>1898-met to 1</u>	<u>1576</u>	<u>1577</u>
REC NUM	<u>1</u>	<u>575</u>	<u>1575</u>
TAPE NUM	<u>350032</u>	<u>350041</u>	<u>9</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX <u>10</u>	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23,24,32,40,45,52,59,65</u>
SINGLE CHANNEL MONITOR TRACE #	_____		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>STARTED W/PORT ARRAY, SWITCHED TO STBD AFTER 18 SHOTS</u>		
NAVIGATION SYSTEM INFO	<u>ONI, LAND BASED STATIONS</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Started line early because of boats near shore
No reel 350033, tape counter incremented when drive offline.
Line terminated early due to loss of Tamarindo
Station.

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LINE INFORMATION

CRUISE FM 3502 LINE # 40 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>97/7 APR 87</u>	<u>97/7 APR 87</u>	
TIME(Z)	<u>3:23:36</u>	<u>10:40:33</u>	<u>7:16:27</u>
LATITUDE	<u>9 33.413</u>	<u>9 55 793 N</u>	
LONGITUDE	<u>86 15.653</u>	<u>85 53 415 W</u>	
SHOTPOINT	<u>0</u>	<u>1739</u>	<u>1739</u>
REC NUM	<u>1</u>	<u>739</u>	<u>739</u>
TAPE NUM	<u>350042</u>	<u>350051</u>	<u>11</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 40, 45, 52, 59

SINGLE CHANNEL MONITOR TRACE # _____

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 GUN ARRAY NGS ci

NAVIGATION SYSTEM INFO ONJ LAND BASED

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS: shot point was not logged until shot # 93

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LINE INFORMATION

CRUISE Fm3502 LINE # 10 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. STIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>97/7 APR 87</u>	<u>97/7 APR 87</u>	
TIME(Z)	<u>11:46:47</u>	<u>19:03:02</u>	<u>7:16:15</u>
LATITUDE	<u>9 34.6330</u>		
LONGITUDE	<u>86 14.795</u>		
SHOTPOINT	<u>3</u>	<u>1734</u>	<u>1731</u>
REC NUM	<u>19</u>	<u>735</u>	<u>1717</u>
TAPE NUM	<u>350052</u>	<u>350061</u>	
WATER DEPTH			
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>333 m</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 40, 45, 52, 59</u>
SINGLE CHANNEL MONITOR TRACE #	_____		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 Gun array 1065 ci</u>		
NAVIGATION SYSTEM INFO	<u>ON1 Land based</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Trouble starting guns at beginning of line - see tape log for details

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LINE INFORMATION

CRUISE FM 35-02 LINE # 60 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>97/07 Apr 87</u>	<u>98/08 APR 87</u>	
TIME(Z)	<u>22:14:45</u>	<u>05:16:00</u>	<u>7:01:15</u>
LATITUDE	<u>9 33.4424 N</u>	<u>9 55.9270 N</u>	
LONGITUDE	<u>86 15.6308 W</u>	<u>85 52.8817 W</u>	
SHOTPOINT	<u>1734-11</u>	<u>1764</u>	<u>1764</u>
REC NUM	<u>1-11</u>	<u>764</u>	
TAPE NUM	<u>350062</u>	<u>350072</u>	<u>11</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE (SEC) ^{Distance} 33.3 M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23,24,40,45,52,59

SINGLE CHANNEL MONITOR TRACE # 88

32 STARTED ON ~ 225?

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO _____

NAVIGATION SYSTEM INFO ONI Land Based

SHOOTING BY ☒ DISTANCE _____ TIME _____

COMMENTS:

went whole line w/ one array
Shot and rec in sync at shot 11

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CRUISE Fm35-02 LINE # 80 COURSE _____
PROJECT CR 3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>98/08APR87</u>	<u>98/08 Apr 87</u>	
TIME(Z)	<u>07:08:09</u>	<u>13:34:21</u>	<u>6:26:12</u>
LATITUDE	<u>9 55.2354 N</u>	<u>9 37 4468 N</u>	
LONGITUDE	<u>85 52.2330 W</u>	<u>86 10.2330 W</u>	
SHOTPOINT	<u>1</u>	<u>1395</u>	<u>1395</u>
REC NUM	<u>1</u>	<u>395</u>	
TAPE NUM	<u>350073</u>	<u>350080</u>	<u>8</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE (SEC) ^{distance} 33.3 m FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 40, 42, 57, 59
32

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 GUN ARRAY 106500'

NAVIGATION SYSTEM INFO ONT Land Based

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS: Missed shots 274-319, pressure down
for shots 258-274 (approximately).

Closed out early due to noise problem in data -
cable is too shallow

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LINE INFORMATION

CRUISE Fm35-02 LINE # 70 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shopley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>98/08 APR 87</u>	<u>99/09 Apr 87</u>	
TIME(Z)	<u>17:38:22</u>	<u>01:05:14</u>	<u>7:26:52</u>
LATITUDE	<u>9 33.4201</u>	<u>9 55 36.46 N</u>	
LONGITUDE	<u>86 15.5083</u>	<u>85 53 06.39 W</u>	
SHOTPOINT	<u>6</u>	<u>1735</u>	<u>1629</u>
REC NUM	<u>2</u>	<u>731</u>	
TAPE NUM	<u>350081</u>	<u>350090</u>	<u>10</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) _____

REP RATE ^{dist} (SEC) 33.3 m FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 40, 42,
52, 59, 32

SINGLE CHANNEL MONITOR TRACE # _____

DISTANCE TO NEAR TRACE (M) 201 center of reel to center of 96

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO ONE 6 GUN ARRAY - 106Sci STARBOARD v port

NAVIGATION SYSTEM INFO GN1 Land based - MAXIRON

SHOOTING BY ☒ DISTANCE _____ TIME _____

COMMENTS: MISSED SEVERAL SHOTS AT START, GUN DOWN
~300M OFFLINE AT START

LINE STOPPED EARLY BECAUSE OF FISHING BOATS

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LINE INFORMATION

CRUISE FM35-02 LINE # 20 COURSE 224.9
PROJECT C123D AREA Costa Rica P.I. Shupler

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>99/09 Apr 87</u>	<u>99/09 Apr 87</u>	
TIME(Z)	<u>2:59:07</u>	<u>10:36:48</u>	<u>7:37:41</u>
LATITUDE	<u>9 57.0226 N</u>	<u>9 34.2093 N</u>	
LONGITUDE	<u>85 54.2273 W</u>	<u>86 16 5449 W</u>	
SHOTPOINT	<u>1</u>	<u>1758</u>	<u>1758</u>
REC NUM	<u>1</u>	<u>758</u>	
TAPE NUM	<u>350091</u>	<u>350101</u>	<u>11</u>
WATER DEPTH			
DATA LENGTH (SEC) MIN	<u>10</u>	MAX	SAMP RATE (MSEC) <u>4</u>
REP RATE (SEC)	<u>33.3m</u>	FOLD(NOMINAL)	
SEIS TRACES		AUX TRACES	PROBLEM TRACES <u>23, 24, 32, 40, 42</u>
SINGLE CHANNEL MONITOR TRACE #			<u>52, 59</u>
DISTANCE TO NEAR TRACE (M)	<u>201</u>	Center of reel to center of <u>96</u>	
DISTANCE TO FAR TRACE (M)	<u>3361</u>		
SOURCE INFO	<u>One 6 gun array 1065 C.I.</u>		
NAVIGATION SYSTEM INFO	<u>ONT Land based - MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE	TIME

COMMENTS:

STARTED LINE OFF-TRACK BY ~900M DUE TO
FISHING BOATS
CHANNEL 15 BAD ON 1ST QC TAPE OUTPUT
Noisy trace 32 cured (replace PC board in Gus) between
records 821 and 851 on reel # 350095
channel 15 → fixed @ ~0800Z → line 20 GRB in GUS
Gain Ramping Board

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LINE INFORMATION

CRUISE Fm35-02 LINE # 30 COURSE 44.9
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>99/09 Apr 27</u>	<u>99/09 APR 87</u>	
TIME(Z)	<u>12:05:09</u>	<u>19:30:13</u>	<u>7:25:04</u>
LATITUDE	<u>9 33 7886 N</u>	<u>9 56.0339 N</u>	
LONGITUDE	<u>86 16 0295 W</u>	<u>85 53.5273</u>	
SHOTPOINT	<u>1</u>	<u>1744</u>	<u>1744</u>
REC NUM	<u>1</u>	<u>744</u>	<u>744</u>
TAPE NUM	<u>350102</u>	<u>350111</u>	<u>10</u>
WATER DEPTH			
DATA LENGTH (SEC) MIN	<u>10</u>	MAX	SAMP RATE (MSEC) <u>4/msec</u>
REP RATE (SEC)	<u>33.3m</u>	FOLD(NOMINAL)	
SEIS TRACES		AUX TRACES	PROBLEM TRACES <u>23, 24, 40, 42, 52, 59</u>
SINGLE CHANNEL MONITOR TRACE #			
DISTANCE TO NEAR TRACE (M)	<u>201 center of reel to center of 90</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>one 6 gun array 1065 c.u.</u>		
NAVIGATION SYSTEM INFO	<u>ONI Land based - MUXILAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE	TIME
<u>COMMENTS:</u> Traces 1-22 of reel 350102, noisy because streamer coming on line STBD array 1065 c.u.			

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CRUISE FM 35-02 LINE # 80 A COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>99/09 APR 87</u>	<u>100/10 APR 87</u>	
TIME(Z)	<u>20:17:43</u>	<u>03:48:49</u>	<u>7:31:06</u>
LATITUDE	<u>9 54.4682 N</u>	<u>9 32.7167 N</u>	
LONGITUDE	<u>85 53.0061 W</u>	<u>86 14.9997 W</u>	
SHOTPOINT	<u>1</u>	<u>1705</u>	<u>1705</u>
REC NUM	<u>1</u>	<u>705</u>	
TAPE NUM	<u>350112</u>	<u>350121</u>	<u>10</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23,24,40,42,52,59</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201 (center of reel to center of 96)</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>One 6-gun array 1065 c.i.</u>		
NAVIGATION SYSTEM INFO	<u>ONI Land-based - MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS: Coming out of sharp turn - tail of streamer
is crooked + noisy as line begins. ONI #61
is first recorded shot.

Reels 350112 → 350120 have wrong ^{reel} number in header

350112 → 350012

350120 → 350020

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LINE INFORMATION

CRUISE FM35-02 LINE # 144 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>100/10 APR 87</u>	<u>100/10 Apr 87</u>	
TIME(Z)	<u>07:03:27</u>	<u>09:51:35</u>	<u>2:48:08</u>
LATITUDE	<u>9 39.2185</u>	<u>9 47.9266 N</u>	
LONGITUDE	<u>86 10.1178</u>	<u>86 13.116 W</u>	
SHOTPOINT	<u>1</u>	<u>683</u>	<u>683</u>
REC NUM	<u>1</u>	<u>683</u>	<u>683</u>
TAPE NUM	<u>350122</u>	<u>350125</u>	

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) _____

REP RATE(SEC) 33.3 FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 32 (intermittent)

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

1 - 3

SOURCE INFO 6 gun array port 1065ci

NAVIGATION SYSTEM INFO Maxiran

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

First line of 3D grid

shots 684-690 are not 'officially' part of line

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LINE INFORMATION

CRUISE FM35-02 LINE # 182 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Sh. play

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>100/10 Apr 87</u>	<u>100/10 APR 87</u>	
TIME(Z) <i>(no logger)</i>	<u>~ 11:20:10</u>	<u>14:11:02</u>	<u>~ 2:40:52</u>
LATITUDE	<u>9 46 44.82 N</u>	<u>9 37.7703</u>	
LONGITUDE	<u>85 59.8844 W</u>	<u>86 8.6627</u>	
SHOTPOINT	<u>1</u>	<u>682</u>	<u>682</u>
REC NUM	<u>1</u>	<u>682</u>	<u>682</u>
TAPE NUM	<u>350126</u>	<u>350129</u>	<u>4</u>
WATER DEPTH	_____	_____	_____
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE <i>dur</i> (SEC)	<u>33.3m</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES _____
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array 1065 c.c. - s/bd</u>		
NAVIGATION SYSTEM INFO	<u>O Marlboro</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
COMMENTS:	<u>grid line</u>		

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LINE INFORMATION

CRUISE FM35-02 LINE # 126 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>100/10APR87</u>	<u>100/10APR87</u>	
TIME(Z)	<u>15:18:35</u>	<u>18:05:31</u>	<u>2:46:56</u>
LATITUDE	<u>940.0737</u>	<u>948.6173</u>	
LONGITUDE	<u>8610.6387</u>	<u>8601.9822</u>	
SHOTPOINT	<u>1</u>	<u>671</u>	<u>671</u>
REC NUM	<u>1</u>	<u>671</u>	<u>671</u>
TAPE NUM	<u>350130</u>	<u>350133</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) _____

REP RATE(SEC) 33.3M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES _____

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun ARKOV 1065ci

NAVIGATION SYSTEM INFO Maxiran

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

last reel 350133 has two eof's at beginning of reel, good data beyond.

6 chan strip tape has only three reels on it.

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LINE INFORMATION

CRUISE Fm 35-02 LINE # 130 COURSE _____
PROJECT (RSD) AREA Costa Rica P.I. Shipton

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>100/10 Apr 87</u>	<u>101/11 Apr 87</u>	
TIME(Z)	<u>23:03:25</u>	<u>01:48:57</u>	<u>02:45:32</u>
LATITUDE	<u>9 39 7508 N</u>	<u>9 48 4712 N</u>	
LONGITUDE	<u>86 10.6321 W</u>	<u>86 18369 W</u>	
SHOTPOINT	<u>2</u>	<u>682</u>	<u>680</u>
REC NUM	<u>2</u>	<u>682</u>	<u>680</u>
TAPE NUM	<u>350138</u>	<u>350141</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4 msec</u>
REP RATE (SEC)	<u>33.3</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 52, 59</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		<u>602</u>
DISTANCE TO NEAR TRACE (M)	<u>701</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array 1065 c.i. - std</u>		
NAVIGATION SYSTEM INFO	<u>Marlin</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
COMMENTS:	<u>Streamer cranked at beginning - noisy</u> <u>quiet by shot 90</u>		

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LINE INFORMATION

CRUISE FM35-02 LINE # 180 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>100/10 APR 87</u>	<u>100/10 Apr 87</u>	
TIME(Z)	<u>19:23:46</u>	<u>22:17:43</u>	<u>2:53:57</u>
LATITUDE	<u>9 46.5412 N</u>	<u>9 37.8467 N</u>	
LONGITUDE	<u>85 59.9522 W</u>	<u>86 8.7397 W</u>	
SHOTPOINT	<u>2 (ON 682)</u>	<u>683</u>	<u>681</u>
REC NUM	<u>2</u>	<u>683</u>	<u>681</u>
TAPE NUM	<u>350134</u>	<u>350137</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3 m</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 52, 59</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array 1065 c.i.</u>		
NAVIGATION SYSTEM INFO	<u>Maxiron</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Record # 1 contains noise only (guns didn't fire).
Streamer bent at start of line -- very noisy.

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LINE INFORMATION

CRUISE Fm35-02 LINE # 178 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipey

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>101/11 Apr 87</u>	<u>101/11 APR 87</u>	
TIME(Z)	<u>05 46 26</u>	<u>08:40:20</u>	<u>2:53:54</u>
LATITUDE	<u>9 46.6263</u>	<u>9 37.9097</u>	
LONGITUDE	<u>86 00.0115</u>	<u>86 8.8285</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350142</u>	<u>350145</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) Three

REP RATE ^{data} (SEC) 33.3m FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23,24,32,40,52,59

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gn array - 1065 c.c.

NAVIGATION SYSTEM INFO Manitara

SHOOTING BY ☒ DISTANCE _____ TIME _____

COMMENTS:

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LINE INFORMATION

CRUISE FM35-02 LINE # 138 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>101/11 APR 87</u>	<u>101/11 Apr 87</u>	
TIME(Z)	<u>10:03:50</u>	<u>12:48:47</u>	<u>2:44:57</u>
LATITUDE	<u>9 39.4459</u>	<u>9 48 16.63 N</u>	
LONGITUDE	<u>86 10.3452</u>	<u>86 1.5312 W</u>	
SHOTPOINT	<u>1</u>	<u>681</u>	<u>681</u>
REC NUM	<u>1</u>	<u>680</u>	<u>680</u>
TAPE NUM	<u>350146</u>	<u>350149</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3 M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 52, 59</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 c.i.</u>		
NAVIGATION SYSTEM INFO	<u>Maxiran</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Started on ONI #5
trouble w/ port array at shot # 235, stbd array engaged at shot # 245, stbd array settled down at shot # 254

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LINE INFORMATION

CRUISE Fm35-02 LINE # 176 COURSE _____
PROJECT CRJD AREA Costa Rica P.I. Shyke

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>101/11 Apr 87</u>	<u>101/11 APR 87</u>	
TIME(Z)	<u>13:49:37</u>	<u>16:53:15</u>	<u>3:03:38</u>
LATITUDE	<u>9 46 7393 N</u>	<u>9 37.9856</u>	
LONGITUDE	<u>-86 01752 W</u>	<u>86 08, 9038</u>	
SHOTPOINT	<u>1</u>	<u>682</u>	<u>682</u>
REC NUM	<u>1</u>	<u>682</u>	<u>682</u>
TAPE NUM	<u>350150</u>	<u>350153</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3m</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 52, 59</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 c.i. STBD</u>		
NAVIGATION SYSTEM INFO	<u>Marivan</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Slowed down at beginning to switch compressors

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LINE INFORMATION

CRUISE FM 3502 LINE # 142 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>101/11 APR 87</u>	<u>101/11 APR 87</u>	
TIME(Z)	<u>18:16:44</u>	<u>21:10 46</u>	
LATITUDE			
LONGITUDE			
SHOTPOINT	<u>3</u>	<u>663</u>	
REC NUM	<u>1</u>	<u>663</u>	
TAPE NUM	<u>350154</u>	<u>350157</u>	<u>4</u>
WATER DEPTH			
DATA LENGTH (SEC) MIN	<u>10</u>	MAX	
SAMP RATE (MSEC)			<u>4 msec</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL)	
SEIS TRACES		AUX TRACES	PROBLEM TRACES <u>2324, 32, 40 52, 59</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 GUN ARPPY D65ci</u>		
NAVIGATION SYSTEM INFO	<u>Maxiran - ONI</u>		
SHOOTING BY	<u>✓</u>	DISTANCE	TIME
COMMENTS:	<u>33.33M</u>		

shot and rec in sync at # 9
GUS paused by mistake -- missed ONI shot points # 634-645.
Missed ~ 9 more shots (some time after ONI 650) due
to high speed. GUS cycling too fast. about 1 of 5 missed
will reconcile with time.

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LINE INFORMATION

CRUISE FM 35-02 LINE # 114 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>101/11 APR 87</u>	<u>102/12 Apr 87</u>	
TIME(Z)	<u>22:36:32</u>	<u>01:22:10</u>	<u>2:41:38</u>
LATITUDE	<u>9 46 1801 N</u>	<u>9 38 0584 N</u>	
LONGITUDE	<u>86 01649 W</u>	<u>86 8.9761 W</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350158</u>	<u>350161</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3 M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23,24,32,40,52,59</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 Gun array 1065 c.i.</u>		
NAVIGATION SYSTEM INFO	<u>Mariran - OAI</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Streamer crooked until shot # 50

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LINE INFORMATION

CRUISE FM75-02 LINE # 140 COURSE _____

PROJECT CR3D AREA Costa Rica P.I. Shapiro

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>102/12 Apr 87</u>	<u>102/12 APR 87</u>	
TIME(Z)	<u>02:47:04</u>	<u>05:45:15</u>	<u>2:58:11</u>
LATITUDE	<u>09 39.3659</u>	<u>09 48.0875</u>	
LONGITUDE	<u>006 10.2648</u>	<u>086 01.4530</u>	
SHOTPOINT	<u>1</u>	<u>663</u>	<u>663</u>
REC NUM	<u>1</u>	<u>661</u>	<u>661</u>
TAPE NUM	<u>350162</u>	<u>350165</u>	<u>4</u>
WATER DEPTH	_____	_____	

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4/mec

REP RATE ^{dur}(SEC) 33.3m FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 32, 40, 50, 59, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun array 1065 c.i. starboard

NAVIGATION SYSTEM INFO Marlinan - ONI

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

missed ~ 23 shots after 351, GUS drive offline
Logger crashed, GUS restarted, Logger in 1 min mode
Crashed again then rebooted

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LINE INFORMATION

CRUISE FM 35-02 LINE # 172 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. _____

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>102/12 APR 87</u>	<u>102/12 Apr 87</u>	
TIME(Z)	<u>7:25:22</u>	<u>10:11:42</u>	<u>2:46:20</u>
LATITUDE	<u>9 46.8572 N</u>	<u>9 38 13.76 N</u>	
LONGITUDE	<u>86 0.2426 W</u>	<u>86 9 05.60 W</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350166</u>	<u>350169</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23,24,32,40,52,59,86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array</u>	<u>stbd</u>	<u>106Sci</u>
NAVIGATION SYSTEM INFO	<u>Maxiran</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Start ONI # = 684

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LINE INFORMATION

CRUISE Fm 35-02 LINE # 136 COURSE _____
PROJECT CRJD AREA Costa Rica P.I. Shapiro

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>102/12 Apr 87</u>	<u>102/12 APR 87</u>	
TIME(Z)	<u>11:48:57</u>	<u>14:32:28</u>	<u>2:53:31</u>
LATITUDE	<u>9 39 5332 N</u>	<u>09 48.2407</u>	
LONGITUDE	<u>81 10 4073 W</u>	<u>86 01.6061</u>	
SHOTPOINT	<u>1</u>	<u>683</u>	<u>683</u>
REC NUM	<u>7</u>	<u>684</u>	<u>683</u>
TAPE NUM	<u>350170</u>	<u>350173</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE (SEC)	<u>33.3m</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>324, 32, 40, 52, 59, 81</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array 1065 c.i. starboard</u>		
NAVIGATION SYSTEM INFO	<u>Mafra</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

1st record on tape 350170 is noise
gun cycled before getting closure from ONI

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LINE INFORMATION

CRUISE FM35-02 LINE # 170 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY-UTIG

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>102/12 APR 87</u>	<u>102/12 APR 87</u>	
TIME(Z)	<u>15:42:30</u>	<u>18:40:00</u>	<u>2:57:30</u>
LATITUDE	<u>09 46.9233</u>	<u>09 38.2139</u>	
LONGITUDE	<u>086 00.3338</u>	<u>86 09.1321</u>	
SHOTPOINT	<u>1</u>	<u>661</u>	<u>661</u>
REC NUM	<u>1</u>	<u>661</u>	<u>661</u>
TAPE NUM	<u>350174</u>	<u>350177</u>	<u>4</u>
WATER DEPTH	_____	_____	

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23,24,32,40,52,59,86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun

NAVIGATION SYSTEM INFO Maxiran - ONI

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS: 33.3M

no air - started recording anyway
1st 8 shots are noise, 1st good shot is 9
lost air shut down at shot 194 ONI 492
start up at 198 ONI 464 lost 228 shots

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LINE INFORMATION

CRUISE FM 35-02 LINE # 134 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>102/12 Apr 87</u>	<u>102/12 Apr 87</u>	
TIME(Z)	<u>19:59:43</u>	<u>22:47:36</u>	<u>2:47:53</u>
LATITUDE	<u>09 39.5970</u>	<u>09 48 3061 N</u>	
LONGITUDE	<u>86 10.4968</u>	<u>86 1.6971 W</u>	
SHOTPOINT	<u>1</u>	<u>683</u>	<u>683</u>
REC NUM	<u>1</u>	<u>683</u>	<u>683</u>
TAPE NUM	<u>350178</u>	<u>350183</u>	<u>4 tapes</u>
WATER DEPTH			
DATA LENGTH (SEC) MIN	<u>10</u>	MAX	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL)	
SEIS TRACES		AUX TRACES	PROBLEM TRACES <u>23, 24, 32, 40, 52, 59, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 c.i.</u>		
NAVIGATION SYSTEM INFO	<u>Maxiran - ONI</u>		
SHOOTING BY	<u>✓</u>	DISTANCE	TIME
<u>COMMENTS:</u>			

problem with port array - switched to starboard

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LINE INFORMATION

CRUISE FM35-02 LINE # 168 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>103/13 Apr 87</u>	<u>103/13 APR 87</u>	
TIME(Z)	<u>01:05:43</u>	<u>03:52:26</u>	<u>2:46:23</u>
LATITUDE	<u>9 47 00.7 N</u>		
LONGITUDE	<u>86 03 92.4 W</u>		
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350182</u>	<u>350185</u>	<u>4</u>
WATER DEPTH			
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4 msec</u>
REP RATE(SEC)	<u>333m</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 52, 59,</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		<u>82</u>
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun 1065m away</u>	<u>Port array</u>	
NAVIGATION SYSTEM INFO	<u>GPS - Matran</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

108 ci fire times ± 0.5 ms

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LINE INFORMATION

CRUISE FM 35-02 LINE # 132 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>103/13 APR 87</u>	<u>103 / 13 Apr 87</u>	
TIME(Z)	<u>05:23:22</u>	<u>08:18:44</u>	<u>2:55:22</u>
LATITUDE	<u>09 39.6745</u>	<u>09 48.3958</u>	
LONGITUDE	<u>086 10.5734</u>	<u>86 1.7608</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350186</u>	<u>350189</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23,24,32,40,52,59,86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gm array 1065 ci</u>		
NAVIGATION SYSTEM INFO	<u>ONI - Maxiran</u>		
SHOOTING BY	<u>33.3M</u>	DISTANCE _____	TIME _____

COMMENTS:

Boat near tail buoy at end of line.

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LINE INFORMATION

CRUISE FM 35-02 LINE # 166 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>103/13 Apr 87</u>	<u>103/13 Apr 87</u>	
TIME(Z)	<u>09:31:03</u>	<u>12:27:35</u>	<u>2:56:32</u>
LATITUDE	<u>09 47.0853</u>	<u>09 38.3840 N</u>	
LONGITUDE	<u>86 0.4697</u>	<u>86 9.2767 W</u>	
SHOTPOINT	<u>1</u>	<u>683</u>	<u>683</u>
REC NUM	<u>1</u>	<u>683</u>	<u>683</u>
TAPE NUM	<u>350190</u>	<u>350193</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 52, 59, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 c.c.</u>		
NAVIGATION SYSTEM INFO	<u>ONI - Maxiran</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Start on ONI #684

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LINE INFORMATION

CRUISE FM35-02 LINE # 128 COURSE _____
PROJECT CNDD AREA Costa Rica P.I. Shipton

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>103/13 Apr 87</u>	<u>103/13 APR 87</u>	
TIME(Z)	<u>14:32:32</u>	<u>17:25:16</u>	<u>2:52:44</u>
LATITUDE	<u>09 39.8260</u>	<u>09 48.5444</u>	
LONGITUDE	<u>086 10.7255</u>	<u>086 01.9099</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350194</u>	<u>350197</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE (SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40,</u> <u>52, 59, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 C.L. STBD</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAVIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
COMMENTS:	<u>no problems</u>		

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LINE INFORMATION

CRUISE FM35-02 LINE # 164 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>103/13 Apr 87</u>	<u>103/13 Apr 87</u>	
TIME(Z)	<u>18:35:52</u>	<u>21:21:54</u>	<u>2:46:02</u>
LATITUDE	<u>9 47.1623</u>	<u>9 38 4850N</u>	
LONGITUDE	<u>86 0.5475</u>	<u>86 9.4045 W</u>	
SHOTPOINT	<u>1</u>	<u>681</u>	<u>681</u>
REC NUM	<u>1</u>	<u>681</u>	<u>681</u>
TAPE NUM	<u>350198</u>	<u>350201</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC) ^{and} <u>33.3M</u>	FOLD(NOMINAL) _____		
SEIS TRACES _____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 52, 59</u>	<u>86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array 1065 ci</u>		
NAVIGATION SYSTEM INFO	<u>ONI - Maxiran</u>		
SHOOTING BY <u>✓</u>	DISTANCE _____	TIME _____	

COMMENTS:

ONI started to be noisy at shot 465
and continued to be unreliable to end of line

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LINE INFORMATION

CRUISE FM3S-02 LINE # 124 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>104/14APR87</u>	<u>104/14APR87</u>	
TIME(Z)	<u>02:24:32</u>	<u>05:20:48</u>	
LATITUDE	<u>09 39.8034</u>	<u>09 48.7017</u>	
LONGITUDE	<u>086 11.0672</u>	<u>086 02.0665</u>	
SHOTPOINT	<u>1</u>	<u>683</u>	<u>683</u>
REC NUM	<u>1</u>	<u>683</u>	<u>683</u>
TAPE NUM	<u>350202</u>	<u>350205</u>	<u>4</u>
WATER DEPTH			
DATA LENGTH (SEC) MIN	<u>10</u>	MAX	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL)	
SEIS TRACES		AUX TRACES	PROBLEM TRACES <u>23,24,32,40,52,59,86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 GUN array PORT</u>	<u>1065ci</u>	
NAVIGATION SYSTEM INFO	<u>OMI-Maxiran</u>		
SHOOTING BY	<u>✓</u>	DISTANCE	TIME
<u>COMMENTS:</u>			

MISSED ONE SHOT 301.4

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LINE INFORMATION

CRUISE FM 35-02 LINE # 162 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>104/14 APR 87</u>	<u>104/14 APR 87</u>	
TIME(Z)	<u>06:44:08</u>	<u>09:35:07</u>	<u>2:50:59</u>
LATITUDE	<u>9 47.2383</u>	<u>9 38.5205</u>	
LONGITUDE	<u>86 0.6234</u>	<u>86 9.4389</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350206</u>	<u>350209</u>	<u>4</u>
WATER DEPTH	_____	_____	

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 32, 40, 52, 59, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 GUN TUNED ARRAY 1065ci

NAVIGATION SYSTEM INFO ONI - MAXIRAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS: Start on ONI # 683

Low Pressure noticed at about shot # 645.
Tried to change arrays - missed shots 650-662
(approximate) due to bad connection.

First good shot on 350209 is 528 - 526-527 written over

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LINE INFORMATION

CRUISE 35-02 LINE # 122 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>104/14 Apr 87</u>	<u>104/14 APR 87</u>	
TIME(Z)	<u>11:29:34</u>	<u>14:17:51</u>	<u>2:48:17</u>
LATITUDE	<u>9 40.0575 N</u>	<u>09 48.7791</u>	
LONGITUDE	<u>86 10.9575 W</u>	<u>086 02.1445</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350210</u>	<u>350213</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE (SEC)	<u>33.3 M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 52, 59, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 GUN ARRAY - 1065 c.i., stbd array</u>		
NAVIGATION SYSTEM INFO	<u>Marivan - ONI</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

intermittent closure problems with 108 c.i. gun in
stbd array +/- 2 msec.

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LINE INFORMATION

CRUISE FM35-62 LINE # 160 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shupey

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>104/14 Apr 87</u>	<u>104/14 Apr 87</u>	
TIME(Z)	<u>15:31:38</u>	<u>18:28:09</u>	<u>2:56:31</u>
LATITUDE	<u>09 47.3204</u>	<u>09 38.5998</u>	
LONGITUDE	<u>086 00.7050</u>	<u>86 9.5178</u>	
SHOTPOINT	<u>1</u>	<u>665</u>	<u>665</u>
REC NUM	<u>1</u>	<u>664</u>	<u>664</u>
TAPE NUM	<u>350214</u>	<u>350218</u>	<u>5</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE ^{dist} (SEC) 33.3m FOLD(NOMINAL) 48

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23,24,32,40,52,59,66

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201 m

DISTANCE TO FAR TRACE (M) 3367 m

SOURCE INFO 6 gun 1065 c.u. array

NAVIGATION SYSTEM INFO ONL-MAXIMUM

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

Tape header for reel 218 is 217,
missed 430-436

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LINE INFORMATION

CRUISE FM 35-02 LINE # 120 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. Shipton

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>104/14 Apr 87</u>	<u>104/14 Apr 87</u>	
TIME(Z)	<u>20:22:05</u>	<u>23:05:01</u>	<u>2:42.56</u>
LATITUDE	<u>09 40.6207</u>	<u>09 48 8553 N</u>	
LONGITUDE	<u>86 10.5445</u>	<u>86 2.2207 W</u>	
SHOTPOINT	<u>15</u>	<u>659</u>	<u>645</u>
REC NUM	<u>15</u>	<u>659</u>	<u>645</u>
TAPE NUM	<u>350219</u>	<u>350222</u>	<u>4 tapes</u>
WATER DEPTH			
DATA LENGTH (SEC) MIN	<u>10</u>	MAX	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3 M</u>	FOLD(NOMINAL)	<u>48</u>
SEIS TRACES		AUX TRACES	PROBLEM TRACES
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201 M</u>		
DISTANCE TO FAR TRACE (M)	<u>3367 M</u>		
SOURCE INFO	<u>6 gun array - 1065 c.t.</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE	TIME

COMMENTS:

Gus problem \Rightarrow record 1 = ONI # 25.
Data logger problem \Rightarrow record 15 = first logged shot.

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LINE INFORMATION

CRUISE Fm35-02 LINE # 158 COURSE _____
PROJECT CN3D AREA Costa Rica P.I. Shylock

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>105/15 Apr 87</u>	<u>105/15 APR 87</u>	
TIME(Z)	<u>01:17:18.1</u>	<u>03:57:46</u>	<u>2:40:28</u>
LATITUDE	<u>9 47.3532 N</u>	<u>09 38.6603</u>	
LONGITUDE	<u>86 0.8151 W</u>	<u>086 09.5781</u>	
SHOTPOINT	<u>4</u>	<u>684</u>	<u>681</u>
REC NUM	<u>4</u>	<u>684</u>	<u>681</u>
TAPE NUM	<u>350223</u>	<u>350226</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE (SEC)	<u>33.3m</u>	FOLD(NOMINAL) <u>48</u>	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23,24,32,40,45,52,59,86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201 m</u>		
DISTANCE TO FAR TRACE (M)	<u>3367 m</u>		
SOURCE INFO	<u>6 gun array - 1065 c.i. port</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

1st 3 shots are at 17 sec intervals and not distance
shot #4 is the first shot definitely triggered by ONI
all are recorded
ONI - signal weak at last 1/4 of line

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LINE INFORMATION

CRUISE FM35-02 LINE # 118 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>105/15 APR 87</u>	<u>105/15 Apr 87</u>	
TIME(Z)	<u>05:23:49</u>	<u>06:04:52</u>	<u>00:41:03</u>
LATITUDE	<u>09 40.1978</u>	<u>09 42.5443</u>	
LONGITUDE	<u>086 11.0964</u>	<u>86 8.7456</u>	
SHOTPOINT	<u>1</u>	<u>175</u>	<u>175</u>
REC NUM	<u>1</u>	<u>175</u>	<u>175</u>
TAPE NUM	<u>350227</u>	<u>350227</u>	<u>1</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>9</u>	MAX <u>10</u>	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23,24,32,40,45,52,59,86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>	<u>from reel to group 26</u>	
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array</u>		
NAVIGATION SYSTEM INFO	<u>ONI - maxiran</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

missed ~ 3 slots at start going too fast
for gvs to cycle - at shot 23, changed
record length to 9 secs.
Line Aborted at shot 175 - will reshoot.

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LINE INFORMATION

CRUISE FM 35-02 LINE # 164 A COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY-UTIG

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>105/15 Apr 87</u>	<u>105/15 Apr 87</u>	
TIME(Z)	<u>07:14:31</u>	<u>08:08:30</u>	<u>00:53:59</u>
LATITUDE	<u>09 40.9077</u>	<u>09 38.4434</u>	
LONGITUDE	<u>86 6.8721</u>	<u>86 9.3621</u>	
SHOTPOINT	<u>6</u>	<u>199</u>	
REC NUM	<u>6</u>	<u>199</u>	
TAPE NUM	<u>350229</u>	<u>350230</u>	<u>2</u>
WATER DEPTH			
DATA LENGTH (SEC) MIN	<u>10</u>	MAX	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL)	
SEIS TRACES		AUX TRACES	PROBLEM TRACES
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>G-GUN ARRAY 1065ci</u>		
NAVIGATION SYSTEM INFO	<u>ONI-MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE	TIME

COMMENTS:

Reshoot of noisy part of Line 164 (last 194 shots).
Shots 1-5 written to reel 350228, then tape ended and started writing to 350229 -- due to problem w/MT. 350228 rerecorded, so it no longer exists.

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LINE INFORMATION

CRUISE FM35-02 LINE # 118 A COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY-UTIG

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>105/15 Apr 87</u>	<u>105/15 Apr 87</u>	
TIME(Z)	<u>09:40:39</u>	<u>12:30:31</u>	<u>2:49:52</u>
LATITUDE	<u>09 40.2107 N</u>	<u>09 48.9400 N</u>	
LONGITUDE	<u>86 11.1092 W</u>	<u>86 2.2811 W</u>	
SHOTPOINT	<u>1</u>	<u>662</u>	<u>662</u>
REC NUM	<u>1</u>	<u>662</u>	<u>662</u>
TAPE NUM	<u>350231</u>	<u>350234</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 45, 53</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		<u>59, 86</u>
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>G-GUN ARRAY 1065ci</u>		
NAVIGATION SYSTEM INFO	<u>ONI-MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Reshoot of line 118.
Missed approximately every other shotpoint until
ONI # 56 (record 35).

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LINE INFORMATION

CRUISE FM 35-02 LINE # 156 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY-UTIG

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>105/15 Apr 87</u>	<u>105/15 APR 87</u>	
TIME(Z)	<u>14:29:24</u>	<u>17:21:14</u>	
LATITUDE	<u>09 47.4686</u>	<u>09 38.7502</u>	
LONGITUDE	<u>086 00.8541</u>	<u>086 09.6693</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350235</u>	<u>350238</u>	<u>4</u>
WATER DEPTH			
DATA LENGTH (SEC) MIN	<u>10</u>	MAX	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL)	
SEIS TRACES		AUX TRACES	PROBLEM TRACES <u>23, 24, 32, 40, 45, 52,</u> <u>59, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>701</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6-GUN ARRAY 1065ci</u>		
NAVIGATION SYSTEM INFO	<u>ONI-MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE	TIME
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE FM 35-02 LINE # 116 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY-UTIG

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>105/15 APR 87</u>	<u>105/15 Apr 87</u>	
TIME(Z)	<u>19:31:09</u>	<u>22:21:03</u>	<u>2:49:54</u>
LATITUDE	<u>9 40.3245</u>	<u>9 48 99.30 N</u>	
LONGITUDE	<u>86 11.1467</u>	<u>86 2.3831 W</u>	
SHOTPOINT	<u>4</u>	<u>683</u>	<u>679</u>
REC NUM	<u>4</u>	<u>683</u>	<u>679</u>
TAPE NUM	<u>350239</u>	<u>350242</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 45, 52</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		<u>59, 86</u>
DISTANCE TO NEAR TRACE (M)	<u>201 m</u>		
DISTANCE TO FAR TRACE (M)	<u>3367 m</u>		
SOURCE INFO	<u>6-GUN ARRAY 1065ci</u>		
NAVIGATION SYSTEM INFO	<u>ONI-MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Records 1-3 contain noise only.

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LINE INFORMATION

CRUISE FM 35-02 LINE # 154 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY-UTIG

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>105/15 Apr 87</u>	<u>106/16 Apr 87</u>	
TIME(Z)	<u>23:32:18</u>	<u>02:28:37</u>	<u>02:56:19</u>
LATITUDE	<u>9 47.5444 N</u>	<u>09 38.8272</u>	
LONGITUDE	<u>86 0.9294 W</u>	<u>086 09.7460</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350243</u>	<u>350246</u>	<u>< Napes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 45, 52,</u> <u>59, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201m</u>		
DISTANCE TO FAR TRACE (M)	<u>3367m</u>		
SOURCE INFO	<u>6-GUN ARRAY KGS ci</u>		
NAVIGATION SYSTEM INFO	<u>ONI-MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
COMMENTS:	<u>Ship crossed bow ~ 230-280</u>		

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LINE INFORMATION

CRUISE FM 35-02 LINE # 114 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY-UTIG

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>106/16 APR 87</u>	<u>106/16 Apr 87</u>	
TIME(Z)	<u>04:25:48</u>	<u>07:21:40</u>	<u>2:56:52</u>
LATITUDE	<u>9 40.3653</u>	<u>9 49.0820</u>	
LONGITUDE	<u>86 11.2647</u>	<u>86 2.4472</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350247</u>	<u>350250</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23,24,32,40,45,52,59,86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>G-GUN ARRAY 1065ci</u>		
NAVIGATION SYSTEM INFO	<u>ONI-MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE FM 35-02 LINE # 152 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shiplay

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>106/16 Apr 87</u>	<u>106/16 Apr 87</u>	
TIME(Z)	<u>08:42:22</u>	<u>11:31:18</u>	<u>2:48:56</u>
LATITUDE	<u>09 47.5629</u>	<u>09 38.8956 N</u>	
LONGITUDE	<u>86 1.0763</u>	<u>86 9.8243 W</u>	
SHOTPOINT	<u>5</u>	<u>684</u>	<u>684</u>
REC NUM	<u>6</u>	<u>684</u>	<u>683</u>
TAPE NUM	<u>350251</u>	<u>350254</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 45, 52, 53, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAYIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Shot # reset to 10 at REC # 10

Start line at ONI # 679

intermittent closure problem on gun #1 - 429 C.C. in
array - maybe 6 times during the line.

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LINE INFORMATION

CRUISE Fm35-02 LINE # 112 COURSE _____

PROJECT CLTD AREA Costa Rica P.I. Shipey

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>106 116 Apr 87</u>	<u>106 116 APR 87</u>	
TIME(Z)	<u>13:42:49</u>	<u>16:36:06</u>	<u>02:53:17</u>
LATITUDE	<u>9 40.4573N</u>	<u>09 49.1594</u>	
LONGITUDE	<u>86 11.3254</u>	<u>086 02.5245</u>	
SHOTPOINT	<u>2</u>	<u>684</u>	<u>683</u>
REC NUM	<u>2</u>	<u>684</u>	<u>683</u>
TAPE NUM	<u>350255</u>	<u>350258</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE ^{dist} (SEC)	<u>33.3m</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 45, 52,</u> <u>57, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>33</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array 1065 c.c port</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAXIRAIN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

logger did not record shot #1 - although 1st shot occurred as expected

switch to STBD array at shot 311

GARZA DOWN AT END OF LINE

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LINE INFORMATION

CRUISE FM 35-02 LINE # 150 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>106/16 Apr 87</u>	<u>106/16 Apr 87</u>	
TIME(Z)	<u>18:00:23</u>	<u>20:54:14</u>	<u>2:53:51</u>
LATITUDE	<u>09 47.6980</u>	<u>09 38.9795</u>	
LONGITUDE	<u>086 01.0829</u>	<u>86 09.8983</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350259</u>	<u>350262</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) _____

REP RATE(SEC) 33.3M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 32, 40, 45, 52, 59, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun array 106500

NAVIGATION SYSTEM INFO ON11-Maxiran

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

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LINE INFORMATION

CRUISE FM 35-02 LINE # 110 COURSE _____

PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>106/16 Apr 87</u>	<u>107/17 Apr 87</u>	
TIME(Z)	<u>22:47:31</u>	<u>01:43:47</u>	<u>2:56:16</u>
LATITUDE	<u>9 40.5722 N</u>	<u>09 49.2343 N</u>	
LONGITUDE	<u>86 11.4166 W</u>	<u>86 2.5991 W</u>	
SHOTPOINT	<u>10</u>	<u>683</u>	<u>673</u>
REC NUM	<u>10</u>	<u>683</u>	<u>673</u>
TAPE NUM	<u>350263</u>	<u>350266</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE (SEC)	<u>33.3 M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 45, 52, 59, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

- Problem with Arcon box - first good shot #10 - (1-9 are noise + shots #23-27 have large closure errors on 428 cil gun - ^(10 msec) same shots)
- Switch to subd array shot #43
- lot of current (>2 kts) so streamer is not directly behind ship along the line - adds to noise problem as well
- somehow shot was missed during last reel - gun / logger problem? (although nothing unusual seemed to happen) - maybe too fast?

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LINE INFORMATION

CRUISE FM35-02 LINE # 148 COURSE _____
PROJECT CRJD AREA Costa Rica P.I. Shapiro

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>107/17 Apr 87</u>	<u>107/17 Apr 87</u>	
TIME(Z)	<u>03:24:15</u>	<u>06:24:57</u>	<u>03:00:42</u>
LATITUDE	<u>09 47.7756N</u>	<u>09 39.0558</u>	
LONGITUDE	<u>086 01.1609W</u>	<u>86 09.9745</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350267</u>	<u>350270</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE (SEC) ^{and} <u>33.3m</u>	FOLD(NOMINAL) _____		
SEIS TRACES _____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 45,</u> <u>52, 59, 86</u>	
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 c.c.</u>		
NAVIGATION SYSTEM INFO	<u>ONI-MAXIMAN</u>		
SHOOTING BY <u>✓</u>	DISTANCE _____	TIME _____	

COMMENTS:

Strong current ~2.5 kts - large amount of feathering ~25°

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LINE INFORMATION

CRUISE FM 35-02 LINE # 106 COURSE _____
PROJECT CR3B AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>107/17 Apr 87</u>	<u>107/17 Apr 87</u>	
TIME(Z)	<u>08:02:40</u>	<u>10:57:21</u>	<u>2:54:41</u>
LATITUDE	<u>09 40.6680</u>	<u>09 49 3742N</u>	
LONGITUDE	<u>86 11.5680</u>	<u>86 2.7650 W</u>	
SHOTPOINT	<u>1</u>	<u>682</u>	<u>682</u>
REC NUM	<u>1</u>	<u>682</u>	<u>682</u>
TAPE NUM	<u>350271</u>	<u>350274</u>	<u>4 Tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3 M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23,24,32,40,45,52,59,86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>28</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6-gun</u>	<u>1065 c.u.</u>	
NAVIGATION SYSTEM INFO	<u>ONI - MAYIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

lost one shot on 1st reel - unknown cause

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LINE INFORMATION

CRUISE FM35-02 LINE # 146 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shepley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>107/17 Apr 87</u>	<u>107/17 Apr 87</u>	
TIME(Z)	<u>12:50:24</u>	<u>15:35:58</u>	<u>02:45:34</u>
LATITUDE	<u>9 47.7876 N</u>	<u>9 39.0885</u>	
LONGITUDE	<u>86 1.3007 W</u>	<u>86 10.0064</u>	
SHOTPOINT	<u>1</u>	<u>677</u>	<u>677</u>
REC NUM	<u>1</u>	<u>677</u>	<u>677</u>
TAPE NUM	<u>350275</u>	<u>350278</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4 msec</u>
REP RATE(SEC)	<u>333m</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		<u>45, 52, 59, 86</u>
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 - gun 1065 c.l.</u>		
NAVIGATION SYSTEM INFO	<u>ONT - MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Missed last 3 ONT shot - direction/one problem

1412 → ONT → TAMARINDO GONE

WILL RESHOOT FROM ~ SP 330

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LINE INFORMATION

CRUISE EM 35-02 LINE # 200 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>107/17 APR 87</u>	<u>107/17 APR 87</u>	
TIME(Z)	<u>17:52:59</u>	<u>20:14:07</u>	<u>2:21:08</u>
LATITUDE	<u>9 42.3875</u>	<u>9 36.9973</u>	
LONGITUDE	<u>86 12.0383</u>	<u>86 6.7761</u>	
SHOTPOINT	<u>3</u>	<u>415</u>	<u>413</u>
REC NUM	<u>3</u>	<u>415</u>	<u>413</u>
TAPE NUM	<u>350279</u>	<u>350281</u>	<u>3</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) _____

REP RATE(SEC) 33.3M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 2324, 3240, 45, 52, 59, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201 center of reel to center of group 96

DISTANCE TO FAR TRACE (M) 3367 center of reel to center of group 1

SOURCE INFO 6 GUN ARRAY - 1065 ci

NAVIGATION SYSTEM INFO ONI - MAXIRAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS: WROTE 2 shots to reel 350279 then switch to 350280
reset reel counter back to 350279 at shot 6

Gun 1B2 misfiring from about record # 314 (same as shot # 314),
Down to 1225 ci.

55

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LINE INFORMATION

CRUISE FM 35-02 LINE # 204 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>107/17 Apr 87</u>	<u>108/18 Apr 87</u>	
TIME(Z)	<u>22:46:02</u>	<u>00:03:54</u>	<u>1:17:52</u>
LATITUDE	<u>9 38 53.1 N</u>	<u>9 43.8796 N</u>	
LONGITUDE	<u>86 5.2594 W</u>	<u>86 10 5999 W</u>	
SHOTPOINT	<u>1</u>	<u>213</u>	<u>213</u>
REC NUM	<u>1</u>	<u>213</u>	<u>213</u>
TAPE NUM	<u>350282</u>	<u>350284</u>	<u>2 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>11</u>
REP RATE(SEC)	<u>50 m</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23,24,32,40,45,52,59,86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		<u>5,73</u>
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3364</u>		
SOURCE INFO	<u>6 Gun array - 1065 ci.</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

MTD unloaded belt so missed ONT # ~ 100-95
Missed record # 176 - reel 350283, unloaded went to next reel
reel counter updated → 350284 for slot # 177

NO REEL 350283

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LINE INFORMATION

CRUISE Fm35-02 LINE # 208 COURSE _____
PROJECT CRTD AREA Costa Rican P.I. Shipton

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>108/18 Apr 87</u>	<u>108/18 APR 87</u>	
TIME(Z)	<u>01:15:18</u>	<u>03:06:57</u>	<u>01:51:39</u>
LATITUDE	<u>9 45.4045 N</u>	<u>09 40.0527</u>	
LONGITUDE	<u>86 9.0736 W</u>	<u>086 03.7203</u>	
SHOTPOINT	<u>1</u>	<u>414</u>	<u>414</u>
REC NUM	<u>1</u>	<u>414</u>	<u>414</u>
TAPE NUM	<u>350285</u>	<u>350287</u>	<u>3</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4 msec

REP RATE(SEC) 33.3 M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 32, 40, 45, 52,

SINGLE CHANNEL MONITOR TRACE # 88 59, 50, 73, 86

DISTANCE TO NEAR TRACE (M) 701

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun 110 bore array

NAVIGATION SYSTEM INFO ONI - MAXIMIAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

ONI bad signal - lost 3 shots between ONI #45 + 50
lost shot 351 on reel 350287

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LINE INFORMATION

CRUISE FM 35-02 LINE # 212 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>08/18 APR 87</u>	<u>108/18 APR 87</u>	
TIME(Z)	<u>04:17:06</u>	<u>05:44:59</u>	<u>01:27:53</u>
LATITUDE	<u>09 41.5655</u>	<u>09 46.9277</u>	
LONGITUDE	<u>086 02.2081</u>	<u>086 07.5507</u>	
SHOTPOINT	<u>1</u>	<u>279</u>	<u>279</u>
REC NUM	<u>1</u>	<u>279</u>	<u>279</u>
TAPE NUM	<u>350288</u>	<u>350289</u>	
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>50. M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 45, 50, 52</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		<u>59, 73, 86</u>
DISTANCE TO NEAR TRACE (M)	_____		
DISTANCE TO FAR TRACE (M)	_____		
SOURCE INFO	<u>6 GUN ARRAY</u>		
NAVIGATION SYSTEM INFO	<u>ONI- MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE FM 35-02 LINE # 216 COURSE _____
PROJECT CB3D AREA COSTA RICA P.I. _____

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>108/18 APR 87</u>	<u>108/18 APR 87</u>	
TIME(Z)	<u>06:44:08</u>	<u>08:39:09</u>	<u>1:55:01</u>
LATITUDE	<u>09 48.4592</u>	<u>09 43.1043</u>	
LONGITUDE	<u>86 6.0186</u>	<u>86 0.6684</u>	
SHOTPOINT	<u>1</u>	<u>414</u>	<u>414</u>
REC NUM	<u>1</u>	<u>412</u>	<u>412</u>
TAPE NUM	<u>350290</u>	<u>350292</u>	<u>3</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 32, 40, 45, 50, 52
59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 GUN ARRAY

NAVIGATION SYSTEM INFO ONI-MAXIRAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

Start on ONI # 1 ; missed ONI # 6, 7, 9, (10?).
Working again at shot # 8, record # 6.

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LINE INFORMATION

CRUISE 35-02 LINE # 220 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>108/18 APR 87</u>	<u>108/18 Apr 87</u>	
TIME(Z)	<u>09:54:08</u>	<u>11:11:50</u>	<u>01:17:42</u>
LATITUDE	<u>09 44.6564</u>	<u>09 50 0058 N</u>	
LONGITUDE	<u>85 59.1542</u>	<u>86 4.5115 W</u>	
SHOTPOINT	<u>415</u>	<u>278</u>	<u>278</u>
REC NUM	<u>1</u>	<u>279</u>	<u>279</u>
TAPE NUM	<u>350293</u>	<u>350294</u>	<u>2 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>50 m</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 45, 50, 52,</u> <u>53, 73, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 c.i.</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Compressor trouble at shot #217 - stopped shooting, although continued recording so tape 350294 has a bunch of ITB noise records start shooting at record # 266 - logger started at record # 269 + continue as normal to end.

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LINE INFORMATION

CRUISE Fm35-02 LINE # 218 COURSE _____

PROJECT CNSD AREA Costa Rica P.I. Shapiro

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>100 / 18 Apr 87</u>	<u>108 / 18 APR 87</u>	
TIME(Z)	<u>13:15:49</u>	<u>14:59:58</u>	<u>01:44:11</u>
LATITUDE	<u>9 49 2230 N</u>	<u>09 43.8703</u>	
LONGITUDE	<u>86 5.2548 W</u>	<u>085 59.9017</u>	
SHOTPOINT	<u>1</u>	<u>418</u>	<u>418</u>
REC NUM	<u>1</u>	<u>418</u>	<u>418</u>
TAPE NUM	<u>350295</u>	<u>350297</u>	<u>3</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE ^{ant} 33.3m FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 32, 40, 45, 50
52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun array - 1065 C.L.

NAVIGATION SYSTEM INFO ONI - MAXIRAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

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LINE INFORMATION

CRUISE FM35-02 LINE # 214 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>108/18APR87</u>	<u>108/18APR87</u>	
TIME(Z)	<u>16:02:55</u>	<u>17:27:50</u>	<u>01:24:55</u>
LATITUDE	<u>09 42.2365</u>	<u>09 47.7039</u>	
LONGITUDE	<u>086 01.5567</u>	<u>086 06.7913</u>	
SHOTPOINT	<u>1</u>	<u>277</u>	<u>277</u>
REC NUM	<u>1</u>	<u>277</u>	<u>277</u>
TAPE NUM	<u>350298</u>	<u>350299</u>	<u>2</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 50M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23,24,32,40,45,50,52

SINGLE CHANNEL MONITOR TRACE # 88 59,73,86

DISTANCE TO NEAR TRACE (M) _____

DISTANCE TO FAR TRACE (M) _____

SOURCE INFO 6 GUN ARRAY 106Sci

NAVIGATION SYSTEM INFO ONI - Maxiran

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

MISSED ^{ONI} ~ 2 shots → MR. GUS paused, ^{after shot 1} went to page 4 and hit record
then Gus started again

1	-	279
2	-	276
3	-	275
31		247

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LINE INFORMATION

CRUISE FM35-02 LINE # 210 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>108/18 APR 87</u>	<u>108/18 Apr 87</u>	
TIME(Z)	<u>18:49:07</u>	<u>20:37:45</u>	<u>1:48:42</u>
LATITUDE	<u>09 46.0921</u>	<u>09 40.8187</u>	
LONGITUDE	<u>86 8.2316</u>	<u>86 2.9544</u>	
SHOTPOINT	<u>1</u>	<u>412</u>	<u>412</u>
REC NUM	<u>1</u>	<u>412</u>	<u>412</u>
TAPE NUM	<u>350300</u>	<u>350302</u>	<u>3</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>2314, 32, 40, 43, 50, 52, 59</u> <u>75, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 GUN ARRAY</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAXIRUN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
COMMENTS:	<u>Started on ONI # 7</u>		

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LINE INFORMATION

CRUISE FM 35-02 LINE # 206 COURSE _____

PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>108/18 Apr 87</u>	<u>108/18 Apr 87</u>	
TIME(Z)	<u>21:37:20</u>	<u>22:48:43</u>	<u>01:11:23</u>
LATITUDE	<u>09 39.4083</u>	<u>09 44.6531N</u>	
LONGITUDE	<u>86 4.6113</u>	<u>86 9.8412W</u>	
SHOTPOINT	<u>3</u>	<u>275</u>	<u>272</u>
REC NUM	<u>3</u>	<u>275</u>	<u>272</u>
TAPE NUM	<u>350303</u>	<u>350304</u>	
WATER DEPTH	_____	_____	

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 50 m FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 32, 40, 45, 50, 52,
59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun array 1065 c.i.

NAVIGATION SYSTEM INFO ONI - MAXIRAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS: Missed ONI 277-274 at beginning of line.
noisy records at beg of line (Ship + turn)

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LINE INFORMATION

CRUISE FM3502 LINE # 202 COURSE _____
PROJECT C1231 AREA Costa Rica P.I. Shopley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>109/19 Apr 87</u>	<u>109/19 Apr 87</u>	
TIME(Z)	<u>00:01:06</u>	<u>01:57:36</u>	<u>01:56:30</u>
LATITUDE	<u>9 43.1093N</u>	<u>9 37 26.10N</u>	
LONGITUDE	<u>86 11.3682W</u>	<u>86 6 10.27W</u>	
SHOTPOINT	<u>1</u>	<u>413</u>	<u>413</u>
REC NUM	<u>1</u>	<u>413</u>	<u>413</u>
TAPE NUM	<u>350305</u>	<u>350307</u>	<u>3-tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>5/</u>
REP RATE(SEC)	<u>33.3m</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 45, 50,</u> <u>52, 59, 73 & 6</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 c.c.</u>		
NAVIGATION SYSTEM INFO	<u>OMI - MAXIMIAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Switch to port array around shot #30 -

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LINE INFORMATION

CRUISE FM35-02 LINE # 146A COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shapiro

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>109/19 Apr 87</u>	<u>109/19 APR 87</u>	
TIME(Z)	<u>05:06:01</u>	<u>06:20:43</u>	<u>1:14:42</u>
LATITUDE	<u>09 42.8186</u>	<u>09 39.1309</u>	
LONGITUDE	<u>086 06.3182</u>	<u>86 10.0493</u>	
SHOTPOINT	<u>395</u>	<u>684</u>	<u>290</u>
REC NUM	<u>395</u>	<u>684</u>	<u>290</u>
TAPE NUM	<u>350308</u>	<u>350309</u>	<u>2</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 32, 40, 45, 33
50, 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun 1005 ci array

NAVIGATION SYSTEM INFO ONT-MAXIMAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

added 33 as bad trace d.c. leakage

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LINE INFORMATION

CRUISE FM 35-02 LINE # 111 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>101/19 APR 87</u>	<u>109/19 Apr 87</u>	
TIME(Z)	<u>08:09:47</u>	<u>11:02:52</u>	<u>2:53:05</u>
LATITUDE	<u>09 40.4784</u>	<u>9 49.1823 N</u>	
LONGITUDE	<u>86 11.3781</u>	<u>86 2.5736 W</u>	
SHOTPOINT	<u>1</u>	<u>683</u>	<u>683</u>
REC NUM	<u>1</u>	<u>683</u>	<u>683</u>
TAPE NUM	<u>350310</u>	<u>350313</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3 M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 33, 34, 32, 40, 43, 50, 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun array - 1065 c.i.

NAVIGATION SYSTEM INFO ONI - MAYIRAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS: Good start - ONI #1

(way to go - 0-4')

added 33 as bad trace due to leakage

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LINE INFORMATION

CRUISE FM3502 LINE # 147 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shelby

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>109/19 Apr 87</u>		
TIME(Z)	<u>12:52:25</u>	<u>15:45:44</u>	<u>02'53'19</u>
LATITUDE	<u>9 47.8005 N</u>		
LONGITUDE	<u>86 1.1854 W</u>		
SHOTPOINT	<u>1</u>	<u>682</u>	<u>682</u>
REC NUM	<u>1</u>	<u>682</u>	<u>682</u>
TAPE NUM	<u>350314</u>	<u>350317</u>	

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3m FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 32, 40, 45, 50
52, 59, 51, 73, 86

SINGLE CHANNEL MONITOR TRACE # 28

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun array - 1065 c.; STB1

NAVIGATION SYSTEM INFO OUT - MAXIRAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

35-50 m 6 left of line at start - overshoot the target
DRIVE rejected tape 350317 after one shot - 526 -
lost shots 526-527, reset reel to 350317 at shot 529
was able to write 526 to 6-chan strip, but not 527
added 33 as bad trace due to leakage

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LINE INFORMATION

CRUISE FM35-02 LINE # 113 COURSE _____
PROJECT CRSD AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>109/19 APR 87</u>	<u>109/19 APR 87</u>	
TIME(Z)	<u>17:33:58</u>	<u>20:26:05</u>	<u>2:52:07</u>
LATITUDE	<u>09 40.4043</u>	<u>09 49.1193</u>	
LONGITUDE	<u>086 11.3031</u>	<u>86 2.4840</u>	
SHOTPOINT	<u>1</u>	<u>671</u>	<u>671</u>
REC NUM	<u>1</u>	<u>670</u>	<u>670</u>
TAPE NUM	<u>350318</u>	<u>350323</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 40, 45, 50,</u> <u>52, 59, 73, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 GUN ARRAY</u>		
NAVIGATION SYSTEM INFO	<u>ONI-MAXIPLAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Missed ONI #'s 176-190; Gas records 176, 527 (shots 176, 528) due to MTU # 3 problem.

Skipped reels # 350319, 350322

added 33 as bad trace due to leakage

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LINE INFORMATION

CRUISE FM 35-02 LINE # 149 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>109/19 Apr 87</u>	<u>110/20 Apr 87</u>	
TIME(Z)	<u>21:44:42</u>	<u>00:30:55</u>	<u>2:54:13</u>
LATITUDE	<u>9 47.7358N</u>	<u>9 39.0192N</u>	
LONGITUDE	<u>86 1.1205W</u>	<u>86 9.9373W</u>	
SHOTPOINT	<u>1</u>	<u>678</u>	<u>678</u>
REC NUM	<u>1</u>	<u>678</u>	<u>678</u>
TAPE NUM	<u>350324</u>	<u>350327</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23,24,32,40,45,50,</u> <u>52,59,73,86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 Gun Array - 1065 m</u>		
NAVIGATION SYSTEM INFO	<u>ONE - MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Ship noise on latter part of reel 350326

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LINE INFORMATION

CRUISE Fm35-02 LINE # 115 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shapley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>110/20 Apr 87</u>	<u>110/20 APR 87</u>	
TIME(Z)	<u>02:27:49</u>	<u>05:18:42</u>	<u>02:50:53</u>
LATITUDE	<u>09 40.3246</u>	<u>09 49.0397</u>	
LONGITUDE	<u>086 11.2233</u>	<u>086 02.4043</u>	
SHOTPOINT	<u>1</u>	<u>685</u>	<u>685</u>
REC NUM	<u>1</u>	<u>685</u>	<u>685</u>
TAPE NUM	<u>350328</u>	<u>350331</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE (SEC)	<u>33.3m</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 33, 40,</u> <u>45, 50, 52, 59, 73, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>	_____	
DISTANCE TO NEAR TRACE (M)	<u>201</u>	_____	
DISTANCE TO FAR TRACE (M)	<u>3367</u>	_____	
SOURCE INFO	<u>6 gun array - 1065 ft.</u>	_____	
NAVIGATION SYSTEM INFO	<u>ONE - MAYIRAN</u>	_____	
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
COMMENTS:			

one noise file at end of reel 350331

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LINE INFORMATION

CRUISE FM35-02 LINE # 151 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY-UTIG
NICOYA PENINSULA

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>110/20 APR 87</u>	<u>110/20 Apr 87</u>	
TIME(Z)	<u>06:46:29</u>	<u>09:45:58</u>	<u>2:59:29</u>
LATITUDE	<u>09 47,6582</u>	<u>09 38,9384</u>	
LONGITUDE	<u>86 1,0438</u>	<u>86 9,8572</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350332</u>	<u>350335</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 29,32,33,40,45,50,52,59,73,86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 GUN ARRAY 1065ci

NAVIGATION SYSTEM INFO ONI-MAXIRAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

One more smooth start for the 12-4 watch.
Ho-Hum.

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LINE INFORMATION

CRUISE FM 35-02 LINE # 117 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>110/20 Apr 87</u>	<u>110/20 Apr 87</u>	
TIME(Z)	<u>11:34:37</u>	<u>14:29:26</u>	<u>02:54:49</u>
LATITUDE	<u>9 40.2495N</u>	<u>09:48.9924</u>	
LONGITUDE	<u>86 11 1437W</u>	<u>086 02.3063</u>	
SHOTPOINT	<u>1</u>	<u>686</u>	<u>686</u>
REC NUM	<u>1</u>	<u>686</u>	<u>686</u>
TAPE NUM	<u>350336</u>	<u>350339</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3 m</u>	FOLD(NOMINAL) _____	23, 24, 32, 33, 110,
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>45, 50, 52, 54, 73, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 ci.</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAYIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Switch to STBD array at sp #538
2 noise files on end of 350339

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LINE INFORMATION

CRUISE FM35-02 LINE # 153 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SCIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>110/20 APR 87</u>	<u>110/20 APR 87</u>	
TIME(Z)	<u>15:48:28</u>	<u>18:46:36</u>	<u>2:58:08</u>
LATITUDE	<u>09 47.5055</u>	<u>09 38.8620</u>	
LONGITUDE	<u>086 01.0453</u>	<u>86 9.7813</u>	
SHOTPOINT	<u>1</u>	<u>661</u>	<u>661</u>
REC NUM	<u>1</u>	<u>660</u>	<u>660</u>
TAPE NUM	<u>350340</u>	<u>350345</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 2324, 32, 33, 40, 45, 50, 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 GUN ARRAY - 1065 ci

NAVIGATION SYSTEM INFO ONI-MAXIRUN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

Tape Drive #2 bombed after reel 350342 (twice).
Data gap between ONI # 154 and 124. No rec # 526-536
shot # 526-537. No reels 350343, 350344.

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LINE INFORMATION

CRUISE FM 35-02 LINE # 119 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>110/20 Apr 87</u>	<u>110/20 Apr 87</u>	
TIME(Z)	<u>20:26:57</u>	<u>23:20:02</u>	<u>2:53:05</u>
LATITUDE	<u>09 40.1653 N</u>	<u>9 48.8789 N</u>	
LONGITUDE	<u>86 11.0647 W</u>	<u>86 2 2697 W</u>	
SHOTPOINT	<u>1</u>	<u>683</u>	<u>683</u>
REC NUM	<u>1</u>	<u>683</u>	<u>683</u>
TAPE NUM	<u>350346</u>	<u>350349</u>	<u>Chaper</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3 M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 33, 40, 45, 50, 52, 59, 73, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 Gun array 1065 c.i.</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
COMMENTS:			

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LINE INFORMATION

CRUISE FM35-02 LINE # 155 COURSE _____

PROJECT CR3D AREA Costa Rica P.I. Shapiro

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>111/21 Apr 87</u>	<u>111/21 APR 87</u>	
TIME(Z)	<u>00:40:26</u>	<u>03:35:30</u>	<u>02:55:04</u>
LATITUDE	<u>9 47.5056 N</u>	<u>09 38.7858</u>	
LONGITUDE	<u>86 0.8900 W</u>	<u>086 09.7057</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350350</u>	<u>350353</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 333m FOLD(NOMINAL) _____

23, 24, 32, 33, 40, 41

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 50, 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 89

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun array - 1265 cu

NAVIGATION SYSTEM INFO ONI MAXIRAN

SHOOTING BY ☒ DISTANCE _____ TIME _____

COMMENTS:

ONI WENT BAD AT SP 676, ONI 8

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LINE INFORMATION

CRUISE FM 35-02 LINE # 121 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>111/21 APR 87</u>	<u>111/21 APR 87</u>	
TIME(Z)	<u>05:21:43</u>	<u>08:07:27</u>	<u>2:45:44</u>
LATITUDE	<u>09 40.2726</u>	<u>09 48.8150</u>	
LONGITUDE	<u>086 10.8377</u>	<u>86 2.1795</u>	
SHOTPOINT	<u>12</u>	<u>682</u>	<u>671</u>
REC NUM	<u>11</u>	<u>681</u>	<u>671</u>
TAPE NUM	<u>350354</u>	<u>350357</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3 M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 33, 40, 45</u> <u>50, 52, 59, 73, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		<u>71</u>
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 GUN ARRAY 1065 ci</u>		
NAVIGATION SYSTEM INFO	<u>ONI - Maxiran</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

GUS NOT CYCLING PROPERLY, LONG INTERVAL
BETWEEN GUSHDR light and EOR light - reset Gus
everything OK.
SP90 - slow to let ship pass streamer down
about 1-2 m
SP115 back up to speed

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LINE INFORMATION

CRUISE FM 35-02 LINE # 157 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>111/21 Apr 87</u>	<u>111/21 Apr 87</u>	
TIME(Z)	<u>09:37:08</u>	<u>12:25:42</u>	<u>2:48:34</u>
LATITUDE	<u>09 47.4277</u>	<u>09 31.7063 N</u>	
LONGITUDE	<u>86 0.8122</u>	<u>86 9 6244 W</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350358</u>	<u>350361</u>	<u>4 Tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3 M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 33, 40, 45</u> <u>50, 52, 57, 73, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		<u>71</u>
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 ci.</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAXIRAN</u>		

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS: Another smooth start for the 12-4 watch.

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LINE INFORMATION

CRUISE FM35-02 LINE # 123 COURSE _____
PROJECT CRJD AREA Costa Rica P.I. Shyling

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>111/21 Apr 87</u>	<u>111/21 APR 87</u>	
TIME(Z)	<u>14:10:45</u>	<u>17:00:52</u>	<u>02:50:07</u>
LATITUDE	<u>09 40.1003</u>	<u>09 48.7379</u>	
LONGITUDE	<u>086 10.8206</u>	<u>086 02.1026</u>	
SHOTPOINT	<u>1</u>	<u>677</u>	<u>677</u>
REC NUM	<u>8</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350362</u>	<u>350365</u>	<u>4</u>
WATER DEPTH	_____	_____	

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE ^{shot} (SEC) 33.3m FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 32, 33, 40, 45, 50, 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

71

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun array - 1065 c.c. STBD

NAVIGATION SYSTEM INFO ONT - MAX PLAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

OFF LINE AT START AND MISSED 1ST 78 shots -
AIRCON - RESET
OFF LINE FOR 1ST 84 shots

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LINE INFORMATION

CRUISE FM 35-02 LINE # 159 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>111/21 APR 87</u>	<u>111/21 Apr 87</u>	
TIME(Z)	<u>18:20:39</u>	<u>21:16:46</u>	<u>2:56:07</u>
LATITUDE	<u>09 47.3536</u>	<u>09 38.6318</u>	
LONGITUDE	<u>86 0.7390</u>	<u>86 9.5507</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350366</u>	<u>350371</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) _____

REP RATE(SEC) 33.3M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 2804 11 18440.45
50,50,59,73,86

SINGLE CHANNEL MONITOR TRACE # 88 71

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 GUN ARRAY 106Sci

NAVIGATION SYSTEM INFO ONI-Maxi ran

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS: MT2 crashed twice; lost shots 176,527.

No reels # 350367, 350370

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LINE INFORMATION

CRUISE FM 35-02 LINE # 145 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>111/21 Apr 87</u>	<u>112/22 APR 87</u>	
TIME(Z)	<u>23:20:16</u>	<u>02:06:27</u>	<u>02:46:11</u>
LATITUDE	<u>9 39.1728N</u>	<u>09 47.8970</u>	
LONGITUDE	<u>86 10.0724W</u>	<u>086 01.2624</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350372</u>	<u>350375</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3 M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 33, 40, 45,</u> <u>50, 52, 57, 73, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		<u>71</u>
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 cc.</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE FM35.02 LINE # 179 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>112/22APR87</u>	<u>112/22APR87</u>	
TIME(Z)	<u>03:00:04</u>	<u>05:50:44</u>	<u>02:50:40</u>
LATITUDE	<u>09 46.5676</u>	<u>09 37.8687</u>	
LONGITUDE	<u>086 00.0033</u>	<u>086 08.7867</u>	
SHOTPOINT	<u>3</u>	<u>684</u>	<u>682</u>
REC NUM	<u>3</u>	<u>684</u>	<u>682</u>
TAPE NUM	<u>350376</u>	<u>350380</u>	
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) _____
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23,24,32,33,40,45</u> <u>50,52,59,73,86, 71</u>
SINGLE CHANNEL MONITOR TRACE #	_____		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array 1065m</u>		
NAVIGATION SYSTEM INFO	<u>ONI Maxiran</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Tape Drive # MT2, rejected
lost SP#526
no reel 350379

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LINE INFORMATION

CRUISE FM35-02 LINE # 143 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. Shirley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>112/22 APR 87</u>	<u>112/22 Apr 87</u>	
TIME(Z)	<u>7:14:00</u>	<u>10:05:27</u>	<u>2:51:27</u>
LATITUDE	<u>9 39.2792</u>	<u>9 47.9744</u>	
LONGITUDE	<u>86 10.1273</u>	<u>86 1.3397</u>	
SHOTPOINT	<u>5</u>	<u>686</u>	<u>682</u>
REC NUM	<u>5</u>	<u>686</u>	<u>682</u>
TAPE NUM	<u>350381</u>	<u>350384</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23,24,32,53,40,45</u> <u>50,52,59,73,86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>2267</u>		
SOURCE INFO	<u>6 GUN ARRAY - 1065' C.C. 7th array</u>		
NAVIGATION SYSTEM INFO	<u>ONI-MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE FM35 02 LINE # 177 COURSE _____
PROJECT CK3D AREA Costa Rica P.I. Shyley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>112/22 Apr 87</u>	<u>112/22 Apr 87</u>	
TIME(Z)	<u>11:14:32</u>	<u>13:57:20</u>	<u>2'42:48</u>
LATITUDE	<u>9 46.6659 N</u>	<u>9 37.9480 N</u>	
LONGITUDE	<u>86 0.0506 W</u>	<u>86 8.8665 W</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350385</u>	<u>350388</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3m</u>	FOLD(NOMINAL) _____	27, 29, 32, 33, 40, 45,
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>59, 52, 59, 73, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>1065 c.l. 6 gun array</u>		
NAVIGATION SYSTEM INFO	<u>ONE - MARIKON</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Streamer crooked - noisy data at beg of reel 350385.

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LINE INFORMATION

CRUISE FM35-02 LINE # 141 COURSE _____

PROJECT C123D AREA Costa Rica P.I. Shapiro

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>112/22 Apr 87</u>	<u>112/22 Apr 87</u>	
TIME(Z)	<u>15:45:28</u>	<u>18:47:10</u>	<u>3:01:42</u>
LATITUDE	<u>09 39.3340</u>	<u>9 48.0476</u>	
LONGITUDE	<u>086 10.2340</u>	<u>86 1.4131</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350389</u>	<u>350393</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3m FOLD(NOMINAL) _____
23, 24, 32, 33, 40, 45,

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 50, 51, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 1065 c. 6 gun array

NAVIGATION SYSTEM INFO ONE - MAXIWIN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

Missed shot # 526, 644

No Reel # 350392

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LINE INFORMATION

CRUISE FM35-02 LINE # 175 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>112/22 APR 87</u>	<u>112/22 Apr 87</u>	
TIME(Z)	<u>19:52:26</u>	<u>22:42:46</u>	<u>2:50:20</u>
LATITUDE	<u>9 46.6283</u>	<u>9 38 0192 N</u>	
LONGITUDE	<u>86 0.2451</u>	<u>86 8.9381 W</u>	
SHOTPOINT	<u>9</u>	<u>683</u>	<u>675</u>
REC NUM	<u>10</u>	<u>684</u>	<u>675</u>
TAPE NUM	<u>350394</u>	<u>350397</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 33, 40, 45,</u> <u>50, 52, 59, 73, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 c.u.</u>		
NAVIGATION SYSTEM INFO	<u>ONI - Maxiran</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Missed first 9 shots - gun shack problem.

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LINE INFORMATION

CRUISE FM35-02 LINE # 139 COURSE _____
PROJECT CR3D AREA Conc Rica P.I. Shepley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>113/23 Apr 87</u>	<u>113/23 Apr 87</u>	
TIME(Z)	<u>00:18:20</u>	<u>03:11:56</u>	
LATITUDE	<u>9 39 4312 N</u>	<u>09 48.1263</u>	
LONGITUDE	<u>86 10 2186</u>	<u>086 01.4918</u>	
SHOTPOINT	<u>2</u>	<u>683</u>	<u>682</u>
REC NUM	<u>2</u>	<u>683</u>	<u>682</u>
TAPE NUM	<u>350399</u>	<u>350402</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3m FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 32, 33, 40, 45
50, 52, 55, 73, 80

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6.9m array - 1005 c.c.

NAVIGATION SYSTEM INFO ONE - MIVIRAN

SHOOTING BY V DISTANCE _____ TIME _____

COMMENTS:

Repeat on MT2 - no reel 350398 - missed first shot

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LINE INFORMATION

CRUISE FM35-02 LINE # 173 COURSE 225°
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>113/23 APR 87</u>	<u>113/23 APR 87</u>	
TIME(Z)	<u>04:17:58</u>	<u>07:11:51</u>	<u>2:53:53</u>
LATITUDE	<u>09 46.8173</u>	<u>09 38.1006</u>	
LONGITUDE	<u>086 00.2030</u>	<u>86 9.0189</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350403</u>	<u>350406</u>	<u>4</u>
WATER DEPTH			
DATA LENGTH (SEC) MIN	<u>10</u>	MAX	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3 M</u>	FOLD(NOMINAL)	
SEIS TRACES		AUX TRACES	PROBLEM TRACES <u>23,24,32,33,40,45</u> <u>50,52,59,73,86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 GUN ARRAY 1065ci</u>		
NAVIGATION SYSTEM INFO	<u>ONI-Maxiran</u>		
SHOOTING BY	<u>✓</u>	DISTANCE	TIME
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE FM 35-02 LINE # 137 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>113/23 Apr 87</u>	<u>113/23 Apr 87</u>	
TIME(Z)	<u>08:53:22</u>	<u>11:57:45</u>	<u>2:58:23</u>
LATITUDE	<u>09 39.4830</u>	<u>09 48.2052 N</u>	
LONGITUDE	<u>86 10.3818</u>	<u>86 15.708 W</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350407</u>	<u>350410</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3 M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 53, 40, 45, 50, 52, 59, 73, 80</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 ci</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAXIRAN</u>		
SHOOTING BY	<input checked="" type="checkbox"/>	DISTANCE _____	TIME _____
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE FM35-02 LINE # 167 COURSE 225
PROJECT CR3D AREA Costa Rica P.I. Shapiro

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>113/23 Apr 87</u>	<u>113</u>	
TIME(Z)	<u>15:27:52</u>	<u>18:21:31</u>	
LATITUDE	<u>09 47.0490 N</u>	<u>09 38.333 N</u>	
LONGITUDE	<u>086 0.4341 W</u>	<u>86 9.252 W</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350411</u>	<u>350414</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) (4)

REP RATE ^{dist}(SEC) 33.3m FOLD(NOMINAL) 48

SEIS TRACES 96 AUX TRACES 16 PROBLEM TRACES 23, 24, 32, 33, 40, 45, 50, 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 701

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun array - 1000 psi

NAVIGATION SYSTEM INFO 0 ONI - MAX PLAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

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LINE INFORMATION

CRUISE FM 35-02 LINE # 135 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>113/23 APR 87</u>	<u>113/23 Apr 87</u>	
TIME(Z)	<u>20:29:24</u>	<u>23:20:35</u>	<u>2:57:11</u>
LATITUDE	<u>9 39.5619</u>	<u>9 48.2770N</u>	
LONGITUDE	<u>86 10.4605</u>	<u>86 1.6419W</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350415</u>	<u>350418</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23,24,32,33,40,45, 50,52,59,73,86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 m.</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAYIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE Fm35-02 LINE # 161 COURSE _____
PROJECT CR3D AREA CoNa Rica P.I. Shyling

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>114/24 Apr 87</u>	<u>114/24 Apr 87</u>	
TIME(Z)	<u>00:24:01</u>	<u>03:15:03</u>	<u>02:51:02</u>
LATITUDE	<u>9 47.2743 N</u>	<u>09 38.5545</u>	
LONGITUDE	<u>86 06.00 W</u>	<u>086 09.4705</u>	
SHOTPOINT	<u>1</u>	<u>679</u>	<u>679</u>
REC NUM	<u>1</u>	<u>678</u>	<u>678</u>
TAPE NUM	<u>350419</u>	<u>350422</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3m</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 33, 40, 45, 50, 52, 59, 73, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 c.c.</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAYIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE FM35-02 LINE # 133 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>114/24 APR 87</u>	<u>114/24 APR 87</u>	
TIME(Z)	<u>04:56:04</u>	<u>07:46:36</u>	<u>2:50:32</u>
LATITUDE	<u>09 39.6348</u>	<u>09 48.3526</u>	
LONGITUDE	<u>086 10.5343</u>	<u>86 1.7185</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	
REC NUM	<u>1</u>	<u>684</u>	
TAPE NUM	<u>350423</u>	<u>350427</u>	<u>4</u>
WATER DEPTH	_____	_____	

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) _____

REP RATE(SEC) 33.3 M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 32, 33, 40, 45
50, 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) _____

DISTANCE TO FAR TRACE (M) _____

SOURCE INFO 6 GUN ARRAY port

NAVIGATION SYSTEM INFO ONI - Maxiran

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

Missed shot #351

No Reel # 350425

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LINE INFORMATION

CRUISE FM 35-02 LINE # 163 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>114 /24 APR 87</u>	<u>114/24 Apr 87</u>	
TIME(Z)	<u>08:59:46</u>	<u>11:53:00</u>	<u>2:53:14</u>
LATITUDE	<u>09 47.2009</u>	<u>09 38.4844N</u>	
LONGITUDE	<u>86 0.5858</u>	<u>86 9.4026W</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350 428</u>	<u>350 431</u>	<u>4 Tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE (SEC)	<u>33.3 M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 32, 33, 40, 45, 50, 52, 59, 73, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array -- 1065 c.</u>		
NAVIGATION SYSTEM INFO	<u>ONI-MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE FM3502 LINE # 131 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shapiro

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>114/24 Apr 87</u>	<u>114/24 APR 87</u>	
TIME(Z)	<u>13:16:36</u>	<u>16:01:23</u>	<u>02:54:47</u>
LATITUDE	<u>9 39.7141 N</u>	<u>9 48.4326</u>	
LONGITUDE	<u>86 10.6132 W</u>	<u>086 01.7984</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350432</u>	<u>350345</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3m FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 32, 33, 40, 45, 50, 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3267

SOURCE INFO 6 gun array - 1065 c.u.

NAVIGATION SYSTEM INFO ONI - MAXIMAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

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LINE INFORMATION

CRUISE FM35-02 LINE # 165 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>114/24 APR 87</u>	<u>114/24 APR 87</u>	
TIME(Z)	<u>17:11:20</u>	<u>20:10:46</u>	<u>20:59:26</u>
LATITUDE	<u>09 47.1216</u>	<u>09 38.4070</u>	
LONGITUDE	<u>086 00.5072</u>	<u>86 9.3255</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350436</u>	<u>350439</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 32, 33, 40, 45,
50, 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # _____

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun array

NAVIGATION SYSTEM INFO ONI - Maxivan

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

No Problem.

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LINE INFORMATION

CRUISE FM35-02 LINE # 129 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>114/24 APR 87</u>	<u>115/25 Apr 87</u>	
TIME(Z)	<u>21:40:01</u>	<u>00:26:41</u>	<u>2:46:40</u>
LATITUDE	<u>09 39.7880</u>	<u>09 48.5044 N</u>	
LONGITUDE	<u>86 10.6873</u>	<u>86 1.8696 W</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350440</u>	<u>350445</u>	<u>4 Tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3 M</u>	FOLD(NOMINAL) _____	23,24,32,33,40,45,
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>50,52,59,73,86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 c.c.</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
<u>COMMENTS:</u>			

no recs 350441, 350443 - MT2 strikes again!

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LINE INFORMATION

CRUISE FM35-02 LINE # 169 COURSE _____
PROJECT CR 3D AREA Costa Rica P.I. Shupley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>115/25 Apr 87</u>	<u>115/25 APR 87</u>	
TIME(Z)	<u>01:41:44</u>	<u>04:33:29</u>	
LATITUDE	<u>9 46.9712 N</u>	<u>09 38.2514</u>	
LONGITUDE	<u>86 0.3502 W</u>	<u>086 09.1698</u>	
SHOTPOINT	<u>1 - 23</u>	<u>684</u>	
REC NUM	<u>1 - 23</u>	<u>684</u>	
TAPE NUM	<u>350446</u>	<u>350449</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE ^{data} (SEC) 333m FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 32, 33, 40, 45, 50, 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 1065 c.c. 6 gun array

NAVIGATION SYSTEM INFO ONI - MAXIRAN

SHOOTING BY ☒ DISTANCE _____ TIME _____

COMMENTS:

1st tape was not rewound from GUS testing
1st shot found from reel 350446 was 23 on Gusplot

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LINE INFORMATION

CRUISE FM35-02 LINE # 127 COURSE _____
PROJECT CP37 AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>115/25 APR 87</u>	<u>115/25 APR 87</u>	
TIME(Z)	<u>05:42:02</u>	<u>08:36:22</u>	<u>2:54:20</u>
LATITUDE	<u>09 39.8699</u>	<u>09 48.5870</u>	
LONGITUDE	<u>86 10.7691</u>	<u>86 1.9524</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350450</u>	<u>350453</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3 FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 25, 24, 32, 33, 40, 45,
53, 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) _____

DISTANCE TO FAR TRACE (M) _____

SOURCE INFO 6 GUN ARRAY

NAVIGATION SYSTEM INFO ONI - Maxiran

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

No problem.

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LINE INFORMATION

CRUISE FM 35-02 LINE # 171 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>115/25 APR 87</u>	<u>115/25 Apr 87</u>	
TIME(Z)	<u>09:54:38</u>	<u>12:31:22</u>	<u>2:44:44</u>
LATITUDE	<u>09 46.8894</u>	<u>09 38 1767N</u>	
LONGITUDE	<u>86 0.2741</u>	<u>86 9 0951W</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>634</u>	<u>684</u>
TAPE NUM	<u>350454</u>	<u>350457</u>	<u>4 tapes</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3 M FOLD(NOMINAL) _____ 23, 24, 32, 33, 40, 45,

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 50, 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun - 1065 c.i.

NAVIGATION SYSTEM INFO ONI - MAXIRAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

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LINE INFORMATION

CRUISE TM35-02 LINE # 125 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shapiro

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>115/25 Apr 87</u>	<u>115/25 APR 87</u>	
TIME(Z)	<u>14:05:58</u>	<u>17:01:28</u>	<u>02:55:30</u>
LATITUDE	<u>9 40.0702N</u>	<u>9 48.6648</u>	
LONGITUDE	<u>86 10.7131W</u>	<u>86 2.0301</u>	<u>on #11</u>
SHOTPOINT	<u>5</u>	<u>678</u>	
REC NUM	<u>4</u>	<u>677</u>	
TAPE NUM	<u>350459</u>	<u>350462</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC) ^{dist} <u>33.3m</u>	FOLD(NOMINAL) _____		
SEIS TRACES _____	AUX TRACES _____	PROBLEM TRACES <u>23,24,32,33,40,45,50,52,59,73,86</u>	
SINGLE CHANNEL MONITOR TRACE #	<u>83</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3307</u>		
SOURCE INFO	<u>6 gun array - 1005 c.c.</u>		
NAVIGATION SYSTEM INFO	<u>ONE - MANUALLY</u>		
SHOOTING BY <input checked="" type="checkbox"/>	DISTANCE _____	TIME _____	

COMMENTS:

first few shots missed because of gun logger problems -

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LINE INFORMATION

CRUISE FM35-02 LINE # 181 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>115/25 APR 87</u>	<u>115/25 Apr 87</u>	
TIME(Z)	<u>18:03:13</u>	<u>20:52:08</u>	<u>2:48:55</u>
LATITUDE	<u>09 46.5135</u>	<u>09 37.8069</u>	
LONGITUDE	<u>86 59.8994</u>	<u>86 8.7257</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350463</u>	<u>350466</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3 M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23,24,52,33,40,45,</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		<u>50,52,59,73,86</u>
DISTANCE TO NEAR TRACE (M)	_____		
DISTANCE TO FAR TRACE (M)	_____		
SOURCE INFO	<u>6 GUN ARRAY</u>		
NAVIGATION SYSTEM INFO	<u>ONI-MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
COMMENTS:			

Ship noise - end of reel 350465 - beg. of reel 350466

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LINE INFORMATION

CRUISE FM 35-02 LINE # 109 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>115/25 Apr 87</u>	<u>116/26 Apr 87</u>	
TIME(Z)	<u>22:38:58</u>	<u>01:31:59</u>	<u>2:53:01</u>
LATITUDE	<u>9 40.5512N</u>	<u>09 49.2742N</u>	
LONGITUDE	<u>86 11 4504W</u>	<u>86 2.6399 W</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350467</u>	<u>350470</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3 H</u>	FOLD(NOMINAL) _____	<u>23, 24, 32, 33, 40, 45,</u>
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>59, 52, 59, 73, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 ci.</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

#32 is electrically sound and look up in the QC plots

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LINE INFORMATION

CRUISE FM 35-02 LINE # 183 COURSE _____
PROJECT CRSD AREA Costa Rica P.I. Shepley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>116/26 Apr 87</u>	<u>116/26 APR 87</u>	
TIME(Z)	<u>03:16:51</u>	<u>06:10:13</u>	<u>2:53:22</u>
LATITUDE	<u>09 46.4177</u>	<u>09 37.7164</u>	
LONGITUDE	<u>85 59.8026</u>	<u>86 8.6350</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350471</u>	<u>350474</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33 3M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 33, 40, 45
50, 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) _____

DISTANCE TO FAR TRACE (M) _____

SOURCE INFO 6 gun array

NAVIGATION SYSTEM INFO ONI-MAXIPAN

SHOOTING BY / DISTANCE _____ TIME _____

COMMENTS:

32 is electrically sound

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LINE INFORMATION

CRUISE FM 35-02 LINE # 108 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>116/26 APR 87</u>	<u>116/26 Apr 87</u>	
TIME(Z)	<u>07:59:27</u>	<u>10:54:59</u>	<u>2:55:32</u>
LATITUDE	<u>09 40.5911</u>	<u>09 49 3120 N</u>	
LONGITUDE	<u>86 11.5908</u>	<u>86 02. 6776W</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350475</u>	<u>350478</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	23,24,33,40,45,
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>50,52,59,73,86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 ci.</u>		
NAVIGATION SYSTEM INFO	<u>ONI - MAXIRAW</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE FM35-02 LINE # 184 COURSE _____

PROJECT CN3D AREA Costa Rica P.I. Shirley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>116/26 Apr 87</u>	<u>116/26 Apr 87</u>	
TIME(Z)	<u>12:35:16</u>	<u>13:03:21</u>	<u>28:05</u>
LATITUDE	<u>9 46.3985 N</u>	<u>9 44.9707 N</u>	
LONGITUDE	<u>85 59.7839 W</u>	<u>86 1.2823 W</u>	
SHOTPOINT	<u>1</u>	<u>115</u>	<u>115</u>
REC NUM	<u>1</u>	<u>115</u>	<u>115</u>
TAPE NUM	<u>350479</u>	<u>350479</u>	<u>1 tape</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 333m FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 33, 40, 45, 50, 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 83

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3307

SOURCE INFO 6 9-m array 1065 c.u.

NAVIGATION SYSTEM INFO CN1 - MAY, RAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

line aborted - ran over fishing net -
Stopped shooting at 115, more records to 124

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LINE INFORMATION

CRUISE FM 35-02 LINE # 158A COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. _____

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>116/26 APR 87</u>	<u>116/26 APR 87</u>	
TIME(Z)	<u>15:06:57</u>	<u>15:44:01</u>	<u>0:37:04</u>
LATITUDE	<u>9 40.5754</u>	<u>9 38.6733</u>	
LONGITUDE	<u>86 7.6688</u>	<u>86 9.5917</u>	
SHOTPOINT	<u>535</u>	<u>684</u>	<u>150</u>
REC NUM	<u>535</u>	<u>684</u>	<u>150</u>
TAPE NUM	<u>350480</u>	<u>350480</u>	<u>1</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 33, 40, 45, 50
52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) _____

DISTANCE TO FAR TRACE (M) _____

SOURCE INFO 6 gun array

NAVIGATION SYSTEM INFO ONI - Maxivan

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

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LINE INFORMATION

CRUISE FM 35-02 LINE # 107 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. THS

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>116/26 APR 87</u>	<u>116/26 APR 87</u>	
TIME(Z)	<u>17:04:52</u>	<u>19:52:40</u>	<u>2:47:48</u>
LATITUDE	<u>9 40.6213</u>	<u>09 49.3509</u>	
LONGITUDE	<u>86 11.5208</u>	<u>86 2.7152</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350481</u>	<u>350484</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) _____

REP RATE(SEC) 33.3 FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 29, 33, 40, 45, 50
52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) _____

DISTANCE TO FAR TRACE (M) _____

SOURCE INFO 6 gun array

NAVIGATION SYSTEM INFO ONI - Maxiran

SHOOTING BY _____ DISTANCE _____ TIME _____

COMMENTS:

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LINE INFORMATION

CRUISE FM 35-02 LINE # 184-A COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>116/26 Apr 87</u>	<u>117/27 Apr 87</u>	
TIME(Z)	<u>21:40:52</u>	<u>00:28:03</u>	<u>2:47:11</u>
LATITUDE	<u>09 46.3993</u>	<u>09 31.6812 N</u>	
LONGITUDE	<u>85 59.7843</u>	<u>86 8.5939 W</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350485</u>	<u>350488</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 41

REP RATE(SEC) 33.3 M FOLD(NOMINAL) _____ 23, 24, 33, 40, 45, 50,

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun array - 1065 c.c.

NAVIGATION SYSTEM INFO ONI- MAXIRAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

Switch to stbd array because timing in 240 c.c. port
array bouncing around

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LINE INFORMATION

CRUISE Fm3502 LINE # 105 COURSE _____

PROJECT CR3D AREA Costa Rica P.I. Shyley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>117/27 Apr 87</u>	<u>117/27 APR 87</u>	
TIME(Z)	<u>02:11:42</u>	<u>04:27:47</u>	<u>02:16:05</u>
LATITUDE		<u>9 47.6520</u>	
LONGITUDE		<u>86 4.5599</u>	
SHOTPOINT	<u>1</u>	<u>546</u>	<u>546</u>
REC NUM	<u>1</u>	<u>546</u>	<u>546</u>
TAPE NUM	<u>350489</u>	<u>350492</u>	<u>4</u>
WATER DEPTH	_____	_____	

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3 m FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 33, 40, 45, 50, 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun array - 1065 c.i.

NAVIGATION SYSTEM INFO ONT - MAXIRAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

Slots 1-429 port array - blew hose on big gun (429)
430-546 stbd

LINE ABORTED DUE TO BOAT
HEADING FOR STREAMER

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LINE INFORMATION

CRUISE FM 35-02 LINE # 105-A COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>117/27 APR 87</u>	<u>117/27 Apr 87</u>	
TIME(Z)	<u>09:23:59</u>	<u>10:11:02</u>	<u>47:03</u>
LATITUDE	<u>09 47.0103</u>	<u>09 49.4408 N</u>	
LONGITUDE	<u>86 5.2268</u>	<u>86 2.7789 W</u>	
SHOTPOINT	<u>495</u>	<u>685</u>	<u>191</u>
REC NUM	<u>495</u>	<u>685</u>	<u>191</u>
TAPE NUM	<u>350493</u>	<u>350494</u>	<u>2 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3 M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 33, 40, 45, 50,</u> <u>52, 54, 73, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 c.i.</u>		
NAVIGATION SYSTEM INFO	<u>ONI - Maxiran</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Reshoot of last part of line 105.

First shot #495, rec #495 at 09° 47.0122 N, 86° 05.2293 W.
This was set to ONI #494; should have been ONI #496.
ONI #'s for this line are therefore low by 2.

switch to sled array - broken hose on port

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LINE INFORMATION

CRUISE FM35-02 LINE # 185 COURSE _____
PROJECT CL3D AREA Costa Rica P.I. Shopley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>117/27 Apr 87</u>	<u>117/27 Apr 87</u>	
TIME(Z)	<u>12:07:08</u>	<u>14:55:42</u>	<u>02:48:34</u>
LATITUDE	<u>9 46.3581N</u>	<u>9 37.6403</u>	
LONGITUDE	<u>85 51.7430W</u>	<u>86 08.5579</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350495</u>	<u>350498</u>	<u>4</u>
WATER DEPTH _____			
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC) ^{dist} <u>33.3m</u>	FOLD(NOMINAL) _____	23.24, 33.40, 45.50	
SEIS TRACES _____	AUX TRACES _____	PROBLEM TRACES <u>52, 59, 73, 86</u>	
SINGLE CHANNEL MONITOR TRACE # <u>88</u>			
DISTANCE TO NEAR TRACE (M) <u>201</u>			
DISTANCE TO FAR TRACE (M) <u>3367</u>			
SOURCE INFO <u>6 Gun array 1001 0.1</u>			
NAVIGATION SYSTEM INFO <u>ONE MAY 12 1987</u>			
SHOOTING BY <u>✓</u> DISTANCE _____ TIME _____			
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE FM35-02 LINE # 104 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>117/27 APR 87</u>	<u>117/27 APR 87</u>	
TIME(Z)	<u>16:28:45</u>	<u>19:19:13</u>	<u>2:50:28</u>
LATITUDE	<u>9 40.7410</u>	<u>09 49.4676</u>	
LONGITUDE	<u>86 11.6403</u>	<u>86 2.8450</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350499</u>	<u>350502</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE(SEC) 33.3M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 2014, 09 40, 45
09, 09 09, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) _____

DISTANCE TO FAR TRACE (M) _____

SOURCE INFO 6 gun array

NAVIGATION SYSTEM INFO ONI-Maxivan

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

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LINE INFORMATION

CRUISE FM 35-02 LINE # 186 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>117/27 Apr 87</u>	<u>117/27 Apr 87</u>	
TIME(Z)	<u>21:00:58</u>	<u>23:50:20</u>	<u>2:49:22</u>
LATITUDE	<u>09 46.3224</u>	<u>09 37.5998 N</u>	
LONGITUDE	<u>85 59.7074</u>	<u>86 8.5195 W</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350503</u>	<u>350506</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE (SEC) 33.3 M FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 33, 40, 45,
50, 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun array - 1065 ft.

NAVIGATION SYSTEM INFO ONE - MAYTRAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

switch to shot array shot #134

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LINE INFORMATION

CRUISE F1135-22 LINE # 323 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shapiro

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>118/28 APR 87</u>	<u>118/28 APR 87</u>	
TIME(Z)	<u>01:05:11</u>	<u>03:58:24</u>	<u>02:49:13</u>
LATITUDE	<u>9 39.4927 N</u>	<u>09 48.7089</u>	
LONGITUDE	<u>86 10.8415 W</u>	<u>86 02.0732</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350501</u>	<u>350510</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE (SEC) 33.3m FOLD(NOMINAL) _____ 23, 24, 25, 40, 50, 52

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 57 73 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun drag 1000 ft

NAVIGATION SYSTEM INFO 0100 AMERICAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

Streamer deep & crooked at beginning - straightened by shot # 79

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LINE INFORMATION

CRUISE FM35-02 LINE # 187 COURSE _____
PROJECT CR30 AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>118/28 APR 87</u>	<u>118/28 APR 87</u>	
TIME(Z)	<u>05:21:38</u>	<u>08:13:18</u>	<u>2:51:40</u>
LATITUDE	<u>09 46.2941</u>	<u>09 37.5649</u>	
LONGITUDE	<u>85 59.6792</u>	<u>86 8.4835</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350511</u>	<u>350514</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3m</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 29, 33, 40, 41, 50</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		<u>52, 59, 73, 86</u>
DISTANCE TO NEAR TRACE (M)	_____		
DISTANCE TO FAR TRACE (M)	_____		
SOURCE INFO	<u>6 gun array</u>		
NAVIGATION SYSTEM INFO	<u>ONI - Marican</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____
<u>COMMENTS:</u>			

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LINE INFORMATION

CRUISE FM 35-02 LINE # 103 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>118/28 APR 87</u>	<u>118/28 Apr 87</u>	
TIME(Z)	<u>09:57:31</u>	<u>12:48:32</u>	<u>2:51:01</u>
LATITUDE	<u>09 40.7703 N</u>	<u>09 49.0528 N</u>	
LONGITUDE	<u>86 11.6760 W</u>	<u>86 3.2903 W</u>	
SHOTPOINT	<u>1</u>	<u>650</u>	<u>650</u>
REC NUM	<u>1</u>	<u>650</u>	<u>650</u>
TAPE NUM	<u>350515</u>	<u>350518</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE (SEC)	<u>33.3 M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 33, 40, 45, 50, 52, 59, 73, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		<u>621/650</u>
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 c.i.</u>		
NAVIGATION SYSTEM INFO	<u>OVI - MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Abort line due to lots of targets in immediate vicinity

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LINE INFORMATION

CRUISE FMJS-02 LINE # 211 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>118/28 Apr 87</u>	<u>118/28 APR 87</u>	
TIME(Z)	<u>15:17:33</u>	<u>17:09:36</u>	<u>01:52:03</u>
LATITUDE	<u>9 46.5267</u>	<u>9 41.1981</u>	
LONGITUDE	<u>86 7.9000</u>	<u>86 02.5748</u>	
SHOTPOINT	<u>1</u>	<u>416</u>	<u>416</u>
REC NUM	<u>3</u>	<u>418</u>	<u>416</u>
TAPE NUM	<u>350519</u>	<u>350521</u>	<u>3</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>✓</u>
REP RATE(SEC) <u>chd</u>	<u>33.3 m</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 33, 40, 45, 50</u> <u>52, 59, 73, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 c.i.</u>		
NAVIGATION SYSTEM INFO	<u>ONJ - MAY 11 12 22 N</u>		
SHOOTING BY	_____	DISTANCE _____	TIME _____

COMMENTS:

tail of streamer surfaced ~ 1530
set 151 fath birds to dive, try to bring it back down
1550 - streamer ok

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LINE INFORMATION

CRUISE FM 35-02 LINE # 188 COURSE _____

PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>118/28 APR 87</u>	<u>118/28 Apr 87</u>	
TIME(Z)	<u>19:57:42</u>	<u>22:49:11</u>	<u>2:51:29</u>
LATITUDE	<u>09 45.9466 N</u>	<u>09 37.5256 N</u>	
LONGITUDE	<u>85 59.8187 W</u>	<u>86 8.4436 W</u>	
SHOTPOINT	<u>23</u>	<u>687</u>	<u>655</u>
REC NUM	<u>20</u>	<u>684</u>	<u>655</u>
TAPE NUM	<u>350522</u>	<u>350525</u>	<u>4 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 33, 40, 45, 50, 52, 59, 73, 86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 c.i.</u>		
NAVIGATION SYSTEM INFO	<u>ONI-MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Bad start - way off line and aircon cycling locally.
Guns firing correctly by rec #20 and back on track
by rec # 40 (within 25 m.).

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LINE INFORMATION

CRUISE Fm 35-02 LINE # 102 COURSE _____

PROJECT CRJD AREA Costa Rica P.I. Shupley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>119/29 Apr 87</u>	<u>119/29 APR 87</u>	
TIME(Z)	<u>00:59:38</u>	<u>03:42:51</u>	<u>02:53:13</u>
LATITUDE	<u>9 40.8120N</u>	<u>949.5430</u>	
LONGITUDE	<u>86 02.9078W</u>	<u>86 02.9078</u>	
SHOTPOINT	<u>1</u>	<u>684</u>	<u>684</u>
REC NUM	<u>1</u>	<u>684</u>	<u>684</u>
TAPE NUM	<u>350526</u>	<u>350529</u>	<u>4</u>

WATER DEPTH _____

DATA LENGTH (SEC) MIN 10 MAX _____ SAMP RATE (MSEC) 4

REP RATE ^{dist} (SEC) 33.3m FOLD(NOMINAL) _____

SEIS TRACES _____ AUX TRACES _____ PROBLEM TRACES 23, 24, 33, 40, 41, 50, 52, 59, 73, 86

SINGLE CHANNEL MONITOR TRACE # 88

DISTANCE TO NEAR TRACE (M) 201

DISTANCE TO FAR TRACE (M) 3367

SOURCE INFO 6 gun array - 1065 c.i.

NAVIGATION SYSTEM INFO ONI - MAYIRAN

SHOOTING BY ✓ DISTANCE _____ TIME _____

COMMENTS:

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LINE INFORMATION

CRUISE FM 35-02 LINE # 109 COURSE _____
PROJECT CR3D AREA COSTA RICA P.I. SHIPLEY

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>119/29 APR 87</u>	<u>119/29 APR 87</u>	
TIME(Z)	<u>06:08:24</u>	<u>09:17:48</u>	
LATITUDE	<u>09 46.2127</u>	<u>09 37.4922</u>	
LONGITUDE	<u>85 59.5979</u>	<u>86 8.4104</u>	
SHOTPOINT	<u>2</u>	<u>684</u>	<u>683</u>
REC NUM	<u>2</u>	<u>684</u>	<u>683</u>
TAPE NUM	<u>350530</u>	<u>350533</u>	<u>4</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3M</u>	FOLD(NOMINAL) _____	
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>23, 24, 33, 40, 45</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		<u>50, 52, 59, 73, 86</u>
DISTANCE TO NEAR TRACE (M)	_____		
DISTANCE TO FAR TRACE (M)	_____		
SOURCE INFO	<u>6 GUN ARRAY</u>		
NAVIGATION SYSTEM INFO	<u>ONI - Maxiran</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Record # 1 contains noise only -- 1st shot on rec. #2,

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LINE INFORMATION

CRUISE FM 35-02 LINE # 201 COURSE _____
PROJECT CR3D AREA Costa Rica P.I. Shipley

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>119/29 APR 87</u>	<u>119/29 Apr 87</u>	
TIME(Z)	<u>12:12:26</u>	<u>13:14:36</u>	<u>1'02'10</u>
LATITUDE	<u>09 42.7303 N</u>	<u>09 39.4683 N</u>	
LONGITUDE	<u>86 11.7432 W</u>	<u>86 8.5404 W</u>	
SHOTPOINT	<u>1</u>	<u>253</u>	<u>253</u>
REC NUM	<u>1</u>	<u>253</u>	<u>253</u>
TAPE NUM	<u>350534</u>	<u>350535</u>	<u>2 tapes</u>
WATER DEPTH	_____	_____	
DATA LENGTH (SEC) MIN	<u>10</u>	MAX _____	SAMP RATE (MSEC) <u>4</u>
REP RATE(SEC)	<u>33.3 M</u>	FOLD(NOMINAL) _____	23,24,33,40,45
SEIS TRACES	_____	AUX TRACES _____	PROBLEM TRACES <u>50,52,57,73,86</u>
SINGLE CHANNEL MONITOR TRACE #	<u>88</u>		
DISTANCE TO NEAR TRACE (M)	<u>201</u>		
DISTANCE TO FAR TRACE (M)	<u>3367</u>		
SOURCE INFO	<u>6 gun array - 1065 c.i.</u>		
NAVIGATION SYSTEM INFO	<u>ONI-MAXIRAN</u>		
SHOOTING BY	<u>✓</u>	DISTANCE _____	TIME _____

COMMENTS:

Aborted early due to ship almost taking away
tail buoy - evasive action implemented and line aborted.