

THE UNIVERSITY OF TEXAS  
INSTITUTE FOR GEOPHYSICS  
R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9609B SHIP R/V Wecoma LINE # 1  
PROJECT                      AREA                      P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>200/19 JUL</u>	<u>200/18 JUL</u>	
TIME(Z)	<u>2139</u>	<u>2248</u>	
LATITUDE	<u>40°38.992</u>	<u>40°41.440</u>	
LONGITUDE	<u>124°22.73</u>	<u>124°29.365</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>831</u>	
TAPE #	<u>156</u>	<u>160</u>	
WATER DEPTH	<u>26</u>	<u>118</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS             
NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5  
COURSE 296 SPEED (KTS) 4.8  
SHOT ON ( TIME / DIST ) REP RATE (S) 5 (M)             
SOURCE INFO 45 cu in G.I. Air Gun  
NAV SYSTEM INFO DGPSCOMMENTS:

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 1E (extended)  
PROJECT \_\_\_\_\_ AREA Eel River P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>205/ July 23</u>	<u>205/ July 23</u>	
TIME(Z)	<u>23:17:31</u>	<u>23:59:06</u>	<u>32 min</u>
LATITUDE	<u>40° 41.116</u>	<u>40° 42.516</u>	
LONGITUDE	<u>124° 28.451</u>	<u>124° 32.395</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>394</u>	<u>394</u>
TAPE #	<u>496</u>	<u>498</u>	<u>3</u>
WATER DEPTH	<u>90m</u>	<u>425m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS \_\_\_\_\_ PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 57 FAR OFFSET (M) 762 CHAN SEP (M) 15m  
COURSE 296° SPEED (KTS) 4.9 kts  
SHOT ON ( TIME / DIST ) REP RATE (S) 6 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu in G1 air gun  
NAV SYSTEM INFO DGPS

COMMENTS:

streamer v. deeps?  
first line shot w/ Geco (Mikham) streamer

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LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 3  
PROJECT \_\_\_\_\_ AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>206/ July 24</u>	<u>206/ July 24</u>	
TIME(Z)	<u>14:33:36</u>	<u>Turn started 1558:00</u>	<u>Last shot 1559:46</u>
LATITUDE	<u>40° 42.675' N</u>	<u>40° 34.680' N</u>	<u>40° 34.617'</u>
LONGITUDE	<u>124° 31.351' W</u>	<u>124° 23.266' W</u>	<u>124° 23.171'</u>
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>861</u>	<u>861</u>
TAPE #	<u>522</u>	<u>526</u>	<u>5</u>
WATER DEPTH	<u>330m</u>	<u>30m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15m  
COURSE 117° <sup>became 115°</sup> SPEED (KTS) 4.9 kts  
SHOT ON (TIME/DIST) \_\_\_\_\_ REP RATE (S) 6 (M) \_\_\_\_\_  
SOURCE INFO SINGLE 45 m. in. G.I. AIR GUN  
NAV SYSTEM INFO DGPS

COMMENTS:

Starting line on an extension west of W. end of line 3.  
\* Slight dog-leg in this line at W. end of line 3 proper (extension was not properly lined up.) [40° 41.84', 124° 24.14']  
Angle between segments probably < 2°  
Kept shooting beyond E.O.L. E.O.L. is 1558:00, before last shot.

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PROJECT                      AREA                      P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>200/18 July</u>	<u><del>200</del> 201 / 14 July</u>	
TIME(Z)	<u>2316</u>	<u>0028</u>	
LATITUDE	<u>40° 42.251</u>	<u>40° 39.712</u>	
LONGITUDE	<u>124° 28.899</u>	<u>124° 22.978</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	
FILE #	<u>1</u>	<u>865</u>	
TAPE #	<u>161</u>	<u>165</u>	
WATER DEPTH	<u>110m</u>	<u>30<sup>+</sup> m</u>	

REC LENGTH(S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS                       
NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5  
COURSE ~~10~~ 115 SPEED (KTS) 4.5  
SHOT ON (TIME / DIST) REP RATE (S) 5 (M)                       
SOURCE INFO 4.5 Cu In G.I. Air Gun  
NAV SYSTEM INFO DGPSCOMMENTS:

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PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>207/25 July</u>	<u>207/25 July</u>	
TIME(Z)	<u>2207</u>	<u>2307</u>	
LATITUDE	<u>40° 42.726'</u>	<u>40° 40.594</u>	
LONGITUDE	<u>124° 29.931'</u>	<u>124° 23.092</u>	
SHOTPOINT			
FILE #	<u>781</u>	<u>1380</u>	
TAPE #	<u>611</u>	<u>614</u>	
WATER DEPTH	<u>115m</u>	<u>31m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE \_\_\_\_\_ SPEED (KTS) 4.8  
SHOT ON ( TIME / DIST ) REP RATE (S) 6 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu. in. G.I. gun  
NAV SYSTEM INFO DGPSCOMMENTS:

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PROJECT                      AREA                      P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>201 / 19 JULY</u>	<u>201 / 19 JULY</u>	
TIME(Z)	<u>0053 48</u>	<u>0205</u>	
LATITUDE	<u>40° 40.48'</u>	<u>40 43.061</u>	
LONGITUDE	<u>124° 21.53'</u>	<u>124 28.587</u>	
SHOTPOINT	<u>1</u>		
FILE #	<u>1</u>	<u>856</u>	
TAPE #	<u>166</u>	<u>170</u>	
WATER DEPTH	<u>28.3 m</u>	<u>105 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS             
NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5  
COURSE 296 SPEED (KTS) 5 Kts  
SHOT ON (TIME/DIST) REP RATE (S) 0.5 (M)             
SOURCE INFO Single C.I. gun 45 c.i.  
NAV SYSTEM INFO GPSCOMMENTS:

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LINE INFORMATION LOG

CRUISE W960513 SHIP R/V Wecoma LINE # 10

PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>206/24 JUL</u>	<u>207/25 JULY</u>	
TIME(Z)	<u>2228</u>	<u>0145:33</u>	<u>3hrs 7 min</u>
LATITUDE	<u>40°58.371'</u>	<u>40°43.554</u>	
LONGITUDE	<u>-124°13.359'</u>	<u>124°30.578</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>1971</u>	<u>1971</u>
TAPE #	<u>544</u>	<u>554</u>	<u>11</u>
WATER DEPTH	<u>50m</u>	<u>43m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48

SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_

NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15

COURSE \_\_\_\_\_ SPEED (KTS) 4.8

SHOT ON (TIME/DIST) REP RATE (S) 6 (M) \_\_\_\_\_

SOURCE INFO Single 45 cu in Q.I. Gun

NAV SYSTEM INFO DGPS

COMMENTS:

2235 z tail buoy astern

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LINE INFORMATION LOG

CRUISE W960513 SHIP R/V Wecoma LINE # 11  
PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>207/24/25</u>	<u>207/25/25</u>	
TIME(Z)	<u>1950</u>	<u>2107</u>	
LATITUDE	<u>40°40.873'</u>	<u>40°43.605'</u>	
LONGITUDE	<u>124°21.192'</u>	<u>124°28.687'</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>780</u>	
TAPE #	<u>606</u>	<u>610</u>	
WATER DEPTH	<u>25m</u>	<u>130m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE \_\_\_\_\_ SPEED (KTS) 4.8 kts  
SHOT ON ( TIME / DIST ) REP RATE (S) 6 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu. in. G-I gun  
NAV SYSTEM INFO DGPS

COMMENTS:



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	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>212 / 30 JULY</u>	<u>212 / 30 JULY</u>	
TIME(Z)	<u>1556:23</u>	<u>1955:10</u>	
LATITUDE	<u>40° 56.776' N</u>	<u>40° 38.475'</u>	
LONGITUDE	<u>124° 14.741' W</u>	<u>124° 23.566'</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>2863</u>	
TAPE #	<u>884</u>	<u>899</u>	
WATER DEPTH	<u>60 m</u>	<u>30 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS       NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5COURSE 200° SPEED (KTS) 4.9SHOT ON (TIME / DIST) REP RATE (S) 5 (M)       SOURCE INFO Single 45 m. in. G.I. gun.NAV SYSTEM INFO DGPSCOMMENTS:

I.T.I. streamer

Streamer not fully aligned at S.O.L.

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PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>201/July 19</u>	<u>201/July 19</u>	
TIME(Z)	<u>03:24:43</u>	<u>04:53</u>	
LATITUDE	<u>40° 44.285</u>	<u>40° 41.208</u>	
LONGITUDE	<u>124° 29.328</u>	<u>124° 20.824</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>1060</u>	<u>1060</u>
TAPE #	<u>171</u>	<u>176</u>	<u>6</u>
WATER DEPTH	<u>140 m</u>	<u>25 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 6 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5  
COURSE 112° SPEED (KTS) 4.9  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single G.I. gun 45 c.i  
NAV SYSTEM INFO DGPSCOMMENTS:GI appears to be mis-tuned  
for entire line

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PROJECT                      AREA                      P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>200 / 18 July</u>	<u>200 18 July</u>	
TIME(Z)	<u>1626</u>	<u>2059</u>	
LATITUDE	<u>40° 59.918</u>	<u>40° 38.962'</u>	
LONGITUDE	<u>124° 13.871</u>	<u>-124° 23.954'</u>	
SHOTPOINT	<u><del>Approx. 1840</del></u>		
FILE #	<u>Approx. 1840</u>	<u>5119</u>	
TAPE #	<u>137 (started 1622)</u>	<u>155</u>	
WATER DEPTH	<u>45</u>	<u>34</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS             
NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5  
COURSE ~~198~~ 198 SPEED (KTS) 4.8  
SHOT ON (TIME / DIST) REP RATE (S) 5 (M)             
SOURCE INFO 45 ca. in G.I. air gun  
NAV SYSTEM INFO DGPSCOMMENTS:Veered onto this line when abandoned line 109  
Deviated to starboard to avoid a crab pot,  
1830 - 1840 Max. deviation ~ 100 m.

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PROJECT \_\_\_\_\_ AREA Eel River P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>208/JULY 26</u>	<u>208/JULY 26</u>	
TIME(Z)	<u>0150:32</u>	<u>03:20:32</u>	<u>1 hr 30 min</u>
LATITUDE	<u>40° 40.430</u>	<u>40° 33.494</u>	
LONGITUDE	<u>124° 23.227</u>	<u>124° 26.569</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>890</u>	<u>890</u>
TAPE #	<u>615</u>	<u>619</u>	<u>5</u>
WATER DEPTH	<u>34m</u>	<u>42m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS Ø PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 200° SPEED (KTS) 4.9 kts  
SHOT ON (TIME/DIST) REP RATE (S) 6 (M) \_\_\_\_\_  
SOURCE INFO SINGLE 45 cm GI AIR GUN  
NAV SYSTEM INFO DGPSCOMMENTS:GUN DELAY NOW 32 msec  
WAS 33

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	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>207 / 25 July</u>	<u>207 / 25 July</u>	
TIME(Z)	<u>1811:34</u>	<u>1931</u>	
LATITUDE	<u>40° 44.281' N</u>	<u>40° 41.469</u>	
LONGITUDE	<u>124° 28.979' W</u>	<u>129° 20.274</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>801</u>	
TAPE #	<u>601</u>	<u>605</u>	
WATER DEPTH	<u>112 m</u>	<u>25 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15COURSE 115° SPEED (KTS) 4.7 ktsSHOT ON (TIME/DIST) \_\_\_\_\_ REP RATE (S) 6 (M) \_\_\_\_\_SOURCE INFO Single 45 cc. in. G.I. gun.NAV SYSTEM INFO DGPSCOMMENTS:

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LINE INFORMATION LOG

CRUISE W9605 SHIP R/V Wecoma LINE # 16  
PROJECT                      AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>208 / July 26</u>	<u>208 / July 26</u>	
TIME(Z)	<u>1023:11</u>	<u>1443:21</u>	<u>4 hr. 20 min</u>
LATITUDE	<u>40° 58.737</u>	<u>40° 39.909' N</u>	
LONGITUDE	<u>124° 15.030</u>	<u>124° 24.566' W</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	<u>                    </u>
FILE #	<u>1</u>	<u>2601</u>	
TAPE #	<u>640</u>	<u>654</u>	
WATER DEPTH	<u>65m</u>	<u>37m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS                       
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 200 SPEED (KTS)                       
SHOT ON (TIME/DIST) REP RATE (S) 6 (M)                       
SOURCE INFO Single, 45 cu. in. G.I. gun  
NAV SYSTEM INFO DGPS

COMMENTS:

1202 GPS jumped  
1235 Fishing boat at 0.4 mi to stbd.  
1349 deviated from line to pass a crab pot  
1352 Maximum deviation ~ 160 m.  
1355- 1400 Turn fairly sharp. Streamer may not have been straight.  
1402 Ship back on line. Streamer not yet aligned.  
1421- 1431 Second crab pot deviation. Max. deviation only ~ 25 m. Streamer may not be properly aligned at 1431.

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PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>201 / July 19</u>	<u>201 / July 19</u>	
TIME(Z)	<u>05:19:07</u>	<u>0717</u>	
LATITUDE	<u>40° 42.187</u>	<u>40 46.394</u>	
LONGITUDE	<u>124° 20.908</u>	<u>124 32.298</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>1424</u>	
TAPE #	<u>177</u>	<u>184</u>	
WATER DEPTH	<u>30 m</u>	<u>503</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5  
COURSE 294 SPEED (KTS) 4.7  
SHOT ON (TIME / DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single G.I. Gun 45 c.i.  
NAV SYSTEM INFO DGPSCOMMENTS:

GI gun probably mis-tuned for entire line

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LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 18  
PROJECT \_\_\_\_\_ AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>206 / July 24</u>	<u>206 / July 24</u>	
TIME(Z)	<u>1644:27</u>	<u>2134:19 * sel note</u>	<u>4 hrs 50 min</u>
LATITUDE	<u>40° 39.473' N</u>	<u>41° 00.825</u>	
LONGITUDE	<u>124° 24.878' W</u>	<u>124° 16.321</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>2895</u>	<u>2895</u>
TAPE #	<u>527</u>	<u>543</u>	<u>17</u>
WATER DEPTH	<u>40 m</u>	<u>80 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 20° SPEED (KTS) 4.8 kts  
SHOT ON ((TIME)/DIST) REP RATE (S) 6 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu. in. G.I. gun.  
NAV SYSTEM INFO DGPS.

COMMENTS:

1736 Fishing boat crossed bow ~ 0.4 mi. ahead.  
\* 2118 turned to port to avoid pats; recorded larger, but  
file # 2740 s/b end of straight line  
Reel 527 has no header for first shot



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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 18E  
PROJECT \_\_\_\_\_ AREA Eel River P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>208 / July 26</u>	<u>208 / July 26</u>	
TIME(Z)	<u>03:43:10</u>	<u>05:00:51</u>	<u>1hr 44 min</u>
LATITUDE	<u>40°33.494</u>	<u>40°33.494</u>	
LONGITUDE	<u>124°26.569</u>	<u>124°26.569</u>	
SHOTPOINT	<u>—</u>		
FILE #	<u>1</u>	<u>777</u>	<u>777</u>
TAPE #	<u>620</u>	<u>624</u>	<u>5</u>
WATER DEPTH	<u>48 m</u>	<u>40 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 20° SPEED (KTS) 4.6°  
SHOT ON (TIME / DIST) REP RATE (S) 6 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu in G.I. gun  
NAV SYSTEM INFO DGPSCOMMENTS:

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 19  
PROJECT \_\_\_\_\_ AREA Eel River P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>207/25 JULY</u>	<u>207/25 JULY</u>	
TIME(Z)	<u>0202:19</u>	<u>03:56:42</u>	<u>1 hr 54 min</u>
LATITUDE	<u>40° 43.164</u>	<u>40° 47.246</u>	
LONGITUDE	<u>124° 22.284</u>	<u>124° 33.316</u>	
SHOTPOINT	<u>4</u>		
FILE #	<u>1</u>	<u>1143</u>	<u>1143</u>
TAPE #	<u>555</u>	<u>561</u>	<u>7</u>
WATER DEPTH	<u>42 m</u>	<u>543 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48

SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_

NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15

COURSE 275 SPEED (KTS) \_\_\_\_\_

SHOT ON (TIME/DIST) REP RATE (S) 6 (M) \_\_\_\_\_

SOURCE INFO SINGLE 45cm in GI AIR GUN

NAV SYSTEM INFO GPS

COMMENTS:

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 20  
PROJECT \_\_\_\_\_ AREA Eel River P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>208 / July 26</u>	<u>208 / July 26</u>	
TIME(Z)	<u>05:36:15</u>	<u>0959:29</u>	<u>4 hr. 23 min.</u>
LATITUDE	<u>40° 39.430</u>	<u>40° 59.587</u>	
LONGITUDE	<u>124° 25.527</u>	<u>124° 15.843</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>2632</u>	<u>2632</u>
TAPE #	<u>625</u>	<u>639</u>	<u>15</u>
WATER DEPTH	<u>43 m</u>	<u>72 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 21° SPEED (KTS) 5 kts  
SHOT ON (TIME / DIST) REP RATE (S) 6 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu. in. G.I. gun  
NAV SYSTEM INFO DGPS

COMMENTS:

0925 speed only 4.4 kts. Off line by 60 m. (oncoming boat)  
Turned off line early at E.O.L. to avoid  
Coast pits

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 21  
PROJECT                      AREA Eel River P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>207/July 25</u>	<u>207/July 25</u>	
TIME(Z)	<u>16:12:42</u>	<u>1713:28</u>	<u>1:01</u>
LATITUDE	<u>40° 43.553</u>	<u>40° 45.708</u>	
LONGITUDE	<u>124° 21. <del>978</del></u>	<u>124° 27.947</u>	
SHOTPOINT	<u>—</u>		
FILE #	<u>1</u>	<u>602</u>	<u>602</u>
TAPE #	<u>597</u>	<u>600</u>	<u>4</u>
WATER DEPTH	<u>48 m</u>	<u>124 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS         
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 296° SPEED (KTS)         
SHOT ON (TIME/DIST) REP RATE (S) 6 (M)         
SOURCE INFO Single 45 cu. in. G.I. gun  
NAV SYSTEM INFO DGPS

COMMENTS: streamer not straight at SOL

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PROJECT                      AREA                      P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>212 / July 30</u>	<u>213 / July 31 1996</u>	
TIME(Z)	<u>20 32:07</u>	<u>01:47:18</u>	
LATITUDE	<u>40° 39.480'</u>	<u>41 03.415</u>	
LONGITUDE	<u>124° 26.089'</u>	<u>124 15.286</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	
FILE #	<u>1</u>	<u>3718</u>	
TAPE #	<u>900</u>	<u>920</u>	
WATER DEPTH	<u>50m</u>	<u>62m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS                       
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE                      SPEED (KTS) 4.8  
SHOT ON ((TIME)/DIST) REP RATE (S) 5 (M)                       
SOURCE INFO Single 45 cu in G.F. Gun  
NAV SYSTEM INFO DGPSCOMMENTS:0128 altered p.e. to due N to avoid line of crab pots  
continued 0° until EOL

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LINE INFORMATION LOG

CRUISE W9605 SHIP R/V Wecoma LINE # 23

PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>207/25 July</u>	<u>207/25 July</u>	
TIME(Z)	<u>1414:48</u>	<u>16:01:31</u>	<u>1 hr 47 min</u>
LATITUDE	<u>40° 47.641' N</u>	<u>40° 43.833</u>	
LONGITUDE	<u>124° 31.722' W</u>	<u>124 21.407</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>1068</u>	<u>1068</u>
TAPE #	<u>591</u>	<u>596</u>	<u>6</u>
WATER DEPTH	<u>590m</u>	<u>40m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48

SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_

NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15

COURSE 117 SPEED (KTS) 4.8

SHOT ON (TIME/DIST) REP RATE (S) 6 (M) \_\_\_\_\_

SOURCE INFO Single 45 ca. in. G.I. Gun

NAV SYSTEM INFO DGPS

COMMENTS:

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 24  
PROJECT                      AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>208/July 26</u>	<u>208/26 July</u>	
TIME(Z)	<u>1524:45</u>	<u>1952:22</u>	
LATITUDE	<u>40° 39.460' N</u>	<u>41° 00.380'</u>	
LONGITUDE	<u>124° 26.482' W</u>	<u>124° 16.671'</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	
FILE #	<u>2602</u>	<u>5276</u>	
TAPE #	<u>655</u>	<u>669</u>	
WATER DEPTH	<u>52 m</u>	<u>82 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS         
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS         
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 21° SPEED (KTS) 5.0 kt.  
SHOT ON (TIME/DIST) REP RATE (S) 6 (M)         
SOURCE INFO Single 45 ca. in. G.I. gun.  
NAV SYSTEM INFO DGPSCOMMENTS:OYO did not reset. started on file 2602.  
1550 Possibility of noise from fishing boats ahead  
and astern (astern of tail float).

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PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>199/Jul 17</u>	<u>199/Jul 17</u>	
TIME(Z)	<u>2045</u>	<u><del>2310</del> 2313</u>	
LATITUDE	<u>40°49.053'</u>	<u>40 43.848</u>	
LONGITUDE	<u>124°34.302'</u>	<u>124 20.163</u>	
<del>SHOTPOINT</del>			
FILE #	<u>1</u>	<u>1787</u>	<u>1787</u>
TAPE #	<u>68</u>	<u>77</u>	
WATER DEPTH	<u>585 m</u> <u>178 s</u>	<u>40 m</u>	
REC LENGTH (S)	<u>3</u>	SAMP INT (MSEC) <u>0.5</u>	# CHANNELS <u>48</u>
SEIS CHANS	<u>48</u>	AUX CHANS <u>0</u>	PROBLEM CHANS _____
NEAR OFFSET (M)	<sup>70A</sup> <u>22</u>	<sup>30A</sup> FAR OFFSET (M) <u><del>609.5</del> 609.5</u>	CHAN SEP (M) _____
COURSE	<u>116</u>	SPEED (KTS)	<u>4.8</u>
SHOT ON (TIME/DIST)		REP RATE (S)	<u>5</u> (M) _____
SOURCE INFO	_____		
NAV SYSTEM INFO	<u>DGPS</u>		

COMMENTS:CHANGE INSECTOR FROM 60 TO 50 MSEC  
GENERATOR AT 15 MSEC

- First file on tape 68 has no shot header



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LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 26

PROJECT \_\_\_\_\_ AREA Ed River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>213/31 JULY 1996</u>	<u>213/31 JULY</u>	
TIME(Z)	<u>02:13:38</u>	<u>0736:26</u>	<u>5 hrs. 23 min</u>
LATITUDE	<u>41° 03.824</u>	<u>40° 39.080' N</u>	
LONGITUDE	<u>124° 15.670</u>	<u>124° 27.555' W</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>3873</u>	<u>3873</u>
TAPE #	<u>921</u>	<u>942</u>	<u>22</u>
WATER DEPTH	_____	<u>75 m</u>	_____

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
 SEIS CHANS 48 AUX CHANS ✓ PROBLEM CHANS 4, 14, 17, 18, 20, 21, 22, 23, 25, 42, 43, 45  
 NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
 COURSE 200° SPEED (KTS) 4.9  
 SHOT ON ( TIME / DIST ) REP RATE (S) 5 (M) —  
 SOURCE INFO Single 45 cu in G1 gun  
 NAV SYSTEM INFO DGPS

COMMENTS:

Ship off line as much as 50 m (to both sides) in last mile.

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LINE INFORMATION LOG

CRUISE W9605 SHIP R/V Wecoma LINE # 27

PROJECT                      AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>210/28 JULY</u>	<u>210/JULY 28</u>	
TIME(Z)	<u>1313:17</u>	<u>1537:35</u>	<u>2 hr. 24 min</u>
LATITUDE	<u>40° 44.785' N</u>	<u>40° 49.588' N</u>	
LONGITUDE	<u>124° 21.503' W</u>	<u>124° 35.510' W</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	<u>                    </u>
FILE #	<u>1</u>	<u>1440</u>	<u>1440</u>
TAPE #	<u>787</u>	<u>794</u>	<u>8</u>
WATER DEPTH	<u>47 m</u>	<u>670 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48

SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS                     

NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15

COURSE 295° SPEED (KTS) 4.8 kts

SHOT ON (TIME/DIST) REP RATE (S) 6 (M)                     

SOURCE INFO Single 45 cc in. G.I. gun

NAV SYSTEM INFO DGPS

COMMENTS:

Streamer not aligned at s.o.l.  
Probably aligned by 1316.

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PROJECT                      AREA Fal River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>213 / 31 JULY</u>	<u>213 / 31 JULY</u>	
TIME(Z)	<u>0800:32</u>	<u>0903:56</u>	<u>1 hr. 3 min</u>
LATITUDE	<u>40° 40.337' N</u>	<u>40° 45.091</u>	
LONGITUDE	<u>124° 27.514' W</u>	<u>124° 25.246</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	<u>                    </u>
FILE #	<u>1</u>	<u>760</u>	<u>760</u>
TAPE #	<u>943</u>	<u>947</u>	<u>5</u>
WATER DEPTH	<u>70 m</u>	<u>73 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
4, 14, 17, 21, 22, 23,  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 25, 45  
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE 22° SPEED (KTS) 4.8 kt  
SHOT ON (TIME / DIST) REP RATE (S) 5 (M)                       
SOURCE INFO Single 45 cu. in. G.I. gun  
NAV SYSTEM INFO DGPSCOMMENTS:streamer not aligned at S.O.L.

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 283  
PROJECT                      AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>213/31 July</u>	<u>213/31 July</u>	
TIME(Z)	<u>1343:06</u>	<u>1809:02</u>	<u>4 hrs. 26 min.</u>
LATITUDE	<u>40° 43.826' N</u>	<u>41° 04.227' N</u>	
LONGITUDE	<u>124° 25.846' W</u>	<u>124° 16.042' W</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	<u>                    </u>
FILE #	<u>1</u>	<u>3191</u>	<u>3191</u>
TAPE #	<u>963</u>	<u>980</u>	<u>18</u>
WATER DEPTH	<u>67 m</u>	<u>78 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
 SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 2, 4, 13, 14, 17, 20, 21, 22, 23, 25, 32, 43, 44, 45  
 NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
 COURSE 210 SPEED (KTS) 4.8 kt.  
 SHOT ON (TIME/DIST)                      REP RATE (S) 5 (M)                       
 SOURCE INFO Single 45 cu.in. G.I. gun  
 NAV SYSTEM INFO DGPS

COMMENTS:

Streamer might not be aligned at S.O.L.  
Possible GPS fluctuations reported by 1st Mate.  
(he said it could have been currents,  
however).

1627 Asked bridge to reduce speed. Had crept up to 5.2 kt.

1701 Tapes are coming out 3 mins. late. Delay may have occurred in one tape. Not sure when (missed shots?). There is a 3-min. gap in tape log.

Many skipped shots on E.O.L. printouts.

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 29PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>199 / July 17</u>	<u>200 / July 18</u>	
TIME(Z)	<u>2336</u>	<u>0209</u>	
LATITUDE	<u>40° 44.428</u>	<u>40° 49.318</u>	
LONGITUDE	<u>124° 19.120</u>	<u>124° 34.254</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>1842</u>	<u>1842</u>
TAPE #	<u>78</u>	<u>89</u>	
WATER DEPTH	<u>35 m</u>	<u>578 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) \_\_\_\_\_COURSE 294 SPEED (KTS) 4.8 ktsSHOT ON (TIME / DIST) REP RATE (S) 5 (M) \_\_\_\_\_

SOURCE INFO \_\_\_\_\_

NAV SYSTEM INFO DGPSCOMMENTS:

↑ Prior to line 29, nav. may  
not be DGPS, but dithereved GPS

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PROJECT                      AREA                      P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>210 / 28 JULY</u>	<u>210 / 28 JULY</u>	
TIME(Z)	<u>0732:55</u>	<u>0959:18</u>	<u>2 hr. 27 min.</u>
LATITUDE	<u>40° 45.390' N</u>	<u>40° 49.732' N</u>	
LONGITUDE	<u>124° 20.648' W</u>	<u>124° 35.045' W</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	<u>                    </u>
FILE #	<u>1</u>	<u>1463</u>	<u>1463</u>
TAPE #	<u>764</u>	<u>777</u>	<u>9</u>
WATER DEPTH	<u>47m</u>	<u>620 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS                       
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 292° SPEED (KTS) 4.8  
SHOT ON ( TIME / DIST ) REP RATE (S) 6 (M)                       
SOURCE INFO Single 45 cc. ir. G.I. gun  
NAV SYSTEM INFO DGPSCOMMENTS:Streamer not aligned at S.O.L.

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PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>200/JULY 18</u>	<u>200/JULY 18</u>	
TIME(Z)	<u>0230</u>	<u>0500</u>	<u>2 hrs 30 min</u>
LATITUDE	<u>40 49.579</u>	<u>40° 45.328</u>	
LONGITUDE	<u>124 34.190</u>	<u>-124° 18.880</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>1800</u>	<u>1800</u>
TAPE #	<u><del>88</del> 90</u>	<u>99</u>	<u>9 10</u>
WATER DEPTH	<u>578 m</u> <u>.77</u>	<u>38 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS Ø PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) \_\_\_\_\_  
COURSE 110 SPEED (KTS) 5.0 kts  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO G.I. Gun tuned 45 ci/chamber w/35 ms delay  
NAV SYSTEM INFO DGPS  
COMMENTS:

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CRUISE W9605B SHIP R/V Wecoma LINE # 36 34\*  
PROJECT                      AREA                      P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>213/31 July</u>	<u>213/31 July '96</u>	
TIME(Z)	<u>1858:14</u>	<u>2305:06</u>	
LATITUDE	<u>41° 04.354' N</u>	<u>40° 45.450</u>	
LONGITUDE	<u>124° 17.780' W</u>	<u>124° 26.873</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	
FILE #	<u>1</u>	<u>2957**</u>	
TAPE #	<u>981</u>	<u>997</u>	
WATER DEPTH	<u>100m</u>	<u>103m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS                       
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE                      SPEED (KTS)                       
SHOT ON (TIME) (DIST) REP RATE (S) 5 (M)                       
SOURCE INFO Single 45 cc.in. G.I. gun  
NAV SYSTEM INFO DGPS

COMMENTS: \* incorrectly began calling this line "36" @ start  
s/b line "34"

\*\* Files 6, 193, 555, 1097, 1101, 1272, 1460, 2355, 2359,  
2721, 2732, 2735, 2903 Skipped.



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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605 SHIP R/V Wecoma LINE # 35  
PROJECT                      AREA Fel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>210 / 28 JULY</u>	<u>210 / 28 JULY</u>	
TIME(Z)	<u>10:20:??</u>	<u>1245:49</u>	<u>2 hr. 24 min</u>
LATITUDE	<u>40° 49.648' N</u>	<u>40° 45.939' N</u>	
LONGITUDE	<u>124° 33.921' W</u>	<u>124° 19.526' W</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	<u>                    </u>
FILE #	<u>1</u>	<u>1450</u>	<u>1450</u>
TAPE #	<u>778</u>	<u>786</u>	<u>9</u>
WATER DEPTH	<u>550 m</u>	<u>45m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS                       
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 109° SPEED (KTS) 4.9 kt.  
SHOT ON (TIME / DIST) REP RATE (S) 6 (M)                       
SOURCE INFO Single 45 ca. in. G.I. gun  
NAV SYSTEM INFO DGPS

COMMENTS:

Some maneuvering to avoid a fishing boat just  
after s.o.b. — had to deviate left of line  
to a maximum of ~270 m at ~1100.  
Back on line with streamer aligned by ~1117  
(turn back to line sharper than turn off line).

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 37  
PROJECT                      AREA                      P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>200/July 18</u>	<u>200/July 18</u>	
TIME(Z)	<u>0521</u>	<u>0751</u>	<u>2.5 hrs</u>
LATITUDE	<u>40° 46.225</u>	<u>40 49.800</u>	
LONGITUDE	<u>124° 18.786</u>	<u>124 34.063</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	<u>                    </u>
FILE #	<u>1</u>	<u>1805 (but see line log)</u>	<u>1805</u>
TAPE #	<u>100</u>	<u>109</u>	<u>9 10</u>
WATER DEPTH	<u>45 m</u>	<u>570 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 6 PROBLEM CHANS 10, 22  
NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5 m  
COURSE 288 SPEED (KTS) 25.0 kts  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M)                       
SOURCE INFO Single 45 ci G.I. gun  
NAV SYSTEM INFO DGPS

COMMENTS:

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # ~~40~~ 39  
PROJECT                      AREA El River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>210 / 28 July</u>	<u>210 / 28 July</u>	
TIME(Z)	<u>04:24:35</u>	<u>06:57:02</u>	
LATITUDE	<u>40° 49.982</u>	<u>40° 46.640</u>	
LONGITUDE	<u>124° 34.306</u>	<u>124° 18.600</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	
FILE #	<u>1</u>	<u>1524</u>	
TAPE #	<u><del>75</del> 760</u>	<u>768</u>	
WATER DEPTH	<u>573 m</u>	<u>43m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS                       
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 107° SPEED (KTS) 4.6  
SHOT ON (TIME/DIST) REP RATE (S) 6 (M)                       
SOURCE INFO Single 45 w. in. G.I. gun  
NAV SYSTEM INFO DGPS

COMMENTS:

Numerous files skipped, especially on  
tapes 762, 766

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LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 40  
PROJECT                      AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>210 / 28 July 1996</u>	<u>211 / 29 July 1996</u>	
TIME(Z)	<u>21:43:23</u>	<u>01:53:47</u>	
LATITUDE	<u>41° 05.172</u>	<u>40° 46.190</u>	
LONGITUDE	<u>124° 19.436</u>	<u>124° 28.595</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	
FILE #	<u>1</u>	<u>2503 *</u>	
TAPE #	<u>809</u>	<u>822</u>	
WATER DEPTH	<u>130m</u>	<u>192m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48

SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS                     

NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15

COURSE 200° SPEED (KTS) 5.0 kts

SHOT ON (TIME/DIST) REP RATE (S) 6 (M) —

SOURCE INFO Single 45 cm in GI gun

NAV SYSTEM INFO DGPS

COMMENTS:

\* skipped files 362-378 (inclusive) between <sup>tape</sup> 811 & 812.

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W960513 SHIP R/V Wecoma LINE # 41  
PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>201/Jul 19</u>		
TIME(Z)	<u>22:20:58</u>	<u>0147:31</u>	
LATITUDE	<u>40 44.90</u>	<u>40° 50.968</u>	
LONGITUDE	<u>124 17.473</u>	<u>124° 39.034</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>2476</u>	
TAPE #	<u>232</u>	<u>245</u>	
WATER DEPTH		<u>~665m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 4,10,20,21,22,25,43,45,32  
NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5  
COURSE \_\_\_\_\_ SPEED (KTS) \_\_\_\_\_  
SHOT ON ( TIME / DIST ) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu. in. GF air Gun  
NAV SYSTEM INFO DGPSCOMMENTS:

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 42  
PROJECT \_\_\_\_\_ AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>206 / July 24</u>	<u>206 / July 24</u>	
TIME(Z)	<u>0849:06</u>	<u>1336:05</u>	<u>4hrs 48 min</u>
LATITUDE	<u>40° 03.849</u>	<u>40° 42.053</u>	
LONGITUDE	<u>124° 20.690</u>	<u>124° 31.227</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>2867</u>	<u>2867</u>
TAPE #	<u>506</u>	<u>521</u>	<u>16</u>
WATER DEPTH	<u>155m</u>	<u>247m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 200 SPEED (KTS) 4.8-4.9 kt  
SHOT ON (TIME) (DIST) REP RATE (S) 6 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu. in. G.I. gun  
NAV SYSTEM INFO DGPS

COMMENTS:

Started south of N. end of line (turned onto it early to avoid fishing boats.  
Streamer not aligned at S.O.L.

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 43PROJECT                      AREA                      P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>201/July 19</u>	<u>201/July 19</u>	
TIME(Z)	<u>1924</u>	<u>2206</u>	
LATITUDE	<u>40°50.362'</u>	<u>40°47.213'</u>	
LONGITUDE	<u>-124°34.592'</u>	<u>-124°16.475'</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	
FILE #	<u>1</u>	<u>1941</u>	
TAPE #	<u>221</u>	<u>231</u>	
WATER DEPTH	<u>555</u>	<u>40m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS                     NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5COURSE                      SPEED (KTS) 4.8SHOT ON (TIME/DIST) REP RATE (S) 5 (M)                     SOURCE INFO Single 45 cu. in G.I. air gunNAV SYSTEM INFO DGPSCOMMENTS:

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 44  
PROJECT \_\_\_\_\_ AREA El River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>211 / 29 July 1996</u>	<u>211 / 29 July 1996</u>	
TIME(Z)	<u>02:14:18</u>	<u>06:23:43</u>	<u>4hrs 9 min</u>
LATITUDE	<u>40° 46.474</u>	<u>41° 05.746</u>	
LONGITUDE	<u>124° 29.672</u>	<u>124° 20.386</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>2493</u>	<u>2494</u>
TAPE #	<u>823</u>	<u>836</u>	<u>14</u>
WATER DEPTH	<u>308 m</u>	<u>152 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 15° SPEED (KTS) \_\_\_\_\_  
SHOT ON (TIME / DIST) REP RATE (S) 6 (M) —  
SOURCE INFO Single 45 cm in GI gun  
NAV SYSTEM INFO DGPSCOMMENTS:



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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 45  
PROJECT                      AREA Eel River P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>202/JULY 20</u>	<u>202/JULY 20</u>	
TIME(Z)	<u>02:13:46</u>	<u>05:47</u>	<u>3 hrs. 34 min</u>
LATITUDE	<u>40° 51 844</u>	<u>40° 47 670</u>	
LONGITUDE	<u>124 39 056</u>	<u>124° 16 700</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	<u>                    </u>
FILE #	<u>1</u>	<u>2563</u>	<u>2563</u>
TAPE #	<u>246</u>	<u>260</u>	<u>14 15</u>
WATER DEPTH	<u>685 m</u>	<u>38 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS                       
NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5  
COURSE 104 SPEED (KTS) 4.9  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M)                       
SOURCE INFO Single 45 cu. in. 61 air gun  
NAV SYSTEM INFO DGPS

COMMENTS:

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 46  
PROJECT \_\_\_\_\_ AREA Eel River P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>206 / JULY 24</u>	<u>206 / JULY 24</u>	
TIME(Z)	<u>06:25:40</u>	<u>08:28:13</u>	<u>2hr. 3 min</u>
LATITUDE	<u>40°55.652</u>	<u>40° 04.760' N</u>	
LONGITUDE	<u>124° 25.856</u>	<u>124° 21.460' W</u>	
SHOTPOINT	<u>—</u>		
FILE #	<u>1</u>	<u>1224</u>	<u>1224</u>
TAPE #	<u>499</u>	<u>505</u>	<u>7</u>
WATER DEPTH	<u><del>177</del> 265</u>	<u>184 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48

SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_

NEAR OFFSET (M) <sup>31.5</sup>24 FAR OFFSET (M) 736.5 CHAN SEP (M) 15 m

COURSE 21° SPEED (KTS) 4.8 Kts

SHOT ON (TIME/DIST) REP RATE (S) 6 (M) \_\_\_\_\_

SOURCE INFO Single 45 cu. in. 61 gun

NAV SYSTEM INFO DGPS

COMMENTS: Started line 46 mid-line after removing weight from 2nd streamer & redeploying  
Stopped short of E.O.L. because of fishing boats.

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 46RPROJECT \_\_\_\_\_ AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>214 / 1 August '96</u>	<u>214 / 1 August '96</u>	
TIME(Z)	<u>00:01:40</u>	<u>02:02:03</u>	
LATITUDE	<u>40° 46.762</u>	<u>40° 55.942</u>	
LONGITUDE	<u>124° 30.133</u>	<u>124° 25.714</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>1444*</u>	
TAPE #	<u>998</u>	<u>1006</u>	
WATER DEPTH	<u>360m</u>	<u>258m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS Ø PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 21 FAR OFFSET (M) 2608.5 CHAN SEP (M) 12.5  
COURSE 19 SPEED (KTS) 4.8  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M) —  
SOURCE INFO Single 45 cu in GI gun.  
NAV SYSTEM INFO DGPS.

COMMENTS:

\* Files 11, 213, 739, 914 skipped.

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 47  
PROJECT                      AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>210/28 July</u>	<u>210/28 July</u>	
TIME(Z)	<u>00:44:46</u>	<u>03:29:51</u>	
LATITUDE	<u>40°48.285</u>	<u>40°51.479</u>	
LONGITUDE	<u>124°17.828</u>	<u>124°34.740</u>	
SHOTPOINT	<u>-</u>	<u>-</u>	<u>-</u>
FILE #	<u>1</u>	<u>1650</u>	<u>1651</u>
TAPE #	<u>750</u>	<u>759</u>	<u>10</u>
WATER DEPTH	<u>48 m</u>	<u>565 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 #CHANNELS 48  
SEIS CHANS 48 AUX CHANS Ø PROBLEM CHANS         
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 286° SPEED (KTS) 4.8 KTS  
SHOT ON (TIME / DIST) REP RATE (S) 6 (M) -  
SOURCE INFO Single 45 mm GI gun  
NAV SYSTEM INFO DGPS.COMMENTS:

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 48  
PROJECT \_\_\_\_\_ AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>210 / July 28</u>	<u>210 / 28 July</u>	
TIME(Z)	<u>1702:50</u>	<u>21:12:39</u>	
LATITUDE	<u>40° 47.153' N</u>	<u>41° 06.144</u>	
LONGITUDE	<u>124° 30.516' W</u>	<u>124° 21.462</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>2497</u>	
TAPE #	<u>795</u>	<u>808</u>	
WATER DEPTH	<u>420 m</u>	<u>190m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE \_\_\_\_\_ SPEED (KTS) \_\_\_\_\_  
SHOT ON (TIME / DIST) REP RATE (S) 6 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu. in. G.I. gun  
NAV SYSTEM INFO DGPSCOMMENTS:

Streamer may not be aligned at S.O.L.

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 49  
PROJECT \_\_\_\_\_ AREA Eel River P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>202/July 20</u>	<u>202/July 20</u>	
TIME(Z)	<u>06:09:38</u>	<u>09 40:22</u>	<u>3 hr. 31 min</u>
LATITUDE	<u>40° 48.507</u>	<u>40° 52.623</u>	
LONGITUDE	<u>124° 16.593</u>	<u>124° 38.239</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>2525</u>	<u>2525</u>
TAPE #	<u>261</u>	<u>275</u>	<u>14 15</u>
WATER DEPTH	<u>48 m</u>	<u>622</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 4, 14, 20, 22, 23, 25, 26, 32, 43, 45  
NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5  
COURSE 285 SPEED (KTS) \_\_\_\_\_  
SHOT ON ( TIME / DIST ) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cc in. G.I. gun  
NAV SYSTEM INFO DGPSCOMMENTS: Speed 5.1 kt early in line (possibly w/hw).

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 50  
PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	START	END	TOTAL
DATE(JD/DATE)	<u>201/July 19</u>	<u>201/July 19</u>	(hours)
TIME(Z)	<u>0754:49</u>	<u>Break Restart 1125:28</u>	<u>1330:39</u>
LATITUDE	<u>40° 46.150</u>	<u>41° 06.128</u>	<u>4.5 + 1.1 turn</u>
LONGITUDE	<u>124° 31.701</u>	<u>124° 22.026</u>	
SHOTPOINT			
FILE #	<u>1-1766</u>	<u>Compressor failed, turned back, restart at (sections will overlap)</u>	<u>1767</u>
TAPE #	<u>185</u>	<u>203</u>	<u>1819</u>
WATER DEPTH	<u>465</u>	<u>218</u>	

N.B. File Nos. based on assumption 180 files/tape differ from file nos. on DAS screen

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48

SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 20, 22, 25, 32, 43

NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5

COURSE 28° initially then 20° SPEED (KTS) 5.3 kt initially, reduced to 4.9 kt by 0800

SHOT ON (TIME/DIST) \_\_\_\_\_ REP RATE (S) 5 (M) \_\_\_\_\_

SOURCE INFO Single 45 ca. in. GI air gun

NAV SYSTEM INFO DGPS

COMMENTS: S.O.L. is on a southward extension of line 50.

A bit fast, 5.3 kt at S.O.L., also course of 28°

not in exact alignment with line 50

Course 20° by 0802

Speed 4.9 kt by 0811

\* Gun is poorly tuned, giving bad bubble from SOL through ~shot 1720

N 1019 - Compressor stopped. Turned back to re-shoot missed section and continue line. Last file No. 1766. Will restart at file 1767 at 1125:28

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 51  
PROJECT \_\_\_\_\_ AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>209 / July 27</u>	<u>209 / July 27</u>	
TIME(Z)	<u>1826:57</u>	<u>21:06:32</u>	
LATITUDE	<u>40° 48.979' N</u>	<u>40° 52.073</u>	
LONGITUDE	<u>124° 16.791' W</u>	<u>124° 33.208</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>1594</u>	_____
TAPE #	<u>732</u>	<u>740</u>	_____
WATER DEPTH	<u>48 m</u>	<u>538 m</u>	_____

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE \_\_\_\_\_ SPEED (KTS) \_\_\_\_\_  
SHOT ON (TIME / DIST) REP RATE (S) 6 (M) 15  
SOURCE INFO Single 45 cu. in. GI gun  
NAV SYSTEM INFO DGPSCOMMENTS:



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R/V WECOMA JULY 1996**

**LINE INFORMATION LOG**

CRUISE W9605 SHIP R/V Wecoma LINE # 52  
PROJECT \_\_\_\_\_ AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>207/25 JULY</u>	<u>207/25 JULY</u>	
TIME(Z)	<u>0934:27</u>	<u>1342:33</u>	<u>4 hr 8 min</u>
LATITUDE	<u>41° 06.272'</u>	<u>40° 47.309' N</u>	
LONGITUDE	<u>124° 22.525'</u>	<u>124° 31.724' W</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>2476</u>	<u>2476</u>
TAPE #	<u>577</u>	<u>590</u>	<u>14</u>
WATER DEPTH	<u>252 m</u>	<u>478 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 200 SPEED (KTS) 4.9  
SHOT ON (TIME/DIST) REP RATE (S) 6 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu. in. G.I. gun  
NAV SYSTEM INFO DGPS

**COMMENTS:**

Streamer may not be aligned ~~right~~ at S.O.L.  
1029 Compressor down  
1034 Resumed shooting  
1107 ~~Stream~~ Bursts of noise, channels 12-17  
1230 " " " " " 26-33

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 53  
PROJECT                      AREA                      P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>202/July 20</u>	<u>202/July 20</u>	
TIME(Z)	<u>1012:00</u>	<u>1346:5531</u>	<u>3 hr 34 min</u>
LATITUDE	<u>40° 53.357</u>	<u>40° 49.162</u>	
LONGITUDE	<u>124° 37.690</u>	<u>124° 15.520</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	<u>                    </u>
FILE #	<u>1</u>	<u>2575</u>	<u>2575</u>
TAPE #	<u>276</u>	<u>290</u>	<u>1415</u>
WATER DEPTH	<u>622</u>	<u>38</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 4, 14, 21, 22, 23, 25, 32, 43, 45  
NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5  
COURSE 100 SPEED (KTS)                       
SHOT ON (TIME/DIST) REP RATE (S) 5 (M)                       
SOURCE INFO Single 45 ca. in. G.I. gun  
NAV SYSTEM INFO DGPSCOMMENTS:Streamer may be off line, angled to port at S.O.L.  
Speed 5.2 kt at S.O.L. 4.9 kt by 1016

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 54  
PROJECT                      AREA                      P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>201 / July 19</u>	<u>201 / July 19</u>	
TIME(Z)	<u>1357:05</u>	<u>1801:57</u>	<u>N 4 hrs 5 min.</u>
LATITUDE	<u>41° 06.447</u>	<u>40° 47.708</u>	
LONGITUDE	<u>124° 23.044</u>	<u>124° 32.116</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	<u>                    </u>
FILE #	<u>1</u>	<u>2936</u>	<u>2936</u>
TAPE #	<u>204</u>	<u>220</u>	<u>16 17</u>
WATER DEPTH	<u>298m</u>	<u>506 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS                       
NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5  
COURSE 201 SPEED (KTS) 5.1 kt initially, slowing to 4.9  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M)                       
SOURCE INFO Single 45 cu. in. G.I. air gun  
NAV SYSTEM INFO DGPS

COMMENTS:

SSB Transmissions (possible interference): 1505, 1621

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 55PROJECT                      AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>209 / 27 July</u>	<u>210 / 28 July</u>	
TIME(Z)	<u>21:32:40</u>	<u>00:12:</u>	
LATITUDE	<u>40° 52.835</u>	<u>40° 49</u>	
LONGITUDE	<u>124° 32.493</u>	<u>124°</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>1592*</u>	
TAPE #	<u>741</u>	<u>749</u>	
WATER DEPTH	<u>525m</u>	<u>45m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48SEIS CHANS 48 AUX CHANS Ø PROBLEM CHANS                     NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15COURSE 104° SPEED (KTS) 4.8SHOT ON (TIME / DIST) REP RATE (S) 6 (M) —SOURCE INFO Single 45 cu in GE gunNAV SYSTEM INFO DGPSCOMMENTS:

\* FILE 1019 WAS SKIPPED.

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 56  
PROJECT E AREA Eel River P.I. Mountain/Fulthorpe/Austin

	START	END	TOTAL
DATE(JD/DATE)	<u>207/25 July</u>	<u>207/25 July</u>	
TIME(Z)	<u>04:46:32</u>	<u>0903:57</u>	<u>4 hr. 17 min</u>
LATITUDE	<u>40° 47' 18.0</u>	<u>40° 06.778'</u>	
LONGITUDE	<u>124° 32' 96.0</u>	<u>124° 23.555</u>	
SHOTPOINT	<u>—</u>		
FILE #	<u>1</u>	<u>2573</u>	<u>2573</u>
TAPE #	<u>562</u>	<u>576</u>	<u>15</u>
WATER DEPTH	<u>625m</u>	<u>355</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS —  
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 21° SPEED (KTS) 4.9 KTS  
SHOT ON (TIME / DIST) REP RATE (S) 6 (M) —  
SOURCE INFO Single 45 c.i. G.I. gun  
NAV SYSTEM INFO DGPS

COMMENTS: Drivel stalled on turn, listen for rpm change

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LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 57  
PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>202/July 20</u>	<u>202/July 20</u>	
TIME(Z)	<u>1406:55</u>	<u>15:27</u>	<u>1 hr 21 min</u>
LATITUDE	<u>40° 50.008'</u>		
LONGITUDE	<u>124° 15.112'</u>		
SHOTPOINT			
FILE #	<u>1</u>	<u>RAW 96B</u>	<u>7</u>
TAPE #	<u>291</u>	<u>RAW 296</u>	<u>56</u>
WATER DEPTH	<u>38</u>	<u>140 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5  
COURSE 285 SPEED (KTS) ~ 4.9 KTS  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu. in. G.I. air gun  
NAV SYSTEM INFO DGPS

COMMENTS:

Streamer not parallel to line at S.O.L  
1450 Speed dropped to 4.4 kt  
1503 Airgun float sunk or lost. May have been gone since S.O.L. Gun depth increased for remainder of line.  
1527 Stopped line to replace air gun float

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # S7-Reshoot  
PROJECT \_\_\_\_\_ AREA Col River P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>202/JUL 20</u>	<u>203/JULY 21</u>	
TIME(Z)	<u>2240:57</u>	<u>01:51:12</u>	
LATITUDE	<u>40° 53.658</u>	<u>40° 50.023</u>	
LONGITUDE	<u>124° 34.705</u>	<u>124° 15.195</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>2279</u>	
TAPE #	<u>297</u>	<u>309</u>	<u>13</u>
WATER DEPTH	<u>570</u>		

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 27 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE 108° SPEED (KTS) 4.8 kts  
SHOT ON ( TIME ) DIST ) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO single 45 cu in air gun  
NAV SYSTEM INFO DGPS

COMMENTS: Reshooting Line S7 from W→E  
Following replacement of air gun

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 58  
PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>200 / July 18</u>	<u>200 / July 18</u>	
TIME(Z)	<u>0856</u>	<u>1303</u>	<u>4 hr. 7 min</u>
LATITUDE	<u>40° 48.166</u>	<u>41° 06.978</u>	
LONGITUDE	<u>124° 33.100</u>	<u>124° 24.060</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>2971</u>	<u>2971</u>
TAPE #	<u>110</u>	<u>126</u>	<u>16 17</u>
WATER DEPTH	<u>540m</u>	<u>412</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 4, 22, 23, 25, 43  
NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5  
COURSE 20° SPEED (KTS) 5 kt - 4.7 kt  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO 45 cu. in. G.I. air gun  
NAV SYSTEM INFO DGPSCOMMENTS:Not completely lined up on line at S.O.L  
Recorded for ~ 2 mins. beyond E.O.L.



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LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 59  
PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	START	END	TOTAL
DATE(JD/DATE)	<u>JD 203/July 21</u>	<u>JD 203/July 21</u>	
TIME(Z)	<u>0829:59</u>	<u>1110:26</u>	<u>2 hr 40 min</u>
LATITUDE	<u>40° 50.574</u>	<u>40° 53.661</u>	
LONGITUDE	<u>124° 15.819</u>	<u>124° 32.248</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>1925</u>	<u>1925</u>
TAPE #	<u>333</u>	<u>343</u>	<u>10 11</u>
WATER DEPTH	<u>50 m</u>	<u>520</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48 <sup>19, 2</sup>  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 25, 32, 43, 45, 30 <sup>1, 2, 3, 4, 5, 15, 16, 17, 20, 21, 22, 23, 24</sup>  
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE 283 SPEED (KTS) \_\_\_\_\_  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cc. in. G.I. gun  
NAV SYSTEM INFO DGPS

COMMENTS:

Streamer might not be straight at S.O.L.  
0832 Streamer probably straight.  
10:45 Speed down to 4.3 kt due to waves/currents.  
Called for increase.

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R/V WECOMA JULY 1996**

**LINE INFORMATION LOG**

CRUISE W9605B SHIP R/V Wecoma LINE # 60  
PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>199 / July 17</u>	<u>199 / July 17</u>	
TIME(Z)	<u><del>1403</del> 1403</u>	<u>1811</u>	
LATITUDE	<u>41 07.391</u>	<u>40° 48.50</u>	
LONGITUDE	<u>124 25.079</u>	<u>124° 34.13</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>2978</u>	<u>2978</u>
TAPE #	<u>51</u>	<u>67</u>	_____
WATER DEPTH	<u>495</u>	<u>563 m</u> <u>175</u>	_____

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 4<sup>22</sup>, 42, 44 45? 43?  
NEAR OFFSET (M) 42 FAR OFFSET (M) 629.5 CHAN SEP (M) 12.5  
COURSE 200° SPEED (KTS) 5.1 kt - reduced to 4.9 kt  
SHOT ON (TIME / DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO G.I. gun fired 45 c.i. / chamber w/ 35 ms delay  
NAV SYSTEM INFO DGPS

**COMMENTS:**

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LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 61  
PROJECT \_\_\_\_\_ AREA Eel River P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>203 / JULY 21</u>	<u>203 / JULY 21</u>	
TIME(Z)	<u>02:14:17</u>	<u>05:02</u>	<u>3 hrs. 12 min.</u>
LATITUDE	<u>40° 50.832</u>	<u>40° 54.108</u>	
LONGITUDE	<u>124° 19.923</u>	<u>124° 32.157</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>2020</u>	<u>2020</u>
TAPE #	<u>310</u>	<u>321</u>	<u>21 12</u>
WATER DEPTH	<u>~45m</u>	<u>520m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS \_\_\_\_\_ PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE 284° SPEED (KTS) ~5 KTS  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu in air gun  
NAV SYSTEM INFO DGPS

COMMENTS:

Guns not all the way out when line started.  
02:19 - Guns straight out.

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 62  
PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>199 / July 17</u>	<u>199 / July 17</u>	
TIME(Z)	<u>0931</u>	<u>1331</u>	<u>4 hrs</u>
LATITUDE	<u>40 49.851</u>	<u>41° 08.069</u>	
LONGITUDE	<u>124 35.344</u>	<u>124 26.531</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>3</u>	<u>2900</u>	<u>2897</u>
TAPE #	<u>35</u>	<u>50</u>	<u>15 16</u>
WATER DEPTH	<u>660 m</u>	<u>615.0 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 4, 22, 43, 45, [44?, 17?, 20?]  
NEAR OFFSET (M) 42 FAR OFFSET (M) 629.5 CHAN SEP (M) 12.5  
COURSE 20° SPEED (KTS) 4.8 kn  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO G.I. Gun fired 45 cu. in chamber w/ 35 ms delay  
NAV SYSTEM INFO DGPS

COMMENTS:

Turn into line was made too soon. Streamer  
may not have been parallel to line at S.O.L.  
Bird No. 2 intermittently communicating

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LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 63

PROJECT \_\_\_\_\_ AREA Cel River P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>203/July 21</u>	<u>203/July 21</u>	
TIME(Z)	<u>05:34:40</u>	<u>08:14:20</u>	<u>2hr 40 min</u>
LATITUDE	<u>40° 54.914</u>	<u>40° 51.385</u>	
LONGITUDE	<u>124° 31.612</u>	<u>124° 15.236</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>1950</u>	<u>1950</u>
TAPE #	<u>322</u>	<u>332</u>	<u>10 11</u>
WATER DEPTH	<u>500 m</u>	<u>50 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48

SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 4, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 25, 26, 32, 44, 45

NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5

COURSE \_\_\_\_\_ SPEED (KTS) \_\_\_\_\_

SHOT ON (TIME / DIST) REP RATE (S) 5 (M) \_\_\_\_\_

SOURCE INFO Single 45 c.i G.I gun

NAV SYSTEM INFO DGPS

COMMENTS:

1045 Speed down

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PROJECT                      AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>214/1 Aug 1996</u>	<u>214/1 Aug 1996</u>	
TIME(Z)	<u>03 10 41</u>	<u>04 10 20</u>	<u>1 hr</u>
LATITUDE	<u>40° 59.750</u>	<u>40° 56.094</u>	
LONGITUDE	<u>124° 30.876</u>	<u>124° 36.973</u>	
SHOTPOINT	<u>-</u>		
FILE #	<u>1</u>	<u>716</u>	<u>717</u>
TAPE #	<u>1007</u>	<u>1010</u>	<u>4</u>
WATER DEPTH	<u>250</u>	<u>480</u> <u>250 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS           
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE                  SPEED (KTS) 4.8 Kts  
SHOT ON (TIME / DIST) REP RATE (S) 5 (M)           
SOURCE INFO Single 45cm in Bl gun.  
NAV SYSTEM INFO DGPSCOMMENTS:

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PROJECT                      AREA                      P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>199 / July 17</u>	<u>                    </u>	<u>                    </u>
TIME(Z)	<u>0958</u>	<u>0901</u>	<u>4 hr 3 min</u>
LATITUDE	<u>41° 08.511</u>	<u>40° 50.029</u>	<u>                    </u>
LONGITUDE	<u>-124° 28.156</u>	<u>-124° 37.085</u>	<u>                    </u>
SHOTPOINT	<u>                    </u>	<u>                    </u>	<u>                    </u>
FILE #	<u><del>2910</del> 1</u>	<u>2910</u>	<u>2910</u>
TAPE #	<u>18</u>	<u>34</u>	<u>16 17</u>
WATER DEPTH	<u>2750</u>	<u><del>2750</del> 832m</u>	<u>                    </u>

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS φ PROBLEM CHANS 4, 20?, 43?, 44?, 45?  
NEAR OFFSET (M) 42 FAR OFFSET (M) 629.5 CHAN SEP (M) 12.5  
COURSE 700° SPEED (KTS) 2.8 kts  
SHOT ON (TIME / DIST) REP RATE (S) 5 (M)                       
SOURCE INFO G.I. gun tuned 45 cu. in. / chamber w/ 35 ms delay  
NAV SYSTEM INFO DGPSCOMMENTS:

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 65  
PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>203 / July 21</u>	<u>203 / July 21</u>	
TIME(Z)	<u>1455.34</u>	<u>1731:36</u>	<u>2 hr. 36 min</u>
LATITUDE	<u>40° 51.814</u>	<u>40° 55.744'</u>	
LONGITUDE	<u>124° 15.260</u>	<u>124° 31.270'</u>	
SHOTPOINT	<u><del>42</del></u>		
FILE #	<u>1</u>	<u>1870</u>	<u>1870</u>
TAPE #	<u>355</u>	<u>365</u>	<u>16 11</u>
WATER DEPTH	<u>50 m</u>	<u>500 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 4, 14, 20, 21, 22, 23, 24, 25, 26, 31, 32, 43, 45  
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE 295° SPEED (KTS) 4.9  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu. in. GI gun  
NAV SYSTEM INFO DGPS

COMMENTS:

streamer not aligned at S.O.L.  
N 1458 Streamer should be lined up.  
1549 Noticed speed at 4.4 kt. Increasing.



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PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>199/July 17</u>	<u>199/July 17</u>	
TIME(Z)	<u>0010</u>	<u>0418</u>	<u>4 hrs. 8 min</u>
LATITUDE	<u>40° 50.454'</u>	<u>41° 09.326</u>	
LONGITUDE	<u>-124° 38.706'</u>	<u>-124° 29.514</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>2909</u>	<u>2907</u>
TAPE #	<u>1</u>	<u>17</u>	<u>17</u>
WATER DEPTH	<u>1088 m</u>	<u>825 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 4, 20, 44  
NEAR OFFSET (M) 92 FAR OFFSET (M) 629.5 CHAN SEP (M) 12.5  
COURSE 20° SPEED (KTS) ~5.1  
SHOT ON (TIME/DIST) \_\_\_\_\_ REP RATE (S) 5 (M) 12.5  
SOURCE INFO G.I. gun tuned 45 c.i. /chamber w/35 ms delay  
NAV SYSTEM INFO DAPSCOMMENTS:\* Gun fires 33 ms after time break  
(time 0 on tapes) for all data in survey

INJECTOR AT 60 msec

AERATION AT 15 msec

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LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 67  
PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>203/July 21</u>	<u>203/July 21</u>	
TIME(Z)	<u>1211:00</u>	<u>1445:03</u>	<u>2 hr. 34 min</u>
LATITUDE	<u>40° 56.548</u>	<u>40° 52.310</u>	
LONGITUDE	<u>124° 30.786</u>	<u>124° 15.273</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>1848</u>	<u>1848</u>
TAPE #	<u>344</u>	<u><del>1848</del> 354</u>	<u>10 11</u>
WATER DEPTH	<u>490</u>	<u>52 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
 SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 13, 23, 33, 4, 14, 17, 19, 20, 21, 22, 23, 25, 26, 32, 43, 45  
 NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
 COURSE 111 SPEED (KTS) 4.9 kt  
 SHOT ON (TIME / DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
 SOURCE INFO Single 45 cu. in G.I. gun  
 NAV SYSTEM INFO DGPS

COMMENTS:

1402 GPS "jumped". (Position of ship on navigation display suddenly moved.)

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LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 68  
PROJECT \_\_\_\_\_ AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>213 / 31 July</u>	<u>213 / 31 July</u>	
TIME(Z)	<u>0918:55</u>	<u>1104:52</u>	<u>1 hr. 46 min</u>
LATITUDE	<u>40° 44.382' N</u>	<u>40° 38.057</u>	
LONGITUDE	<u>124° 25.301' W</u>	<u>124° 32.985</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>1270</u>	<u>1270</u>
TAPE #	<u>948</u>	<u>955</u>	<u>8</u>
WATER DEPTH	<u>70 m</u>	<u>Not sure ~ 500? ←</u> <u>(just based on bathymetric map)</u> <u>(looks more like ~ 750 m 3.5 kHz)</u>	
REC LENGTH (S)	<u>3</u>	SAMP INT (MSEC) <u>0.5</u>	# CHANNELS <u>48</u>
SEIS CHANS	<u>48</u>	AUX CHANS <u>0</u>	PROBLEM CHANS <u>4, 14, 17, 21, 22, 23, 25, 32, 45</u>
NEAR OFFSET (M)	<u>21</u>	FAR OFFSET (M) <u>608.5</u>	CHAN SEP (M) <u>12.5</u>
COURSE	<u>223</u>	SPEED (KTS) <u><del>5.0</del> 4.8</u>	
SHOT ON (TIME/DIST)	_____	REP RATE (S) <u>5</u>	(M) _____
SOURCE INFO	<u>Single 45 cu. in G.I. gun</u>		
NAV SYSTEM INFO	<u>DGPS</u>		

COMMENTS:

Streamer might not be fully aligned at S.O.L.  
Should be aligned by ~ 0920

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LINE INFORMATION LOG

CRUISE W960513 SHIP R/V Wecoma LINE # 69  
PROJECT \_\_\_\_\_ AREA Cel River P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>203 / <del>2003</del> July 21</u>	<u>204 / July 22</u>	
TIME(Z)	<u>2131 Z</u>	<u>00:18:47</u>	
LATITUDE	<u>40°52.972</u>	<u>40°57.406</u>	
LONGITUDE	<u>124°15.870</u>	<u>124°30.476</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>1885</u>	
TAPE #	<u>377</u>	<u>387</u>	
WATER DEPTH	<u>50 m</u>	<u>~480m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 20 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE 296 SPEED (KTS) 4.4 to start - 4.8 after tug  
SHOT ON ( TIME / DIST ) REP RATE (S) \_\_\_\_\_ (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu in GI gun  
NAV SYSTEM INFO DGPS

COMMENTS: Had to circle back & pick up line again after being diverted by barge in path.  
broke off: 22203, 40°54.280', -124°20.027'  
resumed: 22362, 40°54.223', -124°21.558'

missed a piece in the turn



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LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 69E  
PROJECT \_\_\_\_\_ AREA El River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>214/1 Aug 1996</u>	<u>214/1 Aug 1996</u>	
TIME(Z)	<u>04:57:31</u>	<u>05:54:02</u>	
LATITUDE	<u>40°58.950</u>	<u>40°57.263</u>	
LONGITUDE	<u>124°35.603</u>	<u>124°29.991</u>	
SHOTPOINT	<u>-</u>		
FILE #	<u>1</u>	<u>677</u>	<u>678</u>
TAPE #	<u>1011</u>	<u>1014</u>	<u>5</u>
WATER DEPTH	<u>650 m</u>	<u>460 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS \_\_\_\_\_ PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE 112° SPEED (KTS) 4.8  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu. in. G.I. gun  
NAV SYSTEM INFO DGPS

COMMENTS:

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 70  
PROJECT                      AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>213/31 JULY</u>	<u>213/31 JULY</u>	
TIME(Z)	<u>1128:16</u>	<u>1308:28</u>	<u>1 hr. 40 min.</u>
LATITUDE	<u>40° 38.934' N</u>	<u>40° 44.344' N</u>	
LONGITUDE	<u>124° 33.187' W</u>	<u>124° 25.234' W</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	<u>                    </u>
FILE #	<u>1</u>	<u>1200</u>	<u>1200</u>
TAPE #	<u>956</u>	<u>962</u>	<u>7</u>
WATER DEPTH	<u>776 m</u>	<u>66 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 4, 14, 17, 21, 22, 23, 25, 43  
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE 50° SPEED (KTS) 4.9  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M)                       
SOURCE INFO Single 45 ca. ca. G.I. gun  
NAV SYSTEM INFO DGPSCOMMENTS:

Streamer probably not aligned until 1130

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LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 71  
PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>203 / July 21</u>	<u>203 / July 21</u>	
TIME(Z)	<u>1825:25</u>	<u>2107</u>	
LATITUDE	<u>40° 58.218</u>	<u>40° 52.934</u>	
LONGITUDE	<u>124° 30.088</u>	<u>124° 14.170</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>1946</u>	
TAPE #	<u>366</u>	<u>376</u>	
WATER DEPTH	<u>500 m</u>	<u>50m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE 112 SPEED (KTS) 4.9  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu. in. GI gun  
NAV SYSTEM INFO DGPS

COMMENTS:

1830 Compressor got wet during a roll. Its speed fluctuated

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 73  
PROJECT \_\_\_\_\_ AREA Eel River P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>204/Sol 22</u>	<u>204/Sol 22</u>	
TIME(Z)	<u>03:55:54</u>	<u>06:35</u>	<u>2 hrs 40 min</u>
LATITUDE	<u>40° 53.367</u>	<u>40° 58.856</u>	
LONGITUDE	<u>124° 113.831</u>	<u>124° 29.751</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>1912</u>	<u>1912</u>
TAPE #	<u>400</u>	<u>410</u>	<u>10 11</u>
WATER DEPTH	<u>49 m</u>	<u>490 m</u> <u>1335</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE 296° SPEED (KTS) 4.8 Kts  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu. in. G.I. gun  
NAV SYSTEM INFO DGPS

COMMENTS:



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	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>204 / July 22</u>	<u>209 / July 22</u>	
TIME(Z)	<u>00:58:47</u>	<u>03:46:08</u>	<u>3 hrs 48 min.</u>
LATITUDE	<u>40° 59.697</u>	<u>40° 53.593</u>	
LONGITUDE	<u>124° 29.892</u>	<u>124° 113.831</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	_____	_____
TAPE #	<u>388</u>	<u>399</u>	<u>4 12</u>
WATER DEPTH	<u>~525m</u>	<u>~47m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS ~~6085~~ PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE 112° SPEED (KTS) 5.1  
SHOT ON (TIME / DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single 45 min G1 gun  
NAV SYSTEM INFO DGPS

COMMENTS:

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PROJECT                      AREA El River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>214/1 Aug. 1996</u>	<u>214/1 Aug.</u>	
TIME(Z)	<u>0710:21</u>	<u>0809:16</u>	<u>1 hr.</u>
LATITUDE	<u>40° 59.403'N</u>	<u>41° 01.475'N</u>	
LONGITUDE	<u>124° 29.14'W</u>	<u>124° 34.623'W</u>	
SHOTPOINT	<u>—</u>		
FILE #	<u>1</u>	<u>705</u>	<u>705</u>
TAPE #	<u>1015</u>	<u>1018</u>	<u>4</u>
WATER DEPTH	<u>485m</u>	<u>685m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS            PROBLEM CHANS             
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE 299 SPEED (KTS) 4.8  
SHOT ON (TIME/DIST)            REP RATE (S) 5 (M)             
SOURCE INFO Single 45 cu. in. G.I. gun  
NAV SYSTEM INFO DGPSCOMMENTS:

Streamer might not be aligned at S.O.C.

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9608B SHIP R/V Wecoma LINE # 77

PROJECT \_\_\_\_\_ AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>204 / JULY 22</u>	<u>204 / JULY 22</u>	
TIME(Z)	<u>0953:13</u>	<u>1217:33</u>	<u>2 hr. 24 min</u>
LATITUDE	<u>40° 57.734'</u>	<u>41° 00.164'</u>	
LONGITUDE	<u>124° 15.620'</u>	<u>124° 29.150</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>1730</u>	<u>1730</u>
TAPE #	<u>421</u>	<u>430</u>	<u>9 10</u>
WATER DEPTH	<u>65m</u>	<u>507m</u>	

REC LENGTH(S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
 SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 4, 14, 17, 20, 21, 22, 23(?)  
 NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
 COURSE 299 SPEED (KTS) 4.8 - 5.0 kt  
 SHOT ON (TIME/DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
 SOURCE INFO Single 45 cu. in. G.I. gun  
 NAV SYSTEM INFO DGPS

COMMENTS:

Streamer probably not aligned until 0957  
 Also, not quite on line at S.O.C.

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LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 79  
PROJECT \_\_\_\_\_ AREA Est River P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>204/July 22</u>	<u>204</u>	
TIME(Z)	<u>0715:40</u>	<u>0941</u>	<u>2 hr. 25 min.</u>
LATITUDE	<u>41° 00.559</u>	<u>40° 54.994'</u>	
LONGITUDE	<u>124° 28.902</u>	<u>124° 15.073'</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>1745</u>	<u>1745</u>
TAPE #	<u>411</u>	<u>420</u>	<u>410</u>
WATER DEPTH	<u>510 m</u>	<u>60 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
 SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 4, 14, 17, 20, 41, 22, 23, 25, 26, 32, 43, 44, 45  
 NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
 COURSE 120 SPEED (KTS) 4.8 kt - 5 kt  
 SHOT ON (TIME/DIST) \_\_\_\_\_ REP RATE (S) 5 (M) \_\_\_\_\_  
 SOURCE INFO Single 45 cu. in G.I. gun  
 NAV SYSTEM INFO DGPS

COMMENTS:

Streamer might not have been properly aligned until  
~ 0719.

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PROJECT \_\_\_\_\_ AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>204 / July 22</u>	<u>204 / July 22</u>	
TIME(Z)	<u>1823:45</u>	<u>2149</u>	
LATITUDE	<u>40° 55.471'</u>	<u>41° 03.101'</u>	
LONGITUDE	<u>124° 14.855'</u>	<u>124° 33.871'</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>2463</u>	
TAPE #	<u>446</u>	<u>459</u>	
WATER DEPTH	<u>58 m</u>	<u>735 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE \_\_\_\_\_ SPEED (KTS) \_\_\_\_\_  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu.in. G.I. air gun  
NAV SYSTEM INFO DGPSCOMMENTS:

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 83  
PROJECT \_\_\_\_\_ AREA Elk River Basin P.I. Mountain/Fulthorpe/Austin

	START	END	TOTAL
DATE(JD/DATE)	<u>204/JULY 22</u>	<u>204/JULY 22</u>	
TIME(Z)	<u>1436:55</u>	<u>1811:34</u>	<u>3 hr. 35 min</u>
LATITUDE	<u>41° 03.851</u>	<u>40° 55.702'</u>	
LONGITUDE	<u>124° 34.638</u>	<u>124° 14.300'</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>2573</u>	_____
TAPE #	<u>431</u>	<u>445</u>	<u>15</u>
WATER DEPTH	<u>~800 m.</u>	<u>55 m</u>	_____

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 4, 14, 17, 20, 21, 22, 23, 25, 26, 32, 44, 45, 46  
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE 118 SPEED (KTS) \_\_\_\_\_  
SHOT ON (TIME/DIST) \_\_\_\_\_ REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cm. in. G.I. gun  
NAV SYSTEM INFO DGPS

COMMENTS:

1526 Windlass operating. Could create noise.  
1538 Windlass work ended.  
Speed at 5.1 - 5.2 kt. for some time  
- back to 4.8 kt by 1728. Bridge had difficulty  
keeping speed down.

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LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 85  
PROJECT \_\_\_\_\_ AREA El River P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>205/July 23</u>	<u>205/July 23</u>	
TIME(Z)	<u>01:49:06</u>	<u>04:20:25</u>	<u>3 hrs 9 min.</u>
LATITUDE	<u>40° 56.090</u>	<u>41° 01.785</u>	
LONGITUDE	<u>124° 14.119</u>	<u>124° 28.525</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>1815</u>	<u>1815</u>
TAPE #	<u><del>474</del> 474</u>	<u>483</u>	<u>9</u>
WATER DEPTH	<u>~52m</u>	<u>~555m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE 292° SPEED (KTS) 4.7 kts  
SHOT ON (TIME / DIST) \_\_\_\_\_ REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu. in. G1 air gun  
NAV SYSTEM INFO DGPS

COMMENTS:

tape not changed - 0234-0238 z  
between tape 476 + 477  
missed shots 542-591

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LINE INFORMATION LOG

CRUISE W960513 SHIP R/V Wecoma LINE # 87  
PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>204/Jul 22</u>	<u>205/Jul 23</u>	
TIME(Z)	<u>2217:35</u>	<u>01:38:30</u>	
LATITUDE	<u>41° 03.966'</u>	<u>40° 56.369'</u>	
LONGITUDE	<u>124° 32.565'</u>	<u>124° 13.628'</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>2409</u>	
TAPE #	<u>460</u>	<u>473</u>	
WATER DEPTH		<u>~ 50m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE \_\_\_\_\_ SPEED (KTS) 4.8 kts  
SHOT ON ( TIME / DIST ) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cc in G.I. Air Gun  
NAV SYSTEM INFO DGPS

COMMENTS:



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PROJECT \_\_\_\_\_ AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>208/28 July</u>	<u>208/28 July</u>	
TIME(Z)	<u>2050:44</u>	<u>2306:07</u>	
LATITUDE	<u>40° 57.653</u>	<u>41° 02.726</u>	
LONGITUDE	<u>124° 15.547</u>	<u>124° 20.240</u>	
SHOTPOINT			
FILE #	<u>1</u>	<u>1352</u>	<u>1352</u>
TAPE #	<u>670</u>	<u>677</u>	<u>8</u>
WATER DEPTH	<u>72 m</u>	<u>555m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 296° SPEED (KTS) 4.8 kts  
SHOT ON (TIME/DIST) REP RATE (S) 6 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu.in. G.I. gun  
NAV SYSTEM INFO DGPS CECO STREAMERCOMMENTS:

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LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 91

PROJECT                      AREA El River P.I. Mountain/Fulthorpe/Austin

OYO Failure → Start line at 0530 position

	START	END	TOTAL
DATE(JD/DATE)	205 / July 23	205 / July 23	
TIME(Z)	04:42:41 to 0557	09:17:32 09:13:39	1:15+ Total 1:40 2 hr. 55 min (shooting)
LATITUDE	41° 03.141	41° 01.339	41° 57.431
LONGITUDE	124° 28.177	124° 23.439	124° 14.001
SHOTPOINT	7		
FILE #	1	1001 2196	
TAPE #	484 to 488	489 495	12
WATER DEPTH	~56.5 m	50m	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48

SEIS CHANS 48 AUX CHANS 6 PROBLEM CHANS                     

NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5

COURSE 117° SPEED (KTS) 4.8 Kts

SHOT ON (TIME/DIST) REP RATE (S) 5 (M)                     

SOURCE INFO Single 45 cu. in. G.I. gun

NAV SYSTEM INFO DGPS

COMMENTS:

OYO went down. Last good shot was end of tape 488 at 0557.  
Circling back to re-shoot line from ~0530 position.  
this is lat line shot w/ IT1 streamer until  
JD 212/8428 Z

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LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 93  
PROJECT                      AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>209/July 27</u>	<u>209/July 27</u>	
TIME(Z)	<u>03:00</u>	<u>06:42:31</u>	<u>3 hrs 42 min</u>
LATITUDE	<u>40°58.264</u>	<u>41°05.341</u>	
LONGITUDE	<u>124°15.082</u>	<u>124°32.393</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	<u>                    </u>
FILE #	<u>1</u>	<u>1842 (-5 missed)</u>	<u>1838</u>
TAPE #	<u>687</u>	<u>697</u>	<u>11</u>
WATER DEPTH	<u>64m</u>	<u>790m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS Ø PROBLEM CHANS                       
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 360° SPEED (KTS) 4.9 kts  
SHOT ON (TIME/DIST) REP RATE (S) 6 (M) —  
SOURCE INFO Single 45mm Bl air gun.  
NAV SYSTEM INFO DBPS.

COMMENTS: Suspended recording at shot 360 (0335) to avoid a fishing boat. Turned at resumed recording at shot 367 (0414). Line overlap ends at shot 413.

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PROJECT \_\_\_\_\_ AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>209/27 July</u>	<u>209/27 July</u>	
TIME(Z)	<u>00:05:15</u>	<u>02:46</u>	<u>2 hrs 41 min</u>
LATITUDE	<u>41° 04.842</u>	<u>40° 58.423 *</u>	
LONGITUDE	<u>124° 30.009</u>	<u>124° 14.453 *</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>1620</u>	<u>1621</u>
TAPE #	<u>678</u>	<u>686</u>	<u>9</u>
WATER DEPTH	<u>770 m</u>	<u>65m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_  
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 119 SPEED (KTS) 4.8 kts  
SHOT ON (TIME / DIST) REP RATE (S) 6 (M) \_\_\_\_\_  
SOURCE INFO SINGLE 45 cm GI AIR GUN  
NAV SYSTEM INFO DGPSCOMMENTS:

\* Position at 02:48.

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	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>209 July 27</u>	<u>209 July 27</u>	
TIME(Z)	<u>1017:33</u>	<u>1309:28</u>	<u>2hr 52 min</u>
LATITUDE	<u>41° 00.346' N</u>	<u>41° 07.057' N</u>	
LONGITUDE	<u>124° 17.667' W</u>	<u>24° 33.854' W</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>1717</u>	<u>1717</u>
TAPE #	<u>707</u>	<u>716</u>	<u>10</u>
WATER DEPTH	<u>90 m</u>	<u>970</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS \_\_\_\_\_NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15COURSE 300 SPEED (KTS) \_\_\_\_\_SHOT ON (TIME/DIST) REP RATE (S) 6 (M) \_\_\_\_\_SOURCE INFO Single 45 cu. in G.I. gunNAV SYSTEM INFO DGPSCOMMENTS:

1200-1245

TRANSAS navigation system down. May have wandered from line, but probably not by much.

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PROJECT                      AREA Eel River P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>209/July 27</u>	<u>209/July 27</u>	
TIME(Z)	<u>0721:23</u>	<u>1002:24</u>	
LATITUDE	<u>41° 06.527'</u>	<u>41° 00.414' N</u>	
LONGITUDE	<u>124° 31.348'</u>	<u>124° 16.518' W</u>	
SHOTPOINT	<u>—</u>		
FILE #	<u>1</u>	<u>1610</u>	<u>1610</u>
TAPE #	<u>698</u> <u>820</u>	<u>706</u>	<u>9</u>
WATER DEPTH	<u><del>875</del> m</u>	<u>78 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS             
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE ~~119°~~ 119° SPEED (KTS) 4.9 kt.  
SHOT ON (TIME/DIST)            REP RATE (S) 6 (M)             
SOURCE INFO Single 45 co. in. G.I. gun  
NAV SYSTEM INFO DGPSCOMMENTS:Streamer probably not aligned at S.O.L. Speed 4.4 kt  
at S.O.L. Increasing speed.Turned early at E.O.L. to comply with  
Captain's night instructions.

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 103  
PROJECT                      AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>212/30 July</u>	<u>212/30 July</u>	
TIME(Z)	<u>1055:54</u>	<u>1247:34</u>	<u>1 hr. 52 min</u>
LATITUDE	<u>41° 01.091' N</u>	<u>41° 05.404' N</u>	
LONGITUDE	<u>124° 16.858' W</u>	<u>124° 27.353' W</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	<u>                    </u>
FILE #	<u>1</u>	<u>1340</u>	<u>1340</u>
TAPE #	<u>868</u>	<u>875</u>	<u>8</u>
WATER DEPTH	<u>84 m</u>	<u>592 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS                       
NEAR OFFSET (M) 21 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5  
COURSE ~~298~~ 298° SPEED (KTS) ~~5.6~~ 6.6  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M)                       
SOURCE INFO Single 45 cu in. G.I. gun  
NAV SYSTEM INFO DGPSCOMMENTS:ITI Streamer.  
Streamer may not be aligned at S.O.L

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 103  
PROJECT \_\_\_\_\_ AREA Eel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>212 / July 30</u>	<u>212 / JULY 30</u>	
TIME(Z)	<u>1300:50</u>	<u>1500:33</u>	<u>2 hrs</u>
LATITUDE	<u>41° 05.662' N</u>	<u>41° 00.972' N</u>	
LONGITUDE	<u>124° 26.766' W</u>	<u>124° 15.408' W</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>1436</u>	<u>1436</u>
TAPE #	<u>876</u>	<u><del>882</del> 883</u>	<u>8</u>
WATER DEPTH	<u>565 <del>m</del></u>	<u>66 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 4, 14, 17, 20, 21, 22, 25, 45  
NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
COURSE ~~118~~ 118 SPEED (KTS) 4.8 kt  
SHOT ON (TIME/DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single 45 cu. in G.I. gun  
NAV SYSTEM INFO DGPSCOMMENTS:ITI streamer  
Streamer not aligned at S.O.L.

A.S.



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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 105  
PROJECT                      AREA                      P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>211 / 29 JULY</u>	<u>211 / 29 JULY</u>	
TIME(Z)	<u>1001:38</u>	<u>End of useful data * same time before 1024</u>	
LATITUDE	<u>41° 01.828' N</u>	<u>41° 02.718' N</u>	} Position at 1024
LONGITUDE	<u>124° 16.236' W</u>	<u>124° 18.422' W</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	
FILE #	<u>1</u>	<u>N360 ← at 1037</u>	(when tape ended, much of record will be noise.)
TAPE #	<u>844</u>	<u>845</u>	
WATER DEPTH	<u>77 m</u>	<u>                    </u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS                       
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE                      SPEED (KTS)                       
SHOT ON (TIME/DIST)                      REP RATE (S) 6 (M)                       
SOURCE INFO Single 45 cu.in. G.I. gun  
NAV SYSTEM INFO DGPS

COMMENTS:

Not quite on line at S.O.L.  
approaching line at a shallow angle. Streamer  
not quite aligned. Probably settled down on  
line by 1006

\* 1024 Noticed problem - noise on OTO display -  
not sure when began. Will have to  
reshoot this line.

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PROJECT \_\_\_\_\_ AREA \_\_\_\_\_ P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>212 / 30 July</u>	<u>212 / 30 July</u>	
TIME(Z)	<u>04:28:42</u>	<u>0714: <del>16</del> 16</u>	<u>2hr. 46 min.</u>
LATITUDE	<u>41° 01.849</u>	<u>41° 08.301' N</u>	
LONGITUDE	<u>124° 16.337</u>	<u>124° 31.890' W</u>	
SHOTPOINT	_____	_____	_____
FILE #	<u>1</u>	<u>1980</u>	<u>1980</u>
TAPE #	<u>846</u>	<u>856</u>	<u>11</u>
WATER DEPTH	<u>78m</u>	<u>960 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
4, 14, 17, 20, 21, 23,  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 32, 44, 46  
21 608.5  
NEAR OFFSET (M) ~~21~~ FAR OFFSET (M) ~~130m~~ CHAN SEP (M) ~~12.5~~  
COURSE 299° SPEED (KTS) 5.0  
SHOT ON (TIME / DIST) REP RATE (S) 5 (M) \_\_\_\_\_  
SOURCE INFO Single 45 ca. in. G.I. gun  
NAV SYSTEM INFO DGPSCOMMENTS: Resume IT1 streamer

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # ~~W96~~ 107  
PROJECT                      AREA Gel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>211/29 July</u>	<u>211/29 July</u>	
TIME(Z)	<u>0800:07</u>	<u>0952:08</u>	
LATITUDE	<u>41° 06.391' N</u>	<u>41° 02.072' N</u>	
LONGITUDE	<u>124° 26.147' W</u>	<u>124° 15.735' W</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	
FILE #	<u>1</u>	<u>1119</u>	<u>1119</u>
TAPE #	<u>837</u>	<u>843</u>	<u>7</u>
WATER DEPTH	<u>555 m</u>	<u>70 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS                       
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 117 SPEED (KTS) 4.8  
SHOT ON (TIME/DIST) REP RATE (S) 6 (M)                       
SOURCE INFO Single 45 cu. in. GI gun  
NAV SYSTEM INFO DGPSCOMMENTS:Streamer aligned with ship at S.O.L., but ship  
not yet on course at S.O.L.

No noise plot available at E.O.L.

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R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 109  
PROJECT                      AREA                      P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>200 / 18 July</u>	<u>200 / 18 July</u>	
TIME(Z)	<u>1352</u>	<u>1600 (v. approx.)</u>	
LATITUDE	<u>41° 06.778</u>	<u>Veered off line</u>	
LONGITUDE	<u>124° 25.864</u>	<u>to avoid crab pots</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	<u>                    </u>
FILE #	<u>1</u>	<u>                    </u>	<u>                    </u>
TAPE #	<u>127</u>	<u>                    </u>	<u>                    </u>
WATER DEPTH	<u>563</u>	<u>                    </u>	<u>                    </u>

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 43  
NEAR OFFSET (M) 22 FAR OFFSET (M) 609.5 CHAN SEP (M) 12.5  
COURSE 124 SPEED (KTS) 5.6 at start - slowing to 4.8 kt.  
SHOT ON (TIME / DIST) REP RATE (S) 5 (M)                       
SOURCE INFO 45 cu. in. GI air gun  
NAV SYSTEM INFO DGPSCOMMENTS:

Deviated from line to port 1505, ~150 m  
Back on line 1516  
Deviating from line <sup>to port</sup> 1532 - 1539, Max. deviation  
Deviated from line to starboard. 1542 ~100 m  
Continued deviations to avoid crab pots.

Had to veer off because of  
crab pots. Veered S onto line 14.

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R/V WECOMA JULY 1996

LINE INFORMATION LOG

CRUISE W9605B SHIP R/V Wecoma LINE # 111  
PROJECT                      AREA Fel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>212 / 30 July</u>	<u>212 / 30 July</u>	
TIME(Z)	<u>0740:55</u>	<u>1019:00</u>	<u>2hrs. 39 min.</u>
LATITUDE	<u>41° 09.223' N</u>	<u>41° 03.127</u>	
LONGITUDE	<u>124° 30.714' W</u>	<u>124° 15.906</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	<u>                    </u>
FILE #	<u>1</u>	<u>1896</u>	<u>1896</u>
TAPE #	<u>857</u>	<u>867</u>	<u>11</u>
WATER DEPTH	<u>900 m</u>	<u>75 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
4, 14, 17, 20, 21, 23, 25,  
 SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS 45  
 NEAR OFFSET (M) 21 FAR OFFSET (M) 608.5 CHAN SEP (M) 12.5  
 COURSE N ~~118°~~ 118° SPEED (KTS) (Low - 4.5 kt at E.O.L.)  
 SHOT ON (TIME/DIST)                      REP RATE (S) 5 (M)                       
 SOURCE INFO Single 45 cu.in. G.I. gun  
 NAV SYSTEM INFO DGPS

COMMENTS: I.T.I. Streamer (no bird 4)

Streamer not aligned at S.O.L.

20745-0800 Deviating from line a little to avoid fishing boat. Max deviation (to left) is 80 m

1017 Speed only 4.5 kt. and haven't checked it for some time.

THE UNIVERSITY OF TEXAS  
INSTITUTE FOR GEOPHYSICS  
R/V WECOMA JULY 1996LINE INFORMATION LOGCRUISE W9605B SHIP R/V Wecoma LINE # 113  
PROJECT                      AREA Fel River Basin P.I. Mountain/Fulthorpe/Austin

	<u>START</u>	<u>END</u>	<u>TOTAL</u>
DATE(JD/DATE)	<u>209 / July 27</u>	<u>209 / July 27</u>	
TIME(Z)	<u>1340:42</u>	<u>1806:59</u>	<u>4 hr. 26 min</u>
LATITUDE	<u>41° 06.930' N</u>	<u>40° 49.853' N</u>	
LONGITUDE	<u>124° 33.353' W</u>	<u>124° 15.574' W</u>	
SHOTPOINT	<u>                    </u>	<u>                    </u>	<u>                    </u>
FILE #	<u>1</u>	<u>2659</u>	<u>2659</u>
TAPE #	<u>717</u>	<u>731</u>	<u>15</u>
WATER DEPTH	<u>940 m</u>	<u>45 m</u>	

REC LENGTH (S) 3 SAMP INT (MSEC) 0.5 # CHANNELS 48  
SEIS CHANS 48 AUX CHANS 0 PROBLEM CHANS                       
NEAR OFFSET (M) 31.5 FAR OFFSET (M) 736.5 CHAN SEP (M) 15  
COURSE 142° SPEED (KTS) 4.9 kt.  
SHOT ON (TIME / DIST) REP RATE (S) 6 (M)                       
SOURCE INFO Single 45 cu.in. G.I. air gun  
NAV SYSTEM INFO DGPSCOMMENTS: