

Line : BA2-04417
 Project : 058-00-018
 Party : Western Inlet
 Survey : 2D Acquisition - Offshore Brazil

Sequence # 49



Western Geophysical

Field Tape Recording Summary Report

Field Reel summary for recording system 7

Reel #	Shot to Shot	File to	File	Volser	Valid?	Catalog Dataset Name
4548	10482 10590	32	50	W04548	Y	AT\$.P58.WGCMULTI.AMAZONBA.LA204417.F0070324
4549	10596 14790	51	750	W04549	Y	AT\$.P58.WGCMULTI.AMAZONBA.LA204417.F0070325
4550	14796 18990	751	1450	W04550	Y	AT\$.P58.WGCMULTI.AMAZONBA.LA204417.F0070326
4551	18996 23190	1451	2150	W05451	Y	AT\$.P58.WGCMULTI.AMAZONBA.LA204417.F0070327
4552	23196 27390	2151	2850	W04552	Y	AT\$.P58.WGCMULTI.AMAZONBA.LA204417.F0070328
4553	27396 29130	2851	3140	W04553	Y	AT\$.P58.WGCMULTI.AMAZONBA.LA204417.F0070329

Field Tape Recording Detail Report

Field Reel Details for Recording system : 7

Reel #	Volser	Valid	Shotpoint	File	FSID	Date
4548	W04548	Y	Start 10482	32	30724717	09:53:20 NOV 02 2000
			End 10590	50	30724735	09:57:41 NOV 02 2000
			Deck 1	Files 19	Shipment 2	Box 1
					Copy 1	Protected YES
						Seq. # 324
			Comments BOL, EEOR d/t primary correction errors			
Reel #	Volser	Valid	Shotpoint	File	FSID	Date
4549	W04549	Y	Start 10596	51	30724736	09:57:55 NOV 02 2000
			End 14790	750	30725435	13:00:03 NOV 02 2000
			Deck 2	Files 700	Shipment 2	Box 1
					Copy 1	Protected YES
						Seq. # 325
			Comments			
Reel #	Volser	Valid	Shotpoint	File	FSID	Date
4550	W04550	Y	Start 14796	751	30725436	13:00:18 NOV 02 2000
			End 18990	1450	30726135	15:54:17 NOV 02 2000
			Deck 0	Files 700	Shipment 2	Box 1
					Copy 1	Protected YES
						Seq. # 326
			Comments			
Reel #	Volser	Valid	Shotpoint	File	FSID	Date
4551	W05451	Y	Start 18996	1451	30726136	15:54:34 NOV 02 2000
			End 23190	2150	30726835	19:26:14 NOV 02 2000
			Deck 1	Files 700	Shipment 2	Box 1
					Copy 1	Protected YES
						Seq. # 327
			Comments			

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Field Tape Recording Detail Report

Field Reel Details for Recording system : 7

<i>Reel #</i>	<i>Volser</i>	<i>Valid</i>	<i>Shotpoint</i>	<i>File</i>	<i>FSID</i>	<i>Date</i>			
4552	W04552	Y	<i>Start</i>	23196	2151	30726836 19:26:32 NOV 02 2000			
			<i>End</i>	27390	2850	30727535 22:56:53 NOV 02 2000			
			<i>Deck</i>	<i>Files</i>	<i>Shipment</i>	<i>Box</i>	<i>Copy</i>	<i>Protected</i>	<i>Seq. #</i>
			2	700	2	1	1	YES	328
			<i>Comments</i>						

<i>Reel #</i>	<i>Volser</i>	<i>Valid</i>	<i>Shotpoint</i>	<i>File</i>	<i>FSID</i>	<i>Date</i>			
4553	W04553	Y	<i>Start</i>	27396	2851	30727536 22:57:10 NOV 02 2000			
			<i>End</i>	29130	3140	30800064 00:17:21 NOV 03 2000			
			<i>Deck</i>	<i>Files</i>	<i>Shipment</i>	<i>Box</i>	<i>Copy</i>	<i>Protected</i>	<i>Seq. #</i>
			0	290	2	1	1	YES	329
			<i>Comments</i> Sp 28746 LSP of JD 307,EOL						

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Line Event Log

Shot	File	Fsid	Date	Message
10482	0	30724717	0 000 00 : 00 : 00	New P2 Headers received. Daily tests and preline pops recorded on reel W04547
10482	1	30724717	0 000 00 : 00 : 00	BOL T-11 Crossfeed Analysis Odds
10482	2	30724717	0 000 00 : 00 : 00	BOL T-12 Crossfeed Analysis Evens
10482	3	30724717	0 000 00 : 00 : 00	BOL T-2 Harmonic Distortion Analysis @ 0db
10482	4	30724717	0 000 00 : 00 : 00	BOL T-2 Harmonic Distortion Analysis @ -80db
10482	5	30724717	0 000 00 : 00 : 00	BOL T-4 Dynamic Range Determination Analysis
10482	6	30724717	0 000 00 : 00 : 00	BOL T-13 Pattern Analysis All Zeros
10482	7	30724717	0 000 00 : 00 : 00	BOL T-13 Pattern Analysis All Ones
10482	8	30724717	0 000 00 : 00 : 00	BOL T-7 Impulse Response Analysis
10482	9	30724717	0 000 00 : 00 : 00	BOL T-0 Cable Noise Analysis
10482	10	30724717	0 000 00 : 00 : 00	Files 10 – 20 are preline pops
10482	21	30724717	0 000 00 : 00 : 00	BOL T-7 Impulse Response Analysis retaken d/t bend in cable
10482	22	30724717	0 000 00 : 00 : 00	BOL T-0 Cable Noise Analysis retaken d/t bend in cable 6.7uB
10482	32	30724717	2000 307 09 : 53 : 20	New Reel: VOLSER: W04548 BOL F/A: -15.9 W/D: 85.5m BOL First production shot reel W04547 deck 0 BOL Gun volume 4500ci. No guns disabled. BOL Winds: E @ 10kts Seas: 4-5 ft. Bad Cable DI's: 9, 22 Bad Traces: Low amp: 70, 71, 81, 105, 111; Noisy: 441, 480; Xfd: 273 Birds 23, 24 have intermittent comms. Random sea noise breakout on the cable from BOL to EOL - SP 22020 GS#5 GPS (G1R5) out NAV BOL FA: -15.9 WD: 86.4 PDOP: 2.0 HDOP: 1.3 HMP: 13.3 VEL: 1541.9 NAV BOL HDG: 42.4 NORTHING: 312497.5 EASTING: 72219.4 NAV BOL EQUIP S1C24 Intermittent.
10590	50	30724735	2000 307 09 : 57 : 41	Forced EEOR d/t excessive primary correction errors.
10596	51	30724736	2000 307 09 : 57 : 55	New Reel: VOLSER: W04549 F/A: -16.7 W/D: 85.8m
			2000 307 09 : 59 : 36	NSP; BOR;
11064	129	30724814	2000 307 10 : 16 : 32	- SP 12546 G1R2 Out.
11082	132	30724817	2000 307 10 : 17 : 15	F/A: -16.7 W/D: 85.5m
11322	172	30724857	2000 307 10 : 26 : 55	F/A: -19.9 W/D: 85.3m
11562	212	30724897	2000 307 10 : 36 : 42	F/A: -17.3 W/D: 82.5m
11802	252	30724937	2000 307 10 : 46 : 44	F/A: -17.6 W/D: 81.8m
12042	292	30724977	2000 307 10 : 56 : 37	F/A: -17.8 W/D: 80.0m
12282	332	30725017	2000 307 11 : 06 : 32	F/A: -17.5 W/D: 79.8m
12522	372	30725057	2000 307 11 : 16 : 27	F/A: -16.7 W/D: 81.5m
12762	412	30725097	2000 307 11 : 26 : 31	F/A: -16.1 W/D: 81.8m
13002	452	30725137	2000 307 11 : 36 : 46	F/A: -15.9 W/D: 85.0m
13242	492	30725177	2000 307 11 : 46 : 56	F/A: -16.2 W/D: 86.5m
13482	532	30725217	2000 307 11 : 58 : 29	F/A: -16.8 W/D: 89.0m
13722	572	30725257	2000 307 12 : 10 : 23	F/A: -16.5 W/D: 90.0m

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Shot	File	Fsid	Date	Message
13962	612	30725297	2000 307 12 : 22 : 17	F/A: -16.5 W/D: 89.8m
14202	652	30725337	2000 307 12 : 33 : 59	F/A: -16.8 W/D: 88.5m
14442	692	30725377	2000 307 12 : 45 : 22	F/A: -16.8 W/D: 82.8m
14682	732	30725417	2000 307 12 : 55 : 29	F/A: -16.3 W/D: 82.5m
14790	750	30725435	2000 307 13 : 00 : 03	EOR W04549 Deck 02
14796	751	30725436	2000 307 13 : 00 : 18	New Reel: VOLSER: W04550
			2000 307 13 : 02 : 00	NSP; BOR;
14922	772	30725457	2000 307 13 : 05 : 30	F/A: -16.0 W/D: 82.5m
15162	812	30725497	2000 307 13 : 15 : 35	F/A: -15.2 W/D: 82.5m
15210	820	30725505	2000 307 13 : 17 : 35	Src: 1 Gun 201 : Autofired! Src: 1 Gun 202 : Sync error: 1.1
15216	821	30725506	2000 307 13 : 17 : 50	Src: 1 Gun 201 : Misfired!
15222	822	30725507	2000 307 13 : 18 : 05	Src: 1 Gun 201 : Misfired!
15228	823	30725508	2000 307 13 : 18 : 20	Src: 1 Gun: 201 Disabled. array volume 4200 Src: 1 Gun: 202 Disabled. array volume 4200
15402	852	30725537	2000 307 13 : 25 : 43	Autofire on this shot. F/A: -14.9 W/D: 81.00m
15456	861	30725546	2000 307 13 : 28 : 01	Sp's 15204 to 15456 are significant edits d/t autofire on gun 201, to be reshot at later date.
15642	892	30725577	2000 307 13 : 35 : 57	F/A: -14.8 W/D: 79.8m
15864	929	30725614	2000 307 13 : 45 : 18	- SP 16092 V1G4 Starfix out due to Marisat usage.
15882	932	30725617	2000 307 13 : 46 : 02	F/A: -14.5 W/D: 86.0m
16122	972	30725657	2000 307 13 : 55 : 50	F/A: -14.3 W/D: 90.0m
16362	1012	30725697	2000 307 14 : 05 : 31	F/A: -14.3 W/D: 94.8m
16602	1052	30725737	2000 307 14 : 15 : 18	F/A: -14.3 W/D: 99.00m
16842	1092	30725777	2000 307 14 : 25 : 07	F/A: -14.5 W/D: 101.00m
17028	1123	30725808	2000 307 14 : 32 : 43	Src: 1 Gun 407 : Sync error: -1.1
17082	1132	30725817	2000 307 14 : 34 : 54	F/A: -14.8 W/D: 104.00m
17322	1172	30725857	2000 307 14 : 44 : 41	F/A: -15.5 W/D: 106.8m
17562	1212	30725897	2000 307 14 : 54 : 31	F/A: -16.1 W/D: 110.8m
17802	1252	30725937	2000 307 15 : 04 : 17	F/A: -16.4 W/D: 113.2m
18042	1292	30725977	2000 307 15 : 14 : 12	F/A: -16.6 W/D: 119.5m
18282	1332	30726017	2000 307 15 : 24 : 03	F/A: -16.5 W/D: 134.0m
18522	1372	30726057	2000 307 15 : 33 : 58	F/A: -16.8 W/D: 212.5m
18600	1385	30726070	2000 307 15 : 37 : 17	Vessel moving offline d/t current change.
18762	1412	30726097	2000 307 15 : 44 : 03	F/A: -17.7 W/D: 425.8m
18882	1432	30726117	2000 307 15 : 49 : 11	30.7m offline max. d/t current.
18990	1450	30726135	2000 307 15 : 54 : 17	EOR W04550 ; deck 00
18996	1451	30726136	2000 307 15 : 54 : 34	New Reel: VOLSER: W05451
			2000 307 15 : 56 : 16	NSP; BOR;
19002	1452	30726137	2000 307 15 : 54 : 51	F/A: -18.9 W/D: 343.3m Sps 19002 – 20202 Noise breakouts at the head, moving down the cable d/t currents.
19242	1492	30726177	2000 307 16 : 06 : 07	F/A: -21 W/D: 431.3m
19482	1532	30726217	2000 307 16 : 17 : 40	F/A: -23.6 W/D: 473.0 m
19722	1572	30726257	2000 307 16 : 29 : 10	F/A: -28.2 W/D: 500.5 m

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Shot	File	Fsid	Date	Message
19782	1582	30726267	2000 307 16 : 32 : 05	F/A above 30 degs. F/A > 30
19962	1612	30726297	2000 307 16 : 40 : 55	F/A: -36.0 W/D: 597.0 m
20022	1622	30726307	2000 307 16 : 43 : 52	Vessel back on line , Max offline 30.7m at Sp 188882.
20202	1652	30726337	2000 307 16 : 52 : 45	F/A: -39.5 W/D: 612.5 m
20304	1669	30726354	2000 307 16 : 57 : 46	F/A above 40 degs. F/A > 40
20442	1692	30726377	2000 307 17 : 04 : 31	F/A: -40.6 W/D: 626.5 m
20682	1732	30726417	2000 307 17 : 16 : 34	F/A: -41.1 W/D: 640.0 m
20922	1772	30726457	2000 307 17 : 28 : 35	F/A: -41.4 W/D: 674.5 m
21162	1812	30726497	2000 307 17 : 40 : 41	F/A: -41.7 W/D: 662.3 m
21402	1852	30726537	2000 307 17 : 52 : 56	F/A: -41.5 W/D: 665.3 m
21642	1892	30726577	2000 307 18 : 05 : 27	F/A: -42.4 W/D: 469.8 m
21882	1932	30726617	2000 307 18 : 18 : 01	F/A: -42.7 W/D: 295.3 m
21942	1942	30726627	2000 307 18 : 21 : 09	- SP 22020 V1G4 Starfix out d/t Marisat usage.
21960	1945	30726630	2000 307 18 : 22 : 06	- SP 21984 G1R2 Out.
22122	1972	30726657	2000 307 18 : 30 : 45	F/A: -43.0 W/D: 504.2m
22362	2012	30726697	2000 307 18 : 43 : 25	F/A: -42.9 W/D: 285.2m
22602	2052	30726737	2000 307 18 : 55 : 57	F/A: -43.0 W/D: 238.0m
22842	2092	30726777	2000 307 19 : 08 : 18	F/A: -42.9 W/D: 285.5m
22998	2118	30726803	2000 307 19 : 16 : 21	- SP 23208 G1L1 Out d/t sun reflection.
23082	2132	30726817	2000 307 19 : 20 : 41	F/A: -43.2 W/D: 315.0m
23190	2150	30726835	2000 307 19 : 26 : 14	EOR W04551 ; deck 01
23196	2151	30726836	2000 307 19 : 26 : 32	New Reel: VOLSER: W04552
			2000 307 19 : 28 : 14	NSP; BOR;
23322	2172	30726857	2000 307 19 : 32 : 53	F/A: -43.1 W/D: 343.0m
23562	2212	30726897	2000 307 19 : 45 : 15	F/A: -42.8 W/D: 350.8m
			- SP 24060	G1L1 Intermittent d/t sun reflection.
23688	2233	30726918	2000 307 19 : 51 : 40	Src: 1 Gun 407 : Sync error: -1.1
23802	2252	30726937	2000 307 19 : 57 : 38	F/A: -42.7 W/D: 376.2m
24042	2292	30726977	2000 307 20 : 09 : 57	F/A: -42.4 W/D: 390.2m
24282	2332	30727017	2000 307 20 : 22 : 21	F/A: -41.9 W/D: 409.8 m
24522	2372	30727057	2000 307 20 : 34 : 33	F/A: -41.1 W/D: 417.8m
24762	2412	30727097	2000 307 20 : 46 : 54	F/A: -40.4 W/D: 429.8m
24900	2435	30727120	2000 307 20 : 53 : 54	F/A below 40 degs. F/A < 40
25002	2452	30727137	2000 307 20 : 59 : 05	F/A: -39.6 W/D: 437.5m
25242	2492	30727177	2000 307 21 : 11 : 23	F/A: -38.6 W/D: 454.8m
25482	2532	30727217	2000 307 21 : 23 : 24	F/A: -37.5 W/D: 475.3m
25722	2572	30727257	2000 307 21 : 35 : 30	F/A: -36.4 W/D: 472.3m
25962	2612	30727297	2000 307 21 : 47 : 33	F/A: -35.5 W/D: 504.3m
26202	2652	30727337	2000 307 21 : 59 : 19	F/A: -35.0 W/D: 535.0m
26442	2692	30727377	2000 307 22 : 11 : 10	F/A: -34.5 W/D: 564.3m
26682	2732	30727417	2000 307 22 : 22 : 52	F/A: -33.9 W/D: 613.0m
26922	2772	30727457	2000 307 22 : 34 : 31	F/A: -33.5 W/D: 691.8m

Line : BA2-04417
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Shot	File	Fsid	Date	Message
27162	2812	30727497	2000 307 22 : 46 : 01	F/A: -33.0 W/D: 1028.0m
27390	2850	30727535	2000 307 22 : 56 : 53	EOR W04552 ; deck02
27396	2851	30727536	2000 307 22 : 57 : 10	New Reel: VOLSER: W04553
			2000 307 22 : 58 : 52	NSP; BOR;
27402	2852	30727537	2000 307 22 : 57 : 27	F/A: -32.7 W/D: 1067.8m
27642	2892	30727577	2000 307 23 : 08 : 46	F/A: -32.5 W/D: 1175.0m
27882	2932	30727617	2000 307 23 : 19 : 58	F/A: -32.3 W/D: 1196.8m
28122	2972	30727657	2000 307 23 : 31 : 08	F/A: -32.1 W/D: 1172.0m
28362	3012	30727697	2000 307 23 : 42 : 16	F/A: -32.1 W/D: 1076.3m
28602	3052	30727737	2000 307 23 : 53 : 21	F/A: -32.1 W/D: 989.5m
28746	3076	30727761	2000 307 23 : 59 : 57	LSP of JD 307
28752	0	30800001	2000 308 00 : 00 : 14	V 1 – Invalid FSID increment 30727761 and 30800001
28752	3077	30800001	2000 308 00 : 00 : 14	sysID 7 UHDR: Invalid FSID increment – 30727761 and 30800001
			2000 308 00 : 01 : 56	NSP; NFSID;
28842	3092	30800016	2000 308 00 : 04 : 19	F/A: -31.9 W/D: 813.3m
28950	3110	30800034	2000 308 00 : 09 : 14	F/A: -31.9 W/D: 797.8m
29130	3140	30800064	2000 308 00 : 17 : 21	NAV EOL F/A: -31.7 W/D: 824.5 PDOP: 1.2 HDOP: 0.9 HMP: 1.9 VEL: 1541.1 mHMP: 1.9 mVEL: 1541.3 NORTHING: 398675.3 EASTING: 150942.7
			2000 308 00 : 19 : 04	EOL; NSP;
				EOL F/A: -31.7 W/D: 826.3m
				Gun Volume: 4200 ci
				Last production shot on reel W04553 deck 00
				Wind: NE @ 10 kts. Seas: 3 ft.
29130	3141	30800064	2000 308 00 : 19 : 04	EOL T-0 Cable noise test Analysis 3.6 ubar
29130	3142	30800064	2000 308 00 : 19 : 04	EOL T-4 Dynamic Range Determination
29130	3143	30800064	2000 308 00 : 19 : 04	EOL T-2 Harmonic Distortion Analysis
				LINE COMPLETED

Line : BA2-04417
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Line Summary

	Start of Line	End of Line	Totals
FSID	30724717	30800064	
Shotpoint	10482	29130	18649
Good Shotpoint	10482	29130	18649
Date/Time	09:53 NOV 02,2000	00:17 NOV 03,2000	
Good File	32	3140	
Volser	W04548	W04553	6
Water Depth	86	826	
Gun vol Array 1	4500	4200	Shipment:
Gun vol Array 2			2

Line Heading: 42.2 Line Status: Accepted Cables 1 Srcs 1

Comments

Wind: E 10 KNOTS

Seas: 4-5 FEET

Navigation Reel Number: P58R017

First Production Reel Number: W04548 Last Production Reel Number: W04553

Cable Depth: 8 Meters

Record Length: 12 sec.

BOL CABLE NOISE: 6.7 uBARS

EOL CABLE NOISE: 3.6 uBARS

BOL F/A: -15.9 W/D: 85.5m

EOL F/A: -31.7 W/D: 826.3m

Bad Cable Depth Indicators: 9, 22

Bad Birds/Compasses: Birds 23, 24 have intermittent comms.

Bad Bird DI s: NONE

Bad Channels: Low amp: 70, 71, 81, 105, 111; Noisy: 441, 480; Xfd: 273

Erased Channels: NONE

Source Edits: 15204 to 15456,23688

Isolated Edits: NONE

Significant Edits: 15204 to 15456

Special Events:

Random sea noise breakout on the cable from BOL to EOL.

BOL cable noise still had slight bend at tail of cable.

BOL Gun volume 4500ci. No guns disabled.

SP 10590 Forced EEOR d/t excessive primary correction errors.

Sp's 15204 to 15456 are significant edits d/t autofire on gun 201, and will be reacquired at a later date.

SP 15228 Src: 1 Gun: 201, 202 Disabled d/t autofires array volume 4200

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Comments

SP 18600 Vessel moving offline d/t current change.

Sps 19002 - 20202 Noise breakouts at the head, moving down the cable
d/t currents

SP 20022 Vessel back on line , Max offline 30.7m at Sp 188882.

SP 28746 LSP of JD 307

Source Synchronizer System

Line Report

Revision 2.0

Line Number: BA2-04417

Vessel: Western Inlet

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Stafford
Texas 77477



General Line Information

Vessel Name:	Western Inlet
Party Number:	58
Job Number:	00-018
Client:	WGC Multiclient
Line Number:	BA2-04417
Prospect Area:	Amazon Basin Phase 2
Date Completed:	November 02, 2000



Initial Gun Parameters

Table 1: Gun Parameters

Gun id	Gun Cluster	Array 1	Array 2	Array 3	Array 4	Array 1 Offset (ms)	Array 2 Offset (ms)	Array 3 Offset (ms)	Array 4 Offset (ms)	Manual Delay (ms)
101	A	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
102	A	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
103	B	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
104	B	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
105	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
106	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
107	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
108	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
201	A	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
202	A	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
203	B	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
204	B	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
205	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
206	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
207	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
208	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
301	A	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
302	A	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
303	B	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
304	B	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
305	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
306	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
307	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
308	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
401	A	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
402	A	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
403	B	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
404	B	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
405	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0



Table 1: Gun Parameters (Continued)

Gun id	Gun Cluster	Array 1	Array 2	Array 3	Array 4	Array 1 Offset (ms)	Array 2 Offset (ms)	Array 3 Offset (ms)	Array 4 Offset (ms)	Manual Delay (ms)
406	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
407	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
408	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
501	A	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
502	A	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
503	B	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
504	B	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
505	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
506	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
507	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
508	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
601	A	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
602	A	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
603	B	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
604	B	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
605	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
606	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
607	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
608	None	Auto	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
	None	Disable	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
	None	Disable	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
	None	Disable	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
	None	Disable	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
	None	Disable	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
	None	Disable	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
	None	Disable	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
	None	Disable	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
801	None	Disable	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
802	None	Disable	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
803	None	Disable	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
804	None	Disable	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
805	None	Disable	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0



Table 1: Gun Parameters (Continued)

Gun id	Gun Cluster	Array 1	Array 2	Array 3	Array 4	Array 1 Offset (ms)	Array 2 Offset (ms)	Array 3 Offset (ms)	Array 4 Offset (ms)	Manual Delay (ms)
806	None	Disable	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
807	None	Disable	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0
808	None	Disable	Disable	Disable	Disable	+0.0	+0.0	+0.0	+0.0	0.0

Table 2: Gun Parameters

Gun id	Serial Number	Gun Type	Fire Pulse Width (ms)	Gun Volume (cu in)	Depth/Pressure Transducer	Fire Detect Threshold	Fire Detect Method
101	035	Sleeve	15.0	150	None	0.6	Zero Crossing
102	072	Sleeve	15.0	150	Depth	0.6	Zero Crossing
103	012	Sleeve	15.0	80	None	0.6	Zero Crossing
104	030	Sleeve	15.0	80	Depth	0.6	Zero Crossing
105	027	Sleeve	15.0	115	None	0.6	Zero Crossing
106	011	Sleeve	15.0	80	Pressure	0.6	Zero Crossing
107	054	Sleeve	15.0	55	None	0.6	Zero Crossing
108	016	Sleeve	15.0	40	Depth	0.6	Zero Crossing
201	002	Sleeve	15.0	150	Depth	0.6	Zero Crossing
202	041	Sleeve	15.0	150	None	0.6	Zero Crossing
203	029	Sleeve	15.0	80	None	0.6	Zero Crossing
204	019	Sleeve	15.0	80	Depth	0.6	Zero Crossing
205	038	Sleeve	15.0	115	None	0.6	Zero Crossing
206	047	Sleeve	15.0	80	Pressure	0.6	Zero Crossing
207	043	Sleeve	15.0	55	None	0.6	Zero Crossing
208	008	Sleeve	15.0	40	Depth	0.6	Zero Crossing
301	017	Sleeve	15.0	150	Depth	0.6	Zero Crossing
302	042	Sleeve	15.0	150	None	0.6	Zero Crossing
303	015	Sleeve	15.0	80	None	0.6	Zero Crossing
304	036	Sleeve	15.0	80	Depth	0.6	Zero Crossing
305	045	Sleeve	15.0	115	Pressure	0.6	Zero Crossing
306	061	Sleeve	15.0	80	None	0.6	Zero Crossing
307	071	Sleeve	15.0	55	None	0.6	Zero Crossing
308	032	Sleeve	15.0	40	Depth	0.6	Zero Crossing



Table 2: Gun Parameters (Continued)

Gun id	Serial Number	Gun Type	Fire Pulse Width (ms)	Gun Volume (cu in)	Depth/ Pressure Transducer	Fire Detect Threshold	Fire Detect Method
401	010	Sleeve	15.0	150	Depth	0.6	Zero Crossing
402	009	Sleeve	15.0	150	None	0.6	Zero Crossing
403	050	Sleeve	15.0	80	None	0.6	Zero Crossing
404	059	Sleeve	15.0	80	Depth	0.6	Zero Crossing
405	037	Sleeve	15.0	115	None	0.6	Zero Crossing
406	020	Sleeve	15.0	80	Pressure	0.6	Zero Crossing
407	013	Sleeve	15.0	55	None	0.6	Zero Crossing
408	058	Sleeve	15.0	40	Depth	0.6	Zero Crossing
501	052	Sleeve	15.0	150	Depth	0.6	Zero Crossing
502	073	Sleeve	15.0	150	None	0.6	Zero Crossing
503	023	Sleeve	15.0	80	None	0.6	Zero Crossing
504	003	Sleeve	15.0	80	Depth	0.6	Zero Crossing
505	055	Sleeve	15.0	115	Pressure	0.6	Zero Crossing
506	034	Sleeve	15.0	80	None	0.6	Zero Crossing
507	031	Sleeve	15.0	55	None	0.6	Zero Crossing
508	048	Sleeve	15.0	40	Depth	0.6	Zero Crossing
601	026	Sleeve	15.0	150	Depth	0.6	Zero Crossing
602	033	Sleeve	15.0	150	None	0.6	Zero Crossing
603	571	Sleeve	15.0	80	None	0.6	Zero Crossing
604	057	Sleeve	15.0	80	Depth	0.6	Zero Crossing
605	005	Sleeve	15.0	115	None	0.6	Zero Crossing
606	028	Sleeve	15.0	80	Pressure	0.6	Zero Crossing
607	039	Sleeve	15.0	55	None	0.6	Zero Crossing
608	024	Sleeve	15.0	40	Depth	0.6	Zero Crossing
		Sleeve	15.0	0	None	2.0	Zero Crossing
		Sleeve	15.0	0	None	2.0	Zero Crossing
		Sleeve	15.0	0	None	2.0	Zero Crossing
		Sleeve	15.0	0	None	2.0	Zero Crossing
		Sleeve	15.0	0	None	2.0	Zero Crossing
		Sleeve	15.0	0	None	2.0	Zero Crossing
		Sleeve	15.0	0	None	2.0	Zero Crossing
		Sleeve	15.0	0	None	2.0	Zero Crossing



Table 2: Gun Parameters (Continued)

Gun id	Serial Number	Gun Type	Fire Pulse Width (ms)	Gun Volume (cu in)	Depth/ Pressure Transducer	Fire Detect Threshold	Fire Detect Method
801		Sleeve	15.0	0	None	2.0	Zero Crossing
802		Sleeve	15.0	0	None	2.0	Zero Crossing
803		Sleeve	15.0	0	None	2.0	Zero Crossing
804		Sleeve	15.0	0	None	2.0	Zero Crossing
805		Sleeve	15.0	0	None	2.0	Zero Crossing
806		Sleeve	15.0	0	None	2.0	Zero Crossing
807		Sleeve	15.0	0	None	2.0	Zero Crossing
808		Sleeve	15.0	0	None	2.0	Zero Crossing

Time Break Mode: Volume
Volume Time Break (%): 62.5
Manual Time Break (ms): 128.0

Array 1 Volume (cu inch): 4500
Array 2 Volume (cu inch): 0
Array 3 Volume (cu inch): 0
Array 4 Volume (cu inch): 0

Sync Tolerance (ms): 1.0

Double Pop Tolerance (ms): 40.0
Transducer Near Field Gain (dB): 0



Chronological Modifications and Exceptions

Table 3: Gun Parameter Modifications

Shotpoint Number	Gun id	Array 1	Array 2	Array 3	Array 4	Fire Pulse Width (ms)	Depth/ Pressure Transducer	Fire Detect Threshold (Volts)
15228	201	Disable	Disable	Disable	Disable	15.0	Depth	0.6
15228	202	Disable	Disable	Disable	Disable	15.0	None	0.6
15246	201	Disable	Disable	Disable	Disable	15.0	Depth	5.0

Table 4: Shotpoint Errors

Shotpoint Number	Gun id	Error Type	Error Value
15210	201	Autofire	****
15210	202	Sync	+1.1ms
15216	201	Autofire	****
15222	201	Autofire	****
15228	201	Autofire	****
15234	201	Autofire	****
15240	201	Autofire	****
15246	201	Autofire	****
15252	201	Autofire	****
17028	407	Sync	-1.1ms
23688	407	Sync	-1.1ms



Gun Performance Summary

Table 5: Individual Gun Performance Summary

Gun ID	Serial Number	Good Shots	Bad Shots	Depth Errors	Pressure Errors	Autofire Errors	Misfire Errors	Sync Errors	Double Pops	Solenoid Errors
101	035	3108	0	0	0	0	0	0	0	0
102	072	3108	0	0	0	0	0	0	0	0
103	012	3108	0	0	0	0	0	0	0	0
104	030	3108	0	0	0	0	0	0	0	0
105	027	3108	0	0	0	0	0	0	0	0
106	011	3108	0	0	0	0	0	0	0	0
107	054	3108	0	0	0	0	0	0	0	0
108	016	3108	0	0	0	0	0	0	0	0
201	002	783	8	0	0	8	0	0	0	0
202	041	790	1	0	0	0	0	1	0	0
203	029	3108	0	0	0	0	0	0	0	0
204	019	3108	0	0	0	0	0	0	0	0
205	038	3108	0	0	0	0	0	0	0	0
206	047	3108	0	0	0	0	0	0	0	0
207	043	3108	0	0	0	0	0	0	0	0
208	008	3108	0	0	0	0	0	0	0	0
301	017	3108	0	0	0	0	0	0	0	0
302	042	3108	0	0	0	0	0	0	0	0
303	015	3108	0	0	0	0	0	0	0	0
304	036	3108	0	0	0	0	0	0	0	0
305	045	3108	0	0	0	0	0	0	0	0
306	061	3108	0	0	0	0	0	0	0	0
307	071	3108	0	0	0	0	0	0	0	0
308	032	3108	0	0	0	0	0	0	0	0
401	010	3108	0	0	0	0	0	0	0	0
402	009	3108	0	0	0	0	0	0	0	0
403	050	3108	0	0	0	0	0	0	0	0
404	059	3108	0	0	0	0	0	0	0	0
405	037	3108	0	0	0	0	0	0	0	0
406	020	3108	0	0	0	0	0	0	0	0



Table 5: Individual Gun Performance Summary (Continued)

Gun ID	Serial Number	Good Shots	Bad Shots	Depth Errors	Pressure Errors	Autofire Errors	Misfire Errors	Sync Errors	Double Pops	Solenoid Errors
407	013	3106	2	0	0	0	0	2	0	0
408	058	3108	0	0	0	0	0	0	0	0
501	052	3108	0	0	0	0	0	0	0	0
502	073	3108	0	0	0	0	0	0	0	0
503	023	3108	0	0	0	0	0	0	0	0
504	003	3108	0	0	0	0	0	0	0	0
505	055	3108	0	0	0	0	0	0	0	0
506	034	3108	0	0	0	0	0	0	0	0
507	031	3108	0	0	0	0	0	0	0	0
508	048	3108	0	0	0	0	0	0	0	0
601	026	3108	0	0	0	0	0	0	0	0
602	033	3108	0	0	0	0	0	0	0	0
603	571	3108	0	0	0	0	0	0	0	0
604	057	3108	0	0	0	0	0	0	0	0
605	005	3108	0	0	0	0	0	0	0	0
606	028	3108	0	0	0	0	0	0	0	0
607	039	3108	0	0	0	0	0	0	0	0
608	024	3108	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
801		0	0	0	0	0	0	0	0	0
802		0	0	0	0	0	0	0	0	0
803		0	0	0	0	0	0	0	0	0
804		0	0	0	0	0	0	0	0	0
805		0	0	0	0	0	0	0	0	0
806		0	0	0	0	0	0	0	0	0
807		0	0	0	0	0	0	0	0	0



Table 5: Individual Gun Performance Summary (Continued)

Gun ID	Serial Number	Good Shots	Bad Shots	Depth Errors	Pressure Errors	Autofire Errors	Misfire Errors	Sync Errors	Double Pops	Solenoid Errors
808		0	0	0	0	0	0	0	0	0

Table 6: Gun Performance Totals

Good Shots	Bad Shots	Depth Errors	Pressure Errors	Autofire Errors	Misfire Errors	Sync Errors	Double Pops	Solenoid Errors
3098	10	0	0	8	0	3	0	0

