

## Line Log

Line Name: Off-Line

Start Of Line: 24/11/2004 21:37:36

Shotpoint	Log Time	Message
	24/11/2004 21:37:36	LINE START - Off-Line shot 0 time 11-24-2004 21:37:36.485000
2361	24/11/2004 21:37:48	Operator command, All GUNs Disable
	24/11/2004 21:37:50	Operator command, GUN String_3 Cluster_6 Gun_9 Enable
	24/11/2004 21:38:37	Operator Command INTNL SINGLE ARRAY
2362	24/11/2004 21:38:40	SOL String pressures 1:2141.8 PSI 2:2099.5 PSI 3:2094.8 PSI
	24/11/2004 21:38:40	Volume source 1 40 cu in (ideal volume 3040) 1.3%
2613	24/11/2004 22:54:07	Operator command, GUN String_3 Cluster_6 Gun_9 Disable
	24/11/2004 22:54:13	Operator Command SHOT DISABLE
	24/11/2004 22:54:15	Operator command, All GUNs Enable
	24/11/2004 22:54:30	Operator Command Soft Start initialised
	24/11/2004 22:54:40	Operator Command INTNL SINGLE ARRAY
2619	24/11/2004 22:56:12	Volume source 1 changed from 40 to 80 cu in (ideal volume 3040) 2.6%
2625	24/11/2004 22:58:00	Volume source 1 changed from 80 to 150 cu in (ideal volume 3040) 4.9%
2631	24/11/2004 22:59:48	Volume source 1 changed from 150 to 220 cu in (ideal volume 3040) 7.2%
2636	24/11/2004 23:01:18	Volume source 1 changed from 220 to 290 cu in (ideal volume 3040) 9.5%
2642	24/11/2004 23:03:06	Volume source 1 changed from 290 to 390 cu in (ideal volume 3040) 12.8%
2647	24/11/2004 23:04:36	Volume source 1 changed from 390 to 490 cu in (ideal volume 3040) 16.1%
2653	24/11/2004 23:06:24	Volume source 1 changed from 490 to 640 cu in (ideal volume 3040) 21.1%
2658	24/11/2004 23:07:54	Volume source 1 changed from 640 to 790 cu in (ideal volume 3040) 26.0%
2664	24/11/2004 23:09:42	Volume source 1 changed from 790 to 940 cu in (ideal volume 3040) 30.9%
2669	24/11/2004 23:11:12	Spread error 3.4mS (limit 2.0mS) earliest String_3 Cluster_6 Gun_9 (error -0.1mS) latest String_1 Cluster_3 Gun_6 (error 3.3mS)
	24/11/2004 23:11:12	String_1 Cluster_3 Gun_6 (100 cu in) fired 3.3 mS late.
	24/11/2004 23:11:13	Volume source 1 changed from 940 to 1140 cu in (ideal volume 3040) 37.5%
2670	24/11/2004 23:11:30	Spread error 3.3mS (limit 2.0mS) earliest String_1 Cluster_3 Gun_6 (error -3.2mS) latest String_3 Cluster_5 Gun_8 (error 0.1mS)
	24/11/2004 23:11:30	String_1 Cluster_3 Gun_6 (100 cu in) fired 3.2 mS early.
2675	24/11/2004 23:13:00	Volume source 1 changed from 1140 to 1340 cu in (ideal volume 3040) 44.1%
2681	24/11/2004 23:14:48	Volume source 1 changed from 1340 to 1640 cu in (ideal volume 3040) 53.9%
2686	24/11/2004 23:16:18	Spread error 2.6mS (limit 2.0mS) earliest String_2 Cluster_3 Gun_5 (error -0.1mS) latest String_3 Cluster_2 Gun_4 (error 2.5mS)
	24/11/2004 23:16:18	String_3 Cluster_2 Gun_4 (150 cu in) fired 2.5 mS late.
	24/11/2004 23:16:18	Volume source 1 changed from 1640 to 1940 cu in (ideal volume 3040) 63.8%
2687	24/11/2004 23:16:36	Spread error 2.6mS (limit 2.0mS) earliest String_3 Cluster_2 Gun_4 (error -2.5mS) latest String_2 Cluster_6 Gun_8 (error 0.1mS)
	24/11/2004 23:16:36	String_3 Cluster_2 Gun_4 (150 cu in) fired 2.5 mS early.
2692	24/11/2004 23:18:06	Spread error 5.4mS (limit 2.0mS) earliest String_3 Cluster_3 Gun_5 (error -0.1mS) latest String_1 Cluster_1 Gun_2 (error 5.3mS)
	24/11/2004 23:18:06	Sensor amplitude change error String_1: Gun - Cluster_1-Gun_2
	24/11/2004 23:18:06	String_1 Cluster_1 Gun_2 (250 cu in) fired 5.3 mS late.
	24/11/2004 23:18:06	String_1 Cluster_1 Gun_1 (250 cu in) fired 2.8 mS late.
	24/11/2004 23:18:07	Volume source 1 changed from 1940 to 2440 cu in (ideal volume 3040) 80.3%

## Line Log: Off-Line (continued)

Shotpoint	Log Time	Message
2693	24/11/2004 23:18:24	Spread error 5.6mS (limit 2.0mS) earliest String_1 Cluster_1 Gun_2 (error -5.5mS) latest String_3 Cluster_6 Gun_9 (error 0.1mS)
	24/11/2004 23:18:24	String_1 Cluster_1 Gun_2 (250 cu in) fired 5.5 mS early.
	24/11/2004 23:18:24	String_1 Cluster_1 Gun_1 (250 cu in) fired 1.9 mS early.
2697	24/11/2004 23:19:36	Spread error 2.6mS (limit 2.0mS) earliest String_1 Cluster_1 Gun_1 (error -0.4mS) latest String_3 Cluster_1 Gun_2 (error 2.2mS)
	24/11/2004 23:19:36	String_3 Cluster_1 Gun_2 (250 cu in) fired 2.2 mS late.
	24/11/2004 23:19:36	String_3 Cluster_1 Gun_1 (250 cu in) fired 1.9 mS late.
	24/11/2004 23:19:37	Volume source 1 changed from 2440 to 2940 cu in (ideal volume 3040) 96.7%
2698	24/11/2004 23:19:54	Spread error 2.2mS (limit 2.0mS) earliest String_3 Cluster_1 Gun_2 (error -2.0mS) latest String_3 Cluster_2 Gun_4 (error 0.2mS)
	24/11/2004 23:19:54	String_3 Cluster_1 Gun_2 (250 cu in) fired 2.0 mS early.
	24/11/2004 23:19:54	String_3 Cluster_1 Gun_1 (250 cu in) fired 1.7 mS early.
2703	24/11/2004 23:21:24	Spread error 5.9mS (limit 2.0mS) earliest String_3 Cluster_6 Gun_9 (error -0.1mS) latest String_2 Cluster_1 Gun_1 (error 5.8mS)
	24/11/2004 23:21:24	String_2 Cluster_1 Gun_2 (300 cu in) fired 4.7 mS late.
	24/11/2004 23:21:24	String_2 Cluster_1 Gun_1 (300 cu in) fired 5.8 mS late.
	24/11/2004 23:21:24	Volume source 1 changed from 2940 to 3540 cu in (ideal volume 3040) 116.4%
2704	24/11/2004 23:21:42	Spread error 6.1mS (limit 2.0mS) earliest String_2 Cluster_1 Gun_1 (error -6.0mS) latest String_3 Cluster_1 Gun_2 (error 0.1mS)
	24/11/2004 23:21:42	String_2 Cluster_1 Gun_2 (300 cu in) fired 4.4 mS early.
	24/11/2004 23:21:42	String_2 Cluster_1 Gun_1 (300 cu in) fired 6.0 mS early.
2707	24/11/2004 23:22:37	Operator command, GUN String_1 Cluster_1 Gun_2 Disable
	24/11/2004 23:22:37	Operator command, GUN String_1 Cluster_3 Gun_6 Disable
2708	24/11/2004 23:22:54	Spread error 2.9mS (limit 2.0mS) earliest String_3 Cluster_1 Gun_1 (error -0.2mS) latest String_2 Cluster_2 Gun_3 (error 2.7mS)
	24/11/2004 23:22:54	String_2 Cluster_2 Gun_4 (300 cu in) fired 1.3 mS late.
	24/11/2004 23:22:54	String_2 Cluster_2 Gun_3 (300 cu in) fired 2.7 mS late.
	24/11/2004 23:22:54	Volume source 1 changed from 3540 to 3790 cu in (ideal volume 3040) 124.7%
	24/11/2004 23:22:56	Operator command, GUN String_3 Cluster_2 Gun_4 Disable
	24/11/2004 23:22:59	Operator command, GUN String_2 Cluster_1 Gun_2 Disable
	24/11/2004 23:23:00	Operator command, GUN String_2 Cluster_1 Gun_1 Disable
2709	24/11/2004 23:23:12	Spread error 3.1mS (limit 2.0mS) earliest String_2 Cluster_2 Gun_3 (error -2.8mS) latest String_1 Cluster_2 Gun_3 (error 0.3mS)
	24/11/2004 23:23:12	String_2 Cluster_2 Gun_3 (300 cu in) fired 2.8 mS early.
	24/11/2004 23:23:14	Volume source 1 changed from 3790 to 3040 cu in (ideal volume 3040)
2740	24/11/2004 23:32:29	Operator Command SHOT DISABLE
	24/11/2004 23:34:01	Operator Command INTNL SINGLE ARRAY
2747	24/11/2004 23:35:54	Operator Command EXTERNAL fire
	24/11/2004 23:36:15	Timeout on message read from Navigation system
981	24/11/2004 23:36:40	Missed Shot(s). Last S.P. 2747 this shot 981 (expected increment/decrement 1)
1001	24/11/2004 23:39:56	Start of line OEP04-07-01-037 shot 1001
		Totalshots on line = 406 Shots with one or more errors 18 (4.4%)
		Shots with bad timing 18 (4.4%)