

## Line Log

Line Name: DPISF-058-P1033  
 Start time: 05/03/2010 15:16:16

Client: **DPI**  
 Contract: **Southern Flanks 2D**

| Shotpoint | Log Time            | Message   |
|-----------|---------------------|---|
| 4998      | 05/03/2010 15:16:17 | Volume source 1 2360 cu in (ideal volume 2360) 100.0%                             |
|           | 05/03/2010 15:16:17 | SOL String pressures 1:2053.0 PSI 2:2007.0 PSI                                    |
|           | 05/03/2010 15:16:17 | First good shot 4998. Line 'DPISF-058-P1033' time 3-5-2010 15:16:16.646863        |
|           | 05/03/2010 15:16:17 | Atmospheric manual - 1000mB   |
|           | 05/03/2010 15:16:17 | SOL Full nominal array enabled, all spare guns disabled.                          |
| 3752      | 05/03/2010 17:21:08 | Volume source 1 changed from 2360 to 2300 cu in (ideal volume 2360) 97.5%         |
|           | 05/03/2010 17:21:09 | String 1 Cluster 5 Gun 7( 60 cu in) failed to detect fire.                        |
|           | 05/03/2010 17:21:09 | String 1 Cluster 5 Gun 7 Solenoid volts and current look OK.                      |
| 3751      | 05/03/2010 17:21:14 | Volume source 1 changed from 2300 to 2360 cu in (ideal volume 2360) 100.0%        |
| 3712      | 05/03/2010 17:25:07 | Sensor amplitude change error String 1: Cluster 5-Gun 7                           |
| 3604      | 05/03/2010 17:35:47 | Gun String 1 Cluster 5 Gun 7 (60 cu in) suspect autofire (sensor) 0.20s into shot |
| 3572      | 05/03/2010 17:38:57 | Volume source 1 changed from 2360 to 2300 cu in (ideal volume 2360) 97.5%         |
|           | 05/03/2010 17:38:57 | String 1 Cluster 5 Gun 7( 60 cu in) failed to detect fire.                        |
|           | 05/03/2010 17:38:57 | String 1 Cluster 5 Gun 7 Solenoid volts and current look OK.                      |
| 3571      | 05/03/2010 17:39:03 | Volume source 1 changed from 2300 to 2360 cu in (ideal volume 2360) 100.0%        |
| 3541      | 05/03/2010 17:42:02 | Gun String 1 Cluster 5 Gun 7 (60 cu in) suspect autofire (sensor) 0.16s into shot |
| 3524      | 05/03/2010 17:43:43 | Gun String 1 Cluster 5 Gun 7 (60 cu in) suspect autofire (sensor) 0.20s into shot |
| 3387      | 05/03/2010 17:57:16 | Sensor amplitude change error String 1: Cluster 5-Gun 7                           |
| 3262      | 05/03/2010 18:09:39 | Volume source 1 changed from 2360 to 2300 cu in (ideal volume 2360) 97.5%         |
|           | 05/03/2010 18:09:39 | String 1 Cluster 5 Gun 7( 60 cu in) failed to detect fire.                        |
|           | 05/03/2010 18:09:39 | String 1 Cluster 5 Gun 7 Solenoid volts and current look OK.                      |
| 3261      | 05/03/2010 18:09:45 | Volume source 1 changed from 2300 to 2360 cu in (ideal volume 2360) 100.0%        |
| 2918      | 05/03/2010 18:44:25 | Smart detection used on String 1 Cluster 5 Gun 7 (99%)                            |
|           | 05/03/2010 18:44:25 | smart: Threshold too high or sensor low for String 1 Cluster 5 Gun 7              |
|           | 05/03/2010 18:44:26 | Sensor amplitude change error String 1: Cluster 5-Gun 7                           |
| 2866      | 05/03/2010 18:49:56 | Sensor amplitude change error String 1: Cluster 5-Gun 7                           |
| 2864      | 05/03/2010 18:50:08 | Volume source 1 changed from 2360 to 2300 cu in (ideal volume 2360) 97.5%         |
|           | 05/03/2010 18:50:09 | String 1 Cluster 5 Gun 7( 60 cu in) failed to detect fire.                        |
|           | 05/03/2010 18:50:09 | String 1 Cluster 5 Gun 7 Solenoid volts and current look OK.                      |
| 2863      | 05/03/2010 18:50:14 | Volume source 1 changed from 2300 to 2360 cu in (ideal volume 2360) 100.0%        |
| 2788      | 05/03/2010 18:58:27 | Smart detection used on String 1 Cluster 5 Gun 7 (98%)                            |
|           | 05/03/2010 18:58:27 | smart: Threshold too high or sensor low for String 1 Cluster 5 Gun 7              |
|           | 05/03/2010 18:58:28 | Sensor amplitude change error String 1: Cluster 5-Gun 7                           |
| 2778      | 05/03/2010 18:59:34 | String 1 Cluster 5 Gun 7( 60 cu in) fired 1.4 mS late.                            |
| 2771      | 05/03/2010 19:00:19 | Volume source 1 changed from 2360 to 2300 cu in (ideal volume 2360) 97.5%         |
|           | 05/03/2010 19:00:19 | String 1 Cluster 5 Gun 7( 60 cu in) failed to detect fire.                        |
|           | 05/03/2010 19:00:19 | String 1 Cluster 5 Gun 7 Solenoid volts and current look OK.                      |
| 2770      | 05/03/2010 19:00:25 | Volume source 1 changed from 2300 to 2360 cu in (ideal volume 2360) 100.0%        |
| 2751      | 05/03/2010 19:02:31 | Volume source 1 changed from 2360 to 2300 cu in (ideal volume 2360) 97.5%         |
|           | 05/03/2010 19:02:31 | String 1 Cluster 5 Gun 7( 60 cu in) failed to detect fire.                        |
|           | 05/03/2010 19:02:31 | String 1 Cluster 5 Gun 7 Solenoid volts and current look OK.                      |

## Line Log: DPISF-058-P1033 (continued)

| Shotpoint | Log Time            | Message  |
|-----------|---------------------|--|
| 2750      | 05/03/2010 19:02:37 | Volume source 1 changed from 2300 to 2360 cu in (ideal volume 2360) 100.0%   |
| 2625      | 05/03/2010 19:16:22 | Smart detection used on String 1 Cluster 5 Gun 7 (98%)   |
|           | 05/03/2010 19:16:22 | smart: Threshold too high or sensor low for String 1 Cluster 5 Gun 7   |
|           | 05/03/2010 19:16:22 | Sensor amplitude change error String 1: Cluster 5-Gun 7  |
| 2616      | 05/03/2010 19:17:22 | Smart detection used on String 1 Cluster 5 Gun 7 (99%)   |
|           | 05/03/2010 19:17:22 | smart: Threshold too high or sensor low for String 1 Cluster 5 Gun 7   |
| 2565      | 05/03/2010 19:23:09 | Volume source 1 changed from 2360 to 2300 cu in (ideal volume 2360) 97.5%  |
|           | 05/03/2010 19:23:10 | String 1 Cluster 5 Gun 7( 60 cu in) failed to detect fire.   |
|           | 05/03/2010 19:23:10 | String 1 Cluster 5 Gun 7 Solenoid volts and current look OK.   |
| 2564      | 05/03/2010 19:23:16 | Volume source 1 changed from 2300 to 2360 cu in (ideal volume 2360) 100.0%   |
| 2526      | 05/03/2010 19:27:36 | Volume source 1 changed from 2360 to 2300 cu in (ideal volume 2360) 97.5%  |
|           | 05/03/2010 19:27:37 | String 1 Cluster 5 Gun 7( 60 cu in) failed to detect fire.   |
|           | 05/03/2010 19:27:37 | String 1 Cluster 5 Gun 7 Solenoid volts and current look OK.   |
| 2525      | 05/03/2010 19:27:43 | Volume source 1 changed from 2300 to 2360 cu in (ideal volume 2360) 100.0%   |
| 2495      | 05/03/2010 19:31:16 | Gun String 1 Cluster 5 Gun 7 (60 cu in) suspect autofire (sensor) 0.16s into shot  |
| 2377      | 05/03/2010 19:45:32 | Volume source 1 changed from 2360 to 2300 cu in (ideal volume 2360) 97.5%  |
|           | 05/03/2010 19:45:32 | String 1 Cluster 5 Gun 7( 60 cu in) failed to detect fire.   |
|           | 05/03/2010 19:45:32 | String 1 Cluster 5 Gun 7 Solenoid volts and current look OK.   |
| 2376      | 05/03/2010 19:45:39 | Volume source 1 changed from 2300 to 2360 cu in (ideal volume 2360) 100.0%   |
| 2357      | 05/03/2010 19:47:56 | Smart detection used on String 1 Cluster 5 Gun 7 (99%)   |
|           | 05/03/2010 19:47:56 | smart: Threshold too high or sensor low for String 1 Cluster 5 Gun 7   |
|           | 05/03/2010 19:47:57 | Sensor amplitude change error String 1: Cluster 5-Gun 7  |
| 2340      | 05/03/2010 19:49:59 | Volume source 1 changed from 2360 to 2300 cu in (ideal volume 2360) 97.5%  |
|           | 05/03/2010 19:50:00 | String 1 Cluster 5 Gun 7( 60 cu in) failed to detect fire.   |
|           | 05/03/2010 19:50:00 | String 1 Cluster 5 Gun 7 Solenoid volts and current look OK.   |
| 2339      | 05/03/2010 19:50:06 | Volume source 1 changed from 2300 to 2360 cu in (ideal volume 2360) 100.0%   |
| 2316      | 05/03/2010 19:52:53 | Gun String 1 Cluster 5 Gun 7 (60 cu in) suspect autofire (sensor) 0.20s into shot  |
| 2292      | 05/03/2010 19:55:47 | Gun String 1 Cluster 5 Gun 7 (60 cu in) suspect autofire (sensor) 0.20s into shot  |
| 2233      | 05/03/2010 20:02:54 | Gun String 1 Cluster 5 Gun 7 (60 cu in) suspect autofire (sensor) 0.16s into shot  |
| 1925      | 05/03/2010 20:41:12 | Gun String 1 Cluster 5 Gun 7 (60 cu in) suspect autofire (sensor) 0.30s into shot  |
| 1879      | 05/03/2010 20:46:58 | Volume source 1 changed from 2360 to 2300 cu in (ideal volume 2360) 97.5%  |
|           | 05/03/2010 20:46:59 | String 1 Cluster 5 Gun 7( 60 cu in) failed to detect fire.   |
|           | 05/03/2010 20:46:59 | String 1 Cluster 5 Gun 7 Solenoid volts and current look OK.   |
| 1878      | 05/03/2010 20:47:06 | Volume source 1 changed from 2300 to 2360 cu in (ideal volume 2360) 100.0%   |
| 1505      | 05/03/2010 21:33:57 | String 1 Cluster 5 Gun 7( 60 cu in) fired 1.4 mS late.   |
| 1500      | 05/03/2010 21:34:34 | Sensor amplitude change error String 1: Cluster 5-Gun 7  |
| 980       | 05/03/2010 22:35:14 | Gun String 1 Cluster 5 Gun 7 (60 cu in) suspect autofire (sensor) 0.16s into shot  |
| 962       | 05/03/2010 22:37:14 | Gun String 1 Cluster 5 Gun 7 (60 cu in) suspect autofire (sensor) 0.19s into shot  |
| 935       | 05/03/2010 22:40:15 | Gun String 1 Cluster 5 Gun 7 (60 cu in) suspect autofire (sensor) 0.16s into shot  |
| 922       | 05/03/2010 22:41:42 | Gun String 1 Cluster 5 Gun 7 (60 cu in) suspect autofire (sensor) 0.16s into shot  |
| 863       | 05/03/2010 22:48:26 | Operator command, All GUNs Disable   |
|           | 05/03/2010 22:48:28 | END OF LINE shot 863 time 3-5-2010 22:48:17.331206   |
|           | 05/03/2010 22:48:28 | Atmospheric manual - 1000mB  |
|           | 05/03/2010 22:48:28 | EOL Guns enabled/disabled compared to nominal array: String 1 Cluster 1 Gun 1 150 cu in. disabled. String 1 Cluster 1 Gun 2 150 cu in. disabled. |

## Line Log: DPISF-058-P1033 (continued)

| Shotpoint | Log Time            | Message  |
|-----------|---------------------|--|
|           | 05/03/2010 22:48:28 | String 1 Cluster 2 Gun 3 60 cu in. disabled. String 1 Cluster 2 Gun 4 60 cu in. disabled. String 1 Cluster 3 Gun 5 20 cu in. disabled. String 1 Cluster 4 Gun 6 40 cu in. disabled.      |
|           | 05/03/2010 22:48:28 | String 1 Cluster 5 Gun 7 60 cu in. disabled. String 1 Cluster 6 Gun 9 100 cu in. disabled. String 1 Cluster 7 Gun 10 250 cu in. disabled. String 1 Cluster 7 Gun 11 250 cu in. disabled. |
|           | 05/03/2010 22:48:28 | String 2 Cluster 1 Gun 1 150 cu in. disabled. String 2 Cluster 1 Gun 2 150 cu in. disabled. String 2 Cluster 2 Gun 3 150 cu in. disabled. String 2 Cluster 3 Gun 5 70 cu in. disabled.   |
|           | 05/03/2010 22:48:28 | String 2 Cluster 4 Gun 6 40 cu in. disabled. String 2 Cluster 5 Gun 7 20 cu in. disabled. String 2 Cluster 6 Gun 8 70 cu in. disabled. String 2 Cluster 6 Gun 9 70 cu in. disabled.      |
|           | 05/03/2010 22:48:28 | String 2 Cluster 7 Gun 10 250 cu in. disabled. String 2 Cluster 7 Gun 11 250 cu in. disabled.  |
|           | 05/03/2010 22:48:28 | EOL Volume source 1 2360 cu in.  |
|           | 05/03/2010 22:48:28 | EOL String pressures 1:2036.0 PSI 2:1992.0 PSI   |
|           |                     | Total shotpoints on line = 4136. Shotpoints with errors of any type 25 (0.6%)  |
|           |                     | Shotpoints with gun errors (not depth, pressure or autofire errors) 25 (0.6%)  |
|           |                     | Shotpoints with misfires 11 (0.3%)   |
|           |                     | Shotpoints with bad timing 2 (0.0%)  |
|           |                     | Shotpoints with possible autofires detected 12 (0.3%)  |