

# Observers Log

|            |                                 |
|------------|---------------------------------|
| Vessel     | Marcus G. Langseth              |
| PI         | Dan Lizarralde                  |
| Area       | Chain Transform Fault OBS & MCS |
| Job Number | MGL2411                         |

|                 |              |               |
|-----------------|--------------|---------------|
| Shift           | 00:00-12:00  | 12:00-24:00   |
| Science Officer | Cody Bahlau  |               |
| Acquisition     | Riley Lopez  | Gilles Guérin |
| Navigation      | Aaron Martin | Cody Bahlau   |

|           |                |
|-----------|----------------|
| LINE      | MGL2411001SNP1 |
| SEQUENCE  | 1              |
| DIRECTION | 255.9          |

|     |      |      |          |
|-----|------|------|----------|
|     | SP#  | FFID | Raw SegD |
| SOL | 1052 | 1    | NA       |
| EOL | 4148 | 3097 | NA       |

| Streamer Parameters     |       |   |   |   |
|-------------------------|-------|---|---|---|
|                         | 1     | 2 | 3 | 4 |
| Length (m)              | 15000 |   |   |   |
| Auxiliaries             | 28    |   |   |   |
| Shotpoint Interval: (m) | 50    |   |   |   |
| Offset COS - CNG (m)    | 178.2 |   |   |   |
| Group Interval: (m)     | 12.5  |   |   |   |
| Number of channels      | 1200  |   |   |   |
| Streamer Depth (m)      | 12    |   |   |   |

| Source Parameters    |                    |
|----------------------|--------------------|
| Total Volume         | Bolt Guns 6600 in3 |
| Work Pressure        | 1900psi +/- 100psi |
| Dual Source          | no                 |
| Depth                | 12                 |
| Sub-array Separation | 6                  |
| COS to COS           | Single Source      |

| Recording Parameters  |                     |
|-----------------------|---------------------|
| Record Length         | 20                  |
| Total recording delay | 0                   |
| Sample Rate           | 2 ms                |
| Polarity              | SEGD standard       |
| Low-Cut               | 3Hz analog          |
| Hi-Cut                | 200Hz, 270dB/octave |
| File Format           | SEGD                |

| Description | SOL        | EOL       |
|-------------|------------|-----------|
| SP          | 1052       | 4148      |
| Date        | 11/30/2024 | 12/1/2024 |
| Time UTC    | 11:55      | 07:46     |
| Volume      | 6560 in3   | 4950 in3  |
| Wind        | SE 19 kts  | SE 18 kts |
| Sea State   | 1 m        | 1 m       |
| Water Depth | 5200 m     | 4750 m    |

| Abbreviations                 |
|-------------------------------|
| SOL/EOL: Start/End of Line    |
| FGSP/LGSP: First/Last Good SP |
| SnGm: array/string n, gun m   |

| Dead/bad channels  |
|--|
| 37,61,69,97,121,145,146,156,169,191,193,217,229,271,297,369,537,573,620,624,776,837,853,885,1072,1076,1177,1185,1191 |

| General / Line Comments   |
|---|
| S3G3 disabled during ramp-up - Volume at SOL is 6560in3                         |
| NFH 1-2 and 2-2 Dead SOL thru EOL   |
| First shot triggered by Orca was 1051, but first shot received by Seal was 1052 |
| Bird 22 Bad Compass Readings from SP 3540                                       |
| LGSP 4095 before S3G8 autofire  |
| Early End of Line because of S3G8 Autofire                                      |
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|------------|---------------------------------|
| Vessel     | Marcus G. Langseth              |
| PI         | Dan Lizarralde                  |
| Area       | Chain Transform Fault OBS & MCS |
| Job Number | MGL2411                         |

|                 |              |               |
|-----------------|--------------|---------------|
| Shift           | 00:00-12:00  | 12:00-24:00   |
| Science Officer | Cody Bahlau  |               |
| Acquisition     | Riley Lopez  | Gilles Guérin |
| Navigation      | Aaron Martin | Cody Bahlau   |

|           |                |
|-----------|----------------|
| LINE      | MGL2411002SNP2 |
| SEQUENCE  | 2              |
| DIRECTION | 255.9          |

|     |      |      |          |
|-----|------|------|----------|
|     | SP#  | FFID | Raw SegD |
| SOL | 4096 | 3098 | NA       |
| EOL | 5003 | 4005 | NA       |

| Streamer Parameters     |       |   |   |   |
|-------------------------|-------|---|---|---|
|                         | 1     | 2 | 3 | 4 |
| Length (m)              | 15000 |   |   |   |
| Auxiliaries             | 28    |   |   |   |
| Shotpoint Interval: (m) | 50    |   |   |   |
| Offset COS - CNG (m)    | 178.2 |   |   |   |
| Group Interval: (m)     | 12.5  |   |   |   |
| Number of channels      | 1200  |   |   |   |
| Streamer Depth (m)      | 12    |   |   |   |

| Source Parameters    |                    |
|----------------------|--------------------|
| Total Volume         | Bolt Guns 6600 in3 |
| Work Pressure        | 1900psi +/- 100psi |
| Dual Source          | no                 |
| Depth                | 12                 |
| Sub-array Separation | 6                  |
| COS to COS           | Single Source      |

| Recording Parameters  |                     |
|-----------------------|---------------------|
| Record Length         | 20                  |
| Total recording delay | 0                   |
| Sample Rate           | 2 ms                |
| Polarity              | SEGD standard       |
| Low-Cut               | 3Hz analog          |
| Hi-Cut                | 200Hz, 270dB/octave |
| File Format           | SEGD                |

| Description | SOL        | EOL        |
|-------------|------------|------------|
| SP          | 4096       | 5003       |
| Date        | 12/01/2024 | 12/01/2024 |
| Time UTC    | 13:03      | 18:55      |
| Volume      | 6600 in3   | 6540 in3   |
| Wind        | SE 15 kts  | SE 13 kts  |
| Sea State   | 1 m        | 1 m        |
| Water Depth | 4990 m     | 4650 m     |

| Abbreviations                 |
|-------------------------------|
| SOL/EOL: Start/End of Line    |
| FGSP/LGSP: First/Last Good SP |
| SnGm: array/string n, gun m   |

| Dead/bad channels  |
|--|
| 37,61,69,97,121,145,146,156,169,191,193,217,229,271,297,369,537,573,620,624,776,837,853,885,1072,1076,1177,1185,1191 |

| General / Line Comments  |
|--|
| Strong turn noise at start of line   |
| S3G7 disabled after SP 4227  |
| S2G1 started autofiring after SP 4750; array 2 disabled; autofiring visible through SP 3808; back to full volume (35 guns) after SP 4947 |
| Bird 22 Bad Compass Readings   |
| NFH 1-2 and 2-2 Dead   |
|  |
|  |
|  |
|  |



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| PI         | Dan Lizarralde                  |
| Area       | Chain Transform Fault OBS & MCS |
| Job Number | MGL2411                         |

|                 |              |               |
|-----------------|--------------|---------------|
| Shift           | 00:00-12:00  | 12:00-24:00   |
| Science Officer | Cody Bahlau  |               |
| Acquisition     | Riley Lopez  | Gilles Guérin |
| Navigation      | Aaron Martin | Cody Bahlau   |

|           |                 |
|-----------|-----------------|
| LINE      | MGL2411003D01P1 |
| SEQUENCE  | 3               |
| DIRECTION | 165.8           |

|     |      |      |          |
|-----|------|------|----------|
|     | SP#  | FFID | Raw SegD |
| SOL | 5100 | 4010 | NA       |
| EOL | 5825 | 4640 | NA       |

| Streamer Parameters     |       |   |   |   |
|-------------------------|-------|---|---|---|
|                         | 1     | 2 | 3 | 4 |
| Length (m)              | 15000 |   |   |   |
| Auxiliaries             | 28    |   |   |   |
| Shotpoint Interval: (m) | 50    |   |   |   |
| Offset COS - CNG (m)    | 178.2 |   |   |   |
| Group Interval: (m)     | 12.5  |   |   |   |
| Number of channels      | 1200  |   |   |   |
| Streamer Depth (m)      | 12    |   |   |   |

| Source Parameters    |                    |
|----------------------|--------------------|
| Total Volume         | Bolt Guns 6600 in3 |
| Work Pressure        | 1900psi +/- 100psi |
| Dual Source          | no                 |
| Depth                | 12                 |
| Sub-array Separation | 6                  |
| COS to COS           | Single Source      |

| Recording Parameters  |                     |
|-----------------------|---------------------|
| Record Length         | 20                  |
| Total recording delay | 0                   |
| Sample Rate           | 2 ms                |
| Polarity              | SEGD standard       |
| Low-Cut               | 3Hz analog          |
| Hi-Cut                | 200Hz, 270dB/octave |
| File Format           | SEGD                |

| Description | SOL         | EOL        |
|-------------|-------------|------------|
| SP          | 5100        | 5825       |
| Date        | 12/02/2024  | 12/02/2024 |
| Time UTC    | 01:42       | 07:09      |
| Volume      | 6540 in3    | 6540 in3   |
| Wind        | SE 16.6 kts | SE 17 kts  |
| Sea State   | 2 m         | 2 m        |
| Water Depth | 3225.9 m    | 4095 m     |

| Abbreviations                 |
|-------------------------------|
| SOL/EOL: Start/End of Line    |
| FGSP/LGSP: First/Last Good SP |
| SnGm: array/string n, gun m   |

| Dead/bad channels  |
|--|
| 37,61,69,97,121,145,146,156,169,191,193,217,229,271,297,369,537,573,620,624,776,837,853,885,1072,1076,1177,1185,1191 |

| General / Line Comments   |
|---|
| Gun 3-7 disabled - 35 guns, 6540 in3  |
| NFH Dead - 1-2, 2-1, 2-2  |
| Recording gaps because of streamer telemetry failures - SP 5154-5217; 5328-5336; 5384-5405                          |
| Incomplete/corrupted files because of streamer telemetry failures - SP 5140 - 5153; 5319-5327; 5378-5383; 5824-5825 |
| LGSP 5823 d/t Early end of line to troubleshoot streamer telemetry  |
| Orca kept triggering shots after Seal end of line. SP 5826-5836 were triggered but were not recorded by Seal        |
|   |
|   |
|   |

| <b>Time UTC</b> | <b>FFID</b> | <b>SP</b> | <b>Description</b>  |
|-----------------|-------------|-----------|---|
| 01:42           | 4010        | 5100      | SOL MGL2411003D01P1 - 35 Guns - 6540 in3                            |
| 02:01           | 4050        | 5140      | Seal telemetry failure - traces missing or incomplete               |
| 02:06           | 4063        | 5153      | Last shot recorded before stopping acquisition to troubleshoot Seal |
| 02:39           | 4064        | 5218      | Acquisition restarted   |
| 03:20           | 4165        | 5319      | 2nd telemetry failure - traces missing or incomplete                |
| 03:24           | 4173        | 5327      | Last shot recorded before stopping acquisition                      |
| 03:29           | 4174        | 5337      | Acquisition restarted   |
| 03:50           | 4215        | 5378      | 3rd telemetry failure - traces missing or incomplete                |
| 03:52           | 4220        | 5383      | Last shot recorded before stopping acquisition                      |
| 04:04           | 4221        | 5406      | Acquisition restarted   |
| 07:08           | 4638        | 5823      | LGSP d/t telemetry issues   |
| 07:09           | 4639        | 5824      | 4th telemetry failure - traces missing or incomplete                |
| 07:09           | 4640        | 5825      | EOL MGL2411003D01P1 - 35 Guns - 6540 in3                            |
|                 |             |           | Early end of line to troubleshoot Seal telemetry failures           |
|                 |             |           |   |
|                 |             |           |   |
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|                 |             |           |   |
|                 |             |           |   |

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| Vessel     | Marcus G. Langseth              |
| PI         | Dan Lizarralde                  |
| Area       | Chain Transform Fault OBS & MCS |
| Job Number | MGL2411                         |

|                 |              |               |
|-----------------|--------------|---------------|
| Shift           | 00:00-12:00  | 12:00-24:00   |
| Science Officer | Cody Bahlau  |               |
| Acquisition     | Riley Lopez  | Gilles Guérin |
| Navigation      | Aaron Martin | Cody Bahlau   |

|           |                 |
|-----------|-----------------|
| LINE      | MGL2411004D03P1 |
| SEQUENCE  | 4               |
| DIRECTION | 345.8           |

|     |      |      |          |
|-----|------|------|----------|
|     | SP#  | FFID | Raw SegD |
| SOL | 6878 | 4641 | NA       |
| EOL | 8540 | 6303 | NA       |

| Streamer Parameters     |       |   |   |   |
|-------------------------|-------|---|---|---|
|                         | 1     | 2 | 3 | 4 |
| Length (m)              | 15000 |   |   |   |
| Auxiliaries             | 28    |   |   |   |
| Shotpoint Interval: (m) | 50    |   |   |   |
| Offset COS - CNG (m)    | 178.2 |   |   |   |
| Group Interval: (m)     | 12.5  |   |   |   |
| Number of channels      | 1200  |   |   |   |
| Streamer Depth (m)      | 12    |   |   |   |

| Source Parameters    |                    |
|----------------------|--------------------|
| Total Volume         | Bolt Guns 6600 in3 |
| Work Pressure        | 1900psi +/- 100psi |
| Dual Source          | no                 |
| Depth                | 12                 |
| Sub-array Separation | 6                  |
| COS to COS           | Single Source      |

| Recording Parameters  |                     |
|-----------------------|---------------------|
| Record Length         | 20                  |
| Total recording delay | 0                   |
| Sample Rate           | 2 ms                |
| Polarity              | SEGD standard       |
| Low-Cut               | 3Hz analog          |
| Hi-Cut                | 200Hz, 270dB/octave |
| File Format           | SEGD                |

| Description | SOL        | EOL        |
|-------------|------------|------------|
| SP          | 6878       | 8540       |
| Date        | 12/03/2024 | 12/03/2024 |
| Time UTC    | 00:42      | 12:13      |
| Volume      | 4950 in3   | 6600 in3   |
| Wind        | SE 15 kts  | SE 13 kts  |
| Sea State   | 1 m        | 1 m        |
| Water Depth | 3620 m     | 3168.5 m   |

| Abbreviations                 |
|-------------------------------|
| SOL/EOL: Start/End of Line    |
| FGSP/LGSP: First/Last Good SP |
| SnGm: array/string n, gun m   |

| Dead/bad channels   |
|---|
| 37,61,69,97,121,145,146,156,169,191,193,217,229,271,369,537,573,620,624,776,837,853,885,1072,1076,1177,1185,1191,1192,1195,1196,1199,1200 |

| General / Line Comments   |
|---|
| Array 3 disabled at start of line - 27 guns, 4950 in3. Full volume after SP 6965                              |
| Compressor Failure - source disabled SP 7003-7038   |
| Possible cable strike caused last 5 birds to lose comms, cable tension spike and overscaling issues @ SP 5294 |
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# Observers Log

|            |                                 |
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| Vessel     | Marcus G. Langseth              |
| PI         | Dan Lizarralde                  |
| Area       | Chain Transform Fault OBS & MCS |
| Job Number | MGL2411                         |

|                 |              |               |
|-----------------|--------------|---------------|
| Shift           | 00:00-12:00  | 12:00-24:00   |
| Science Officer | Cody Bahlau  |               |
| Acquisition     | Riley Lopez  | Gilles Guérin |
| Navigation      | Aaron Martin | Cody Bahlau   |

|           |                 |
|-----------|-----------------|
| LINE      | MGL2411005T45P1 |
| SEQUENCE  | 5               |
| DIRECTION | 97.1            |

|     |      |      |          |
|-----|------|------|----------|
|     | SP#  | FFID | Raw SegD |
| SOL | 9070 | 6304 | NA       |
| EOL | 9556 | 6790 | NA       |

| Streamer Parameters     |       |   |   |   |
|-------------------------|-------|---|---|---|
|                         | 1     | 2 | 3 | 4 |
| Length (m)              | 15000 |   |   |   |
| Auxiliaries             | 28    |   |   |   |
| Shotpoint Interval: (m) | 50    |   |   |   |
| Offset COS - CNG (m)    | 178.2 |   |   |   |
| Group Interval: (m)     | 12.5  |   |   |   |
| Number of channels      | 1200  |   |   |   |
| Streamer Depth (m)      | 12    |   |   |   |

| Source Parameters    |                    |
|----------------------|--------------------|
| Total Volume         | Bolt Guns 6600 in3 |
| Work Pressure        | 1900psi +/- 100psi |
| Dual Source          | no                 |
| Depth                | 12                 |
| Sub-array Separation | 6                  |
| COS to COS           | Single Source      |

| Recording Parameters  |                     |
|-----------------------|---------------------|
| Record Length         | 20                  |
| Total recording delay | 0                   |
| Sample Rate           | 2 ms                |
| Polarity              | SEGD standard       |
| Low-Cut               | 3Hz analog          |
| Hi-Cut                | 200Hz, 270dB/octave |
| File Format           | SEGD                |

| Description | SOL        | EOL       |
|-------------|------------|-----------|
| SP          | 9070       | 9556      |
| Date        | 12/04/2024 | 12/04/24  |
| Time UTC    | 16:31      | 21:04     |
| Volume      | 6600 in3   | 6600 in3  |
| Wind        | SE 12 kts  | SE 12 kts |
| Sea State   | 1 m        | 1 m       |
| Water Depth | 2980 m     | 3600 m    |

| Abbreviations                 |
|-------------------------------|
| SOL/EOL: Start/End of Line    |
| FGSP/LGSP: First/Last Good SP |
| SnGm: array/string n, gun m   |

| Dead/bad channels  |
|--|
| 37,69,97,121,145,146,156,169,191,193,217,271,369,537,573,620,624,776,837,853,885,1072,1076,1177,1185 |

| General / Line Comments   |
|---|
| Test/transit line after full redeployment of streamer                   |
| Strong turn signal/noise at start                                       |
| <b>No navigation header received in the last SEG D file - LGSP 9555</b> |
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# Observers Log

|            |                                 |
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| PI         | Dan Lizarralde                  |
| Area       | Chain Transform Fault OBS & MCS |
| Job Number | MGL2411                         |

|                 |              |               |
|-----------------|--------------|---------------|
| Shift           | 00:00-12:00  | 12:00-24:00   |
| Science Officer | Cody Bahlau  |               |
| Acquisition     | Riley Lopez  | Gilles Guérin |
| Navigation      | Aaron Martin | Cody Bahlau   |

|           |                  |
|-----------|------------------|
| LINE      | MGL2411006D05BP1 |
| SEQUENCE  | 6                |
| DIRECTION | 165.8            |

|     |       |      |          |
|-----|-------|------|----------|
|     | SP#   | FFID | Raw SegD |
| SOL | 9977  | 6791 | NA       |
| EOL | 11540 | 8354 | NA       |

| Streamer Parameters     |       |   |   |   |
|-------------------------|-------|---|---|---|
|                         | 1     | 2 | 3 | 4 |
| Length (m)              | 15000 |   |   |   |
| Auxiliaries             | 28    |   |   |   |
| Shotpoint Interval: (m) | 50    |   |   |   |
| Offset COS - CNG (m)    | 178.2 |   |   |   |
| Group Interval: (m)     | 12.5  |   |   |   |
| Number of channels      | 1200  |   |   |   |
| Streamer Depth (m)      | 12    |   |   |   |

| Source Parameters    |                    |
|----------------------|--------------------|
| Total Volume         | Bolt Guns 6600 in3 |
| Work Pressure        | 1900psi +/- 100psi |
| Dual Source          | no                 |
| Depth                | 12                 |
| Sub-array Separation | 6                  |
| COS to COS           | Single Source      |

| Recording Parameters  |                     |
|-----------------------|---------------------|
| Record Length         | 20                  |
| Total recording delay | 0                   |
| Sample Rate           | 2 ms                |
| Polarity              | SEGD standard       |
| Low-Cut               | 3Hz analog          |
| Hi-Cut                | 200Hz, 270dB/octave |
| File Format           | SEGD                |

| Description | SOL        | EOL        |
|-------------|------------|------------|
| SP          | 9977       | 11540      |
| Date        | 12/04/2024 | 12/05/2024 |
| Time UTC    | 21:10      | 07:59:45   |
| Volume      | 6600 in3   | 6600 in3   |
| Wind        | SE 12 kts  | SE 13 kts  |
| Sea State   | 1 m        | 1 m        |
| Water Depth | 3490 m     | 3944.2 m   |

| Abbreviations                 |
|-------------------------------|
| SOL/EOL: Start/End of Line    |
| FGSP/LGSP: First/Last Good SP |
| SnGm: array/string n, gun m   |

| Dead/bad channels  |
|--|
| 37,69,97,121,145,146,156,169,191,193,217,229,271,369,537,573,620,624,776,837,853,885,1072,1076,1177,1185 |

| General / Line Comments   |
|---|
| NFH 1-2 and 2-1 disabled  |
| No guns firing because of alarm from compressor SP 11136-11140 (FFID 7950-7954)   |
| Shot 11541 (FFID 8355) was recorded at the end of the line while the navigation was offline. It had no navigation and was discarded |
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| PI         | Dan Lizarralde                  |
| Area       | Chain Transform Fault OBS & MCS |
| Job Number | MGL2411                         |

|                 |              |               |
|-----------------|--------------|---------------|
| Shift           | 00:00-12:00  | 12:00-24:00   |
| Science Officer | Cody Bahlau  |               |
| Acquisition     | Riley Lopez  | Gilles Guérin |
| Navigation      | Aaron Martin | Cody Bahlau   |

|           |                 |
|-----------|-----------------|
| LINE      | MGL2411009T67P1 |
| SEQUENCE  | 9               |
| DIRECTION | 75.8            |

|     |       |       |          |
|-----|-------|-------|----------|
|     | SP#   | FFID  | Raw SegD |
| SOL | 15023 | 10361 | NA       |
| EOL | 15545 | 10829 | NA       |

| Streamer Parameters     |       |   |   |   |
|-------------------------|-------|---|---|---|
|                         | 1     | 2 | 3 | 4 |
| Length (m)              | 15000 |   |   |   |
| Auxiliaries             | 28    |   |   |   |
| Shotpoint Interval: (m) | 50    |   |   |   |
| Offset COS - CNG (m)    | 178.2 |   |   |   |
| Group Interval: (m)     | 12.5  |   |   |   |
| Number of channels      | 1200  |   |   |   |
| Streamer Depth (m)      | 12    |   |   |   |

| Source Parameters    |                    |
|----------------------|--------------------|
| Total Volume         | Bolt Guns 6600 in3 |
| Work Pressure        | 1900psi +/- 100psi |
| Dual Source          | no                 |
| Depth                | 12                 |
| Sub-array Separation | 6                  |
| COS to COS           | Single Source      |

| Recording Parameters  |                     |
|-----------------------|---------------------|
| Record Length         | 20                  |
| Total recording delay | 0                   |
| Sample Rate           | 2 ms                |
| Polarity              | SEGD standard       |
| Low-Cut               | 3Hz analog          |
| Hi-Cut                | 200Hz, 270dB/octave |
| File Format           | SEGD                |

| Description | SOL        | EOL        |
|-------------|------------|------------|
| SP          | 15023      | 15545      |
| Date        | 12/05/2024 | 12/06/2024 |
| Time UTC    | 22:13      | 02:31      |
| Volume      | 6600 in3   | 6600 in3   |
| Wind        | SE 15 kts  | SE 9.6 kts |
| Sea State   | 1 m        | 1 m        |
| Water Depth | 3690 m     | 3561.8 m   |

| Abbreviations                 |
|-------------------------------|
| SOL/EOL: Start/End of Line    |
| FGSP/LGSP: First/Last Good SP |
| SnGm: array/string n, gun m   |

| Dead/bad channels  |
|--|
| 37,69,89,90,97,121,145,146,156,169,191,193,217,271,369,537,573,620,624,776,837,853,885,1072,1076,1177,1185 |

| General / Line Comments   |
|---|
| NFH 1-2 and 2-1 disabled  |
| Incomplete shots/files because of telemetry failure: SP 15412-15416 (FFID 10-750-10754) |
| Missed shots while troubleshooting streamer: 15417-15470                                |
|   |
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|            |                                 |
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| PI         | Dan Lizarralde                  |
| Area       | Chain Transform Fault OBS & MCS |
| Job Number | MGL2411                         |

|                 |              |               |
|-----------------|--------------|---------------|
| Shift           | 00:00-12:00  | 12:00-24:00   |
| Science Officer | Cody Bahlau  |               |
| Acquisition     | Riley Lopez  | Gilles Guérin |
| Navigation      | Aaron Martin | Cody Bahlau   |

|           |                 |
|-----------|-----------------|
| LINE      | MGL2411012D08P1 |
| SEQUENCE  | 12              |
| DIRECTION | 344.8           |

|     |       |       |          |
|-----|-------|-------|----------|
|     | SP#   | FFID  | Raw SegD |
| SOL | 18019 | 12675 | NA       |
| EOL | 19370 | 14025 | NA       |

| Streamer Parameters     |       |   |   |   |
|-------------------------|-------|---|---|---|
|                         | 1     | 2 | 3 | 4 |
| Length (m)              | 15000 |   |   |   |
| Auxiliaries             | 28    |   |   |   |
| Shotpoint Interval: (m) | 50    |   |   |   |
| Offset COS - CNG (m)    | 178.2 |   |   |   |
| Group Interval: (m)     | 12.5  |   |   |   |
| Number of channels      | 1200  |   |   |   |
| Streamer Depth (m)      | 12    |   |   |   |

| Source Parameters    |                    |
|----------------------|--------------------|
| Total Volume         | Bolt Guns 6600 in3 |
| Work Pressure        | 1900psi +/- 100psi |
| Dual Source          | no                 |
| Depth                | 12                 |
| Sub-array Separation | 6                  |
| COS to COS           | Single Source      |

| Recording Parameters  |                     |
|-----------------------|---------------------|
| Record Length         | 20                  |
| Total recording delay | 0                   |
| Sample Rate           | 2 ms                |
| Polarity              | SEGD standard       |
| Low-Cut               | 3Hz analog          |
| Hi-Cut                | 200Hz, 270dB/octave |
| File Format           | SEGD                |

| Description | SOL        | EOL        |
|-------------|------------|------------|
| SP          | 18019      | 19370      |
| Date        | 12/06/2024 | 12/07/2024 |
| Time UTC    | 16:43      | 02:26      |
| Volume      | 6600 in3   | 6600 in3   |
| Wind        | SE 7 kts   | SE 12 kts  |
| Sea State   | 1 m        | 1 m        |
| Water Depth | 3810 m     | 3505 m     |

| Abbreviations                 |
|-------------------------------|
| SOL/EOL: Start/End of Line    |
| FGSP/LGSP: First/Last Good SP |
| SnGm: array/string n, gun m   |

| Dead/bad channels  |
|--|
| 37,69,89,90,97,121,145,146,156,169,191,193,217,229,271,369,537,573,620,624,776,837,853,885,1072,1076,1177,1185 |

| General / Line Comments                                       |
|---|
| NFH 1-2 and 2-1 disabled                                      |
| Several shots with missing traces because of looped telemetry |
| SP 18373 missed while pausing acquisition                     |
|   |
|   |
|   |
|   |
|   |

| <b>Time UTC</b> | <b>FFID</b> | <b>SP</b> | <b>Description</b>                       |
|-----------------|-------------|-----------|--|
| 16:43           | 12675       | 18019     | SOL MGL2411012D08P1 - 36 Guns - 6600 in3 |
| 19:03           | 13018       | 18362     | 60 traces missing                        |
| 19:04           | 13019       | 18363     | 60 traces missing                        |
| 19:04           | 13020       | 18364     | 60 traces missing                        |
| 19:04           | 13021       | 18365     | 60 traces missing                        |
| 19:05           | 13022       | 18366     | 60 traces missing                        |
| 19:05           | 13023       | 18367     | 60 traces missing                        |
| 19:06           | 13024       | 18368     | 60 traces missing                        |
| 19:06           | 13025       | 18369     | 168 traces missing                       |
| 19:06           | 13026       | 18370     | 168 traces missing                       |
| 19:07           | 13027       | 18371     | 60 traces missing                        |
| 19:08           |             | 18373     | Missed shot while pausing acquisition    |
| 19:46           | 13117       | 18462     | 60 traces missing                        |
| 19:46           | 13119       | 18464     | 60 traces missing                        |
| 23:59           | 13694       | 19039     | Last shot, 12/6/2024                     |
| 02:26           | 14025       | 19370     | EOL MGL2411012D08P1 - 36 Guns - 6600 in3 |
|                 |             |           |  |
|                 |             |           |  |
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|                 |             |           |  |
|                 |             |           |  |

























# Observers Log

|            |                                 |
|------------|---------------------------------|
| Vessel     | Marcus G. Langseth              |
| PI         | Dan Lizarralde                  |
| Area       | Chain Transform Fault OBS & MCS |
| Job Number | MGL2411                         |

|                 |              |               |
|-----------------|--------------|---------------|
| Shift           | 00:00-12:00  | 12:00-24:00   |
| Science Officer | Cody Bahlau  |               |
| Acquisition     | Riley López  | Gilles Guérin |
| Navigation      | Aaron Martin | Cody Bahlau   |

|           |                 |
|-----------|-----------------|
| LINE      | MGL2411019T1112 |
| SEQUENCE  | 19              |
| DIRECTION | 75.8            |

|     |       |       |          |
|-----|-------|-------|----------|
|     | SP#   | FFID  | Raw SegD |
| SOL | 28030 | 19506 | NA       |
| EOL | 28344 | 19820 | NA       |

| Streamer Parameters     |       |   |   |   |
|-------------------------|-------|---|---|---|
|                         | 1     | 2 | 3 | 4 |
| Length (m)              | 15000 |   |   |   |
| Auxiliaries             | 28    |   |   |   |
| Shotpoint Interval: (m) | 50    |   |   |   |
| Offset COS - CNG (m)    | 178.2 |   |   |   |
| Group Interval: (m)     | 12.5  |   |   |   |
| Number of channels      | 1200  |   |   |   |
| Streamer Depth (m)      | 12    |   |   |   |

| Source Parameters    |                    |
|----------------------|--------------------|
| Total Volume         | Bolt Guns 6600 in3 |
| Work Pressure        | 1900psi +/- 100psi |
| Dual Source          | no                 |
| Depth                | 12                 |
| Sub-array Separation | 6                  |
| COS to COS           | Single Source      |

| Recording Parameters  |                     |
|-----------------------|---------------------|
| Record Length         | 20                  |
| Total recording delay | 0                   |
| Sample Rate           | 2 ms                |
| Polarity              | SEGD standard       |
| Low-Cut               | 3Hz analog          |
| Hi-Cut                | 200Hz, 270dB/octave |
| File Format           | SEGD                |

| Description | SOL        | EOL        |
|-------------|------------|------------|
| SP          | 28030      | 28344      |
| Date        | 12/09/2024 | 12/09/2024 |
| Time UTC    | 00:04      | 02:41      |
| Volume      | 6600 in3   | 6600 in3   |
| Wind        | SE 15 kts  | SE 15 kts  |
| Sea State   | 1.5 m      | 1.5 m      |
| Water Depth | 3510 m     | 3315 m     |

| Abbreviations                 |
|-------------------------------|
| SOL/EOL: Start/End of Line    |
| FGSP/LGSP: First/Last Good SP |
| SnGm: array/string n, gun m   |

| Dead/bad channels  |
|--|
| 37,69,89,90,97,121,145,146,156,169,191,193,217,229,271,369,537,573,620,624,776,837,853,885,1072,1076,1177,1185 |

| General / Line Comments  |
|--|
| NFH 1-2 and 2-1 disabled   |
| Line aborted after engine failure and loss of power                    |
| Orca triggered SP 28345, but Seal was interrupted during its recording |
|  |
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| Time UTC | FFID  | SP    | Description  |
|----------|-------|-------|--|
| 00:04    | 19506 | 28030 | SOL MGL2411019T1112 - 36 Guns - 6600 in3               |
| 02:41    | 19820 | 23844 | EOL MGL2411019T1112 - 36 Guns - 6600 in3               |
|          |       |       | Early end of line because of engine and power failures |
|          |       |       |  |
|          |       |       |  |
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# Observers Log

|            |                                 |
|------------|---------------------------------|
| Vessel     | Marcus G. Langseth              |
| PI         | Dan Lizarralde                  |
| Area       | Chain Transform Fault OBS & MCS |
| Job Number | MGL2411                         |

|                 |              |               |
|-----------------|--------------|---------------|
| Shift           | 00:00-12:00  | 12:00-24:00   |
| Science Officer | Cody Bahlau  |               |
| Acquisition     | Riley López  | Gilles Guérin |
| Navigation      | Aaron Martin | Cody Bahlau   |

|           |                 |
|-----------|-----------------|
| LINE      | MGL2411020D13P1 |
| SEQUENCE  | 20              |
| DIRECTION | 344.8           |

|     |       |       |          |
|-----|-------|-------|----------|
|     | SP#   | FFID  | Raw SegD |
| SOL | 29588 | 19821 | NA       |
| EOL | 31394 | 21627 | NA       |

| Streamer Parameters     |       |   |   |   |
|-------------------------|-------|---|---|---|
|                         | 1     | 2 | 3 | 4 |
| Length (m)              | 15000 |   |   |   |
| Auxiliaries             | 28    |   |   |   |
| Shotpoint Interval: (m) | 50    |   |   |   |
| Offset COS - CNG (m)    | 178.2 |   |   |   |
| Group Interval: (m)     | 12.5  |   |   |   |
| Number of channels      | 1200  |   |   |   |
| Streamer Depth (m)      | 12    |   |   |   |

| Source Parameters    |                    |
|----------------------|--------------------|
| Total Volume         | Bolt Guns 6600 in3 |
| Work Pressure        | 1900psi +/- 100psi |
| Dual Source          | no                 |
| Depth                | 12                 |
| Sub-array Separation | 6                  |
| COS to COS           | Single Source      |

| Recording Parameters  |                     |
|-----------------------|---------------------|
| Record Length         | 20                  |
| Total recording delay | 0                   |
| Sample Rate           | 2 ms                |
| Polarity              | SEGD standard       |
| Low-Cut               | 3Hz analog          |
| Hi-Cut                | 200Hz, 270dB/octave |
| File Format           | SEGD                |

| Description | SOL         | EOL        |
|-------------|-------------|------------|
| SP          | 29588       | 31394      |
| Date        | 12/10/2024  | 12/10/2024 |
| Time UTC    | 04:41       | 17:20      |
| Volume      | 6600 in3    | 4950 in3   |
| Wind        | SE 12.4 kts | SE 8 kts   |
| Sea State   | 1 m         | 1 m        |
| Water Depth | 3276.1 m    | 3870 m     |

| Abbreviations                 |
|-------------------------------|
| SOL/EOL: Start/End of Line    |
| FGSP/LGSP: First/Last Good SP |
| SnGm: array/string n, gun m   |

| Dead/bad channels   |
|---|
| 37,61,69,97,121,145,156,169,191,193,217,229,271,369,537,573,620,624,776,837,853,885,1072,1076,1177,1185 |

| General / Line Comments   |
|---|
| NFH 1-2 and 2-1 disabled  |
| S3G8 started autofiring @ SP 31268  |
| Array 3 disabled for recovery after SP 31276 - 27 guns - 4950in3 for the rest of the sequence |
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# Observers Log

|            |                                 |
|------------|---------------------------------|
| Vessel     | Marcus G. Langseth              |
| PI         | Dan Lizarralde                  |
| Area       | Chain Transform Fault OBS & MCS |
| Job Number | MGL2411                         |

|                 |              |               |
|-----------------|--------------|---------------|
| Shift           | 00:00-12:00  | 12:00-24:00   |
| Science Officer | Cody Bahlau  |               |
| Acquisition     | Riley López  | Gilles Guérin |
| Navigation      | Aaron Martin | Cody Bahlau   |

|           |                 |
|-----------|-----------------|
| LINE      | MGL2411021T1312 |
| SEQUENCE  | 21              |
| DIRECTION | 255.8           |

|     |       |       |          |
|-----|-------|-------|----------|
|     | SP#   | FFID  | Raw SegD |
| SOL | 32157 | 21628 | NA       |
| EOL | 32423 | 21892 | NA       |

| Streamer Parameters     |       |   |   |   |
|-------------------------|-------|---|---|---|
|                         | 1     | 2 | 3 | 4 |
| Length (m)              | 15000 |   |   |   |
| Auxiliaries             | 28    |   |   |   |
| Shotpoint Interval: (m) | 50    |   |   |   |
| Offset COS - CNG (m)    | 178.2 |   |   |   |
| Group Interval: (m)     | 12.5  |   |   |   |
| Number of channels      | 1200  |   |   |   |
| Streamer Depth (m)      | 12    |   |   |   |

| Source Parameters    |                    |
|----------------------|--------------------|
| Total Volume         | Bolt Guns 6600 in3 |
| Work Pressure        | 1900psi +/- 100psi |
| Dual Source          | no                 |
| Depth                | 12                 |
| Sub-array Separation | 6                  |
| COS to COS           | Single Source      |

| Recording Parameters  |                     |
|-----------------------|---------------------|
| Record Length         | 20                  |
| Total recording delay | 0                   |
| Sample Rate           | 2 ms                |
| Polarity              | SEGD standard       |
| Low-Cut               | 3Hz analog          |
| Hi-Cut                | 200Hz, 270dB/octave |
| File Format           | SEGD                |

| Description | SOL        | EOL        |
|-------------|------------|------------|
| SP          | 32157      | 32423      |
| Date        | 12/10/2024 | 12/10/2024 |
| Time UTC    | 17:58      | 19:35      |
| Volume      | 4950 in3   | 6600 in3   |
| Wind        | SE 10 kts  | SE 12 kts  |
| Sea State   | 1 m        | 1 m        |
| Water Depth | 3700 m     | 3720 m     |

| Abbreviations                 |
|-------------------------------|
| SOL/EOL: Start/End of Line    |
| FGSP/LGSP: First/Last Good SP |
| SnGm: array/string n, gun m   |

| Dead/bad channels   |
|---|
| 37,61,69,97,121,145,146,156,169,191,193,217,229,271,369,537,573,620,624,776,837,853,885,1072,1076,1177,1185 |

| General / Line Comments  |
|--|
| NFH 1-2 and 2-1 disabled   |
| Array 3 disabled and onboard at start of line - 27 guns - 4950 in3 |
| Array 3 enabled at SP 32366 - 36 guns 6600 in3 for rest of line    |
|  |
|  |
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# Observers Log

|            |                                 |
|------------|---------------------------------|
| Vessel     | Marcus G. Langseth              |
| PI         | Dan Lizarralde                  |
| Area       | Chain Transform Fault OBS & MCS |
| Job Number | MGL2411                         |

|                 |              |               |
|-----------------|--------------|---------------|
| Shift           | 00:00-12:00  | 12:00-24:00   |
| Science Officer | Cody Bahlau  |               |
| Acquisition     | Riley López  | Gilles Guérin |
| Navigation      | Aaron Martin | Cody Bahlau   |

|           |                 |
|-----------|-----------------|
| LINE      | MGL2411025D06P2 |
| SEQUENCE  | 25              |
| DIRECTION | 165.8           |

|     |       |       |          |
|-----|-------|-------|----------|
|     | SP#   | FFID  | Raw SegD |
| SOL | 40773 | 26081 | NA       |
| EOL | 41376 | 26682 | NA       |

| Streamer Parameters     |       |   |   |   |
|-------------------------|-------|---|---|---|
|                         | 1     | 2 | 3 | 4 |
| Length (m)              | 15000 |   |   |   |
| Auxiliaries             | 28    |   |   |   |
| Shotpoint Interval: (m) | 50    |   |   |   |
| Offset COS - CNG (m)    | 178.2 |   |   |   |
| Group Interval: (m)     | 12.5  |   |   |   |
| Number of channels      | 1200  |   |   |   |
| Streamer Depth (m)      | 12    |   |   |   |

| Source Parameters    |                    |
|----------------------|--------------------|
| Total Volume         | Bolt Guns 6600 in3 |
| Work Pressure        | 1900psi +/- 100psi |
| Dual Source          | no                 |
| Depth                | 12                 |
| Sub-array Separation | 6                  |
| COS to COS           | Single Source      |

| Recording Parameters  |                     |
|-----------------------|---------------------|
| Record Length         | 20                  |
| Total recording delay | 0                   |
| Sample Rate           | 2 ms                |
| Polarity              | SEGD standard       |
| Low-Cut               | 3Hz analog          |
| Hi-Cut                | 200Hz, 270dB/octave |
| File Format           | SEGD                |

| Description | SOL         | EOL         |
|-------------|-------------|-------------|
| SP          | 40773       | 41376       |
| Date        | 12/12/2024  | 12/12/2024  |
| Time UTC    | 03:03       | 07:00       |
| Volume      | 6600 in3    | 3300 in3    |
| Wind        | SE 15.2 kts | SE 14.2 kts |
| Sea State   | 1 m         | 1 m         |
| Water Depth | 5435.9 m    | 4001.9 m    |

| Abbreviations                 |
|-------------------------------|
| SOL/EOL: Start/End of Line    |
| FGSP/LGSP: First/Last Good SP |
| SnGm: array/string n, gun m   |

| Dead/bad channels   |
|---|
| 37,61,69,97,121,145,156,169,191,193,217,229,271,369,537,573,620,624,776,837,853,885,1072,1076,1177,1185 |

| General / Line Comments                                   |
|---|
| NFH 1-2 and 2-1 disabled                                  |
| Disabled strings 1 & 2 @ SP 41365 due leadin entanglement |
|   |
|   |
|   |
|   |
|   |







# Observers Log

|            |                                 |
|------------|---------------------------------|
| Vessel     | Marcus G. Langseth              |
| PI         | Dan Lizarralde                  |
| Area       | Chain Transform Fault OBS & MCS |
| Job Number | MGL2411                         |

|                 |              |               |
|-----------------|--------------|---------------|
| Shift           | 00:00-12:00  | 12:00-24:00   |
| Science Officer | Cody Bahlau  |               |
| Acquisition     | Riley López  | Gilles Guérin |
| Navigation      | Aaron Martin | Cody Bahlau   |

|           |                  |
|-----------|------------------|
| LINE      | MGL2411027D05BP2 |
| SEQUENCE  | 27               |
| DIRECTION | 345.8            |

|     |       |       |          |
|-----|-------|-------|----------|
|     | SP#   | FFID  | Raw SegD |
| SOL | 43028 | 27148 | NA       |
| EOL | 44384 | 28504 | NA       |

| Streamer Parameters     |       |   |   |   |
|-------------------------|-------|---|---|---|
|                         | 1     | 2 | 3 | 4 |
| Length (m)              | 15000 |   |   |   |
| Auxiliaries             | 28    |   |   |   |
| Shotpoint Interval: (m) | 50    |   |   |   |
| Offset COS - CNG (m)    | 178.2 |   |   |   |
| Group Interval: (m)     | 12.5  |   |   |   |
| Number of channels      | 1200  |   |   |   |
| Streamer Depth (m)      | 12    |   |   |   |

| Source Parameters    |                    |
|----------------------|--------------------|
| Total Volume         | Bolt Guns 6600 in3 |
| Work Pressure        | 1900psi +/- 100psi |
| Dual Source          | no                 |
| Depth                | 12                 |
| Sub-array Separation | 6                  |
| COS to COS           | Single Source      |

| Recording Parameters  |                     |
|-----------------------|---------------------|
| Record Length         | 20                  |
| Total recording delay | 0                   |
| Sample Rate           | 2 ms                |
| Polarity              | SEGD standard       |
| Low-Cut               | 3Hz analog          |
| Hi-Cut                | 200Hz, 270dB/octave |
| File Format           | SEGD                |

| Description | SOL        | EOL        |
|-------------|------------|------------|
| SP          | 43028      | 44384      |
| Date        | 12/12/2024 | 12/12/2024 |
| Time UTC    | 10:30      | 20:07      |
| Volume      | 3300 in3   | 6600 in3   |
| Wind        | SE 12 kts  | SE 10 kts  |
| Sea State   | 1 m        | 1 m        |
| Water Depth | 3877.5 m   | 3555 m     |

| Abbreviations                 |
|-------------------------------|
| SOL/EOL: Start/End of Line    |
| FGSP/LGSP: First/Last Good SP |
| SnGm: array/string n, gun m   |

| Dead/bad channels   |
|---|
| 37,61,69,97,121,145,156,169,191,193,217,229,271,369,537,573,620,624,776,837,853,885,1072,1076,1177,1185 |

| General / Line Comments                                |
|--|
| NFH 1-2 and 2-1 disabled                               |
| Arrays 1 and 2 disabled at SOL. Enabled after SP 43035 |
| Turn/Trim noise visible making its way down cable      |
|  |
|  |
|  |
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# Observers Log

|            |                                 |
|------------|---------------------------------|
| Vessel     | Marcus G. Langseth              |
| PI         | Dan Lizarralde                  |
| Area       | Chain Transform Fault OBS & MCS |
| Job Number | MGL2411                         |

|                 |              |               |
|-----------------|--------------|---------------|
| Shift           | 00:00-12:00  | 12:00-24:00   |
| Science Officer | Cody Bahlau  |               |
| Acquisition     | Riley López  | Gilles Guérin |
| Navigation      | Aaron Martin | Cody Bahlau   |

|           |                  |
|-----------|------------------|
| LINE      | MGL2411032T23BP1 |
| SEQUENCE  | 32               |
| DIRECTION | 75.8             |

|     |       |       |          |
|-----|-------|-------|----------|
|     | SP#   | FFID  | Raw SegD |
| SOL | 53023 | 33309 | NA       |
| EOL | 53379 | 33665 | NA       |

| Streamer Parameters     |       |   |   |   |
|-------------------------|-------|---|---|---|
|                         | 1     | 2 | 3 | 4 |
| Length (m)              | 15000 |   |   |   |
| Auxiliaries             | 28    |   |   |   |
| Shotpoint Interval: (m) | 50    |   |   |   |
| Offset COS - CNG (m)    | 178.2 |   |   |   |
| Group Interval: (m)     | 12.5  |   |   |   |
| Number of channels      | 1200  |   |   |   |
| Streamer Depth (m)      | 12    |   |   |   |

| Source Parameters    |                    |
|----------------------|--------------------|
| Total Volume         | Bolt Guns 6600 in3 |
| Work Pressure        | 1900psi +/- 100psi |
| Dual Source          | no                 |
| Depth                | 12                 |
| Sub-array Separation | 6                  |
| COS to COS           | Single Source      |

| Recording Parameters  |                     |
|-----------------------|---------------------|
| Record Length         | 20                  |
| Total recording delay | 0                   |
| Sample Rate           | 2 ms                |
| Polarity              | SEGD standard       |
| Low-Cut               | 3Hz analog          |
| Hi-Cut                | 200Hz, 270dB/octave |
| File Format           | SEGD                |

| Description | SOL         | EOL        |
|-------------|-------------|------------|
| SP          | 53023       | 53379      |
| Date        | 12/14/2024  | 12/14/2024 |
| Time UTC    | 06:14       | 09:01      |
| Volume      | 6420 in3    | 6200 in3   |
| Wind        | SE 11.8 kts | SE 14 kts  |
| Sea State   | 1 m         | 1 m        |
| Water Depth | 4326.3 m    | 3061.6 m   |

| Abbreviations                 |
|-------------------------------|
| SOL/EOL: Start/End of Line    |
| FGSP/LGSP: First/Last Good SP |
| SnGm: array/string n, gun m   |

| Dead/bad channels   |
|---|
| 37,61,69,97,121,145,156,169,191,193,217,229,271,369,537,573,620,624,776,837,853,885,1072,1076,1177,1185 |

| General / Line Comments                           |
|---|
| NFH 1-2 and 2-1 disabled                          |
| S2G4 disabled - Nominal volume 35 guns - 6420 in3 |
| S3G8 disabled after SP 53117 - 34 Guns - 6200 in3 |
|   |
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| <b>Time UTC</b> | <b>FFID</b> | <b>SP</b> | <b>Description</b>  |
|-----------------|-------------|-----------|---|
| 09:08:17        | 33666       | 60392     | SOL MGL2411033TEST - 35 Guns - 6420 in3                           |
| 09:10:42        | 33671       | 60397     | 90 in3 - 1 Gun S2G5   |
| 09:13:08        | 33676       | 60402     | 2 Guns - 180 in3 Guns 2-5 and 3-5                                 |
| 09:13:38        | 33677       | 60403     | 90 in3 - 1 Gun S3G5   |
| 09:16:05        | 33682       | 60408     | 450 in3 - 2 guns S2G1 & S3G5                                      |
| 09:16:34        | 33683       | 60409     | 720 in3 - 2 guns S2G1 & S2G2                                      |
| 09:19:02        | 33688       | 60414     | 720 in3 - 2 guns S3G1 & S3G2                                      |
| 09:22:00        | 33694       | 60420     | 360 in3 - 1 guns Gun 3-2  |
| 09:22:29        | 33695       | 60421     | 440 in3 - 2 guns S2G8 & S2G9                                      |
| 09:24:56        | 33701       | 60427     | 440 in3 - 2 guns S3G8 & S3G9                                      |
| 09:28:51        | 33708       | 60434     | 1650 in3 - String 3 Enabled - 9 guns                              |
| 09:29:21        | 33709       | 60435     | 3300 in3 - 18 guns Strings 2 and 3 enabled                        |
| 09:29:50        | 33710       | 60436     | 4550 in3 - 25 guns Strings 1,2 and 3 enabled;S2G4 & S3G8 Disabled |
| 09:30:49        | 33712       | 60438     | 6200 in3 - 34 guns Guns S2G4 & S3G8 Disabled                      |
| 09:32:18        | 33715       | 60441     | 3080 in3 - 17 guns String 3 & 4 enabled;S3G8 Disabled             |
| 09:32:47        | 33716       | 60442     | 90 in3 - 1 gun S3G5   |
| 09:35:45        | 33722       | 60448     | Last shot before stopping and reconfiguring acquisition           |
|                 |             |           | Changing filter in Seal from Linear to Minimum Phase              |
| 09:44:06        | 33723       | 60465     | 90 in3 - 1 gun S3G5   |
| 09:48:29        | 33732       | 60474     | 6200 in3 - 34 guns  |
| 09:51:39        | 33738       | 60480     | 6200 in3 - 34 guns - Internal Cycling                             |
| 09:54:19        | 33746       | 60488     | 90 in3 - 1 gun - S3G5 - Internal Cycling                          |
| 09:56:19        | 33752       | 60494     | EOL MGL2411033TEST - 1 gun 90 in3                                 |