| | Vessel | Langseth |
|--|------------|----------------|
| | Client | Gulick LDEO |
| | Area | Gulf of Alaska |
| | Job Number | MGL0814 |

| | SOL | EOL | | |
|--------|-----|------|------|------|
| Tape # | 1 | 2 | FGSP | 711 |
| SP# | 711 | 2510 | LGSP | 2510 |

| Streamer Parameters | | | | |
|---------------------|------|---|---|---|
| | 1 | 2 | 3 | 4 |
| Length | 8000 | | | |
| Auxiliaries | | | | |
| Shotpoint Interval: | 50 | | | |
| Offset CS - CFG | | | | |
| Group Interval: | | | | |
| Number of channels | 636 | | | |
| SOL Cable Noise, µB | | • | | |
| EOL Cable Noise, µB | | | | |

| Party Chief | B McKiernan |
|---------------|-------------|
| Ch. Observer | B McKiernan |
| Sen. Observer | |
| Observers | |

| Line | STEEP09 |
|-----------|---------|
| Sequence | 001 |
| Direction | 348 |

| Source Parameters | | |
|-----------------------|--------------------|--|
| Total Volume 6600/in3 | | |
| Work Pressure | 2000psi +/- 100psi | |
| Dual Source | no | |
| Depth | 9m | |
| Source Separation | 9m | |
| Center Source to | | |
| Nav. Antenna | | |

| Recording Parameters | | |
|-----------------------|--------------|--|
| Record Length 16s | | |
| Total recording delay | 0 | |
| Sample Rate | 2ms | |
| Polarity | | |
| Low-Cut | 2Hz /12DB | |
| Hi-Cut | 206Hz/276 DB | |
| Tape Format | SEGD rev. 1 | |

| SOL/FQCSP | EOL/LQCSP | |
|------------|--|--|
| | | |
| 16/09/2008 | 17/09/08 | |
| 19:15 | 06:04 | |
| s1 6600 | s1 6600 | |
| 9 | 9 | |
| 20 | 20 | |
| 6-9 | 6-9 | |
| 3411 | 248 | |
| | 16/09/2008 19:15 s1 6600 9 20 6-9 | |

| Cable | Erased Channels | Noisy/Weak Channels |
|-------|-----------------|---------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| | | Dua Maria Continui |

ProMax - QC the above channels

| Auxiliaries | | |
|--------------------------------|-------|--|
| Aux. 1-8 | Empty | |
| Aux. 13-16 | Empty | |
| | | |
| | | |
| Aux 9 Gun hydrophone | Empty | |
| Aux 10 Gun hydrophone | Empty | |
| Aux 11 Gun hydrophone | Empty | |
| Aux 12 Gun hydrophone | Empty | |
| Aux. 16: Port Outer hydrophone | | |

General / Line Comments

1936 MMO sighting - powerdown - shots missed 783 - 785

1954 Ramp up begin. Missed shots 836-839

1956 Missed shots 842-845

2017 End ramp up. First good shot 911

0035 Birds 8-10 and 17--20 above depth; depths reset to 10 m and then 9 m to readjust birds. Wing angles were 15.0 - 15.1.

0038 Birds readjusted to proper depth (9 m +/-)

0042 Changed to reel 2; first good shot 967

0351 Changed gun on string 1 from S1G04 to S1G05 because of misfires. Missed shots 2137 and 2154

| Ab | breviations |
|-----------------------------|----------------------------|
| | |
| SOL/EOL - Start/End of Line | LGSP - Last Good SP |
| FGSP- First Good SP | LCSP - Last Chargable SP |
| FCSP - First Chargable SP | LFFSP - Last Full Fold SP |
| FOLSP - First Overlap SP | Fa - Feather Angle |
| BOT/EOT - Begin/End of Tape | SI - Seismic Interference |
| NDR - No Data Recorded | ITB - Imitation Time Break |
| NDR - No Data Recorded | ITB - Internal Time Break |
| N.T.B.P Not To Be Processed | |

Line Status:

| Time UTC | FILE | SP | Tape | Description |
|----------|------|------|------|---------------------------------|
| 0337 | 1417 | 2137 | 02 | No fire error S1G04. |
| | 1418 | 2138 | 02 | No fire error \$1G04. |
| | 1419 | 2139 | 02 | No fire error S1G04. |
| | 1420 | 2140 | 02 | No fire error S1G04. |
| | 1421 | 2141 | 02 | No fire error S1G04. |
| | 1422 | 2142 | 02 | No fire error S1G04. |
| | 1423 | 2143 | 02 | No fire error S1G04. |
| | 1424 | 2144 | 02 | No fire error S1G04. |
| | 1425 | 2145 | 02 | No fire error S1G04. |
| | 1426 | 2146 | 02 | No fire error S1G04. |
| | 1427 | 2147 | 02 | No fire error S1G04. |
| | 1428 | 2148 | 02 | No fire error S1G04. |
| | 1429 | 2149 | 02 | No fire error S1G04. |
| | 1430 | 2150 | 02 | No fire error S1G04. |
| | 1431 | 2151 | 02 | No fire error S1G04. |
| | 1432 | 2152 | 02 | No fire error S1G04. |
| | 1433 | 2153 | 02 | No fire error S1G04. |
| 0341 | 1434 | 2154 | 02 | Changed to gun S1G05. |
| 0441 | 1572 | 2292 | 02 | Delta timing at 2.2 ms on S1G32 |
| 0535 | 1613 | 2433 | 02 | No fire error \$1G18. |
| 0536 | 1617 | 2437 | 02 | No fire error S1G18. |
| 0547 | 1750 | 2464 | 02 | No fire error S1G18. |
| 0553 | 1765 | 2480 | 02 | No fire error S1G18. |
| 0553 | 1765 | 2480 | 02 | No fire error S1G17. |
| 0558 | 1781 | 2495 | 02 | No fire error S1G18. |
| 0559 | 1784 | 2498 | 02 | No fire error S1G18. |
| 0604 | 1796 | 2510 | 02 | Delta timing at 3.5 ms on S1G19 |
| 0604 | 1796 | 2510 | 02 | Delta timing at 3.9 ms on S1G24 |
| | | | | |
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| Vessel | Langseth |
|------------|----------------|
| Client | Gulick LDEO |
| Area | Gulf of Alaska |
| Job Number | MGL0814 |

| | SOL | EOL | | |
|--------|------|------|------|------|
| Tape # | 3 | 3 | FGSP | 996 |
| SP# | 0996 | 1585 | LGSP | 1585 |

| Streamer Parameters | | | | | |
|---------------------|------|--|--|--|--|
| 1 2 3 4 | | | | | |
| Length | 8000 | | | | |
| Auxiliaries | | | | | |
| Shotpoint Interval: | 50 | | | | |
| Offset CS - CFG | | | | | |
| Group Interval: | | | | | |
| Number of channels | 636 | | | | |
| SOL Cable Noise, µB | | | | | |
| EOL Cable Noise, μB | | | | | |

| Party Chief | B McKiernan |
|---------------|-------------|
| Ch. Observer | B McKiernan |
| Sen. Observer | |
| Observers | |

| Line | STEEP15 |
|-----------|---------|
| Sequence | 002 |
| Direction | 258 |

| Source Parameters | | |
|-------------------|--------------------|--|
| Total Volume | 6600/in3 | |
| Work Pressure | 2000psi +/- 100psi | |
| Dual Source | no | |
| Depth | 9m | |
| Source Separation | 9m | |
| Center Source to | | |
| Nav. Antenna | | |

| Recording Parameters | | | |
|-----------------------|--------------|--|--|
| Record Length | 16s | | |
| Total recording delay | 0 | | |
| Sample Rate | 2ms | | |
| Polarity | | | |
| Low-Cut | 2Hz /12DB | | |
| Hi-Cut | 206Hz/276 DB | | |
| Tape Format | SEGD rev. 1 | | |

| Description | SOL/FQCSP | EOL/LQCSP |
|--------------------|------------|-----------|
| FSID | | |
| Date dd/mm/yy | 17/09/2008 | 17/09/08 |
| Time UTC | 06:49 | 1004 |
| Volume (cu in.) | s1 6600 | s1 6600 |
| Streamer Depth (m) | 9 | 9 |
| Wind (kts) | 20 | 20 |
| Sea State (ft) | 6 - 9 | 6-9 |
| Water Depth (m) | 218 | 143 |

| Cable | Erased Channels | Noisy/Weak Channels |
|-------|-----------------|---------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| | | D 14 |

| Auxiliaries | | |
|--------------------------------|-------|---|
| Aux. 1-8 | Empty | |
| Aux. 13-16 | Empty | |
| | | |
| | | |
| Aux 9 Gun hydrophone | Empty | |
| Aux 10 Gun hydrophone | Empty | |
| Aux 11 Gun hydrophone | Empty | |
| Aux 12 Gun hydrophone | Empty | |
| Aux. 16: Port Outer hydrophone | | • |

| General / Line Comments | | | |
|-------------------------|------|--|--|
| | | | |
| No events | | | |
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| Abbreviations | | |
|-----------------------------|----------------------------|--|
| | | |
| SOL/EOL - Start/End of Line | LGSP - Last Good SP | |
| FGSP- First Good SP | LCSP - Last Chargable SP | |
| FCSP - First Chargable SP | LFFSP - Last Full Fold SP | |
| FOLSP - First Overlap SP | Fa - Feather Angle | |
| BOT/EOT - Begin/End of Tape | SI - Seismic Interference | |
| NDR - No Data Recorded | ITB - Imitation Time Break | |
| NDR - No Data Recorded | ITB - Internal Time Break | |
| N.T.B.P Not To Be Processed | | |

| Vessel | Langseth |
|------------|----------------|
| Client | Gulick LDEO |
| Area | Gulf of Alaska |
| Job Number | MGL0814 |

| | SOL | EOL | | |
|--------|------|------|------|------|
| Tape # | 4 | 6 | FGSP | 1007 |
| SP# | 1007 | 3727 | LGSP | 3727 |

| Streamer Parameters | | | | |
|---------------------|------|---|---|---|
| | 1 | 2 | 3 | 4 |
| Length | 8000 | | | |
| Auxiliaries | | | | |
| Shotpoint Interval: | 50 | | | |
| Offset CS - CFG | | | | |
| Group Interval: | | | | |
| Number of channels | 636 | | | |
| SOL Cable Noise, µB | | | | |
| EOL Cable Noise, µB | | | | |

| Party Chief | B McKiernan |
|---------------|-------------|
| Ch. Observer | B McKiernan |
| Sen. Observer | |
| Observers | |

| Line | STEEP13 |
|-----------|---------|
| Sequence | 003 |
| Direction | 195 |

| Source Parameters | | |
|-------------------|--------------------|--|
| Total Volume | 6600/in3 | |
| Work Pressure | 2000psi +/- 100psi | |
| Dual Source | no | |
| Depth | 9m | |
| Source Separation | 9m | |
| Center Source to | | |
| Nav. Antenna | | |

| Record Length 16s Total recording delay 0 Sample Rate 2ms Polarity Low-Cut Low-Cut 2Hz /12DB Hi-Cut 206Hz/276 DB Tape Format SEGD rev. 1 | Recording | Recording Parameters | |
|--|-----------------------|----------------------|--|
| Sample Rate 2ms Polarity 2Hz /12DB Low-Cut 2Hz/276 DB | Record Length | 16s | |
| Polarity 2Hz /12DB Low-Cut 2Hz/276 DB | Total recording delay | 0 | |
| Low-Cut 2Hz /12DB Hi-Cut 206Hz/276 DB | Sample Rate | 2ms | |
| Hi-Cut 206Hz/276 DB | Polarity | | |
| | Low-Cut | 2Hz /12DB | |
| Tape Format SEGD rev. 1 | Hi-Cut | 206Hz/276 DB | |
| | Tape Format | SEGD rev. 1 | |

| Description | SOL/FQCSP | EOL/LQCSP |
|--------------------|-----------|-----------|
| FSID | | |
| Date dd/mm/yy | 17/09/08 | 18/09/08 |
| Time UTC | 1016 | 0253 |
| Volume (cu in.) | s1 6600 | s1 6560 |
| Streamer Depth (m) | 9 | 9 |
| Wind (kts) | 20 | 18 |
| Sea State (ft) | 6-9 | 6-9 |
| Water Depth (m) | 133 | 3766 |

| Cable | Erased Channels | Noisy/Weak Channels |
|-------|-----------------|---------------------|
| 1 | | 47 |
| 2 | | |
| 3 | | |
| 4 | | |

| Auxiliaries | |
|-----------------------|----------------|
| Aux. 1-8 | Empty |
| Aux. 13-16 | Empty |
| | |
| | |
| Aux 9 Gun hydrophone | Empty |
| Aux 10 Gun hydrophone | Empty |
| | |
| Aux 11 Gun hydrophone | Empty |
| | Empty Empty |

| General / Line Comments |
|---|
| 1016 - SOL - N 59 49' 36.577 W 143 50' 07.210 |
| 1047 Bird depth assigned to 9 m |
| 1101 Bird depth to 12 m to level out streamer |
| 1158 birds returned to 9 m |
| 0051 shot 3399 bird 3 offline |
| 0206 gun 10 string 2 missfire on steep 13. Alarms were not online for gun screen so officers on watch were not notified of misfires |
| until 0206 hrs; new volume 6560 |
| 0253 - EOL - N 58 39' 54.094 W 144 34' 03.538 |
| |
| |
| |
| |
| Line Status: |

| Abbreviations | | |
|-----------------------------|----------------------------|--|
| SOL/EOL - Start/End of Line | LGSP - Last Good SP | |
| FGSP- First Good SP | LCSP - Last Chargable SP | |
| FCSP - First Chargable SP | LFFSP - Last Full Fold SP | |
| FOLSP - First Overlap SP | Fa - Feather Angle | |
| BOT/EOT - Begin/End of Tape | SI - Seismic Interference | |
| NDR - No Data Recorded | ITB - Imitation Time Break | |
| NDR - No Data Recorded | ITB - Internal Time Break | |
| N.T.B.P Not To Be Processed | | |

| Time UTC | FILE | SP | Таре | Description |
|----------|-----------|-----------|------|---|
| 0206 | all files | 3594-3596 | 6 | Misfire S1G20 |
| 0209 | unknown | 3602 | 6 | No Fire S1G30 |
| 0210 | unknown | 3604 | 6 | No Fire S1G23 |
| 0214 | 2604 | 3616 | 6 | No Fire S1G28 |
| 0217 | 2612 | 3624 | 6 | No Fire S1G21 |
| 0218 | 2622 | 3625 | 6 | No Fire S1G23 |
| 0226 | 2645 | 3651 | 6 | No Fire S1G21 |
| 0227 | 2648 | 3654 | 6 | No Fire S1G26 |
| 0231 | 2661 | 3665 | 6 | No Fire S1G22 |
| 0237 | 2674 | 3681 | 6 | No Fire S1G27 |
| 0240 | 2683 | 3689 | 6 | No Fire S1G24 |
| 0242 | 2688 | 3695 | 6 | No Fire S1G21 |
| 0243 | 2691 | 3698 | 6 | No Fire S1G26 |
| 0244 | 2693 | 3700 | 6 | No Fire S1G23 |
| 0245 | 2697 | 3703 | 6 | No Fire S1G23 |
| 0247 | 2703 | 3710 | 6 | No Fire S1G22 |
| 0304 | no files | 3736 | 6 | No Fire S1G21 (No data collection due to end of STEEP 13) |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Vessel | Langseth |
|------------|----------------|
| Client | Gulick LDEO |
| Area | Gulf of Alaska |
| Job Number | MGL0814 |

| | SOL | EOL | | |
|--------|-----|------|------|------|
| Tape # | 07 | 08 | FGSP | 923 |
| SP# | 922 | 2830 | LGSP | 2830 |

| | Streamer Para | meters | | |
|---------------------|---------------|--------|---|---|
| | 1 | 2 | 3 | 4 |
| Length | 8000 | | | |
| Auxiliaries | | | | |
| Shotpoint Interval: | 50 | | | |
| Offset CS - CFG | | | | |
| Group Interval: | | | | |
| Number of channels | 636 | | | |
| SOL Cable Noise, µB | | | | |
| EOL Cable Noise, µB | | | | |
| | | | | |

| Party Chief | B McKiernan |
|---------------|-------------|
| Ch. Observer | B McKiernan |
| Sen. Observer | |
| Observers | |

| Line | STEEP07 |
|-----------|---------|
| Sequence | 004 |
| Direction | 54 |

| Source Parameters | | | | |
|-------------------|--------------------|--|--|--|
| Total Volume | 6560/in3 | | | |
| Work Pressure | 2000psi +/- 100psi | | | |
| Dual Source | no | | | |
| Depth | 9m | | | |
| Source Separation | 9m | | | |
| Center Source to | | | | |
| Nav. Antenna | | | | |

| Recording Parameters | | | | |
|-----------------------|--------------|--|--|--|
| Record Length | 16s | | | |
| Total recording delay | 0 | | | |
| Sample Rate | 2ms | | | |
| Polarity | | | | |
| Low-Cut | 2Hz /12DB | | | |
| Hi-Cut | 206Hz/276 DB | | | |
| Tape Format | SEGD rev. 1 | | | |

| CSP | EOL/LQCS | SOL/FQCSP | Description |
|-----|----------|-----------|--------------------|
| | | | FSID |
|)8 | 18/09/08 | 18/09/08 | Date dd/mm/yy |
| | 1954 | 0652 | Time UTC |
| 00 | S1 6200 | s1 6560 | Volume (cu in.) |
| | 9 | 9 | Streamer Depth (m) |
| | | 17 S | Wind (kts) |
| | | | Sea State (ft) |
| | 3161 | 3704 | Water Depth (m) |
| | 3161 | - | Sea State (ft) |

| Cable | Erased Channels | Noisy/Weak Channels |
|-------|-----------------|---------------------|
| 1 | | 47, 50, 21 |
| 2 | | |
| 3 | | |
| 4 | | |
| | | DroMoy OC the chave |

| Auxiliaries | | |
|--------------------------------|-------|--|
| Aux. 1-8 | Empty | |
| Aux. 13-16 | Empty | |
| | | |
| | | |
| | | |
| Aux 9 Gun hydrophone | Empty | |
| Aux 10 Gun hydrophone | Empty | |
| Aux 11 Gun hydrophone | Empty | |
| Aux 12 Gun hydrophone | Empty | |
| Aux. 16: Port Outer hydrophone | | |

| General / Line Comments |
|---|
| S1G04 off spare on S1G05 |
| S1G20 off spare on S1G15 |
| 0906 - S1G12 off due to consecutive no fires |
| SP 1887 Reel Change; Reel 8 begins with File 967 |
| At 1649 (18/9/08) Gun Array 3 powered down to reattach tow point. |
| At 1720 Gun Array 3 powered down to add rope. |
| Starting at ~1830 birds near surface causing excess noise |
| EOL 1954 - start turn to sink birds to depth |
| |
| |
| |
| |
| Line Status: |

| Abbreviations | | | | |
|-----------------------------|----------------------------|--|--|--|
| | | | | |
| SOL/EOL - Start/End of Line | LGSP - Last Good SP | | | |
| FGSP- First Good SP | LCSP - Last Chargable SP | | | |
| FCSP - First Chargable SP | LFFSP - Last Full Fold SP | | | |
| FOLSP - First Overlap SP | Fa - Feather Angle | | | |
| BOT/EOT - Begin/End of Tape | SI - Seismic Interference | | | |
| NDR - No Data Recorded | ITB - Imitation Time Break | | | |
| NDR - No Data Recorded | ITB - Internal Time Break | | | |
| N.T.B.P Not To Be Processed | | | | |

| Time UTC | FILE | SP | Таре | Description |
|----------|------|------|------|---|
| 0654 | 2 | 922 | 7 | S1G21 No fire |
| 0655 | 5 | 925 | 7 | S1G30 No fire |
| | 9 | 929 | 7 | S1G27 No fire |
| 0708 | 34 | 954 | 7 | No Fire Error S1G29 |
| 0709 | 36 | 956 | 7 | No Fire Error S1G26 |
| 0713 | 45 | 965 | 7 | No Fire Error S1G26 |
| 0717 | 73 | 993 | 7 | No Fire Error S1G26 |
| 0731 | 87 | 1007 | 7 | No Fire Error S1G27 |
| 0733 | 91 | 1011 | 7 | No Fire Error S1G21 |
| 0739 | 97 | 1022 | 7 | No Fire Error S1G22 |
| 0739 | 98 | 1023 | 7 | No Fire Error S1G28 |
| 0752 | 128 | 1048 | 7 | No Fire Error String 03 - entire string |
| 0802 | 150 | 1070 | 7 | No Fire Error S1G26 |
| 0803 | 152 | 1072 | 7 | No Fire Error S1G23 |
| 0814 | 172 | 1092 | 7 | No Fire Error S1G27 |
| 0818 | 180 | 1100 | 7 | No Fire Error S1G22 |
| 0824 | 193 | 1113 | 7 | No Fire Error S1G26 |
| 0828 | 201 | 1121 | 7 | No Fire Error S1G28 |
| 0840 | 224 | 1144 | 7 | No Fire Error S1G23 |
| 0842 | 229 | 1149 | 7 | No Fire Error S1G22 |
| 0844 | 232 | 1152 | 7 | No Fire Error S1G21 |
| 0848 | 242 | 1162 | 7 | No Fire Error S1G23 |
| 0849 | 243 | 1163 | 7 | No Fire Error S1G29 |
| 0853 | 251 | 1172 | 7 | No Fire Error S1G29 |
| 0856 | 259 | 1179 | 7 | No Fire Error S1G27 |
| 0904 | 276 | 1196 | 7 | No Fire Error S1G12 |
| 0905 | 277 | 1197 | 7 | No Fire Error S1G12 |
| 0905 | 278 | 1198 | 7 | No Fire Error S1G12 |
| 0906 | 279 | 1199 | 7 | No Fire Error S1G12 |
| 0906 | 280 | 1200 | 7 | No Fire Error S1G12 |
| 0910 | 288 | 1208 | 7 | No Fire Error S1G24 |
| 0914 | 298 | 1218 | 7 | No Fire Error S1G30 |
| 0919 | 308 | 1228 | 7 | No Fire Error S1G27 |
| 0931 | 332 | 1252 | 7 | No Fire Error S1G28 |
| 0933 | 334 | 1256 | 7 | No Fire Error S1G23 |
| 0933 | 335 | 1257 | 7 | No Fire Error S1G23 |
| 0935 | 342 | 1262 | 7 | No Fire Error S1G27 |
| 0939 | 350 | 1270 | 7 | No Fire Error S1G26 |
| 0940 | 352 | 1272 | 7 | No Fire Error S1G30 |
| 1006 | 409 | 1329 | 7 | No Fire Error S1G22 |
| 1012 | 422 | 1342 | 7 | No Fire Error S1G24 |
| 1020 | 438 | 1358 | 7 | No Fire Error S1G30 |
| 1025 | 450 | 1370 | 7 | No Fire Error S1G28 |
| 1036 | 473 | 1393 | 7 | No Fire Error S1G29 |
| 1039 | 479 | 1399 | 7 | No Fire Error S1G30 |
| 1043 | 488 | 1408 | 7 | No Fire Error S1G28 |
| 1101 | 524 | 1445 | 7 | Timing Error S1G32 |
| 1103 | 530 | 1451 | 7 | No Fire Error S1G29 |
| 1106 | 536 | 1457 | 7 | No Fire Error S1G27 |

| Time UTC | FILE | SP | Tape | Description |
|----------|------|------|------|---|
| 1108 | 540 | 1461 | 7 | No Fire Error S1G28 |
| 1132 | 592 | 1513 | 7 | No Fire Error S1G30 |
| 1134 | 597 | 1518 | 7 | |
| 1135 | 599 | 1518 | 7 | Timing Error S1G32 No Fire Error S1G28 |
| 1138 | 605 | 1526 | 7 | No Fire Error String 03 - entire string |
| 1139 | 607 | 1528 | 7 | No Fire Error S1G30 |
| 1145 | 621 | 1542 | 7 | No Fire Error S1G29 |
| 1145 | 623 | 1544 | 7 | No Fire Error S1G29 |
| | | | | No Fire Error S1G30 |
| 1149 | 630 | 1551 | 7 | |
| 1202 | 661 | 1582 | 7 | No Fire Error String 03 - entire string |
| 1209 | 674 | 1595 | 7 | No Fire Error \$1G28 |
| 1217 | 698 | 1619 | 7 | No Fire Error S1G23 |
| 1219 | 704 | 1624 | 7 | No Fire Error S1G24 |
| 1220 | 706 | 1626 | 7 | No Fire S1G22 |
| 1225 | | 1629 | 7 | No Fire S1G28 |
| 1227 | 722 | 1643 | 7 | No Fire S1G29 |
| 1234 | 734 | 1660 | 7 | No Fire S1G27 |
| 1235 | 736 | 1661 | 7 | No Fire S1G21 |
| 1245 | 765 | 1686 | 7 | No Fire S1G23 |
| 1248 | 772 | 1692 | 7 | No Fire S1G22 |
| 1249 | 773 | 1694 | 7 | No fire S1G29 |
| 1253 | 784 | 1704 | 7 | No Fire S1G29 |
| 1255 | 785 | 1715 | 7 | No Fire S1G28 |
| 1317 | 842 | 1763 | 7 | No Fire S1G30 |
| 1325 | 861 | 1781 | 7 | No Fire S1G22 |
| 1329 | 871 | 1792 | 7 | No fire S1G28 |
| 1332 | 878 | 1799 | 7 | No Fire S1G24 |
| 1408 | 972 | 1892 | 8 | No Fire S1G29 |
| 1408 | 973 | 1893 | 8 | No Fire S1G23 |
| 1411 | 980 | 1900 | 8 | No Fire S1G28 |
| 1413 | 985 | 1906 | 8 | No Fire Error S1G30 |
| 1414 | 989 | 1910 | 8 | No Fire Error String 03 - entire string |
| 1417 | 996 | 1917 | 8 | No Fire S1G24 |
| 1429 | 1030 | 1949 | 8 | No Fire S1G29 |
| 1432 | 1039 | 1959 | 8 | No Fire S1G29 |
| 1438 | 1052 | 1973 | 8 | No Fire S1G22 |
| 1446 | 1075 | 1995 | 8 | String 02 powered down to untangle MAGGIE |
| 1457 | 1108 | 2028 | 8 | String 02 powered up, misfire entire string |
| 1458 | 1109 | 2029 | 8 | String 02 firing normally |
| 1512 | | 2071 | 8 | Timing Error S1G32 |
| 1514 | 1155 | 2076 | 8 | Timing Error S1G32 |
| 1520 | 1173 | 2094 | 8 | Timing Error S1G32 |
| 1559 | 1287 | 2207 | 8 | Timing Error S1G32 |
| 1627 | 1366 | 2287 | 8 | Timing Error S1G32 |
| 1711 | 1489 | 2410 | 8 | Timing Error S1G29 |
| 1711 | 1489 | 2410 | 8 | Timing Error S1G24 |
| 1715 | 1501 | 2421 | 8 | Timing Error S1G32 |
| Time UTC | FILE | SP | Таре | Description |

| 1720 | 1515 | 2434 | 8 | Timing Error S1G32 |
|------|------|------|---|--------------------|
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| Vessel | Langseth |
|------------|----------------|
| Client | Gulick LDEO |
| Area | Gulf of Alaska |
| Job Number | MGL0814 |

| | SOL | EOL | | |
|--------|------|------|------|------|
| Tape # | 10 | 10 | FGSP | 2690 |
| SP# | 2690 | 2728 | LGSP | 2728 |

| Streamer Parameters | | | | | | |
|---------------------|------|--|--|--|--|--|
| 1 2 3 4 | | | | | | |
| Length | 8000 | | | | | |
| Auxiliaries | | | | | | |
| Shotpoint Interval: | 50 | | | | | |
| Offset CS - CFG | | | | | | |
| Group Interval: | | | | | | |
| Number of channels | 636 | | | | | |
| SOL Cable Noise, µB | | | | | | |
| EOL Cable Noise, µB | | | | | | |

| Party Chief | B McKiernan |
|---------------|-------------|
| Ch. Observer | B McKiernan |
| Sen. Observer | |
| Observers | |

| Line | STEEP07A | | |
|-----------|----------|--|--|
| Sequence | 005 | | |
| Direction | 78 | | |

| Source Parameters | | | | |
|----------------------------------|----|--|--|--|
| Total Volume 6600/in3 | | | | |
| Work Pressure 2000psi +/- 100psi | | | | |
| Dual Source no | | | | |
| Depth 9m | | | | |
| Source Separation | 9m | | | |
| Center Source to | | | | |
| Nav. Antenna | | | | |

| Recording Parameters | | | | | |
|----------------------------|-----------|--|--|--|--|
| Record Length 16s | | | | | |
| Total recording delay | 0 | | | | |
| Sample Rate | 2ms | | | | |
| Polarity | | | | | |
| Low-Cut | 2Hz /12DB | | | | |
| Hi-Cut 206Hz/276 DB | | | | | |
| Tape Format SEGD rev. 1 | | | | | |

| SOL/FQCSP | EOL/LQCSP |
|-----------|---|
| | |
| 19/09/08 | 19/09/2008 |
| 0002 | 0019 |
| S1 6300 | S1 6300 |
| 9 | 9 |
| 33 | 33 |
| 12-16 | 12-16 |
| 3724 | 3645 |
| | 19/09/08 0002 S1 6300 9 33 12-16 |

| Cable | Erased Channels | Noisy/Weak Channels |
|-------|-----------------|---------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| | | D M |

| Auxiliaries | | |
|--------------------------------|-------|---|
| Aux. 1-8 | Empty | |
| Aux. 13-16 | Empty | |
| | | |
| | | |
| Aux 9 Gun hydrophone | Empty | |
| Aux 10 Gun hydrophone | Empty | |
| Aux 11 Gun hydrophone | Empty | |
| Aux 12 Gun hydrophone | Empty | |
| Aux. 16: Port Outer hydrophone | | • |

| General / Line Comments | |
|---|--|
| SOL SP 2690 POS 59 16' 16.818N 143 31' 23.435W | |
| 0012 Birds 02-21 near surface – Will note when birds return to set depth | |
| EOL SP 2728 POS 59 16' 52.728N 143 29' 43.736W - Line ended due to poor streamer response | |
| 0019 Powered down to one gun while turning to conserve gun durability | |
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| | |
| Line Status: | |

| Abbreviations | | | | |
|-----------------------------|----------------------------|--|--|--|
| | | | | |
| SOL/EOL - Start/End of Line | LGSP - Last Good SP | | | |
| FGSP- First Good SP | LCSP - Last Chargable SP | | | |
| FCSP - First Chargable SP | LFFSP - Last Full Fold SP | | | |
| FOLSP - First Overlap SP | Fa - Feather Angle | | | |
| BOT/EOT - Begin/End of Tape | SI - Seismic Interference | | | |
| NDR - No Data Recorded | ITB - Imitation Time Break | | | |
| NDR - No Data Recorded | ITB - Internal Time Break | | | |
| N.T.B.P Not To Be Processed | _ | | | |

| Vessel | Langseth |
|------------|----------------|
| Client | Gulick LDEO |
| Area | Gulf of Alaska |
| Job Number | MGL0814 |

| | SOL | EOL | | |
|--------|------|-----|------|------|
| Tape # | 11 | 11 | FGSP | 3338 |
| SP# | 3338 | | LGSP | 3990 |

| Streamer Parameters | | | | | | |
|---------------------|---------|--|--|---|--|--|
| | 1 2 3 4 | | | | | |
| Length | 8000 | | | | | |
| Auxiliaries | | | | | | |
| Shotpoint Interval: | 50 | | | | | |
| Offset CS - CFG | | | | | | |
| Group Interval: | | | | | | |
| Number of channels | 636 | | | | | |
| SOL Cable Noise, µB | | | | • | | |
| EOL Cable Noise, μB | | | | | | |

| Party Chief | B McKiernan |
|---------------|-------------|
| Ch. Observer | B McKiernan |
| Sen. Observer | |
| Observers | |

| Line | STEEP07B | |
|-----------|----------|--|
| Sequence | 006 | |
| Direction | 66 | |

| Source Parameters | | |
|-------------------|--------------------|--|
| Total Volume | 6600/in3 | |
| Work Pressure | 2000psi +/- 100psi | |
| Dual Source | no | |
| Depth | 9m | |
| Source Separation | 9m | |
| Center Source to | | |
| Nav. Antenna | | |

| Recording Parameters | | |
|-----------------------|--------------|--|
| Record Length | 16s | |
| Total recording delay | 0 | |
| Sample Rate | 2ms | |
| Polarity | | |
| Low-Cut | 2Hz /12DB | |
| Hi-Cut | 206Hz/276 DB | |
| Tape Format | SEGD rev. 1 | |

| Description | SOL/FQCSP | EOL/LQCSP |
|--------------------|-----------|-----------|
| FSID | | |
| Date dd/mm/yy | 18/09/08 | 18/09/08 |
| Time UTC | 0510 | 1022 |
| Volume (cu in.) | s1 6380 | |
| Streamer Depth (m) | 9 | 9 |
| Wind (kts) | 33 | 30 |
| Sea State (ft) | 9-12 | 6-9 |
| Water Depth (m) | 809 | 511 |

| Cable | Erased Channels | Noisy/Weak Channels |
|-------|-----------------|---------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| | | D 14 |

| Auxiliaries | | |
|--------------------------------|-------|---|
| Aux. 1-8 | Empty | |
| Aux. 13-16 | Empty | |
| | | |
| | | |
| Aux 9 Gun hydrophone | Empty | |
| Aux 10 Gun hydrophone | Empty | |
| Aux 11 Gun hydrophone | Empty | |
| Aux 12 Gun hydrophone | Empty | |
| Aux. 16: Port Outer hydrophone | | • |

| General / Line Comments | | |
|--|--------------|---|
| Position 59'28'23.987N 143'06'47.096 W | | |
| | | |
| · | <u> </u> | |
| EOL 1022 N 59 40.728 W 142 42.026 | | |
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| Abbreviations | | | | |
|-----------------------------|----------------------------|--|--|--|
| | | | | |
| SOL/EOL - Start/End of Line | LGSP - Last Good SP | | | |
| FGSP- First Good SP | LCSP - Last Chargable SP | | | |
| FCSP - First Chargable SP | LFFSP - Last Full Fold SP | | | |
| FOLSP - First Overlap SP | Fa - Feather Angle | | | |
| BOT/EOT - Begin/End of Tape | SI - Seismic Interference | | | |
| NDR - No Data Recorded | ITB - Imitation Time Break | | | |
| NDR - No Data Recorded | ITB - Internal Time Break | | | |
| N.T.B.P Not To Be Processed | | | | |

| Vessel | Langseth |
|------------|----------------|
| Client | Gulick LDEO |
| Area | Gulf of Alaska |
| Job Number | MGL0814 |

| | SOL | EOL | | |
|--------|------|------|------|------|
| Tape # | 12 | 12 | FGSP | 1042 |
| SP# | 1042 | 1644 | LGSP | 1644 |

| Streamer Parameters | | | | | |
|---------------------|------|--|--|--|--|
| 1 2 3 4 | | | | | |
| Length | 8000 | | | | |
| Auxiliaries | | | | | |
| Shotpoint Interval: | 50 | | | | |
| Offset CS - CFG | | | | | |
| Group Interval: | | | | | |
| Number of channels | 636 | | | | |
| SOL Cable Noise, µB | | | | | |
| EOL Cable Noise, µB | | | | | |

| Party Chief | B McKiernan |
|---------------|-------------|
| Ch. Observer | B McKiernan |
| Sen. Observer | |
| Observers | |

| Line | STEEP16 | |
|-----------|---------|--|
| Sequence | 007 | |
| Direction | 35 | |

| Source Parameters | | | |
|-------------------|--------------------|--|--|
| Total Volume | 6600/in3 | | |
| Work Pressure | 2000psi +/- 100psi | | |
| Dual Source | no | | |
| Depth | 9m | | |
| Source Separation | 9m | | |
| Center Source to | | | |
| Nav. Antenna | | | |

| Recording Parameters | | | | |
|-------------------------|--------------|--|--|--|
| Record Length | 16s | | | |
| Total recording delay | 0 | | | |
| Sample Rate | 2ms | | | |
| Polarity | | | | |
| Low-Cut | 2Hz /12DB | | | |
| Hi-Cut | 206Hz/276 DB | | | |
| Tape Format SEGD rev. 1 | | | | |

| Description | SOL/FQCSP | EOL/LQCSP |
|--------------------|-----------|-----------|
| FSID | | |
| Date dd/mm/yy | 19/9/08 | 19/09/08 |
| Time UTC | 1144 | 1527 |
| Volume (cu in.) | S1 6380 | S1 6380 |
| Streamer Depth (m) | 9 | 9 |
| Wind (kts) | 15+ | 15+ |
| Sea State (ft) | 6 | 6 |
| Water Depth (m) | 3465.9 | 79.8 |

| Cable | Erased Channels | Noisy/Weak Channels |
|-------|-----------------|---------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| | | Dua Maria Godin I |

| Auxiliaries | | |
|--------------------------------|-------|--|
| Aux. 1-8 | Empty | |
| Aux. 13-16 | Empty | |
| | | |
| | | |
| | | |
| Aux 9 Gun hydrophone | Empty | |
| Aux 10 Gun hydrophone | Empty | |
| Aux 11 Gun hydrophone | Empty | |
| Aux 12 Gun hydrophone | Empty | |
| Aux. 16: Port Outer hydrophone | | |

| General / Line Comments | |
|--|--|
| SOL STEEP16 - SP 1042 - 59 44'44.322N 142 38'22.087W | |
| EOL STEEP16 - SP 1644 - 60 00 48.489N 142 42 42.015W | |
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| Line Status: | |

| Abbreviations | | |
|-----------------------------|----------------------------|--|
| | | |
| SOL/EOL - Start/End of Line | LGSP - Last Good SP | |
| FGSP- First Good SP | LCSP - Last Chargable SP | |
| FCSP - First Chargable SP | LFFSP - Last Full Fold SP | |
| FOLSP - First Overlap SP | Fa - Feather Angle | |
| BOT/EOT - Begin/End of Tape | SI - Seismic Interference | |
| NDR - No Data Recorded | ITB - Imitation Time Break | |
| NDR - No Data Recorded | ITB - Internal Time Break | |
| N.T.B.P Not To Be Processed | | |

| Time UTC | FILE | SP | Таре | Description |
|----------|------|------|------|---|
| 11:52 | | 1061 | 12 | Delta Tiiming Error @ 2.2 ms S1G32 Delta Tiiming Error @ 2.2 ms S1G32 Delta Tiiming Error @ 2.1 ms S1G31 Delta Tiiming Error @ 2.3 ms S1G32 Delta Tiiming Error @ 2.6 ms S1G32 No fire error S1G18 |
| 12:00 | | 1082 | 12 | Delta Tiiming Error @ 2.2 ms S1G32 |
| 12:03 | 48 | 1090 | 12 | Delta Tiiming Error @ 2.1 ms S1G31 |
| 12:22 | 100 | 1141 | 12 | Delta Tiiming Error @ 2.3 ms S1G32 |
| 12:25 | 106 | 1147 | 12 | Delta Tiiming Error @ 2.6 ms S1G32 |
| 14:04 | 375 | 1416 | 12 | No fire error S1G18 |
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| Vessel | Langseth |
|------------|----------------|
| Client | Gulick LDEO |
| Area | Gulf of Alaska |
| Job Number | MGL0814 |

| | SOL | EOL | | |
|--------|------|------|------|--|
| Tape # | 13 | 13 | FGSP | |
| SP# | 1036 | 1561 | LGSP | |

| Streamer Parameters | | | | |
|---------------------|------|---|---|---|
| | 1 | 2 | 3 | 4 |
| Length | 8000 | | | |
| Auxiliaries | | | | |
| Shotpoint Interval: | 50 | | | |
| Offset CS - CFG | | | | |
| Group Interval: | | | | |
| Number of channels | 636 | | | |
| SOL Cable Noise, µB | | | | |
| EOL Cable Noise, µB | | | | |

| Party Chief | B McKiernan |
|---------------|-------------|
| Ch. Observer | B McKiernan |
| Sen. Observer | |
| Observers | |

| Line | STEEP 17 |
|-----------|----------|
| Sequence | 800 |
| Direction | 225.21 |

| Source Parameters | | |
|-------------------|--------------------|--|
| Total Volume | 6600/in3 | |
| Work Pressure | 2000psi +/- 100psi | |
| Dual Source | no | |
| Depth | 9m | |
| Source Separation | 9m | |
| Center Source to | | |
| Nav. Antenna | | |

| Recording Parameters | | |
|-----------------------|--------------|--|
| Record Length | 16s | |
| Total recording delay | 0 | |
| Sample Rate | 2ms | |
| Polarity | | |
| Low-Cut | 2Hz /12DB | |
| Hi-Cut | 206Hz/276 DB | |
| Tape Format | SEGD rev. 1 | |

| SOL/FQCSP | EOL/LQCSP |
|-----------|----------------------------------|
| | |
| 19/09/08 | 19/09/08 |
| 1555 | 1847 |
| S1 4950 | |
| 9 | 9 |
| | |
| 6-9 | 6 |
| 78 | 153 |
| | 19/09/08 1555 S1 4950 9 |

| Cable | Erased Channels | Noisy/Weak Channels |
|-------|-----------------|---------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| | | Dua Maria Godin I |

| Auxiliaries | | |
|--------------------------------|-------|--|
| Aux. 1-8 | Empty | |
| Aux. 13-16 | Empty | |
| | | |
| | | |
| | | |
| Aux 9 Gun hydrophone | Empty | |
| Aux 10 Gun hydrophone | Empty | |
| Aux 11 Gun hydrophone | Empty | |
| Aux 12 Gun hydrophone | Empty | |
| Aux. 16: Port Outer hydrophone | | |

| eneral / Line Comments | |
|---|---|
| 610 String 02 powered down to repair guns 10 and 2. | |
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| ne Status: | |

| Abbreviations | | | |
|-----------------------------|----------------------------|--|--|
| SOL/EOL - Start/End of Line | LGSP - Last Good SP | | |
| FGSP- First Good SP | LCSP - Last Chargable SP | | |
| FCSP - First Chargable SP | LFFSP - Last Full Fold SP | | |
| FOLSP - First Overlap SP | Fa - Feather Angle | | |
| BOT/EOT - Begin/End of Tape | SI - Seismic Interference | | |
| NDR - No Data Recorded | ITB - Imitation Time Break | | |
| NDR - No Data Recorded | ITB - Internal Time Break | | |
| N.T.B.P Not To Be Processed | | | |

| Time UTC | FILE | SP | Таре | Description |
|----------|------|------|------|--|
| 1602 | 23 | 1060 | 13 | No Fire S1G35 |
| 1608 | 45 | 1082 | 13 | Delta Timng Error at -2.2 ms S1G32 |
| 1627 | 106 | 1143 | 13 | Delta Timng Error at 2.1 ms S1G32 |
| 1628 | 109 | 1146 | 13 | Delta Timing Error at 2.3 ms S1G32 Delta Timing Error at -2.1 ms S1G32 |
| 1638 | 141 | 1178 | 13 | Delta Timing Error at -2.1 ms S1G32 |
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| Vessel | Langseth |
|------------|----------------|
| Client | Gulick LDEO |
| Area | Gulf of Alaska |
| Job Number | MGL0814 |

| | SOL | EOL | | |
|--------|-----|------|------|------|
| Tape # | 14 | 14 | FGSP | 990 |
| SP# | 990 | 1088 | LGSP | 1088 |

| Streamer Parameters | | | | |
|---------------------|------|---|---|---|
| | 1 | 2 | 3 | 4 |
| Length | 8000 | | | |
| Auxiliaries | | | | |
| Shotpoint Interval: | 50 | | | |
| Offset CS - CFG | | | | |
| Group Interval: | | | | |
| Number of channels | 636 | | | |
| SOL Cable Noise, µB | | | | |
| EOL Cable Noise, µB | | • | | |

| Party Chief | B McKiernan |
|---------------|-------------|
| Ch. Observer | B McKiernan |
| Sen. Observer | |
| Observers | |

| Line | STEEP19 |
|-----------|---------|
| Sequence | 009 |
| Direction | 315 |

| Source Parameters | | |
|----------------------------------|----|--|
| Total Volume 6600/in3 | | |
| Work Pressure 2000psi +/- 100psi | | |
| Dual Source | no | |
| Depth | 9m | |
| Source Separation | 9m | |
| Center Source to | | |
| Nav. Antenna | | |

| Recording Parameters | | | |
|-----------------------|--------------|--|--|
| Record Length | 16s | | |
| Total recording delay | 0 | | |
| Sample Rate | 2ms | | |
| Polarity | | | |
| Low-Cut | 2Hz /12DB | | |
| Hi-Cut | 206Hz/276 DB | | |
| Tape Format | SEGD rev. 1 | | |

| Description | SOL/FQCSP | EOL/LQCSP |
|--------------------|-----------|-----------|
| FSID | | |
| Date dd/mm/yy | 19-09-08 | 19-09-08 |
| Time UTC | 2030 | 2145 |
| Volume (cu in.) | S1 6600 | 6600 |
| Streamer Depth (m) | 14 | 14 |
| Wind (kts) | 14 | 13 |
| Sea State (ft) | 3-6 | 3-6 |
| Water Depth (m) | 246 | 4436 |

| Cable | Erased Channels | Noisy/Weak Channels |
|-------|-----------------|---------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
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| Auxiliaries | | |
|--------------------------------|-------|--|
| Aux. 1-8 | Empty | |
| Aux. 13-16 | Empty | |
| | | |
| | | |
| Aux 9 Gun hydrophone | Empty | |
| Aux 10 Gun hydrophone | Empty | |
| Aux 11 Gun hydrophone | Empty | |
| Aux 12 Gun hydrophone | Empty | |
| Aux. 16: Port Outer hydrophone | | |

| General / Line Comments | | |
|------------------------------|------|-------|
| SOL N 59 52.427 W 143 23790 | | |
| EOL N 59 55.183 W 143 22.481 | | |
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| Line Status: | | |

| Abbreviations | | |
|-----------------------------|----------------------------|--|
| | | |
| SOL/EOL - Start/End of Line | LGSP - Last Good SP | |
| FGSP- First Good SP | LCSP - Last Chargable SP | |
| FCSP - First Chargable SP | LFFSP - Last Full Fold SP | |
| FOLSP - First Overlap SP | Fa - Feather Angle | |
| BOT/EOT - Begin/End of Tape | SI - Seismic Interference | |
| NDR - No Data Recorded | ITB - Imitation Time Break | |
| NDR - No Data Recorded | ITB - Internal Time Break | |
| N.T.B.P Not To Be Processed | | |

| Time UTC | FILE | SP | Таре | Description |
|----------|------|------|----------|--|
| 2048 | 34 | 1023 | 14 | Timing Error S1G14 Timing Error S1G14 Timing Error S1G14 |
| 2100 | 59 | 1048 | 14 | Timing Error S1G14 |
| 2101 | 62 | 1051 | 14 | Timing Error S1G14 |
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| Vessel | Langseth |
|------------|----------------|
| Client | Gulick LDEO |
| Area | Gulf of Alaska |
| Job Number | MGL0814 |

| SP# | 996 | 1484 | LGSP | 1484 |
|--------|-----|------|------|------|
| Tape # | 15 | 15 | FGSP | 996 |
| | SOL | EOL | | |

| Streamer Parameters | | | | |
|---------------------|------|---|---|---|
| | 1 | 2 | 3 | 4 |
| Length | 8000 | | | |
| Auxiliaries | | | | |
| Shotpoint Interval: | 50 | | | |
| Offset CS - CFG | | | | |
| Group Interval: | | | | |
| Number of channels | 636 | | | |
| SOL Cable Noise, µB | | | | |
| EOL Cable Noise, μB | | | | |
| | | | | |

| Party Chief | B McKiernan |
|---------------|-------------|
| Ch. Observer | B McKiernan |
| Sen. Observer | |
| Observers | |

| Line | STEEP18 |
|-----------|---------|
| Sequence | 010 |
| Direction | 59 |

| Source Parameters | | |
|-----------------------|--------------------|--|
| Total Volume 6600/in3 | | |
| Work Pressure | 2000psi +/- 100psi | |
| Dual Source | no | |
| Depth | 9m | |
| Source Separation | 9m | |
| Center Source to | | |
| Nav. Antenna | | |

| Recording Parameters | | | |
|-----------------------|---------------|--|--|
| Recordi | ng Parameters | | |
| Record Length | 16s | | |
| Total recording delay | 0 | | |
| Sample Rate | 2ms | | |
| Polarity | | | |
| Low-Cut | 2Hz /12DB | | |
| Hi-Cut | 206Hz/276 DB | | |
| Tape Format | SEGD rev. 1 | | |

| SOL/FQCSP | EOL/LQCSP |
|-----------|--|
| | |
| 19/09/08 | 20/09/08 |
| 2148 | 0204 |
| S1 6600 | S1 6600 |
| 14 | 9 |
| 13 | 12 |
| 3-6 | 3-6 |
| 3196.8 | 99.8 |
| | 19/09/08 2148 S1 6600 14 13 3-6 |

| Cable | Erased Channels | Noisy/Weak Channels |
|-------|-----------------|---------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| | | Dua Maria Godin I |

| Auxiliaries | | |
|--------------------------------|-------|--|
| Aux. 1-8 | Empty | |
| Aux. 13-16 | Empty | |
| | | |
| | | |
| Aux 9 Gun hydrophone | Empty | |
| Aux 10 Gun hydrophone | Empty | |
| Aux 11 Gun hydrophone | Empty | |
| Aux 12 Gun hydrophone | Empty | |
| Aux. 16: Port Outer hydrophone | | |

| General / Line Comments | | |
|--|--|--|
| SOL N 59 55.183 W 143 22.481 | | |
| | | |
| 1022: S1G14 off due to timing errors, S1G15 on | | |
| 2212: birds assigned depth 13m | | |
| EOL N 60 01' 31.893 W 142 59' 28.295 | | |
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| | | |
| Line Status: | | |

| Abbreviations | | |
|-------------------------------|----------------------------|--|
| SOL/EOL - Start/End of Line | LGSP - Last Good SP | |
| FGSP- First Good SP | LCSP - Last Chargable SP | |
| FCSP - First Chargable SP | LFFSP - Last Full Fold SP | |
| FOLSP - First Overlap SP | Fa - Feather Angle | |
| BOT/EOT - Begin/End of Tape | SI - Seismic Interference | |
| NDR - No Data Recorded | ITB - Imitation Time Break | |
| NDR - No Data Recorded | ITB - Internal Time Break | |
| N T R P - Not To Be Processed | | |

| Time UTC | FILE | SP | Tape | Description |
|----------|------|------|------|--|
| 2203 | 28 | 1023 | 15 | Timing Error S1G14 Timing Error S1G14 Timing Error S1G14 Timing Error S1G15 - first shot after gun turned on |
| 2206 | 34 | 1029 | 15 | Timing Error S1G14 |
| 2207 | 36 | 1031 | 15 | Timing Error S1G14 |
| 2208 | 37 | 1032 | 15 | Timing Error S1G15 - first shot after gun turned on |
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| Vessel | Langseth |
|------------|----------------|
| Client | Gulick LDEO |
| Area | Gulf of Alaska |
| Job Number | MGL0814 |

| | SOL | EOL | | |
|--------|------|------|------|------|
| Tape # | 16 | 18 | FGSP | 1031 |
| SP# | 1031 | 3176 | LGSP | 3176 |

| Streamer Parameters | | | | |
|---------------------|------|---|---|---|
| | 1 | 2 | 3 | 4 |
| Length | 8000 | | | |
| Auxiliaries | | | | |
| Shotpoint Interval: | 50 | | | |
| Offset CS - CFG | | | | |
| Group Interval: | | | | |
| Number of channels | 636 | | | |
| SOL Cable Noise, µB | | | | |
| EOL Cable Noise, μB | | | | |

| Party Chief | B McKiernan |
|---------------|-------------|
| Ch. Observer | B McKiernan |
| Sen. Observer | |
| Observers | |

| Line | STEEP 01 | |
|-----------|----------|--|
| Sequence | 011 | |
| Direction | 346 | |

| Source Parameters | | | |
|-------------------|--------------------|--|--|
| Total Volume | 6600/in3 | | |
| Work Pressure | 2000psi +/- 100psi | | |
| Dual Source | no | | |
| Depth | 9m | | |
| Source Separation | 9m | | |
| Center Source to | | | |
| Nav. Antenna | | | |

| Recording Parameters | | | | |
|-----------------------|--------------|--|--|--|
| Record Length | 16s | | | |
| Total recording delay | 0 | | | |
| Sample Rate | 2ms | | | |
| Polarity | | | | |
| Low-Cut | 2Hz /12DB | | | |
| Hi-Cut | 206Hz/276 DB | | | |
| Tape Format | SEGD rev. 1 | | | |

| SOL/FQCSP | EOL/LQCSP | |
|-----------|--|--|
| | | |
| 09/19/08 | 09/20/08 | |
| 02:46 | 1905 | |
| S1 6600 | S1 40 | |
| 9 | 9 | |
| 10 | 10 | |
| 3-6 | 2-4 | |
| 84 | 167.8 | |
| | 09/19/08 02:46 S1 6600 9 10 3-6 | |

| Cable | Erased Channels | Noisy/Weak Channels |
|-------|-----------------|---------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| | | D M |

ProMax - QC the above channels

| Auxiliaries | | | | |
|--------------------------------|-------|--|--|--|
| Aux. 1-8 | Empty | | | |
| Aux. 13-16 | Empty | | | |
| | | | | |
| | | | | |
| Aux 9 Gun hydrophone | Empty | | | |
| Aux 10 Gun hydrophone | Empty | | | |
| Aux 11 Gun hydrophone | Empty | | | |
| Aux 12 Gun hydrophone | Empty | | | |
| Aux. 16: Port Outer hydrophone | | | | |

Abbreviations

LGSP - Last Good SP

Fa - Feather Angle

LCSP - Last Chargable SP

LFFSP - Last Full Fold SP

SI - Seismic Interference

ITB - Imitation Time Break

ITB - Internal Time Break

General / Line Comments

N 60 02 23.511; W 142 55 45.884; Depth 84 m; Speed 3.3

SOL - STEEP 01 02:46 9/19/08

2015 - S1G12 disabled - consecutive no fires

2018 - S1G14 enabled - Comm errors appear to be gone

1657 20/09/08 MMO called-in a mammal sighting-Porpoise

1704 Back to full gun power-Mammals left the area-Confirmed by MMO Tower

1736 Powered Down Guns-Down to one gun-Compressor Failure

1754 Ramping up strings 01, 03 and 04

1816 Ramp up complete of strings 01, 03, and 04. SP 3061

1838 Guns at full volume SP 3112. At 1840 Gun 4 on string 02 disabled and Gun 5 enabled

1847 Missed SP 3129-3130. Back online with one gun due to compressor failure at SP 3131

1905 EOL - Line Stopped N 59 28.674 W 141 22.647 SP 3176

Line Status:

| SOL/EOL - Start/End of Line |
|-----------------------------|
| FGSP- First Good SP |
| FCSP - First Chargable SP |
| FOLSP - First Overlap SP |
| BOT/EOT - Begin/End of Tape |
| NDR - No Data Recorded |
| NDR - No Data Recorded |
| N.T.B.P Not To Be Processed |
| |
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| Time UTC | FILE | SP | Таре | Description |
|----------|------|------|------|---|
| 0318 | | 1098 | 16 | Delta timing error S1G12 |
| 1058 | 980 | 2008 | 17 | No Fire Error - S1G12 |
| 1058 | 981 | 2009 | 17 | No Fire Error - S1G12 |
| 1059 | 981 | 2011 | 17 | No Fire Error - S1G12 |
| 1059 | 982 | 2012 | 17 | No Fire Error - S1G12 |
| 1100 | 984 | 2013 | 17 | No Fire Error - S1G12 |
| 1100 | 985 | 2014 | 17 | No Fire Error - S1G12 |
| 1101 | 985 | 2015 | 17 | S1G12 diabled - consecutive no fires |
| 1102 | 989 | 2019 | 17 | Timing Error S1G14 - first shot after enabled |
| 1102 | 989 | 2020 | 17 | Timing Error S1G14 |
| 1140 | 1075 | 2105 | 17 | Timing Error S1G14 |
| 1150 | 1099 | 2130 | 17 | Timing Error S1G14 |
| 1152 | 1105 | 2134 | 17 | Timing Error S1G14 |
| 1231 | 1200 | 2231 | 17 | Timing Error S1G14 |
| 1243 | 1233 | 2260 | 17 | Timing Error S1G14 |
| 1248 | 1245 | 2273 | 17 | Timing Error S1G14 |
| 1307 | 1289 | 2319 | 17 | Timing Error S1G14 |
| 1327 | 1339 | 2369 | 17 | Timing Error S1G14 |
| 1340 | 1370 | 2400 | 17 | Timing Error S1G14 |
| 1348 | 1390 | 2420 | 17 | Timing Error S1G14 |
| 1358 | 1415 | 2445 | 17 | Timing Error S1G14 |
| 1407 | 1438 | 2468 | 17 | Timing Error S1G14 |
| 1407 | 1440 | 2469 | 17 | Timing Error S1G14 |
| 1409 | 1441 | 2472 | 17 | Timing Error S1G14 |
| 1423 | 1478 | 2507 | 17 | Timing Error S1G14 |
| 1424 | 1478 | 2508 | 17 | Timing Error S1G14 |
| 1424 | 1479 | 2509 | 17 | Timing Error S1G14 |
| 1426 | 1483 | 2514 | 17 | Timing Error S1G14 |
| 1438 | 1512 | 2541 | 17 | Timing Error S1G14 |
| 1438 | 1512 | 2542 | 17 | Timing Error S1G14 |
| 1442 | 1522 | 2552 | 17 | Timing Error S1G14 |
| 1447 | 1534 | 2564 | 17 | Timing Error S1G14 |
| 1457 | 1558 | 2588 | 17 | Timing Error S1G14 |
| 1500 | 1565 | 2596 | 17 | Timing Error S1G14 |
| 1502 | 1571 | 2601 | 17 | Timing Error S1G14 |
| 1503 | 1572 | 2602 | 17 | Timing Error S1G14 |
| 1513 | 1596 | 2627 | 17 | Timing Error S1G14 |
| 1514 | 1598 | 2628 | 17 | Timing Error S1G14 |
| 1536 | 1654 | 2684 | 17 | Timing Error S1G14 |
| 1542 | 1668 | 2690 | 17 | Timing Error S1G14 |
| 1544 | 1673 | 2703 | 17 | Timing Error S1G14 |
| 1544 | 1673 | 2704 | 17 | Timing Error S1G14 |
| 1548 | 1683 | 2713 | 17 | Timing Error S1G14 |
| 1548 | 1684 | 2714 | 17 | Timing Error S1G14 |
| 1559 | 1710 | 2741 | 17 | Timing Error S1G14 |
| 1619 | 1758 | 2789 | 17 | Timing Error S1G14 |
| 1619 | 1759 | 2790 | 17 | Timing Error S1G14 |
| 1625 | 1774 | 2805 | 17 | Timing Error S1G14 |
| 1629 | 1782 | 2813 | 17 | Timing Error S1G14 |

| Time UTC | FILE | SP | Таре | Description |
|----------|------|------|------|--------------------|
| 1629 | 1783 | 2814 | 17 | Timing Error S1G14 |
| 1636 | 1797 | 2828 | 17 | Timing Error S1G14 |
| 1636 | 1798 | 2829 | 178 | Timing Error S1G14 |
| 1644 | 1819 | 2449 | 17 | Timing Error S1G14 |
| 1646 | 1823 | 2854 | 17 | Timing Error S1G14 |
| 1648 | 1827 | 2859 | 17 | Timing Error S1G14 |
| 1649 | 1828 | 2860 | 17 | Timing Error S1G14 |
| 1654 | 1939 | 2871 | 17 | No Fire S1G32 |
| 1654 | 1840 | 2872 | 17 | No Fire S1G32 |
| 1655 | 1841 | 2873 | 17 | No Fire S1G32 |
| 1655 | 1842 | 2874 | 17 | No Fire S1G32 |
| 1656 | 1844 | 2876 | 17 | No Fire S1G32 |
| 1710 | 1876 | 2907 | 17 | Timing Error S1G14 |
| 1710 | 1877 | 2908 | 17 | No Fire S1G35 |
| 1712 | 1882 | 2912 | 17 | Timing Error S1G14 |
| 1712 | 1883 | 2913 | 17 | Timing Error S1G14 |
| 1715 | 1888 | 2918 | 17 | No Fire S1G32 |
| 1719 | 1897 | 2827 | 17 | No Fire S1G35 |
| 1722 | 1904 | 2934 | 17 | No Fire S1G35 |
| 1722 | 1906 | 2936 | 17 | No Fire S1G35 |
| 1724 | 1910 | 2940 | 17 | Timing Error S1G14 |
| 1724 | 1911 | 2941 | 17 | Timing Error S1G14 |
| 1728 | 1920 | 2950 | 17 | Timing Error S1G14 |
| 1730 | 1925 | 2955 | 17 | Timing Error S1G14 |
| 1731 | 1927 | 2957 | 17 | Timing Error S1G14 |
| 1733 | 1931 | 2961 | 17 | Timing Error S1G14 |
| 1734 | 1933 | 2963 | 18 | Timing Error S1G14 |
| 1734 | 1933 | 2963 | 18 | No Fire S1G35 |
| 1735 | 1936 | 2966 | 18 | No Fire S1G35 |
| 1836 | 2076 | 3106 | 18 | No Fire S1G35 |
| 1839 | 2084 | 3114 | 18 | No Fire S1G14 |
| 1840 | 285 | 3115 | 18 | No Fire S1G14 |
| 1841 | 2087 | 3117 | 18 | Timing Error S1G15 |
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| Vessel | Langseth |
|------------|----------------|
| Client | Gulick LDEO |
| Area | Gulf of Alaska |
| Job Number | MGL0814 |

| | SOL | EOL | | |
|--------|------|-----|------|------|
| Tape # | 19 | | FGSP | 3448 |
| SP# | 3448 | | LGSP | |

| Streamer Parameters | | | | | | | |
|---------------------|---------|--|--|--|--|--|--|
| | 1 2 3 4 | | | | | | |
| Length | 8000 | | | | | | |
| Auxiliaries | | | | | | | |
| Shotpoint Interval: | 50 | | | | | | |
| Offset CS - CFG | | | | | | | |
| Group Interval: | | | | | | | |
| Number of channels | 636 | | | | | | |
| SOL Cable Noise, µB | | | | | | | |
| EOL Cable Noise, μB | | | | | | | |

| Party Chief | B McKiernan |
|---------------|-------------|
| Ch. Observer | B McKiernan |
| Sen. Observer | |
| Observers | |

| Line | STEEP01 |
|-----------|---------|
| Sequence | 011 |
| Direction | 131 |

| Source Parameters | | | | |
|-------------------|--------------------|--|--|--|
| Total Volume | 6600/in3 | | | |
| Work Pressure | 2000psi +/- 100psi | | | |
| Dual Source | no | | | |
| Depth | 9m | | | |
| Source Separation | 9m | | | |
| Center Source to | | | | |
| Nav. Antenna | | | | |

| Recording Parameters | | | | | |
|-----------------------|--------------|--|--|--|--|
| Record Length | 16s | | | | |
| Total recording delay | 0 | | | | |
| Sample Rate | 2ms | | | | |
| Polarity | | | | | |
| Low-Cut | 2Hz /12DB | | | | |
| Hi-Cut | 206Hz/276 DB | | | | |
| Tape Format | SEGD rev. 1 | | | | |

| SOL/FQCSP | EOL/LQCSP |
|-----------|--|
| | |
| 20/09/08 | 21/09/08 |
| 2055 | 2225 |
| S1 6600 | S1 5700 |
| 9 | 9 |
| 10 | |
| 3-6' | |
| 185 | |
| | 20/09/08 2055 S1 6600 9 10 3-6' |

| | Cable | Erased Channels | Noisy/Weak Channels |
|---|-------|-----------------|---------------------|
| ĺ | 1 | | 21,47 |
| | 2 | | |
| | 3 | | |
| | 4 | | |
| _ | | | D M |

ProMax - QC the above channels

| Auxiliaries | | | | | |
|--------------------------------|-------|--|--|--|--|
| Aux. 1-8 | Empty | | | | |
| Aux. 13-16 | Empty | | | | |
| | | | | | |
| | | | | | |
| Aux 9 Gun hydrophone | Empty | | | | |
| Aux 10 Gun hydrophone | Empty | | | | |
| Aux 11 Gun hydrophone | Empty | | | | |
| Aux 12 Gun hydrophone | Empty | | | | |
| Aux. 16: Port Outer hydrophone | | | | | |

| Gene | rai | / Lir | ne C | omn | nents | |
|------|-----|-------|------|-----|-------|---|
| 0044 | ۸٠ | | | | -11 | Ī |

2011 Air gun ramp up start - N 59 26.035 W 141 15.612

2054 Ram up complete - S1G14 off due to consecutive no fires.

2055 SOL N 59 24.346 W 141 11.156

2100 S1G12 off - S1G14 on

2101 SIG14 off - S1G25 on - total volume 6420 cu in

2105 S1G35 on - total volume 6600 cu in

2219 S1G35 OFF DUE TO NO FIRES VOLUME NOW 6420

2343 Gun strings 3 and 4 powered down and pulled in.

0215 SP 4354 all strings firing - volume 5700 (guns 04, 12, 14, 21, 32, and 35 off)

2155 MMO Sighting – Power down to one gun LGSP 7679

2212 Begin ramp up SP 7732

2222 MMO Sighting – SHUT DOWN – All guns off

2225 EOL STEEP01_Seg2 Seq 11, Tape 23, LGSP7766 N 59 12.498, W 138 14.006

| Ab | breviations |
|-----------------------------|----------------------------|
| SOL/EOL - Start/End of Line | LGSP - Last Good SP |
| FGSP- First Good SP | LCSP - Last Chargable SP |
| FCSP - First Chargable SP | LFFSP - Last Full Fold SP |
| FOLSP - First Overlap SP | Fa - Feather Angle |
| BOT/EOT - Begin/End of Tape | SI - Seismic Interference |
| NDR - No Data Recorded | ITB - Imitation Time Break |
| NDR - No Data Recorded | ITB - Internal Time Break |
| N.T.B.P Not To Be Processed | |

| Time UTC | FILE | SP | Tape | Description |
|----------|------|------|------|---|
| 2055 | 1 | 3448 | 19 | S1G15 no fire error |
| 2057 | 8 | 3455 | 19 | S1G12 no fire error |
| 2058 | 9 | 3456 | 19 | S1G12 no fire error |
| 2058 | 11 | 3457 | 19 | S1G12 no fire error |
| 2059 | 13 | 3459 | 19 | S1G12 Timing error |
| 2100 | 14 | 3461 | 19 | S1G12 off - S1G14 on |
| 2100 | 15 | 3462 | 19 | SiG14 no fire error |
| 2100 | 16 | 3463 | 19 | S1G14 off S1G25 on |
| 2101 | 17 | 3464 | 19 | Timing error S1G25 |
| 2101 | 18 | 3465 | 19 | Timing error S1G25 |
| 2105 | 28 | 3475 | 19 | \$1G35 on |
| 2105 | 28 | 3475 | 19 | S1G35 timing error |
| 2119 | 65 | 3512 | 19 | S1G35 No fire |
| 2125 | 81 | 3527 | 19 | S1G35 No fire |
| 2126 | 83 | 3531 | 19 | S1G35 No fire |
| 2127 | 86 | 3534 | 19 | S1G35 No fire |
| 2128 | 90 | 3538 | 19 | S1G35 No fire |
| 2131 | 98 | 3546 | 19 | S1G35 No fire |
| 2134 | 105 | 3553 | 19 | S1G35 No fire |
| 2136 | 110 | 3558 | 19 | S1G35 No fire |
| 2137 | 113 | 3561 | 19 | S1G35 No fire |
| 2137 | 125 | 3573 | 19 | S1G35 No fire |
| 2143 | 129 | 3577 | 19 | S1G35 No fire |
| 2145 | 136 | 3584 | 19 | S1G35 No fire |
| 2147 | 139 | 3587 | 19 | S1G35 No fire |
| 2150 | 148 | 3596 | 19 | S1G35 No fire |
| 2153 | 155 | 3603 | 19 | S1G35 No fire |
| 2154 | 156 | 3606 | 19 | S1G35 No fire |
| 2154 | 160 | 3608 | 19 | S1G35 No fire |
| 2155 | 163 | 3611 | 19 | S1G35 No fire |
| 2159 | 172 | 3620 | 19 | S1G35 No fire |
| 2201 | 180 | 3627 | 19 | S1G35 No fire |
| 2203 | 184 | 3632 | 19 | S1G35 No fire |
| | 199 | 3647 | 19 | S1G35 NO FIRE |
| | 204 | 3650 | 19 | S1G35 NO FIRE |
| 2211 | 208 | 3654 | 19 | S1G35 NO FIRE |
| 2340 | 452 | 3900 | 19 | S1G31 No fire |
| 2340 | 452 | 3900 | 19 | S1G32 No fire |
| 2340 | 453 | 3901 | 19 | S1G32 No fire |
| 2340 | 454 | 3902 | 19 | S1G32 No fire |
| 2341 | 455 | 3903 | 19 | S1G32 No fire |
| 2342 | 456 | 3904 | 19 | S1G32 No fire |
| 2342 | 457 | 3905 | 19 | S1G32 No fire |
| 2343 | 458 | 3906 | 19 | S1G32 No fire |
| 0216 | 907 | 4354 | 19 | Timing error strings 3-4; first shot online |
| 0217 | 908 | 4355 | 19 | no fire 29,25,21,22,40,34,31 |
| 0217 | 909 | 4356 | 19 | no fire 21 |
| 0217 | 910 | 4357 | 19 | no fire 21,35,32 |
| 0217 | 911 | 4358 | 19 | no fire 21,32 |

| 0218 | 912 | 4359 | 19 | no fire 21,32 |
|------|------|------|----|---------------|
| 0218 | 913 | 4360 | 19 | no fire 21,32 |
| 0218 | 914 | 4361 | 19 | no fire 21,32 |
| 0219 | 915 | 4362 | 19 | no fire 21,32 |
| 0219 | 916 | 4363 | 19 | no fire 21,32 |
| 0219 | 917 | 4364 | 19 | no fire 21,32 |
| 0220 | 918 | 4365 | 19 | no fire 32 |
| 0220 | 919 | 4366 | 19 | no fire 21,32 |
| 0221 | 920 | 4368 | 19 | no fire,32 |
| 0221 | 921 | 4369 | 19 | no fire 32 |
| 0222 | 922 | 4370 | 19 | no fire 32 |
| 0222 | 923 | 4371 | 19 | no fire 21,32 |
| 0222 | 924 | 4372 | 19 | no fire 32 |
| 0223 | 925 | 4373 | 19 | no fire 21,32 |
| 0223 | 926 | 4374 | 19 | no fire 32 |
| 0223 | 927 | 4375 | 19 | no fire 21,32 |
| 0224 | 928 | 4376 | 19 | no fire 21,32 |
| 0224 | 929 | 4377 | 19 | no fire 32 |
| 0224 | 930 | 4378 | 19 | no fire 21,32 |
| 0225 | 931 | 4379 | 19 | no fire 21,32 |
| 0225 | 932 | 4380 | 19 | no fire 21,32 |
| 0308 | 1056 | 4504 | 19 | no fire 05 |
| 1427 | 2932 | 6387 | 22 | no fire 05 |
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| Vessel | Langseth |
|------------|----------------|
| Client | Gulick LDEO |
| Area | Gulf of Alaska |
| Job Number | MGL0814 |

| SP# | 953 | 5152 | LGSP | 5152 |
|--------|-----|------|------|------|
| Tape # | 24 | 28 | FGSP | 953 |
| | SOL | EOL | | |

| Streamer Parameters | | | | |
|---------------------|------|---|---|---|
| | 1 | 2 | 3 | 4 |
| Length | 8000 | | | |
| Auxiliaries | | | | |
| Shotpoint Interval: | 50 | | | |
| Offset CS - CFG | | | | |
| Group Interval: | | | | |
| Number of channels | 636 | | | |
| SOL Cable Noise, µB | | | | |
| EOL Cable Noise, µB | | | | |

| Party Chief | B McKiernan |
|---------------|-------------|
| Ch. Observer | B McKiernan |
| Sen. Observer | |
| Observers | |

| Line | STEEP02M |
|-----------|----------|
| Sequence | 013 |
| Direction | 222 |

| Source Parameters | | |
|-------------------|--------------------|--|
| Total Volume | 6600/in3 | |
| Work Pressure | 2000psi +/- 100psi | |
| Dual Source | no | |
| Depth | 9m | |
| Source Separation | 9m | |
| Center Source to | | |
| Nav. Antenna | | |

| Recording Parameters | | | |
|-----------------------|--------------|--|--|
| Record Length | 16s | | |
| Total recording delay | 0 | | |
| Sample Rate | 2ms | | |
| Polarity | | | |
| Low-Cut | 2Hz /12DB | | |
| Hi-Cut | 206Hz/276 DB | | |
| Tape Format | SEGD rev. 1 | | |

| Description | SOL/FQCSP | EOL/LQCSP |
|--------------------|-----------|-----------|
| FSID | | |
| Date dd/mm/yy | 29/09/08 | |
| Time UTC | | |
| Volume (cu in.) | S1 6560 | |
| Streamer Depth (m) | 9 | 9 |
| Wind (kts) | | |
| Sea State (ft) | | |
| Water Depth (m) | | |

| Cable | Erased Channels | Noisy/Weak Channels |
|-------|-----------------|---------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| | | Dua Maria Godin I |

| Auxiliaries | | |
|--------------------------------|-------|---|
| Aux. 1-8 | Empty | |
| Aux. 13-16 | Empty | |
| | | |
| | | |
| Aux 9 Gun hydrophone | Empty | |
| Aux 10 Gun hydrophone | Empty | |
| Aux 11 Gun hydrophone | Empty | |
| Aux 12 Gun hydrophone | Empty | |
| Aux. 16: Port Outer hydrophone | | • |

| General / Line Comments |
|---|
| FGSP 953 @ 0136 hrs N 59 47 57611 W 139 43 36902 Depth 114 Tension 3277 |
| SP 1647 Shut down Gun 7 string 02 due to multiple no fires |
| 0540-0620 Bird Depth Changed to 6m for birds 15-27 |
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| Line Status: |

| Abbreviations | | |
|-----------------------------|----------------------------|--|
| SOL/EOL - Start/End of Line | LGSP - Last Good SP | |
| FGSP- First Good SP | LCSP - Last Chargable SP | |
| FCSP - First Chargable SP | LFFSP - Last Full Fold SP | |
| FOLSP - First Overlap SP | Fa - Feather Angle | |
| BOT/EOT - Begin/End of Tape | SI - Seismic Interference | |
| NDR - No Data Recorded | ITB - Imitation Time Break | |
| NDR - No Data Recorded | ITB - Internal Time Break | |
| N.T.B.P Not To Be Processed | | |

| Time UTC | FILE | SP | Таре | Description |
|----------|-----------|-----------|------|--|
| 0138 | 6,7,8 | | 24 | shots called SP=0 3x |
| 0140 | 9 | 960 | 24 | shots recorded correctly after 3 error shots |
| 0235 | 175 | 1144 | 24 | telemetry error: missing seismic data |
| 0239 | | 1153 | 24 | telemetry error: missing seismic data |
| 0240 | | 1154 | 24 | telemetry error: missing seismic data |
| 0242 | 196 | 1161 | 24 | telemetry error: missing seismic data |
| 0242 | 196 | 1163 | 24 | telemetry error: missing seismic data |
| 0243 | 198 | 1164 | 24 | telemetry error: missing seismic data |
| 0243 | | 1166 | 24 | telemetry error: missing seismic data |
| 0244 | | 1167 | 24 | telemetry error: missing seismic data |
| 0244 | | 1169 | 24 | telemetry error: missing seismic data |
| 0253 | 227 | 1192 | 24 | telemetry error: missing seismic data |
| 0515 | 633 | ~1600 | 24 | Module telemetry error |
| 0527 | 667 | 1634 | 24 | Module telemetry error |
| 0528 | 669 | 1636 | 24 | Module telemetry error |
| 0530 | 674 | 1641 | 24 | No Fire S1G17 |
| 0530 | 675 | 1642 | 24 | Autofire S1G17 |
| 0531 | 676 | 1643 | 24 | Delta Timing Error S1G17 |
| 0531 | 677 | 1644 | 24 | No Fire S1G17 |
| 0531 | 678 | 1645 | 24 | No Fire S1G17 |
| 0532 | 679 | 1646 | 24 | No Fire S1G17 |
| 0532 | 680 | 1647 | 24 | Delta Timing Error S1G17 |
| 0538 | 694 | 1662 | 24 | Module telemetry error |
| 12:58 | 1960 | 2923 | 26 | No fire S1G25 |
| 1607 | 2506 | 3473 | 26 | telemetry error: missing seismic data |
| 1608 | 2508 | 3475 | 26 | telemetry error: missing seismic data |
| 1608 | 2509 | 3476 | 26 | telemetry error: missing seismic data |
| 1608 | 2510 | 3477 | 26 | telemetry error: missing seismic data |
| 1820 | 2871 | 3838 | 26 | telemetry error: missing seismic data |
| 1841 | 2927 | 3895 | 27 | Birds 15 and 16 set at 9 m |
| 1853 | 2958 | 3926 | 27 | telemetry error: missing seismic data |
| 1856 | 2966-2968 | 3934-3936 | 27 | telemetry error: missing seismic data |
| 1903 | 2982-2984 | 3950-3952 | 27 | telemetry error: missing seismic data |
| 1903 | 2986 | 3954 | 27 | telemetry error: missing seismic data |
| 1904 | 2990-2992 | 3958-3960 | 27 | telemetry error: missing seismic data |
| 1906 | 2994-2996 | 3962-3964 | 27 | telemetry error: missing seismic data |
| 1907 | 2998-3001 | 3966-3969 | 27 | telemetry error: missing seismic data |
| 1909 | 3003-3007 | 3971-3975 | 27 | telemetry error: missing seismic data |
| 1913 | 3013-3018 | 3981-3986 | 27 | telemetry error: missing seismic data |
| 1917 | 3024 | 3991 | 27 | telemetry error: missing seismic data |
| 1918 | 3026-3033 | 3995-4002 | 27 | telemetry error: missing seismic data |
| 1931 | 3057 | 4024 | 27 | telemetry error: missing seismic data |
| 1933 | 3063-3066 | 4030-4033 | 27 | telemetry error: missing seismic data |
| 1941 | 3084 | 4051 | 27 | telemetry error: missing seismic data |
| 1948 | 3099 | 4066 | 27 | telemetry error: missing seismic data |
| 1951 | 3107 | 4074 | 27 | telemetry error: missing seismic data |
| 1955 | 3118 | 4085 | 27 | telemetry error: missing seismic data |
| 2026 | 3192 | 4159 | 27 | telemetry error: missing seismic data |
| 2027 | 3194 | 4161 | 27 | telemetry error: missing seismic data |

| 2029 | 3198 | 4165 | 27 | telemetry error: missing seismic data telemetry error: missing seismic data MMO powerdown Guns at Full power |
|-------------|------|------|-----|--|
| 2207 | 3457 | 4424 | 27 | telemetry error: missing seismic data |
| 2219 | 3505 | 4456 | 27 | MMO powerdown |
| 2224 | 3505 | 4465 | 27 | Guns at Full power |
| 2224 | 3303 | 4403 | 21 | Cuits at 1 uii power |
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| Vessel | Langseth | |
|------------|----------------|--|
| Client | Gulick LDEO | |
| Area | Gulf of Alaska | |
| Job Number | MGL0814 | |

| | SOL | EOL | | |
|--------|-----|------|------|------|
| Tape # | 29 | 32 | FGSP | 616 |
| SP# | 361 | 4305 | LGSP | 4305 |

| Streamer Parameters | | | | |
|---------------------|------|---|---|---|
| | 1 | 2 | 3 | 4 |
| Length | 8000 | | | |
| Auxiliaries | | | | |
| Shotpoint Interval: | 50 | | | |
| Offset CS - CFG | | | | |
| Group Interval: | | | | |
| Number of channels | 636 | | | |
| SOL Cable Noise, µB | | | | |
| EOL Cable Noise, μB | | • | | |

| Party Chief | B McKiernan |
|---------------|-------------|
| Ch. Observer | B McKiernan |
| Sen. Observer | |
| Observers | |

| Line | STEEP11 |
|-----------|---------|
| Sequence | 014 |
| Direction | 331 |

| Source Parameters | | |
|-------------------|--------------------|--|
| Total Volume | 6600/in3 | |
| Work Pressure | 2000psi +/- 100psi | |
| Dual Source | no | |
| Depth | 9m | |
| Source Separation | 9m | |
| Center Source to | | |
| Nav. Antenna | | |

| Recording Parameters | | | |
|-----------------------|--------------|--|--|
| Record Length | 16s | | |
| Total recording delay | 0 | | |
| Sample Rate | 2ms | | |
| Polarity | | | |
| Low-Cut | 2Hz /12DB | | |
| Hi-Cut | 206Hz/276 DB | | |
| Tape Format | SEGD rev. 1 | | |

| Description | SOL/FQCSP | EOL/LQCSP |
|--------------------|-----------|-----------|
| FSID | | |
| Date dd/mm/yy | 30/09/08 | |
| Time UTC | 0244 | |
| Volume (cu in.) | S1 6380 | |
| Streamer Depth (m) | 9 | 9 |
| Wind (kts) | | |
| Sea State (ft) | | |
| Water Depth (m) | | |

| Cable | Erased Channels | Noisy/Weak Channels |
|-------|-----------------|---------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| | | Dua Maria Godin I |

| Auxiliaries | | |
|--------------------------------|-------|--|
| Aux. 1-8 | Empty | |
| Aux. 13-16 | Empty | |
| | | |
| | | |
| Aux 9 Gun hydrophone | Empty | |
| Aux 10 Gun hydrophone | Empty | |
| Aux 11 Gun hydrophone | Empty | |
| Aux 12 Gun hydrophone | Empty | |
| Aux. 16: Port Outer hydrophone | | |

| General / Line Comments | |
|---|--|
| 0627 Depth of all birds changed to 12m due to bad weather; SP 998 | |
| | |
| 9/30/08 - 2024 S1G18 of f due to no fires, volume at 5840 | |
| | |
| EOL at 0155 hrs UTC SP # 4305 File # 3943 | |
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| | |
| Line Status: | |

| Ab | breviations | |
|-----------------------------|----------------------------|--|
| SOL/EOL - Start/End of Line | LGSP - Last Good SP | |
| FGSP- First Good SP | LCSP - Last Chargable SP | |
| FCSP - First Chargable SP | LFFSP - Last Full Fold SP | |
| FOLSP - First Overlap SP | Fa - Feather Angle | |
| BOT/EOT - Begin/End of Tape | SI - Seismic Interference | |
| NDR - No Data Recorded | ITB - Imitation Time Break | |
| NDR - No Data Recorded | ITB - Internal Time Break | |
| N.T.B.P Not To Be Processed | | |

| Time UTC | FILE | SP | Таре | Description |
|----------|--------------|--------------|------|---|
| 05:08 | 389 | 752 | 29 | Timing Error S1G32 |
| | 1515 | 1877 | 29 | Telemetry Error |
| 12:31 | 1680 | 2042 | 29 | No Fire S1G20 |
| 12:31 | 1681 | 2043 | 29 | Timing Error S1G20 3.1 ms |
| 12:31 | 1682 | 2044 | 29 | Timing Error S1G20 7.5 ms |
| 12:32 | 1683 | 2045 | 29 | Timing Error S1G20 6.3 ms |
| 12:32 | 1684 | 2046 | 29 | Timing Error S1G20 8.2 ms |
| 12:32 | 1685 | 2047 | 29 | Timing Error S1G20 2.2 ms |
| 12:45 | 1718 | 2080 | 29 | No Fire S1G20 |
| 12:45 | 1719 | 2081 | 29 | No Fire S1G20 |
| 12:46 | 1720 | 2082 | 29 | No Fire S1G20 |
| 12:46 | 1721 | 2083 | 29 | No Fire S1G20 |
| 12:47 | 1722 | 2084 | 29 | No Fire S1G20; Disabled S1G20; S1G18 online |
| 12:47 | 1723 | 2085 | 29 | No Fire S1G18 |
| 12:47 | 1724 | 2086 | 29 | No Fire S1G18 |
| | 1730 | 2092 | 29 | No Fire S1G18 |
| 12:50 | 1732 | 2094 | 29 | No Fire S1G18 |
| 12:51 | 1733 | 2095 | 29 | No Fire S1G18 |
| 12:51 | 1735 | 2097 | 29 | No Fire S1G18 |
| 12:51 | 1736 | 2098 | 29 | No Fire S1G18 |
| 12:52 | 1739 | 2101 | 29 | No Fire S1G18 |
| 12:54 | 1744 | 2106 | 29 | No Fire S1G18 |
| 12:55 | 1746 | 2108 | 29 | No Fire S1G18 |
| 12:55 | 1747 | 2109 | 29 | No Fire S1G18 |
| 12:57 | 1751 | 2113 | 29 | No Fire S1G18 |
| 12:59 | 1757 | 2119 | 29 | No Fire S1G18 |
| 13:00 | 1759 | 2121 | 29 | No Fire S1G18 |
| 13:02 | 1766 | 2121 | 29 | No Fire S1G18 |
| 13:03 | 1769 | 2131 | 29 | No Fire S1G18 |
| 13:04 | 1771 | 2133 | 29 | No Fire S1G18 |
| 13:05 | 1774 | 2136 | 29 | No Fire S1G18 |
| 13:06 | 1776 | 2138 | 29 | No Fire S1G18 |
| 13:07 | 1780 | 2142 | 29 | No Fire S1G18 |
| 13:07 | | | 29 | No Fire S1G18 |
| 13:10 | 1781 1787 | 2143 2149 | 29 | No Fire S1G18 |
| | | | | No Fire S1G18 |
| 13:12 | 1792 | 2154 | 29 | |
| 13:13 | 1796 | 2158 | 29 | No Fire \$1G18 |
| 13:15 | 1801 | 2163 | 29 | No Fire S1G18 and S1G22 |
| 13:16 | 1804 | 2166 | 29 | No Fire S1G18 |
| 13:17 | 1805 | 2167 | 29 | No Fire S1G18 |
| 13:17 | 1806 | 2168 | 29 | No Fire S1G18 |
| 13:18 | 1808 | 2170 | 29 | No Fire S1G18 |
| 13:23 | 1821 | 2183 | 29 | No Fire S1G18 and S1G22 |
| 13:23 | 1823 | 2185 | 29 | No Fire S1G18 |
| 13:29 | 1838 | 2200 | 30 | No Fire S1G18 |
| 13:31 | 1844 | 2206 | 30 | No Fire S1G18 |
| 13:32 | 1845 | 2207 | 30 | No Fire S1G18 |
| 13:32 | 1846 | 2208 | 30 | No Fire S1G18 |
| 13:37 | 1858 | 2220 | 30 | No Fire S1G18 |

| 15.39 | 13:38 | 1863 | 2225 | 30 | No Fire S1G18 |
|---|-------|------|------|----|---------------|
| 13,44 | | | | | |
| 13:42 | | | | | |
| 13:42 | | | | | |
| 13:42 | | | | | |
| 1343 | | | | | |
| 1343 | | | | | |
| 13:45 | | | | | |
| 13-45 | | | | | |
| 13:48 | | | | | |
| 13:51 1895 2264 30 | | | | | |
| 13:54 | | | | | |
| 13:54 1903 2284 30 No Fire SIGIS 13:58 1913 2285 30 No Fire SIGIS 14:01 1922 2284 30 No Fire SIGIS 14:02 1923 2285 30 No Fire SIGIS 14:02 1923 2285 30 No Fire SIGIS 14:02 1925 2287 30 No Fire SIGIS 14:03 1926 2288 30 No Fire SIGIS 14:03 1926 2288 30 No Fire SIGIS 14:04 1934 2296 31 No Fire SIGIS 14:05 1932 2294 31 No Fire SIGIS 14:06 1934 2296 31 No Fire SIGIS 14:08 1939 2301 31 No Fire SIGIS 14:08 1940 2302 31 No Fire SIGIS 14:10 1944 2306 31 No Fire SIGIS 14:10 1945 2307 31 No Fire SIGIS 14:11 1947 2309 31 No Fire SIGIS 14:11 1947 2309 31 No Fire SIGIS 14:14 1956 2318 31 No Fire SIGIS 14:16 1961 2323 31 No Fire SIGIS 14:16 1961 2323 31 No Fire SIGIS 14:18 1966 2328 31 No Fire SIGIS 14:18 1966 2328 31 No Fire SIGIS 14:22 1977 2339 31 No Fire SIGIS 14:23 1979 2341 31 No Fire SIGIS 14:34 2000 2365 31 No Fire SIGIS 14:34 2000 2365 31 No Fire SIGIS 14:35 2012 2373 31 No Fire SIGIS 14:44 2032 2394 31 No Fire SIGIS 14:45 2035 2397 31 No Fire SIGIS 14:45 2035 2397 31 No Fire SIGIS 14:45 2035 2397 31 No Fire SIGIS 14:49 20:40 20:40 | | | | | |
| 13:58 | | | | | |
| 14:01 19:22 2284 30 No Fire SIG18 14:02 19:23 2285 30 No Fire SIG18 14:02 19:25 2287 30 No Fire SIG18 14:03 19:26 2288 30 No Fire SIG18 14:03 19:26 2288 30 No Fire SIG18 14:05 19:32 2294 31 No Fire SIG18 14:06 19:34 2296 31 No Fire SIG18 14:08 19:39 23:01 31 No Fire SIG18 14:08 19:39 23:01 31 No Fire SIG18 14:08 19:40 23:02 31 No Fire SIG18 14:10 19:44 23:06 31 No Fire SIG18 14:10 19:45 23:07 31 No Fire SIG18 14:11 19:47 23:09 31 No Fire SIG18 14:11 19:47 23:09 31 No Fire SIG18 14:13 19:54 23:16 31 No Fire SIG18 14:16 19:61 23:23 31 No Fire SIG18 14:16 19:61 23:23 31 No Fire SIG18 14:16 19:61 23:23 31 No Fire SIG18 14:19 19:69 23:31 31 No Fire SIG18 14:22 19:77 23:39 31 No Fire SIG18 14:22 19:77 23:39 31 No Fire SIG18 14:22 19:77 23:39 31 No Fire SIG18 14:22 19:78 23:44 31 No Fire SIG18 14:25 19:99 23:41 31 No Fire SIG18 14:26 19:86 23:48 31 No Fire SIG18 14:31 20:01 23:63 31 No Fire SIG18 14:32 20:02 23:64 31 No Fire SIG18 14:33 20:01 23:63 31 No Fire SIG18 14:34 20:08 23:37 31 No Fire SIG18 14:35 20:02 23:64 31 No Fire SIG18 14:35 20:01 23:63 31 No Fire SIG18 14:35 20:01 23:63 31 No Fire SIG18 14:35 20:01 23:63 31 No Fire SIG18 14:35 20:02 23:64 31 No Fire SIG18 14:35 20:01 23:71 31 Timing error SIG12 14:35 20:02 23:64 31 No Fire SIG18 14:35 20:02 23:71 31 Timing error SIG12 14:35 20:02 23:71 31 Timing error SIG12 14:35 20:02 23:71 31 Timing error SIG18 14:44 20:03 23:84 31 No Fire SIG18 14:44 20:05 23:94 31 No Fire SIG18 14:45 | | | | | |
| 14-02 | | | | | |
| 14-02 | 14:01 | 1922 | | | |
| 14:03 | | | | | |
| 14:05 | 14:02 | 1925 | 2287 | 30 | No Fire S1G18 |
| 14:06 | 14:03 | 1926 | 2288 | 30 | No Fire S1G18 |
| 14:08 | 14:05 | 1932 | 2294 | 31 | No Fire S1G18 |
| 14:08 | 14:06 | 1934 | 2296 | 31 | No Fire S1G18 |
| 14:10 | 14:08 | 1939 | 2301 | 31 | No Fire S1G18 |
| 14:10 | 14:08 | 1940 | 2302 | 31 | No Fire S1G18 |
| 14:10 | 14:10 | 1944 | 2306 | 31 | No Fire S1G18 |
| 14:11 1947 2309 31 No Fire SIG18 14:13 1954 2316 31 No Fire SIG18 14:14 1956 2318 31 No Fire SIG18 14:16 1961 2323 31 No Fire SIG18 14:16 1962 2324 31 No Fire SIG18 14:19 1969 2331 31 No Fire SIG18 14:19 1969 2331 31 No Fire SIG18 14:22 1977 2339 31 No Fire SIG18 14:23 1979 2341 31 No Fire SIG18 14:24 1986 2348 31 No Fire SIG18 14:25 1979 2341 31 No Fire SIG18 14:24 100 2363 31 No Fire SIG18 1431 2001 2363 31 No Fire SIG18 1432 2002 2364 31 No Fire SIG18 1434 2008 2370 31 No Fire SIG18 | | 1945 | | | No Fire S1G18 |
| 14:13 1954 2316 31 No Fire SIG18 14:14 1956 2318 31 No Fire SIG18 14:16 1961 2323 31 No Fire SIG18 14:16 1962 2324 31 No Fire SIG18 14:18 1966 2328 31 No Fire SIG18 14:19 1969 2331 31 No Fire SIG18 14:22 1977 2339 31 No Fire SIG18 14:23 1979 2341 31 No Fire SIG18 14:26 1986 2348 31 No Fire SIG18 1431 2001 2363 31 No Fire SIG18 1432 2002 2364 31 No Fire SIG18 1434 2008 2370 31 No Fire SIG18 1435 2010 2371 31 No Fire SIG18 1435 2010 2371 31 Timing error SIG12 1435 2010 2373 31 No Fire SIG18 | | | | | |
| 14:14 1956 2318 31 No Fire SIG18 14:16 1961 2323 31 No Fire SIG18 14:16 1962 2324 31 No Fire SIG18 14:18 1966 2328 31 No Fire SIG18 14:19 1969 2331 31 No Fire SIG18 14:22 1977 2339 31 No Fire SIG18 14:23 1979 2341 31 No Fire SIG18 14:26 1986 2348 31 No Fire SIG18 1431 2001 2363 31 No Fire SIG18 1432 2002 2364 31 No Fire SIG18 1432 2003 2365 31 No Fire SIG18 1434 2008 2370 31 No Fire SIG18 1435 2010 2371 31 No Fire SIG18 1435 2010 2373 31 No Fire SIG18 1440 2023 2384 31 No Fire SIG18 </td <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | |
| 14:16 1961 2323 31 No Fire SIG18 14:16 1962 2324 31 No Fire SIG18 14:18 1966 2328 31 No Fire SIG18 14:19 1969 2331 31 No Fire SIG18 14:22 1977 2339 31 No Fire SIG18 14:23 1979 2341 31 No Fire SIG18 14:26 1986 2348 31 No Fire SIG18 1431 2001 2363 31 No Fire SIG18 1432 2002 2364 31 No Fire SIG18 1432 2003 2365 31 No Fire SIG18 1434 2008 2370 31 No Fire SIG18 1435 2010 2371 31 Timing error SIG12 1435 2012 2373 31 No Fire SIG18 1437 2014 2376 31 No Fire SIG18 1440 2023 2384 31 No Fire SIG18 | | | | | |
| 14:16 1962 2324 31 No Fire S1G18 14:18 1966 2328 31 No Fire S1G18 14:19 1969 2331 31 No Fire S1G18 14:22 1977 2339 31 No Fire S1G18 14:23 1979 2341 31 No Fire S1G18 14:26 1986 2348 31 No Fire S1G18 1431 2001 2363 31 No Fire S1G18 1432 2002 2364 31 No Fire S1G18 1432 2003 2365 31 No Fire S1G18 1434 2008 2370 31 No Fire S1G18 1435 2010 2371 31 Timing error S1G12 1435 2012 2373 31 No Fire S1G18 1447 2014 2376 31 No Fire S1G18 1440 2023 2384 31 No Fire S1G18 1445 2035 2394 31 No Fire S1G18 | | | | | |
| 14:18 1966 2328 31 No Fire S1G18 14:19 1969 2331 31 No Fire S1G18 14:22 1977 2339 31 No Fire S1G18 14:23 1979 2341 31 No Fire S1G18 14:26 1986 2348 31 No Fire S1G18 1431 2001 2363 31 No Fire S1G18 1432 2002 2364 31 No Fire S1G18 1432 2003 2365 31 No Fire S1G18 1434 2008 2370 31 No Fire S1G18 1435 2010 2371 31 Timing error S1G12 1435 2012 2373 31 No Fire S1G18 1440 2023 2384 31 No Fire S1G18 1440 2023 2384 31 No Fire S1G18 1445 2035 2396 31 No Fire S1G18 1445 2035 2396 31 No Fire S1G18 1447 2040 2402 31 No Fire S1G18 | | | | | |
| 14:19 1969 2331 31 No Fire S1G18 14:22 1977 2339 31 No Fire S1G18 14:23 1979 2341 31 No Fire S1G18 14:26 1986 2348 31 No Fire S1G18 1431 2001 2363 31 No Fire S1G18 1432 2002 2364 31 No Fire S1G18 1432 2003 2365 31 No Fire S1G18 1434 2008 2370 31 No Fire S1G18 1435 2010 2371 31 Timing error S1G12 1435 2012 2373 31 No Fire S1G18 1447 2014 2376 31 No Fire S1G18 1440 2023 2384 31 No Fire S1G18 1444 2032 2394 31 No Fire S1G18 1445 2035 2396 31 No Fire S1G18 1447 2040 2402 31 No Fire S1G18 1449 2043 2405 31 No Fire S1G18 | | | | | |
| 14:22 1977 2339 31 No Fire S1G18 14:23 1979 2341 31 No Fire S1G18 14:26 1986 2348 31 No Fire S1G18 1431 2001 2363 31 No Fire S1G18 1432 2002 2364 31 No Fire S1G18 1432 2003 2365 31 No Fire S1G18 1434 2008 2370 31 No Fire S1G18 1435 2010 2371 31 Timing error S1G12 1435 2012 2373 31 No Fire S1G18 1437 2014 2376 31 No Fire S1G18 1440 2023 2384 31 No Fire S1G18 1444 2032 2394 31 No Fire S1G18 1445 2035 2396 31 No Fire S1G18 1447 2040 2402 31 No Fire S1G18 1449 2043 2405 31 No Fire S1G18 1459 2068 2430 31 No Fire S1G18 | | | | | |
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| 1459 2068 2430 31 No Fire S1G18 | | | | | |
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| 1501 2074 2436 31 No Fire S1G18 | | | | | |
| | 1501 | 2074 | 2436 | 31 | No Fire S1G18 |

| 1502 | 1502 | 2076 | 2438 | 31 | No Fire S1G18 |
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| 1504 2080 2442 31 No Fire SIGIS | | | | | |
| 1504 2081 2443 31 No Fire SIGI8 1507 2088 2450 31 No Fire SIGI8 1507 2088 2450 31 No Fire SIGI8 1509 2093 2455 31 No Fire SIGI8 1510 2095 2456 31 No Fire SIGI8 1510 2095 2456 31 No Fire SIGI8 1511 2097 2459 31 No Fire SIGI8 1513 2103 2465 31 No Fire SIGI8 1513 2106 2468 31 No Fire SIGI8 1515 2106 2468 31 No Fire SIGI8 1516 2109 2470 31 No Fire SIGI8 1516 2109 2471 31 No Fire SIGI8 1516 2109 2471 31 No Fire SIGI8 1519 2117 2479 31 No Fire SIGI8 1519 2117 2479 31 No Fire SIGI8 1520 2118 2480 31 No Fire SIGI8 1521 2122 2484 31 No Fire SIGI8 1522 2124 2486 31 No Fire SIGI8 1525 2123 2485 31 No Fire SIGI8 1525 2130 2492 31 No Fire SIGI8 1525 2130 2492 31 No Fire SIGI8 1526 2132 2494 31 No Fire SIGI8 1526 2132 2494 31 No Fire SIGI8 1526 2132 2494 31 No Fire SIGI8 1526 2132 2497 31 No Fire SIGI8 1536 2156 2518 31 No Fire SIGI8 1545 2177 2373 31 No Fire SIGI8 1545 2179 2539 31 No Fire SIGI8 1546 2296 2607 31 No Fire SIGI8 1546 2296 2607 31 No Fire SIGI8 1546 2296 2607 31 No | | | | | |
| 1504 2082 2444 31 | | | | | |
| 1507 2088 2459 31 No Fire SIGI8 | | | | | |
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| 1522 | | 2118 | | | |
| 1522 | | 2122 | | 31 | No Fire S1G18 |
| 1524 2129 2491 31 No Fire SIGI8 1525 2130 2492 31 No Fire SIGI8 1525 2131 2493 31 No Fire SIGI8 1526 2132 2494 31 timing error SIGI2 1526 2133 2495 31 timing error SIGI2 1527 2135 2497 31 timing error SIGI2 1527 2135 2497 31 timing error SIGI1 1534 2154 2514 31 No Fire SIGI8 1536 2156 2518 31 No Fire SIGI8 1536 2156 2518 31 No Fire SIGI8 1541 2167 2529 31 No Fire SIGI8 1545 2177 2537 31 No Fire SIGI8 1545 2178 2538 31 No Fire SIGI8 1545 2179 2539 31 No Fire SIGI8 1545 2179 2539 31 No Fire SIGI8 1548 2185 2545 31 No Fire SIGI8 1548 2185 2545 31 No Fire SIGI8 1606 2218 2580 31 No Fire SIGI8 1606 2229 2591 31 No Fire SIGI8 1612 2229 2591 31 No Fire SIGI8 1628 2265 2627 31 No Fire SIGI8 1631 2272 2634 31 No Fire SIGI8 1631 2272 2634 31 No Fire SIGI8 1634 2279 2641 31 No Fire SIGI8 1634 2279 2641 31 No Fire SIGI8 1646 2296 2670 31 No Fire SIGI8 1646 2296 2670 31 No Fire SIGI8 1646 2296 2670 31 No Fire SIGI8 1656 2320 2694 31 No Fire SIGI8 1656 2320 2694 31 No Fire SIGI8 1656 2320 2694 31 No Fire SIGI8 1657 2325 2699 31 No Fire SIGI8 1657 2325 2699 31 No Fire SIGI8 1657 2325 2699 31 No Fire SIGI8 1659 2329 2703 31 No Fire SIGI8 1650 2336 2710 31 No Fire SIGI8 1650 2 | 1522 | 2123 | 2485 | 31 | No Fire S1G18 |
| 1525 2130 2492 31 No Fire S1G18 1526 2131 2493 31 No Fire S1G18 1526 2132 2494 31 timing error S1G12 1526 2133 2495 31 timing error S1G12 1527 2135 2497 31 timing error S1G11 1534 2154 2514 31 No Fire S1G18 1536 2156 2518 31 No Fire S1G18 1536 2156 2518 31 No Fire S1G18 1541 2167 2529 31 No Fire S1G18 1545 2177 2537 31 No Fire S1G18 1545 2178 2538 31 No Fire S1G18 1545 2179 2537 31 No Fire S1G18 1545 2179 2539 31 No Fire S1G18 1548 2185 2545 31 No Fire S1G18 1548 2185 2545 31 No Fire S1G18 1552 2191 2553 31 No Fire S1G18 1606 2218 2550 31 No Fire S1G18 1601 2229 2591 31 No Fire S1G18 1625 2259 2621 31 No Fire S1G18 1631 2272 2634 31 No Fire S1G18 1631 2273 2635 31 No Fire S1G18 1634 2279 2641 31 No Fire S1G18 1646 2296 2670 31 No Fire S1G18 1646 2296 2670 31 No Fire S1G18 1650 2320 2694 31 No Fire S1G18 1651 2325 2350 31 No Fire S1G18 1652 2331 2855 31 No Fire S1G18 1654 2316 2690 31 No Fire S1G18 1656 2320 2694 31 No Fire S1G18 1657 2325 2699 31 No Fire S1G18 1659 2329 2703 31 No Fire S1G18 1659 2329 2703 31 No Fire S1G18 1607 2336 2710 31 No Fire S1G18 1608 1609 31 No Fire S1G18 1609 2330 2694 31 No Fire S1G18 1657 2325 2699 31 No Fire S1G18 1659 2329 2703 31 No Fire S1G18 1609 2336 2710 31 No Fire S1G18 | 1522 | 2124 | 2486 | 31 | No Fire S1G18 |
| 1525 | 1524 | 2129 | 2491 | 31 | No Fire S1G18 |
| 1526 | 1525 | 2130 | 2492 | 31 | No Fire S1G18 |
| 1526 | 1525 | 2131 | 2493 | 31 | No Fire S1G18 |
| 1527 | 1526 | 2132 | 2494 | 31 | timing error S1G12 |
| 1527 | 1526 | 2133 | 2495 | 31 | timing error S1G12 |
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| 1702 2336 2710 31 No Fire S1G18 | | | | | |
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| 1702 2337 2711 31 No Fire S1G18 | | | | | |
| | 1702 | 2337 | 2711 | 31 | No Fire S1G18 |

| 1707 | 2361 | 2723 | 31 | Telemetry Error |
|--------------|------|------|----|-------------------------|
| 1708 | 2364 | 2726 | 31 | No Fire S1G18 |
| 1712 | 2373 | 2735 | 31 | No Fire S1G18 and S1G16 |
| 1712 | 2375 | 2737 | 31 | No Fire S1G18 |
| 1714 | 2380 | 2742 | 31 | No Fire S1G18 |
| 1715 | 2381 | 2743 | 31 | No Fire S1G18 |
| 1715 | 2382 | 2744 | 31 | No Fire S1G18 |
| 1717 | 2386 | 2748 | 31 | No Fire S1G18 |
| 1721 | 2397 | 2759 | 31 | No Fire S1G18 |
| 1725 | 2409 | 2771 | 31 | No Fire S1G18 |
| 1728 | 2415 | 2778 | 31 | No Fire S1G18 |
| 1730 | 2421 | 2784 | 31 | No Fire S1G18 |
| 1731 | 2424 | 2787 | 31 | No Fire S1G18 |
| 1731 | 2425 | 2788 | 31 | No Fire S1G18 |
| 1732 | 2426 | 2789 | 31 | No Fire S1G18 |
| 1732 | 2428 | 2797 | 31 | No Fire S1G18 |
| 1734 | 2436 | 2797 | 31 | No Fire S1G18 |
| 1735 | 2438 | 2799 | 31 | No Fire S1G18 |
| 1740 | 2451 | 2812 | 31 | No Fire S1G18 |
| 1741 | 2455 | 2816 | 31 | No Fire S1G18 |
| | | | | |
| 1743 1745 | 2460 | 2821 | 31 | No Fire S1G18 |
| | 2466 | 2827 | 31 | No Fire S1G18 |
| 1749 | 2477 | 2838 | 31 | No Fire S1G18 |
| 1750 | 2480 | 2841 | 31 | No Fire S1G18 |
| 1751 | 2482 | 2843 | 31 | No Fire S1G18 |
| 1751 1752 | 2483 | 2844 | 31 | No Fire S1G18 |
| | 2485 | 2846 | 31 | No Fire S1G18 |
| 1754 | 2492 | 2853 | 31 | No Fire S1G18 |
| 1755 | 2493 | 2854 | 31 | No Fire S1G18 |
| 1759 | 2506 | 2867 | 31 | No Fire S1G18 |
| 1800 | 2508 | 2869 | 31 | No Fire S1G18 |
| 1805 | 2522 | 2883 | 31 | No Fire S1G18 |
| 1807 | 2528 | 2889 | 31 | No Fire \$1G18 |
| 1812 | 2540 | 2901 | 31 | No Fire \$1G18 |
| 1813 | 2542 | 2903 | 31 | No Fire \$1G18 |
| 1813 | 2544 | 2905 | 31 | No Fire S1G18 |
| 1816 | 2551 | 2912 | 31 | No Fire S1G18 |
| 1816 | 2553 | 2914 | 31 | No Fire S1G18 |
| 1817 | 2556 | 2917 | 31 | No Fire S1G18 |
| 1820 | 2561 | 2923 | 31 | No Fire S1G18 |
| 1825 | 2574 | 2938 | 31 | Telemetry Error |
| 1825 | 2574 | 2938 | 31 | No Fire S1G18 |
| 1826 | 2576 | 2940 | 31 | No Fire S1G18 |
| 1826 | 2577 | 2941 | 31 | No Fire S1G18 |
| 1830 | 2587 | 2951 | 31 | No Fire S1G18 |
| 1833 | 2594 | 2958 | 31 | No Fire S1G18 |
| 1835 | 2600 | 2964 | 31 | No Fire S1G18 |
| 1838 | 2609 | 2973 | 31 | No Fire S1G18 |
| 1840 | 2613 | 2977 | 31 | No Fire S1G18 |
| 1841 | 2617 | 2980 | 31 | Telemetry Error |
| 1841 | 2617 | 2980 | 31 | No Fire S1G18 |

| 1843 | 7 2622 | 1 2005 | l 21 | No Fire S1G18 |
|------|-----------|-----------|------|-----------------|
| | 2622 | 2985 | 31 | |
| 1843 | 2623 | 2986 | 31 | No Fire S1G18 |
| 1844 | 2625 | 2988 | 31 | No Fire S1G18 |
| 1849 | 2639 | 3002 | 31 | No Fire S1G18 |
| 1851 | 2647 | 3010 | 31 | No Fire S1G18 |
| 1853 | 2652 | 3015 | 31 | No Fire S1G18 |
| 1854 | 2653 | 3016 | 31 | No Fire S1G18 |
| 1854 | 2655 | 3018 | 31 | No Fire S1G18 |
| 1858 | 2666 | 3029 | 31 | No Fire S1G18 |
| 1900 | 2671 | 3034 | 31 | No Fire S1G18 |
| 1900 | 2672 | 3035 | 31 | No Fire S1G18 |
| 1901 | 2674 | 3037 | 31 | No Fire S1G18 |
| 1902 | 2676 | 3039 | 31 | No Fire S1G18 |
| 1903 | 2679 | 3042 | 31 | No Fire S1G18 |
| 1904 | 2683 | 3046 | 31 | No Fire S1G18 |
| 1905 | 2684 | 3047 | 31 | No Fire S1G18 |
| 1905 | 2685 | 3048 | 31 | No Fire S1G18 |
| 1909 | 2697 | 3060 | 31 | No Fire S1G18 |
| 1914 | 2712 | 3075 | 31 | No Fire S1G18 |
| 1922 | 2732 | 3097 | 31 | Telemetry Error |
| 1925 | 2740 | 3105 | 31 | No Fire S1G18 |
| 1928 | 2750 | 3115 | 31 | Telemetry Error |
| 1929 | 2751 | 3116 | 31 | Telemetry Error |
| 1930 | 2753-2755 | 3118-3120 | 31 | Telemetry Error |
| 1932 | 2760 | 3125 | 31 | No Fire S1G18 |
| 1933 | 2763 | 3128 | 31 | No Fire S1G18 |
| 1934 | 2764 | 3129 | 31 | No Fire S1G18 |
| 1935 | 2769 | 3134 | 31 | No Fire S1G18 |
| 1935 | 2770 | 3135 | 31 | No Fire S1G18 |
| 1936 | 2772 | 3137 | 31 | No Fire S1G18 |
| 1936 | 2773 | 3138 | 31 | No Fire S1G18 |
| 1938 | 2777 | 3142 | 31 | No Fire S1G18 |
| 1939 | 2782 | 3147 | 31 | No Fire S1G18 |
| 1943 | 2891 | 3156 | 31 | No Fire S1G18 |
| 1943 | 2892 | 3157 | 31 | No Fire S1G18 |
| 1944 | 2896 | 3161 | 31 | No Fire S1G18 |
| 1945 | 2898 | 3163 | 31 | No Fire S1G18 |
| 1945 | 2899 | 3164 | 31 | No Fire S1G18 |
| 1946 | 2900 | 3165 | 31 | No Fire S1G18 |
| 1947 | 2903 | 3167 | 31 | No Fire S1G18 |
| 1947 | 2904 | 3168 | 31 | No Fire S1G18 |
| 1949 | 2910 | 3174 | 31 | Timing Error |
| 1949 | 2912 | 3176 | 31 | Timing Error |
| 1953 | 2921 | 3185 | 31 | No fire S1G18 |
| 1955 | 2927 | 3191 | 31 | No fire S1G18 |
| 1956 | 2930 | 3195 | 31 | No fire S1G18 |
| 1958 | 2936 | 3201 | 31 | No fire S1G18 |
| 2000 | 2943 | 3201 | 31 | No fire S1G18 |
| 2003 | 2943 | 3217 | 31 | No fire S1G18 |
| 2003 | 2952 | 3217 | 31 | No fire S1G18 |
| 2005 | | 3218 | 31 | |
| 2005 | 2959 | 3224 | 31 | No fire S1G18 |

| 2006 | 2961 | 3226 | J 21 | No fire S1G18 |
|------|-----------|-----------|------|-------------------------------------|
| | | | 31 | |
| 2006 | 2962 | 3227 | 31 | No fire S1G18 |
| 2007 | 2964 | 3229 | 31 | No fire S1G18 |
| 2009 | 2970 | 3235 | 31 | No fire S1G18 |
| 2010 | 2974 | 3239 | 31 | No fire S1G18 |
| 2011 | 2977 | 3242 | 31 | No fire S1G18 |
| 2012 | 2978 | 3243 | 31 | No fire SIG18 |
| 2014 | 2986 | 3251 | 31 | No fire S1G35 |
| 2020 | 2002 | 3267 | 32 | No fire S1G18 |
| 2020 | 3003 | 3268 | 32 | No fire S1G18 |
| 2020 | 3004 | 3269 | 32 | No fire S1G18 |
| 2021 | 3005 | 3270 | 32 | No fire S1G18 |
| 2021 | 3007 | 3272 | 32 | No fire S1G18 |
| 2022 | 3010 | 3275 | 32 | No fire S1G18 |
| 2023 | 3013 | 3278 | 32 | No fire S1G18 |
| 2026 | 3021 | 3286 | 32 | No fire S1G35 |
| 2028 | 3026 | 3291 | 32 | No fire S1G35 |
| 2028 | 3028 | 3293 | 32 | No fire S1G35 |
| 2031 | 3035-3036 | 3300-3301 | 32 | Telemetry error - some missing data |
| 2034 | 3044 | 3309 | 32 | No fire S1G35 |
| 2045 | 3079 | 3344 | 32 | No fire S1G35 |
| 2055 | 3014 | 3375 | 32 | No fire SIG35 and SIG05 |
| 2066 | 3017 | 3378 | 32 | No fire SIG35 |
| 2059 | 3025 | 3388 | 32 | No fire SIG35 |
| 2108 | 3053 | 3414 | 32 | No fire S1G35 |
| 2109 | 3057 | 3419 | 32 | No fire S1G35 |
| 2111 | 3061 | 3423 | 32 | No fire S1G05 |
| 2127 | 3112 | 3474 | 32 | No fire S1G35 |
| 2137 | 3142 | 3504 | 32 | No fire S1G16 |
| 2140 | 3154 | 3516 | 32 | No fire S1G35 |
| 2222 | | 3641 | 32 | MMO power down |
| 2224 | | 3552 | 32 | Gun Shutdown |
| 2227 | | 3669 | 32 | Full volume |
| 2232 | | 3678 | 32 | Nofire S1G18 |
| 2232 | | 3678 | 32 | No fire S1G18 |
| 2234 | | 3685 | 32 | No fire S1G18 |
| 2235 | | 3688 | 32 | No fire S1G18 |
| 2236 | 3326 | 3689 | 32 | Nof fire S1G18 |
| 2236 | 3327 | 3691 | 32 | No fire S1G18 |
| 2237 | 3330 | 3693 | 32 | No fire S1G18 |
| 2238 | 2330 | 2373 | 32 | Turn off S1G18 |
| 2241 | 3343 | 3706 | 32 | No fire S1G35 |
| 2242 | 3346 | 3708 | 32 | No fire S1G35 |
| 2244 | 3351 | 3713 | 32 | No fire S1G35 |
| 2244 | 3353 | 3715 | 32 | No fire S1G35 |
| 2247 | 3361 | 3723 | 32 | No fire S1G35 |
| 2248 | 3363 | 3725 | 32 | No fire S1G35 |
| 2250 | 3371 | 3733 | 32 | No fire S1G35 |
| 2252 | 3377 | 3739 | 32 | No fire S1G35 |
| | | | | |
| 2254 | 3381 | 3743 | 32 | No fire S1G35 |
| 2254 | 3383 | 3745 | 32 | No fire S1G35 |

| 2256 | 2255 | 3387 | 3749 | 32 | No fire S1G35 |
|--|------|------|------|----|---------------|
| 2256 3389 3751 32 No fire SIG16 | | | | | |
| 2257 3396 3755 32 No fire S1G16 | | | | | |
| 2259 3397 3759 32 No fine S1G35 | | | | | |
| 2301 3403 3403 3765 32 No fire S1G35 2302 3407 3769 32 No fire S1G35 2303 3409 3771 32 No fire S1G35 2307 3421 3783 32 No fire S1G35 2308 3425 3787 32 No fire S1G35 2308 3425 3787 32 No fire S1G35 2310 3421 3783 32 No fire S1G35 2308 3425 3787 32 No fire S1G35 2310 3440 3802 32 No fire S1G35 2311 3440 3802 32 No fire S1G35 2313 3440 3802 32 No fire S1G35 2313 3442 3804 32 No fire S1G35 2317 3452 3814 32 No fire S1G35 2318 3456 3818 32 No fire S1G35 2319 3458 3820 32 No fire S1G35 2319 3459 3824 32 No fire S1G35 2324 3475 3837 32 No fire S1G35 2325 3479 3841 32 No fire S1G35 2326 3481 3843 32 No fire S1G35 2327 3484 3846 32 No fire S1G35 2328 3481 3441 3846 32 No fire S1G35 2327 3483 3845 32 No fire S1G35 2328 3487 3849 3820 32 No fire S1G35 2329 3489 3841 32 No fire S1G35 2320 3481 3846 32 No fire S1G35 2321 3484 3846 32 No fire S1G35 2322 3483 3845 32 No fire S1G35 2323 3484 3846 32 No fire S1G35 2323 3485 3847 3849 32 No fire S1G35 2324 3485 3847 3849 32 No fire S1G35 2325 3488 3849 32 No fire S1G35 2326 3487 3849 32 No fire S1G35 2327 3488 3847 3849 32 No fire S1G35 2328 3487 3849 32 No fire S1G35 2329 3488 3850 3864 32 No fire S1G35 2330 3504 3866 32 No fire S1G35 2331 3506 3870 3889 32 No fire S1G35 2332 3508 3877 32 No fire S1G35 2333 3509 3564 3906 32 No fire S1G35 2334 3506 3606 37 No fire S1G35 2335 3508 3877 32 No fire S1G35 2336 3556 3916 32 No fire S1G35 2337 3488 3481 3481 3481 3481 2340 3556 3916 32 No fire S1G35 2340 3556 3916 32 No fire S1G35 2 | | | | | |
| 2301 3405 3767 32 | | | | | |
| 2302 3407 3769 32 | | | | | |
| 2303 3409 3771 32 | | | | | |
| 2307 3421 3783 32 | | | | | |
| 2307 3423 3785 32 | | | | | |
| 2308 | | | | _ | |
| 2312 | | | | | |
| 2313 3440 3802 32 No fire S1G35 2317 | | | | | |
| 2313 3442 3804 32 No fire S1G35 | | | | | |
| 2317 | | | | | |
| 2317 | | | | _ | |
| 2318 | 2317 | 3452 | 3814 | | No fire S1G35 |
| 2319 | 2317 | 3454 | 3816 | 32 | No fire S1G35 |
| 2319 3459 3824 32 No fire SIG22 2324 3475 3837 32 No fire SIG35 2325 3479 3841 32 No fire SIG35 2326 3481 3843 32 No fire SIG35 2327 3483 3845 32 No fire SIG35 2327 3484 3846 32 No fire SIG35 2327 3485 3847 32 No fire SIG35 2327 3485 3847 32 No fire SIG35 2323 3500 3862 32 No fire SIG35 2332 3500 3862 32 No fire SIG35 2333 3502 3864 32 No fire SIG35 2333 3504 3866 32 No fire SIG35 2335 3508 3870 32 No fire SIG35 2336 3512 3874 32 No fire SIG35 2338 3517 3877 32 No fire SIG35 | 2318 | 3456 | 3818 | 32 | No fire S1G35 |
| 2324 3475 3837 32 | 2319 | 3458 | 3820 | 32 | No fire S1G35 |
| 2325 3479 3841 32 No fire S1G35 2326 3481 3843 32 No fire S1G35 2327 3484 3846 32 No fire S1G35 2327 3485 3847 32 No fire S1G35 2328 3487 3849 32 No fire S1G35 2332 3500 3862 32 No fire S1G35 2333 3502 3864 32 No fire S1G35 2334 3504 3866 32 No fire S1G35 2335 3508 3870 32 No fire S1G35 2336 3512 3874 32 No fire S1G35 2337 3515 3877 32 No fire S1G35 2338 3512 3874 32 No fire S1G35 2338 3517 3877 32 No fire S1G35 2338 3521 3881 32 No fire S1G35 2338 3521 3881 32 No fire S1G35 | 2319 | 3459 | 3824 | 32 | No fire S1G22 |
| 2326 3481 3843 32 | 2324 | 3475 | 3837 | 32 | No fire S1G35 |
| 2326 3481 3843 32 | 2325 | 3479 | 3841 | 32 | No fire S1G35 |
| 2327 3483 3845 32 No fire \$1G35 2327 3484 3846 32 No fire \$1G35 2328 3487 3849 32 No fire \$1G35 2332 3500 3862 32 No fire \$1G35 2333 3502 3864 32 No fire \$1G35 2334 3504 3866 32 No fire \$1G35 2335 3508 3870 32 No fire \$1G35 2336 3512 3874 32 No fire \$1G35 2337 3515 3870 32 No fire \$1G35 2337 3515 3877 32 No fire \$1G35 2338 3517 3877 32 No fire \$1G35 2338 3521 3881 32 No fire \$1G35 2334 3536 3893 32 No fire \$1G35 2340 3525 3885 32 No fire \$1G35 2338 3521 3881 32 No fire \$1G35 | 2326 | 3481 | 3843 | _ | No fire S1G35 |
| 2327 3484 3846 32 No fire S1G16 2327 3485 3847 32 No fire S1G35 2328 3487 3849 32 No fire S1G35 2332 3500 3862 32 No fire S1G35 2333 3502 3864 32 No fire S1G35 2334 3504 3866 32 No fire S1G35 2335 3508 3870 32 No fire S1G35 2336 3512 3874 32 No fire S1G35 2337 3515 3877 32 No fire S1G35 2338 3517 3877 32 No fire S1G35 2338 3521 3881 32 No fire S1G35 2338 3521 3881 32 No fire S1G35 2340 3525 3885 32 No fire S1G35 2343 3536 3896 32 No fire S1G35 2344 3539 3899 32 No fire S1G35 | | | | _ | No fire S1G35 |
| 2327 3485 3847 32 No fire S1G35 2328 3487 3849 32 No fire S1G35 2332 3500 3862 32 No fire S1G35 2333 3502 3864 32 No fire S1G35 2334 3504 3866 32 No fire S1G35 2335 3508 3870 32 No fire S1G35 2336 3512 3874 32 No fire S1G35 2337 3515 3877 32 No fire S1G35 2338 3517 3877 32 No fire S1G35 2338 3517 3877 32 No fire S1G35 2338 3517 3881 32 No fire S1G35 2340 3525 3885 32 No fire S1G35 2342 3533 3893 32 No fire S1G35 2344 3539 3899 32 No fire S1G35 2349 3556 3916 32 No fire S1G35 | | 3484 | 3846 | | No fire S1G16 |
| 2328 3487 3849 32 No fire \$IG35 2332 3500 3862 32 No fire \$IG35 2333 3502 3864 32 No fire \$IG35 2334 3504 3866 32 No fire \$IG35 2335 3508 3870 32 No fire \$IG35 2336 3512 3874 32 No fire \$IG35 2337 3515 3877 32 No fire \$IG35 2338 3517 3877 32 No fire \$IG35 2338 3521 3881 32 No fire \$IG35 2340 3525 3885 32 No fire \$IG35 2342 3533 3893 32 No fire \$IG35 2343 3536 3896 32 No fire \$IG35 2344 3539 3899 32 No fire \$IG35 2344 3539 3899 32 No fire \$IG35 2349 3555 3915 32 No fire \$IG35 | | | | | |
| 2332 3500 3862 32 No fire S1G35 2333 3502 3864 32 No fire S1G35 2334 3504 3866 32 No fire S1G35 2335 3508 3870 32 No fire S1G35 2336 3512 3874 32 No fire S1G35 2337 3515 3877 32 No fire S1G35 2338 3517 3877 32 No fire S1G35 2338 3521 3881 32 No fire S1G35 2340 3525 3885 32 No fire S1G35 2342 3533 3893 32 No fire S1G35 2343 3536 3896 32 No fire S1G35 2344 3539 3899 32 No fire S1G35 2344 3539 3915 32 No fire S1G35 2349 3556 3916 32 No fire S1G35 2349 3556 3916 32 No fire S1G35 | | | | | |
| 2333 3502 3864 32 No fire S1G35 2334 3504 3866 32 No fire S1G35 2335 3508 3870 32 No fire S1G35 2336 3512 3874 32 No fire S1G35 2337 3515 3877 32 No fire S1G35 2338 3517 3877 32 No fire S1G35 2338 3521 3881 32 No fire S1G35 2340 3525 3885 32 No fire S1G35 2342 3533 3893 32 No fire S1G35 2343 3536 3896 32 No fire S1G35 2344 3539 3899 32 No fire S1G35 2344 3539 3899 32 No fire S1G35 2349 3555 3915 32 No fire S1G35 2349 3555 3916 32 No fire S1G35 2350 3557 3917 32 No fire S1G35 | | | | | |
| 2334 3504 3866 32 No fire SIG35 2335 3508 3870 32 No fire SIG35 2336 3512 3874 32 No fire SIG35 2337 3515 3877 32 No fire SIG35 2338 3517 3877 32 No fire SIG35 2338 3521 3881 32 No fire SIG35 2340 3525 3885 32 No fire SIG35 2342 3533 3893 32 No fire SIG35 2343 3536 3896 32 No fire SIG35 2344 3539 3899 32 No fire SIG35 2344 3539 3899 32 No fire SIG35 2349 3555 3915 32 No fire SIG35 2349 3556 3916 32 No fire SIG35 2350 3557 3917 32 No fire SIG35 2350 3559 3919 32 No fire SIG35 | | | | _ | |
| 2335 3508 3870 32 No fire S1G35 2336 3512 3874 32 No fire S1G35 2337 3515 3877 32 No fire S1G35 2338 3517 3877 32 No fire S1G35 2338 3521 3881 32 No fire S1G35 2340 3525 3885 32 No fire S1G35 2342 3533 3893 32 No fire S1G35 2343 3536 3896 32 No fire S1G35 2344 3539 3899 32 No fire S1G35 2344 3539 3899 32 No fire S1G35 2349 3555 3915 32 No fire S1G35 2349 3556 3916 32 No fire S1G35 2350 3557 3917 32 No fire S1G35 2350 3559 3919 32 No fire S1G35 2351 3562 3922 32 No fire S1G35 | | | | | |
| 2336 3512 3874 32 No fire SIG35 2337 3515 3877 32 No fire SIG35 2338 3517 3877 32 No fire SIG35 2338 3521 3881 32 No fire SIG35 2340 3525 3885 32 No fire SIG35 2342 3533 3893 32 No fire SIG35 2343 3536 3896 32 No fire SIG35 2344 3539 3899 32 No fire SIG35 2346 3546 3906 32 No fire SIG35 2349 3555 3915 32 No fire SIG35 2349 3556 3916 32 No fire SIG35 2350 3557 3917 32 No fire SIG35 2350 3559 3919 32 No fire SIG35 2351 3562 3922 32 No fire SIG35 2356 3575 3935 32 No fire SIG35 | | | | | |
| 2337 3515 3877 32 No fire S1G35 2338 3517 3877 32 No fire S1G35 2338 3521 3881 32 No fire S1G35 2340 3525 3885 32 No fire S1G35 2342 3533 3893 32 No fire S1G35 2343 3536 3896 32 No fire S1G35 2344 3539 3899 32 No fire S1G35 2346 3546 3906 32 No fire S1G35 2349 3555 3915 32 No fire S1G35 2349 3556 3916 32 No fire S1G35 2350 3557 3917 32 No fire S1G35 2350 3559 3919 32 No fire S1G35 2351 3562 3922 32 No fire S1G35 2327 3483 3845 32 Telemetry error - some missing data 2356 3575 3937 32 No fire S1G | | | | | |
| 2338 3517 3877 32 No fire S1G35 2338 3521 3881 32 No fire S1G35 2340 3525 3885 32 No fire S1G35 2342 3533 3893 32 No fire S1G35 2343 3536 3896 32 No fire S1G35 2344 3539 3899 32 No fire S1G35 2346 3546 3906 32 No fire S1G35 2349 3555 3915 32 No fire S1G35 2349 3556 3916 32 No fire S1G35 2350 3557 3917 32 No fire S1G35 2350 3559 3919 32 No fire S1G35 2327 3483 3845 32 Telemetry error - some missing data 2356 3575 3935 32 No fire S1G35 2356 3577 3937 32 No fire S1G35 2357 3578 3939 32 No fire S1G | | | | | |
| 2338 3521 3881 32 No fire S1G35 2340 3525 3885 32 No fire S1G35 2342 3533 3893 32 No fire S1G35 2343 3536 3896 32 No fire S1G35 2344 3539 3899 32 No fire S1G35 2346 3546 3906 32 No fire S1G35 2349 3555 3915 32 No fire S1G35 2349 3556 3916 32 No fire S1G22 2350 3557 3917 32 No fire S1G35 2350 3559 3919 32 No fire S1G35 2351 3562 3922 32 No fire S1G35 2327 3483 3845 32 Telemetry error - some missing data 2356 3575 3935 32 No fire S1G35 2357 3578 3939 32 No fire S1G35 0001 3590 3952 32 No fire S1G35 | | | | | |
| 2340 3525 3885 32 No fire \$1G35 2342 3533 3893 32 No fire \$1G35 2343 3536 3896 32 No fire \$1G35 2344 3539 3899 32 No fire \$1G35 2346 3546 3906 32 No fire \$1G35 2349 3555 3915 32 No fire \$1G35 2349 3556 3916 32 No fire \$1G22 2350 3557 3917 32 No fire \$1G35 2350 3559 3919 32 No fire \$1G35 2351 3562 3922 32 No fire \$1G35 2327 3483 3845 32 Telemetry error - some missing data 2356 3575 3937 32 No fire \$1G35 2357 3578 3939 32 No fire \$1G35 0001 3590 3952 32 No fire \$1G35 | | | | _ | |
| 2342 3533 3893 32 No fire \$IG35 2343 3536 3896 32 No fire \$IG35 2344 3539 3899 32 No fire \$IG35 2346 3546 3906 32 No fire \$IG35 2349 3555 3915 32 No fire \$IG35 2349 3556 3916 32 No fire \$IG22 2350 3557 3917 32 No fire \$IG35 2350 3559 3919 32 No fire \$IG35 2351 3562 3922 32 No fire \$IG35 2327 3483 3845 32 Telemetry error - some missing data 2356 3575 3935 32 No fire \$IG35 2356 3577 3937 32 No fire \$IG35 2357 3578 3939 32 No fire \$IG35 0001 3590 3952 32 No fire \$IG35 | | | | _ | |
| 2343 3536 3896 32 No fire \$IG35 2344 3539 3899 32 No fire \$IG35 2346 3546 3906 32 No fire \$IG35 2349 3555 3915 32 No fire \$IG35 2349 3556 3916 32 No fire \$IG22 2350 3557 3917 32 No fire \$IG35 2350 3559 3919 32 No fire \$IG35 2351 3562 3922 32 No fire \$IG35 2327 3483 3845 32 Telemetry error - some missing data 2356 3575 3935 32 No fire \$IG35 2356 3577 3937 32 No fire \$IG35 2357 3578 3939 32 No fire \$IG35 0001 3590 3952 32 No fire \$IG35 | | | | | |
| 2344 3539 3899 32 No fire \$IG35 2346 3546 3906 32 No fire \$IG35 2349 3555 3915 32 No fire \$IG35 2349 3556 3916 32 No fire \$IG22 2350 3557 3917 32 No fire \$IG35 2350 3559 3919 32 No fire \$IG35 2351 3562 3922 32 No fire \$IG35 2327 3483 3845 32 Telemetry error - some missing data 2356 3575 3935 32 No fire \$IG35 2357 3578 3939 32 No fire \$IG35 0001 3590 3952 32 No fire \$IG35 | | | | | |
| 2346 3546 3906 32 No fire \$IG35 2349 3555 3915 32 No fire \$IG35 2349 3556 3916 32 No fire \$IG22 2350 3557 3917 32 No fire \$IG35 2350 3559 3919 32 No fire \$IG35 2351 3562 3922 32 No fire \$IG35 2327 3483 3845 32 Telemetry error - some missing data 2356 3575 3935 32 No fire \$IG35 2356 3577 3937 32 No fire \$IG35 2357 3578 3939 32 No fire \$IG35 0001 3590 3952 32 No fire \$IG35 | | | | | |
| 2349 3555 3915 32 No fire \$IG35 2349 3556 3916 32 No fire \$IG22 2350 3557 3917 32 No fire \$IG35 2350 3559 3919 32 No fire \$IG35 2351 3562 3922 32 No fire \$IG35 2327 3483 3845 32 Telemetry error - some missing data 2356 3575 3935 32 No fire \$IG35 2356 3577 3937 32 No fire \$IG35 2357 3578 3939 32 No fire \$IG35 0001 3590 3952 32 No fire \$IG35 | | | | | |
| 2349 3556 3916 32 No fire SIG22 2350 3557 3917 32 No fire SIG35 2350 3559 3919 32 No fire SIG35 2351 3562 3922 32 No fire SIG35 2327 3483 3845 32 Telemetry error - some missing data 2356 3575 3935 32 No fire SIG35 2356 3577 3937 32 No fire SIG35 2357 3578 3939 32 No fire SIG35 0001 3590 3952 32 No fire SIG35 | | | | _ | |
| 2350 3557 3917 32 No fire \$IG35 2350 3559 3919 32 No fire \$IG35 2351 3562 3922 32 No fire \$IG35 2327 3483 3845 32 Telemetry error - some missing data 2356 3575 3935 32 No fire \$IG35 2356 3577 3937 32 No fire \$IG35 2357 3578 3939 32 No fire \$IG35 0001 3590 3952 32 No fire \$IG35 | | | | | |
| 2350 3559 3919 32 No fire \$IG35 2351 3562 3922 32 No fire \$IG35 2327 3483 3845 32 Telemetry error - some missing data 2356 3575 3935 32 No fire \$IG35 2356 3577 3937 32 No fire \$IG35 2357 3578 3939 32 No fire \$IG35 0001 3590 3952 32 No fire \$IG35 | | | | | |
| 2351 3562 3922 32 No fire S1G35 2327 3483 3845 32 Telemetry error - some missing data 2356 3575 3935 32 No fire S1G16, S1G35 2356 3577 3937 32 No fire S1G35 2357 3578 3939 32 No fire S1G35 0001 3590 3952 32 No fire S1G35 No fire S1G35 | | | | | |
| 2327 3483 3845 32 Telemetry error - some missing data 2356 3575 3935 32 No fire S1G16, S1G35 2356 3577 3937 32 No fire S1G35 2357 3578 3939 32 No fire S1G35 0001 3590 3952 32 No fire S1G35 No fire S1G35 | | | | | |
| 2356 3575 3935 32 No fire S1G16, S1G35 2356 3577 3937 32 No fire S1G35 2357 3578 3939 32 No fire S1G35 0001 3590 3952 32 No fire S1G35 No fire S1G35 | | | | | |
| 2356 3577 3937 32 No fire S1G35 2357 3578 3939 32 No fire S1G35 0001 3590 3952 32 No fire S1G35 No fire S1G35 | | | | | |
| 2357 3578 3939 32 No fire S1G35 0001 3590 3952 32 No fire S1G35 | | | | | |
| 0001 3590 3952 32 No fire \$1G35 | | | | _ | |
| | | | | | |
| 0002 3592 3954 32 No fire S1G35 | | | | | |
| | 0002 | 3592 | 3954 | 32 | No fire S1G35 |

| 0007 3608 3970 32 No fire S1G2S | 0007 | 7 2600 | 2070 | 1 22 | N. C., 01025 |
|--|------|--------|------|------|---------------|
| 0008 3612 3974 32 No fire S1G35 0010 3618 3980 32 No fire S1G35 0011 3622 3984 32 No fire S1G35 0011 3622 3984 32 No fire S1G35 0014 3631 3993 32 No fire S1G35 0015 3634 3996 32 No fire S1G35 0015 3634 3996 32 No fire S1G35 0015 3634 3996 32 No fire S1G35 0019 3645 4007 32 No fire S1G35 0020 3646 4007 32 No fire S1G35 0020 3653 4012 32 No fire S1G35 0021 3660 4022 32 No fire S1G35 0021 3660 4022 32 No fire S1G35 0022 3660 4022 32 No fire S1G35 0023 3664 4022 32 No fire S1G35 | 0007 | 3608 | 3970 | 32 | No fire S1G35 |
| 00009 3614 3976 322 No fire S1G35 | | | | | |
| Mathematics | | | | |
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| 0111 3805 4167 32 No fire S1G35 | | | | | |
| | 0111 | 3805 | 4167 | 32 | No fire S1G35 |

| 0111 | 2007 | 11.00 | 1 22 | N. C. 01007 |
|------|------|-------|------|-------------------------|
| 0111 | 3807 | 4169 | 32 | No fire S1G35 |
| 0114 | 3815 | 4177 | 32 | No fire S1G35 |
| 0115 | 3817 | 4179 | 32 | No fire S1G35 |
| 0115 | 3819 | 4181 | 32 | No fire S1G35 |
| 0116 | 3821 | 4183 | 32 | No fire S1G35 |
| 0117 | 3823 | 4185 | 32 | No fire S1G35 |
| 0117 | 3825 | 4187 | 32 | No fire S1G35 |
| 0119 | 3831 | 4193 | 32 | No fire S1G35 |
| 0120 | 3835 | 4197 | 32 | No fire S1G35 |
| 0122 | 3840 | 4207 | 32 | No fire S1G35 |
| 0125 | 3848 | 4210 | 32 | No fire S1G35 |
| 0125 | 3850 | 4212 | 32 | No fire S1G35 |
| 0126 | 3854 | 4216 | 32 | No fire S1G35 |
| 0128 | 3858 | 4220 | 32 | No fire S1G35 |
| 0128 | 3860 | 4222 | 32 | No fire S1G35 |
| 0131 | 3868 | 4230 | 32 | No fire S1G16 |
| 0132 | 3870 | 4232 | 32 | No fire S1G35 |
| 0132 | 3872 | 4234 | 32 | No fire S1G35 |
| 0134 | 3876 | 4238 | 32 | No fire S1G35 and S1G16 |
| 0134 | 3876 | 4240 | 32 | No fire S1G35 |
| 0135 | 3880 | 4242 | 32 | No fire S1G35 |
| 0136 | 3882 | 4244 | 32 | No fire S1G35 |
| 0138 | 3891 | 4253 | 32 | No fire S1G35 |
| 0139 | 3893 | 4255 | 32 | No fire S1G35 |
| 0140 | 3897 | 4259 | 32 | No fire S1G35 |
| 0141 | 3899 | 4261 | 32 | No fire S1G35 |
| 0141 | 3901 | 4263 | 32 | No fire S1G35 |
| 0143 | 3907 | 4269 | 32 | No fire S1G35 |
| 0145 | 3913 | 4275 | 32 | No fire S1G35 |
| 0146 | 3915 | 4277 | 32 | No fire S1G35 |
| 0147 | 3920 | 4282 | 32 | No fire S1G35 |
| 0149 | 3926 | 4288 | 32 | No fire S1G35 |
| 0150 | 3928 | 4290 | 32 | No fire S1G35 |
| 0151 | 3932 | 4294 | 32 | No fire S1G35 |
| 0152 | 3937 | 4298 | 32 | No fire S1G35 |
| 0154 | 3941 | 4303 | 32 | No fire S1G35 |
| 0134 | 3771 | 4303 | 32 | 1.0 mc 51033 |
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