



Tubing Summary

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|---|--|---|--|
| Well Name Emerald 93X | Lease Emerald | Field Name Rangely | Business Unit Mid-Continent/Alaska |
| Ground Elevation (ft) 5,519.00 | Original RKB Elevation (ft) 5,535.00 | Current RKB Elevation (ft) 5,535.00 | Mud Line Elevation (ft) Water Depth (ft) |
| Current KB to Ground (ft) 16.00 | Current KB to Mud Line (ft) | Current KB to Csg Flange (ft) | Current KB to Tubing Head (ft) |

| Prod Tree Loc: - Original Hole, 7/29/2011 3:30:00 PM | | | Tubing Strings | | | | | | | | | |
|--|-----------|------|---|---------------------|---------------------------|------------------|------------------------|-------------|-------|------------|----------|------------|
| RKB (MD) | RKB (TVD) | Incl | Schematic - Actual | Tubing Description | Planned Run? | Set Depth (ftKB) | Set Depth (TVD) (ftKB) | | | | | |
| 0 | 0 | 0.0 | | Tubing - Production | | No | 6,371.0 | 6,189.7 | | | | |
| 16 | 16 | 0.1 | | Run Date | Run Job | Pull Date | Pull Job | | | | | |
| 17 | 17 | 0.1 | | 7/29/2011 | Complete, 7/14/2011 11:30 | | | | | | | |
| 20 | 20 | 0.1 | | Jts | Item Description | OD (in) | ID (in) | Wt (lbs/ft) | Grade | Top Thread | Len (ft) | Top (ftKB) |
| 21 | 21 | 0.1 | | | EFT HANGER | 7 | 2.480 | | | | 0.80 | 16.2 |
| 96 | 96 | 0.6 | | | 1/16 | | | | | | | |
| 755 | 755 | 1.0 | | 196 | TK-2 PUP | 3.668 | 2.401 | 6.50 | J55 | | 3.06 | 17.0 |
| 1,146 | 1,146 | 0.2 | | | | 3.668 | 2.441 | 6.50 | J-55 | | 6,188.00 | 20.0 |
| 1,230 | 1,230 | 0.8 | | | DRAIN | 3.668 | 2.000 | | | | 0.50 | 6,208.0 |
| 1,300 | 1,300 | 0.4 | | 2 | CHECK | 3.668 | 2.441 | 6.50 | J-55 | | 60.40 | 6,208.5 |
| 1,335 | 1,339 | 0.5 | | | | 3.668 | 2.000 | | | | 0.50 | 6,268.9 |
| 1,942 | 1,942 | 0.4 | | 2 | TK-2 PUP | 3.668 | 2.441 | 6.50 | J-55 | | 62.11 | 6,269.4 |
| 1,944 | 1,944 | 0.4 | | | ESP - Pump | 3.668 | 2.401 | 6.50 | J55 | | 4.05 | 6,331.6 |
| 1,988 | 1,988 | 0.8 | | | ESP - Intake | 4 | | | | | 14.50 | 6,335.6 |
| 1,988 | 1,989 | 0.8 | | | ESP - Motor | 5.15 | | | | | 6.30 | 6,350.1 |
| 2,010 | 2,010 | 1.0 | | | CENTINEL | 5 5/8 | 0.000 | | | | 9.70 | 6,356.4 |
| 2,337 | 2,337 | 2.0 | | | | 4 | | | | | 4.10 | 6,366.1 |
| 2,962 | 2,956 | 13.2 | | | CENTRILIZER | 5 5/8 | | | | | 0.80 | 6,370.2 |
| 3,096 | 3,086 | 15.2 | | | EOT | 5 5/8 | | | | | 0.80 | 6,371.0 |
| 3,314 | 3,295 | 18.1 | 1-3, Item 1-3, 3.668, 2.441, 20, 6, 188.0 | | | | | | | | | |
| 3,670 | 3,628 | 22.1 | | | | | | | | | | |
| 3,745 | 3,702 | 21.9 | | | | | | | | | | |
| 4,416 | 4,324 | 21.3 | | | | | | | | | | |
| 4,565 | 4,463 | 20.2 | | | | | | | | | | |
| 4,646 | 4,541 | 19.8 | | | | | | | | | | |
| 4,694 | 4,584 | 20.2 | | | | | | | | | | |
| 4,773 | 4,658 | 21.0 | | | | | | | | | | |
| 5,070 | 4,939 | 17.9 | | | | | | | | | | |
| 5,411 | 5,263 | 16.3 | | | | | | | | | | |
| 5,530 | 5,377 | 16.4 | | | | | | | | | | |
| 5,545 | 5,391 | 16.5 | | | | | | | | | | |
| 5,615 | 5,462 | 16.0 | | | | | | | | | | |
| 3,206 | 3,031 | 13.7 | 1-4, DRAIN, 3.668, 2.000, 6,208, 0.5 | | | | | | | | | |
| 3,206 | 3,031 | 13.7 | 1-5, Item 1-5, 3.668, 2.441, 6,209, 60.4 | | | | | | | | | |
| 3,265 | 3,090 | 12.6 | 1-6, CHECK, 3.668, 2.000, 6,269, 0.5 | | | | | | | | | |
| 3,265 | 3,091 | 12.6 | | | | | | | | | | |
| 3,297 | 3,117 | 12.6 | 1-7, Item 1-7, 3.668, 2.441, 6,269, 62.1 | | | | | | | | | |
| 3,332 | 3,151 | 12.7 | 1-8, TK-2 PUP, 3.668, 2.401, 6,332, 4.1 | | | | | | | | | |
| 3,336 | 3,155 | 12.7 | | | | | | | | | | |
| 3,345 | 3,168 | 12.8 | 1-9, ESP - Pump, 4, 6,336, 14.5 | | | | | | | | | |
| 3,350 | 3,169 | 12.8 | | | | | | | | | | |
| 3,350 | 3,170 | 12.8 | 1-10, ESP - Intake, 5.150, 6,350, 6.3 | | | | | | | | | |
| 3,356 | 3,175 | 12.8 | 1-11, ESP - Motor, 5 5/8, 6,356, 9.7 | | | | | | | | | |
| 3,366 | 3,185 | 12.9 | 1-12, CENTINEL, 4, 6,366, 4.1 | | | | | | | | | |
| 3,370 | 3,189 | 12.9 | 1-13, CENTRILIZER, 5 5/8, 6,370, 0.8 | | | | | | | | | |
| 3,371 | 3,190 | 12.9 | 1-14, EOT, 5 5/8, 6,371 | | | | | | | | | |
| 3,427 | 3,244 | 13.1 | | | | | | | | | | |
| 3,428 | 3,245 | 13.1 | | | | | | | | | | |
| 3,470 | | | | | | | | | | | | |
| 3,475 | | | | | | | | | | | | |
| 3,510 | | | | | | | | | | | | |
| 3,697 | | | | | | | | | | | | |
| 3,866 | | | | | | | | | | | | |
| 3,900 | | | | | | | | | | | | |

| Rods | | | | |
|-----------------|------------------|------------------|------------------------|------------|
| Rod Description | Planned Run? | Set Depth (ftKB) | Set Depth (TVD) (ftKB) | |
| | No | | | |
| Run Date | Run Job | Pull Date | Pull Job | |
| | | | | |
| Jts | Item Description | OD (in) | Len (ft) | Top (ftKB) |
| | | | | |