



## CASE HISTORY

Drilling and Completions

Port Collar

### METAL-TO-METAL SEAL PORT COLLAR

Cement Returns to Surface are Required to Assure Coverage of Permafrost, Shallow Gas, or Corrosive Zones

Location: Alaska



**CHALLENGE:** Well construction on the North Slope of Alaska requires full cementing to surface for coverage of the permafrost region.

**SOLUTION:** Run a 9-5/8 in. metal-to-metal seal Port Collar (PC) and position below the permafrost region. Perform first-stage cement operations. If cement returns to surface are not achieved, run a Combo Tool and locate into the PC. Open the PC, flush the annulus, and condition the mud. Perform a second-stage cementing job and resume drilling operations. If cement returns are achieved, continue drilling operations without any required operation of the Port Collar.

**RESULTS AND BENEFIT:** Without the contingency Port Collar system, perforating and squeezing are required at a cost in excess of 15 times the cost of the Port Collar.



*Port Collar*