

466020

12 1/4" HOLE AND 9 5/8" STRUCTURAL CASING PHASE

BIT # 13 SMITH DSJ 12 1/4" (3*12)

The cement was tagged at 4060ft. After drilling out the float collar and shoe, 5ft. of new formation was drilled. A LOT at 4166ft. proved unsuccessful (Leaked off at 9.9 ppg). Open ended drill pipe was run in and the casing re-cemented.

BIT # 14 SMITH SDGH 12 1/4" (3*12)

After waiting on the cement, a new 12 1/4" hole was drilled to 4595ft. During the bit run, WOB 25-35klbs, PPM 90. Torque values were generally constant at 1000 ftlb. occasionally peaking to 1500 ftlb. A LOT at 4493ft. was successful (Leaked off at 11.0 ppg). Drilling rates were initially high 50-150 ft/hr. from 4160ft. to 4395ft. but decreased over the run, 15-50 ft/hr. from 4400ft. to 4570ft. The bit was pulled out at 4595ft.

BIT# 15 SMITH SDGH 12 1/4" (3*14)

Reamed down from 4302ft. and drilled ahead to 5013ft. WOB 35-40 klbs, RPM 120, the torque values were high at 2300 ftlb to 4654ft. but decreased over the later stages of the run. POP was good during the run 40-70 ft/hr. but finally decreased to 20-30 ft/hr. as the bit became worn. The bit was pulled out at 5013ft.

BIT # 16 SMITH SDGH 12 1/4" (3*16)

During the run, WOB 25-30 klbs. RPM 120-130 and the torque was variable with values between 1500 to 2500 ftlb. (occasionally 3000 ftlb) POP also varied between 40-100 ft/hr. and again to 20 ft/hr. at the end of the run. The bit was pulled out at 5330ft.