

BIT # 17 SMITH SDGH 12 1/4" (3\*16)

During the bit run, WOB 30-35 klbs, RPM 120 and torque averaged 2000 ftlb. but increased at 5485ft. to 3100 ftlb. The ROP was high 50-70 ft/hr. over much of run only slowing down in the later stages due to bit wear. The bit was pulled out at 5593ft.

BIT # 18 SMITH F2 12 1/4" (3\*16)

Drilling parameters over the run varied WOB 30-40 klbs, RPM 70-80 and torque 1500-2500 ftlb.

Drilling commenced with a slow ROP, increasing after 5622ft. and varied between 15-50 ft/hr. at 6269ft. the ROP again slowed. Overpull of 70000-80000 klbs. was observed during a wiper trip and 40000 klbs. at 6100ft. and 6000ft. whilst pulling out. The bit was pulled out at 6282ft.

BIT # 19 SMITH F2 12 1/4" (3\*16)

After tagging bottom and drilling ahead a wash out at the kelly caused some delay. Drilling eventually continued with WOB 20-35 klbs increasing to 35-40 klbs, RPM 80-100 and torque varying over the run. Torque values increased from 2500 ftlb. to 3600 ftlb. until 7220ft. it was noticed that at faster drilling rates torque increased, however at slower drilling rates torque was constant. At 7270ft. the torque values decreased to their initial values. Over the entire bit run ROP averaged 30 ft/hr. The bit was pulled out at 7802ft. 3/8" under gauge.

BIT # 20 SMITH F2 12 1/4" (3\*16)

Reamed under gauge hole from 6389ft. to 7802ft. On bottom WOB 25-30 klbs, RPM 80-90 and torque 2200-3100 ftlb. Due to reaming the under gauge hole the bit was pulled out after drilling 9ft. of new hole, at 7893ft.