

**Petr 311
Homework**

Surface equipment Pump HP 2700 Max pressure 2500 psi

Drill String DP 4.5" 18.6 #/ft 3.826" ID Collars 6" 2" ID

Mud 9.8 #/gal θ_{300} 121 θ_{600} 86

Bit size 7 7/8"

Rate test

400 GPM $P_f = 2490$ psi

600 GPM $P_f = 4630$ psi

Size the Jets for Hydraulic Horsepower Criterion. Verify that this rate will pick up the cuttings.