**Control Drilling**

Maximum drilling rate (MDR) (ft/hr) when drilling large diameter holes  
(14-3/4 inch and larger)

Case : Determine the MDR (ft/hr) necessary to keep the mud weight

Coming out at 9.7 ppg at the flow line :

Data : Mud weight in = 9.0 ppg  
 Circulation rate = 530 gpm  
 Hole size = 17-1/2 inch