

**Drillstring Design in ERD Based on Torque and Drag Analysis using  
WellPlan<sup>TM</sup>**

by

Ainin Nurfarahim Binti Hamdan

Dissertation submitted in partial fulfilment of  
the requirements for the  
Bachelor of Engineering (Hons)  
Petroleum Engineering

JANUARY 2012

Universiti Teknologi PETRONAS  
Bandar Seri Iskandar  
31750 Tronoh  
Perak Darul Ridzuan