d) The Engineering Assistance Programs which are a comprehensible suite of auxiliary programs in onsite problem-solving. They include mud hydraulics, bit hydraulics optimisation, swab and surge analysis, overburden and fracture gradient estimations, kick analysis, Dxc and Nxb analysis, formation abrasiveness and tooth wear estimation, cost per unit depth calculation, and wireline log programs.

e) Data Collection:

The complete drilling data for Tilana No.1 is stored on 11 discs :

Data: 343 - 12796ft
104.5 - 3900.3m

A complete printout of this data is presented in Appendix D(i) and selected parameters have been plotted on various scales and presented in Appendix D(ii). Handplots of drill rate, Dxc, background gas, shale density and mud temperature are presented in Appendix C.