



**Sudan University of Science and Technology
College of Petroleum and Technology**

**Evaluation of Multifunction Chemical Agent as
Viscosity Reducer in Pipeline
Case Study: (Wells:EF-14, FNE-16 andPAL-1)**

**A THESIS SUBMITTED IN PARTIAL FULFILMENTS FOR THE
DEGREE OF B.Sc IN PETROLEUM ENGINEERING**

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﴿ بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ ﴾

قال الله تعالى:

أَمْ نَشْرَحُ لَكَ صَدْرَكَ ﴿١﴾ وَوَضَعْنَا عَنكَ وِزْرَكَ ﴿٢﴾ الَّذِي
أَنْقَضَ ظَهْرَكَ ﴿٣﴾ وَرَفَعْنَا لَكَ ذِكْرَكَ ﴿٤﴾ فَإِنَّ مَعَ الْعُسْرِ يُسْرًا
﴿٥﴾ إِنَّ مَعَ الْعُسْرِ يُسْرًا ﴿٦﴾ فَإِذَا فَرَغْتَ فَانصَبْ ﴿٧﴾ وَإِلَى
رَبِّكَ فَارْغَبْ ﴿٨﴾

سورة العصر