

# **Large-scale Unconventional Geothermal Development in an**

stimulated because of the relatively imposed high horizontal stresses. They have very low permeability.

### **Current development**

Geodynamics' founders understood the geothermal potential of the area in the 1990's but the potential was recognized much earlier. In 1965, Mr. R.D. (Bob) Koch, Assistant General Manager, Drilling, in BP's Exploration and Production Department, London, recognized the significance of the temperature gradients in the area. Bob was born in South

and the well suffered massive losses. The well was finally completed blind after drilling another 17m with all cuttings lost into the fracture zone along with a number of pills of Lost Circulation Material (LCM).

Unfortunately further problems with the well including the breaking of the drill

The well will be 8 ½ inch in the granite rather than 6 inch in the earlier two wells. A larger diameter drill pipe and more robust equipment will reduce risks. Habanero 3 is targeted at the main zone at a depth of 4,160m. The rig that has been purchased is manufactured by LeTourneau of Longview, Texas. It is a 3000 hp AC drive model LDW1000k. The rig is due to arrive in Australia at the end of June 2007 and we expect to spud Habanero 3 before the end of July 2007. Following the successful completion of drilling, a 6 week circulation test should be completed by the end of 2007 with formal geothermal reserves declared.

### **Future Directions**

Geodynamics has an ambitious