

Wassara™ Drilling system

Exploration drilling with W80, Tara Mines, Ireland

Requirements on hole straightness and water in the formation lead to the choice of Wassara.



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Project Description:

A vertical "mother" hole is drilled to a depth of around 500-600 meter. In the next step a fan of "daughter" holes are drilled from the "mother" hole using directional drilling technology. Cores are then taken from each "daughter" hole. The contractor, Priority Drilling, was looking for faster ways of drilling straight "mother" holes in the water rich formation. Air hammers could not handle the job. Wassara was the solution.

Equipment:	Hammer	Wassara W80
	Bit	Wassara 49-22R0-095B55 + W-REX for casing advancement
	Pump	WASP150D
	Drilling fluid	Clean water
	Drill pipe	Wassara 76x6.3x3000 mm
	Rig	Fraste
	Formation	Limestone, high water flow
	Other	Wassara high pressure water swivel

Result:

The Wassara Drilling system drilled 5-6 times faster compared to the conventional coring system which was previously used.