

## NPD – exploration drilling result

28/11/2018 The Norwegian Petroleum Directorate has granted Total E&P Norge AS a drilling permit for well 6406/6-6 A, cf. Section 15 of the Resource Management Regulations.

Well 6406/6-6 A will be drilled from the *Scarabeo 8* drilling facility in position 64°35'47.61" North and 6°51'15.40" East after completing the drilling of wildcat well 6406/6-6 S for Total E&P Norge AS in production licence 255 B.

The drilling programme for well 6406/6-6 A relates to the drilling of a geological sidetrack in production licence 255 B. Total is the operator with an ownership interest of 40 %. The other licensees are Equinor Energy AS (30 %) and Petoro AS (30 %). The area in this licence consists of a part of block 6406/5 and a part of block 6406/6. The well will be drilled about 12 kilometres north of the Linnorm gas and condensate discovery and 270 kilometres southwest of Brønnøysund and there it will explore the reservoir in Jurassic deposits proven in wildcat well 6406/6-6 S.

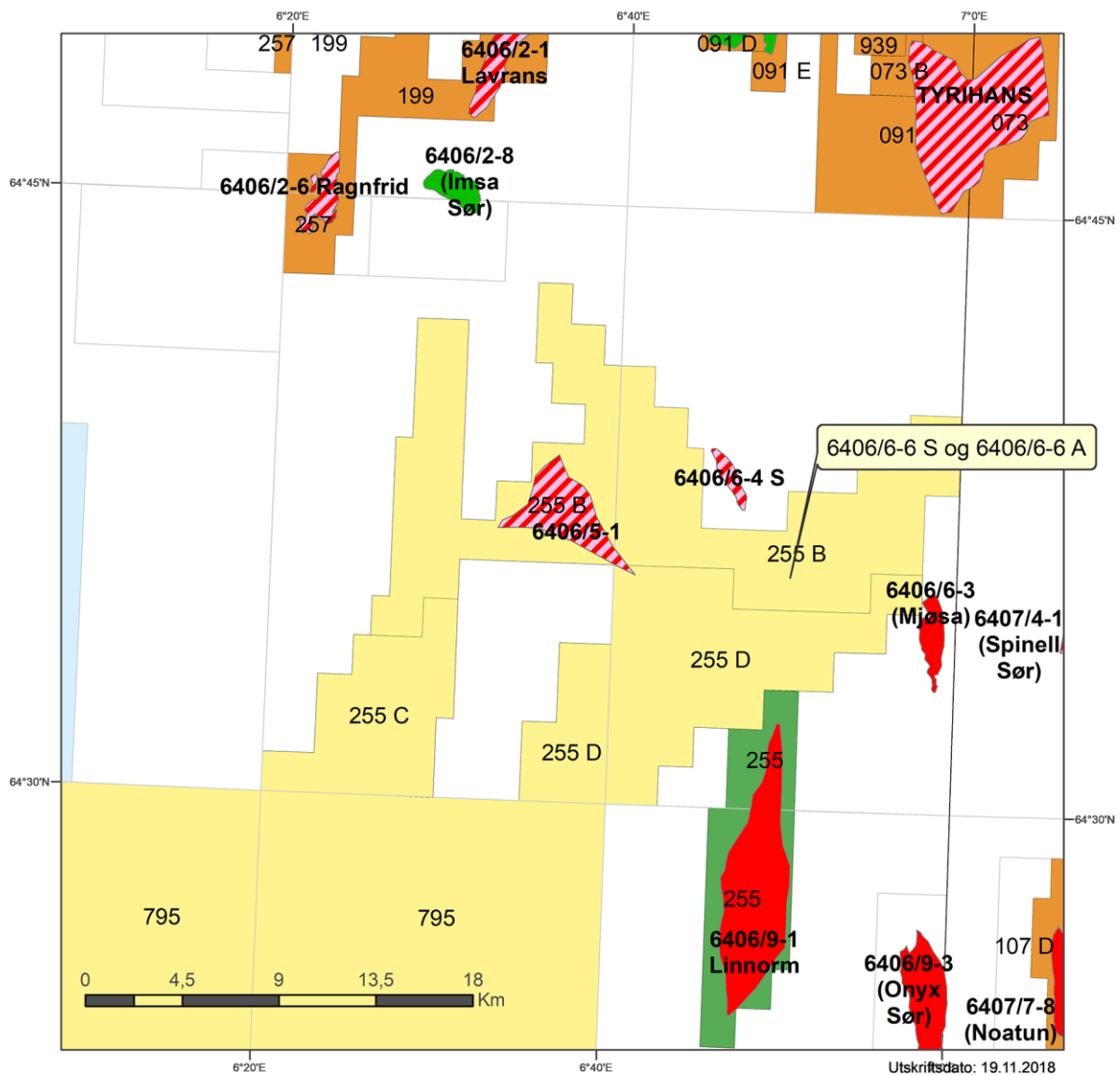
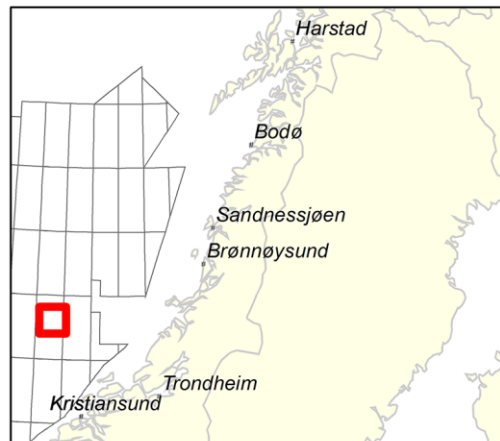
Production licence 255 B was awarded on 19 May 2016 in the 16<sup>th</sup> licensing round on the Norwegian Shelf. This is the third well to be drilled in the licence.

The permit is contingent on the operator securing all other consents and permits required by other authorities before the drilling activity commences.

See [Factpages](#) for more information about this wellbore.



Undersøkningsbrønn og avgrensingsbrønn/Wells  
6406/6-6 S og 6406/6-6 A  
Utvinningsløyve/PL 255 B



# Minor gas discovery and appraisal well southeast of the Kristin field in the Norwegian Sea – 6406/6-6 S and 6406/6-6 A

25/01/2019 Total E&P Norge AS, operator of production licence 255 B, has concluded the drilling of wildcat well 6406/6-6 S and appraisal well 6406/6-6 A.

The wells were drilled about 40 km southeast of the Kristin field in the southern part of the Norwegian Sea.

The primary exploration target for the well was to prove petroleum in Middle Jurassic reservoir rocks (the Garn and Ile formation). The secondary exploration target for the well was to prove petroleum in Lower Jurassic reservoir rocks (the Tofte formation).

In the primary exploration target, well 6406/6-6 S encountered gas in a sandstone layer of about three metres, as well as traces of gas deeper in the middle part of the Ile formation, with poor reservoir quality. The gas/water contact was not encountered. The Ile formation is about 145 metres thick, of which about 80 metres are sandstone layers. In the Garn formation, there were thin layers of tight sandstone reservoir totalling 20 metres.

The secondary exploration target in the Tofte formation was about 25 metres of aquiferous sandstone reservoir, mainly with poor reservoir quality.

In appraisal well 6406/6-6 A, the Ile formation was thinner, with a total of about 55 metres of sandstone reservoir, and the quality of the reservoir rocks was confirmed. Technical problems made it impossible to conduct measurements that could confirm a gas column. In the Garn formation, there were thin layers of tight sandstone reservoir totalling 25 metres.

Neither of the wells were formation-tested, but extensive data acquisition and sampling have been carried out in well 6406/6-6 S.

Preliminary estimates place the size of the discovery between 0.4 and 2.5 million standard cubic metres (Sm<sup>3</sup>) of recoverable oil equivalents.

The licensees in [production licence 255 B](#) will assess the discovery together with other nearby discoveries and prospects as regards further follow-up.

These are the second and third exploration wells in production licence 255 B. The licence was carved out from production licence 255 (awarded in the 16<sup>th</sup> licensing round) on 19 May 2016.

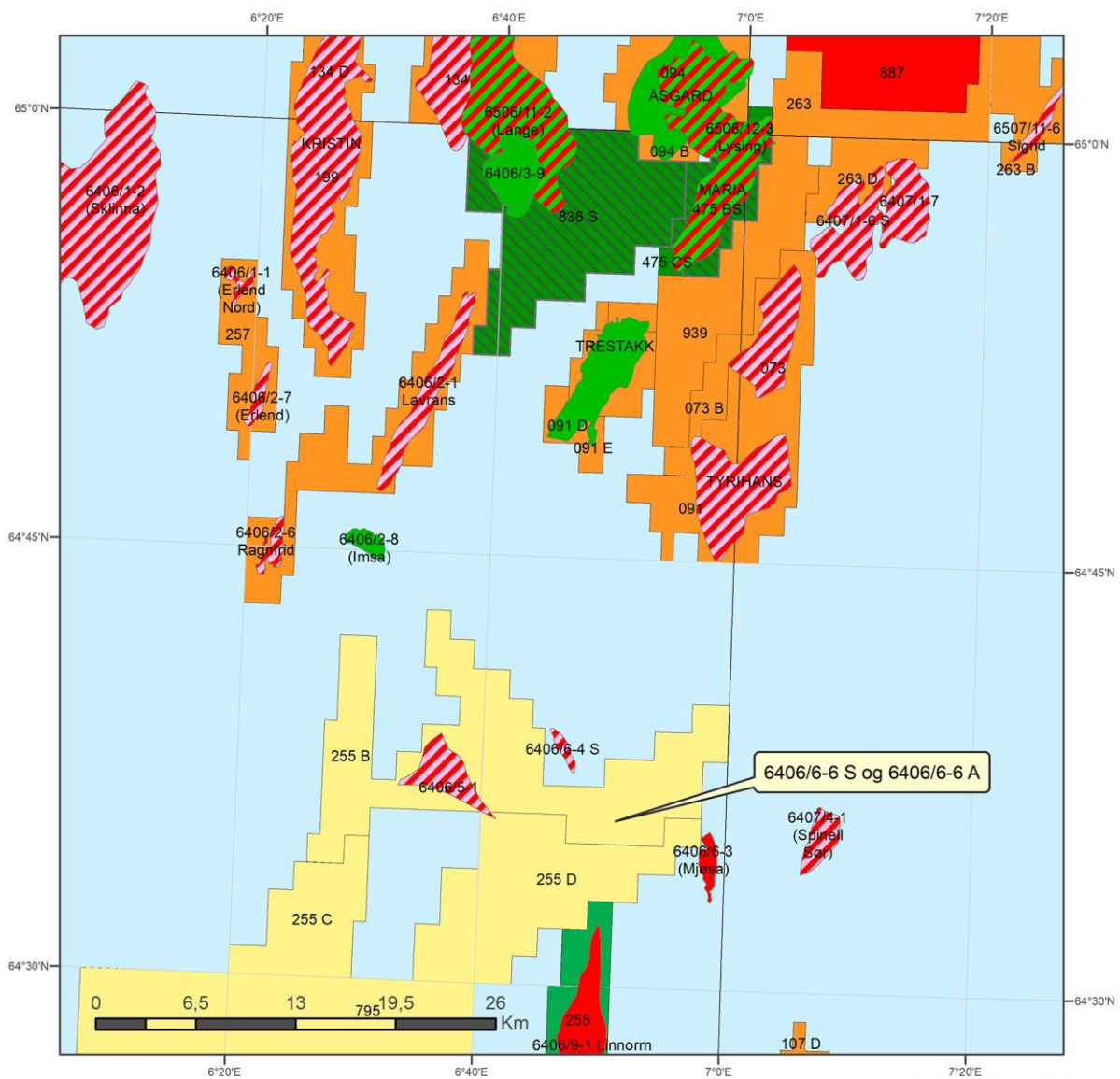
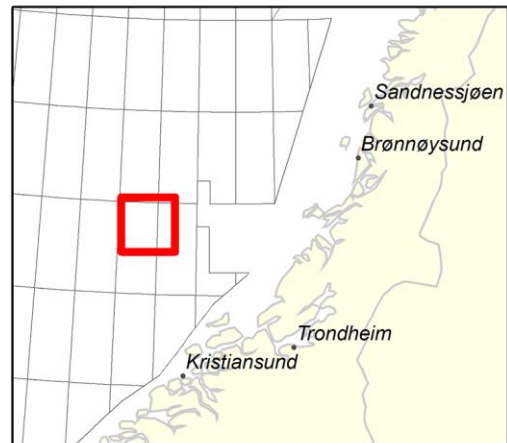
Well 6406/6-6 S was drilled to respective vertical and measured depths of 4784 and 4877 metres below the sea surface, and well 6406/6-6 A was drilled to respective vertical and measured depths of 4659 and 4835 metres below the sea surface. Both were terminated in the Ror formation in the Lower Jurassic.

Water depth is 265 metres. The wells have been permanently plugged and abandoned.

Wells 6406/6-6 S and 6406/6-6 A were drilled by the *Scarabeo 8* drilling facility, which is now drilling wildcat well 24/9-14 S in production licence 869 in the central part of the North Sea, where Aker BP ASA is the operator.



Undersøkningsbrønn  
6406/6-6 S og  
Avgrensingsbrønn  
6406/6-6 A  
Utvinningsløyve/PL 255B



Utskriftsdato: 23.01.2019