

## NPD – exploration drilling result

17/07/2017 The Norwegian Petroleum Directorate has granted Lundin Norway AS a drilling permit for well 7220/11-4 A, cf. Section 8 of the Resource Management Regulations.

Well 7220/11-4 A will be drilled from the *Leiv Eiriksson* drilling facility, at position 72°2' 27.88" north and 20°33' 7.97" east.

The drilling program for well 7220/11-4 A relates to the drilling of an appraisal well in production licence 609. Lundin Norway AS is the operator with an ownership interest of 40 per cent and the licensees are Idemitsu Petroleum Norge AS with 30 per cent and DEA Norge AS with 30 per cent.

The area in this licence consists of the blocks/parts of blocks 7220/6, 7220/9, 7220/11, 7220/12 and 7221/4. The well will be drilled about two kilometres south of the discovery well 7220/11-1 in production licence 609.

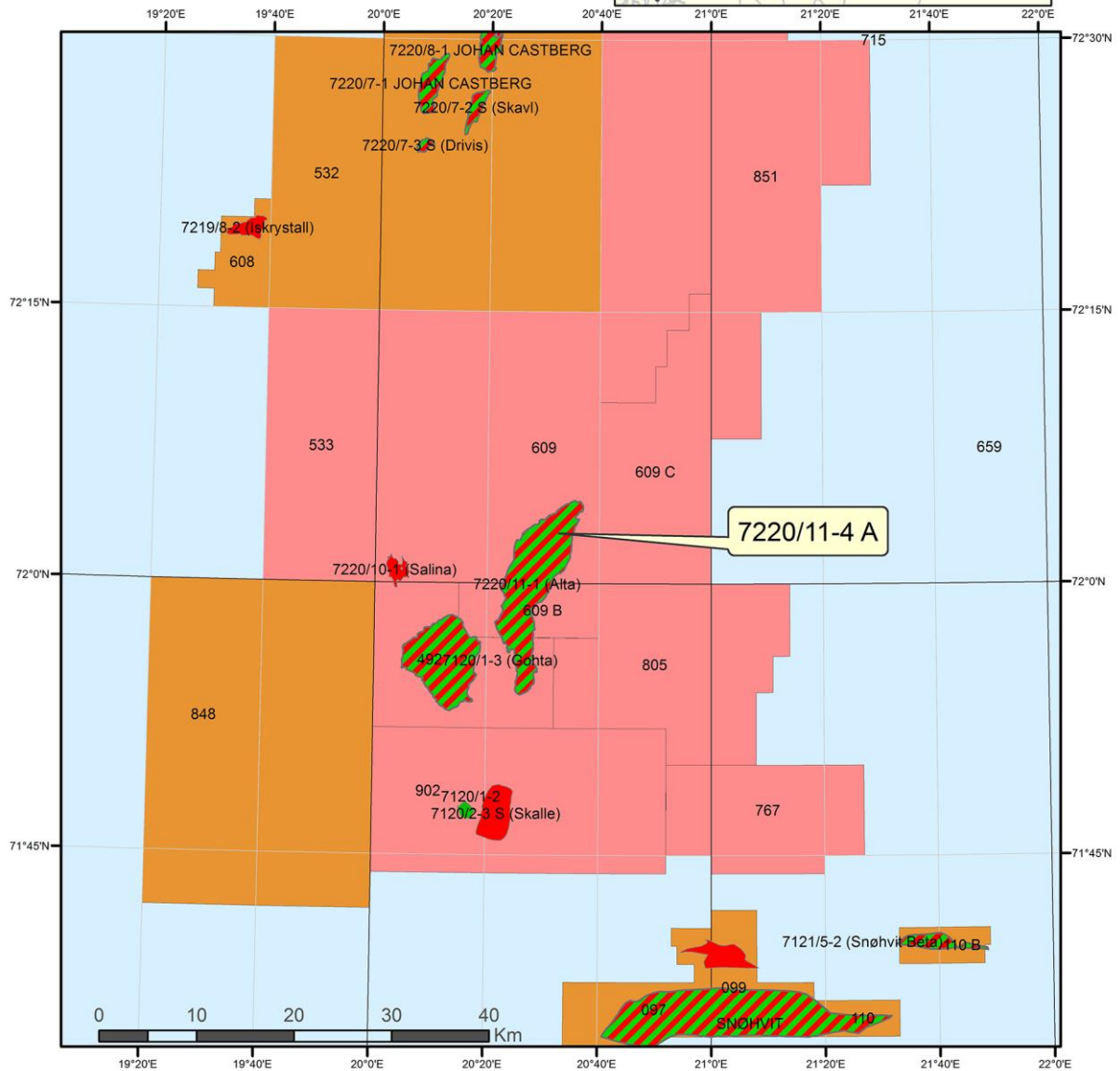
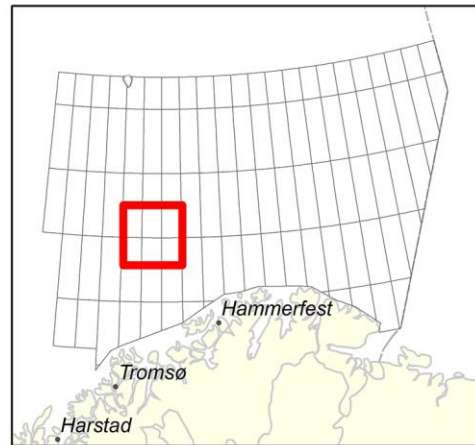
Production licence 609 was awarded in the 21<sup>st</sup> licensing round in 2011.

The permit is contingent upon the operator securing all other permits and consents required by other authorities prior to commencing the drilling activities.

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



Avgrensingsbrønn/Well  
7220/11-4 A  
Utvinningsløyve/PL 609



# 7220/11-4 og 7220/11-4 A

28/08/2017 Lundin Norway AS, operator of production licence 609, has completed the drilling of appraisal wells 7220/11-4 and 7220/11-4 A on the 7220/11-1 (Alta) oil and gas discovery.

The wells were drilled about two kilometres south of the discovery well 7220/11-1, about three kilometres north-northeast of the appraisal wells 7220/11-3 and 7220/11-3 A and 190 kilometres northwest of Hammerfest.

The discovery was proven in carbonate rocks in the Gipsdalen group in October 2014. Before the 7220/11-4 and 7220/11-4 A wells were drilled, the operator's resource estimate for the discovery was between 20 and 64 million Sm<sup>3</sup> of recoverable oil equivalents.

The objective of well 7220/11-4 was to delineate the eastern flank of the discovery by investigating the reservoir extent of conglomerates of the Late Permian to Early Triassic Age, Late Carboniferous to Early Permian carbonate rocks (Ørn formation), hydrocarbon columns and the quality of Carboniferous reservoir rocks (Falk formation).

The objective of well 7220/11-4 A, was to delineate the discovery about one kilometre north of 7220/11-4, investigate the extent of Late Permian to Early Triassic conglomerates and the quality of Late Carboniferous to Early Permian carbonate rocks (Ørn formation).

Well 7220/11-4 encountered a 48-metre hydrocarbon column in Late Permian to Early Triassic conglomerates, of which 44 metres was an oil column.

Well 7220/11-4 A encountered a 54-metre hydrocarbon column in Late Permian to Early Triassic conglomerates and carbonate rocks in the Ørn formation, of which 44 metres was an oil column.

The reservoir quality through the oil column varied in both wells. Several zones have very good permeability. The hydrocarbon contacts were the same in both wells.

Extensive data acquisition and sampling have been carried out. Pressure data shows the same hydrocarbon contacts as observed in previous wells drilled on the discovery and confirms good communication over the Alta structure.

A formation test was conducted in well 7220/11-4. The maximum production rate was 960 Sm<sup>3</sup> oil and 93000 Sm<sup>3</sup> associated gas per flow day through a 56/64-inch nozzle opening. The test confirmed very good reservoir properties and good lateral continuity in the conglomerate reservoirs.

The results from the appraisal wells are important with regard to the further work on mapping the eastern flank of the discovery. The resource estimate will be reassessed based on the results from the appraisal wells.

These are the 10<sup>th</sup> and 11<sup>th</sup> exploration wells in [production licence 609](#), which was awarded in the 21<sup>st</sup> licensing round in 2011.

Appraisal wells 7220/11-4 and 7220/11-4 A were drilled to a vertical depth of 2255 and 2027 metres below the sea surface, respectively, and were terminated in Carboniferous rocks in the Ugle formation and Falk formation, respectively. Water depth at the site is 402 metres.

The wells were drilled by the *Leiv Eiriksson* drilling facility, which will now proceed to drill wildcat well 7220/6-3 in the northern part of production licence 609.



Avgrensningsbrønn/Well  
7220/11-4 & 7220/11-4 A  
Utvinningsløyve/PL 609

