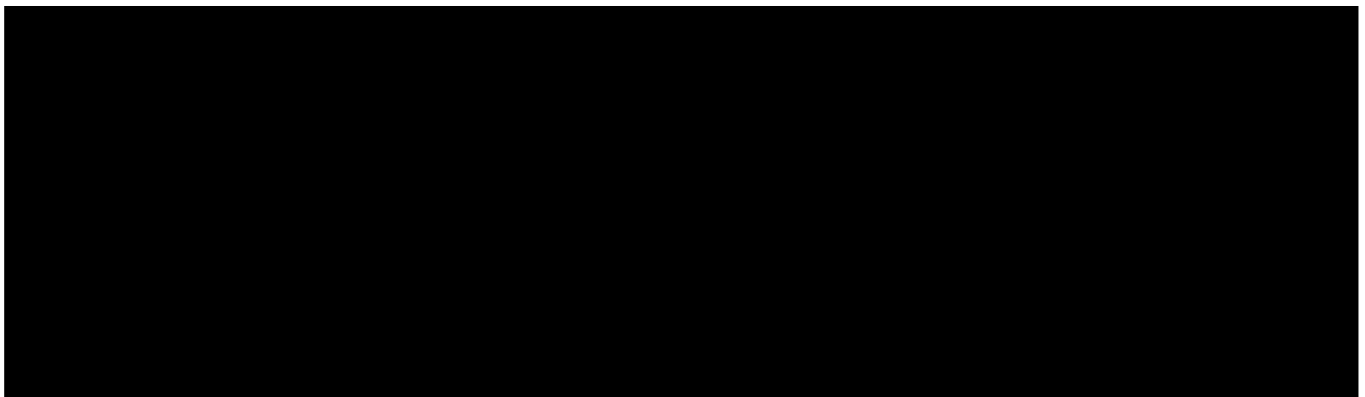




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Report title:

# PL443 Relinquishment Report



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## Summary

The PL443 license was awarded in the APA 2006 round and consists of part of block 33/12. Wintershall Norge AS is the operator (40%) with Maersk Oil Norway AS (35%) and Genesis Petroleum Norway AS (25%) as partners. The work commitments including reprocessing of seismic data as well as acquire a new high resolution seismic 3D survey is fulfilled. The license area is located south of the Statfjord and Borg fields and west of the Gullfaks area shown in Figure 1. The only prospect in the license, Jerpe, is sitting in the upper Jurassic sequence and the reservoir is intra Draupne Fm Munin sandstones. However, with the new 3D seismic survey (WIN0901) the prospect risk increased significantly and no closure was seen. The Jerpe prospect did therefore disappear. The decision to relinquish the license was unanimous.

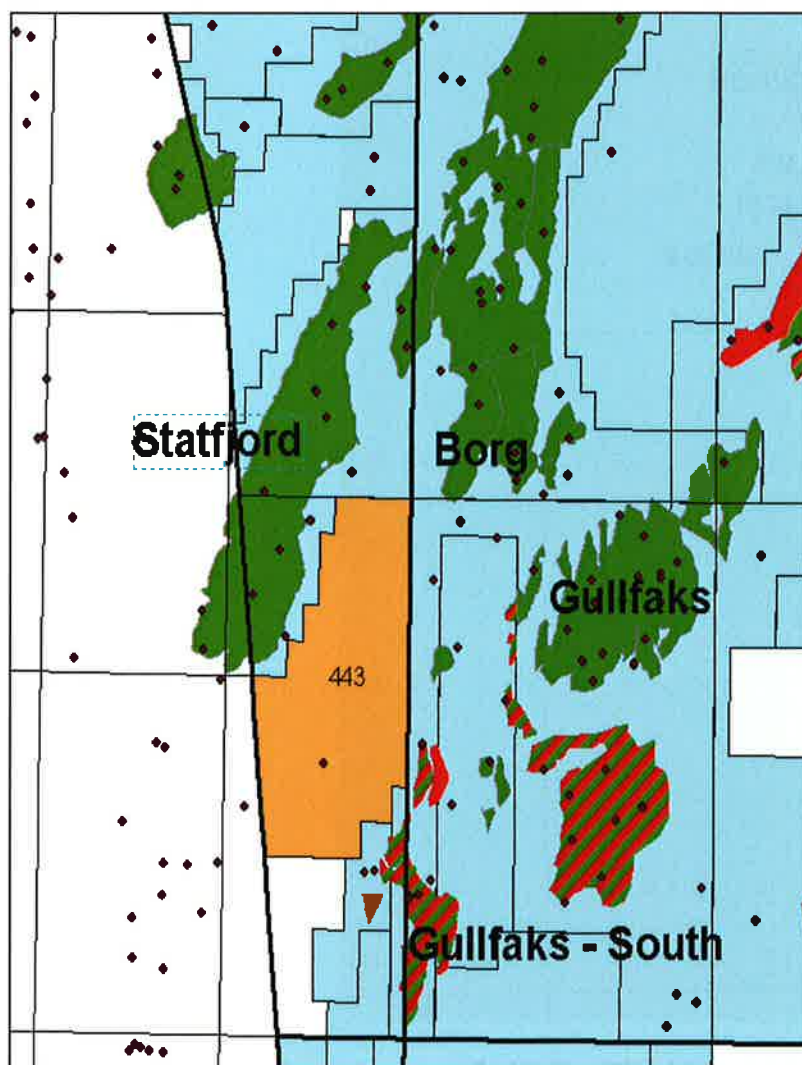


Figure 1: PL443 location map

## Introduction

The PL443 license covers part of block 33/12 and was awarded 15<sup>th</sup> July 2007. The license has an initial period of 6 years and with a drill or drop decision required to be made by the 15<sup>th</sup> July 2010. Wintershall Norge AS is the operator (40%) with Maersk Oil Norway AS (35%) and Genesis Petroleum

Norway AS (25%) as partners. The work program for the first exploration term was to reprocess existing 3D seismic data for the entire license as well as acquire new high resolution 3D seismic data for the entire license area. Both these have been fulfilled. Based on the evaluation of the new 3D (including seismic inversion) the trap risk increased significantly and the most likely scenario is that there is no trap for the Jerpe prospect towards the Gullfaks Sør and Borg fields. Jerpe was the only prospect identified in the license (Figure 2).

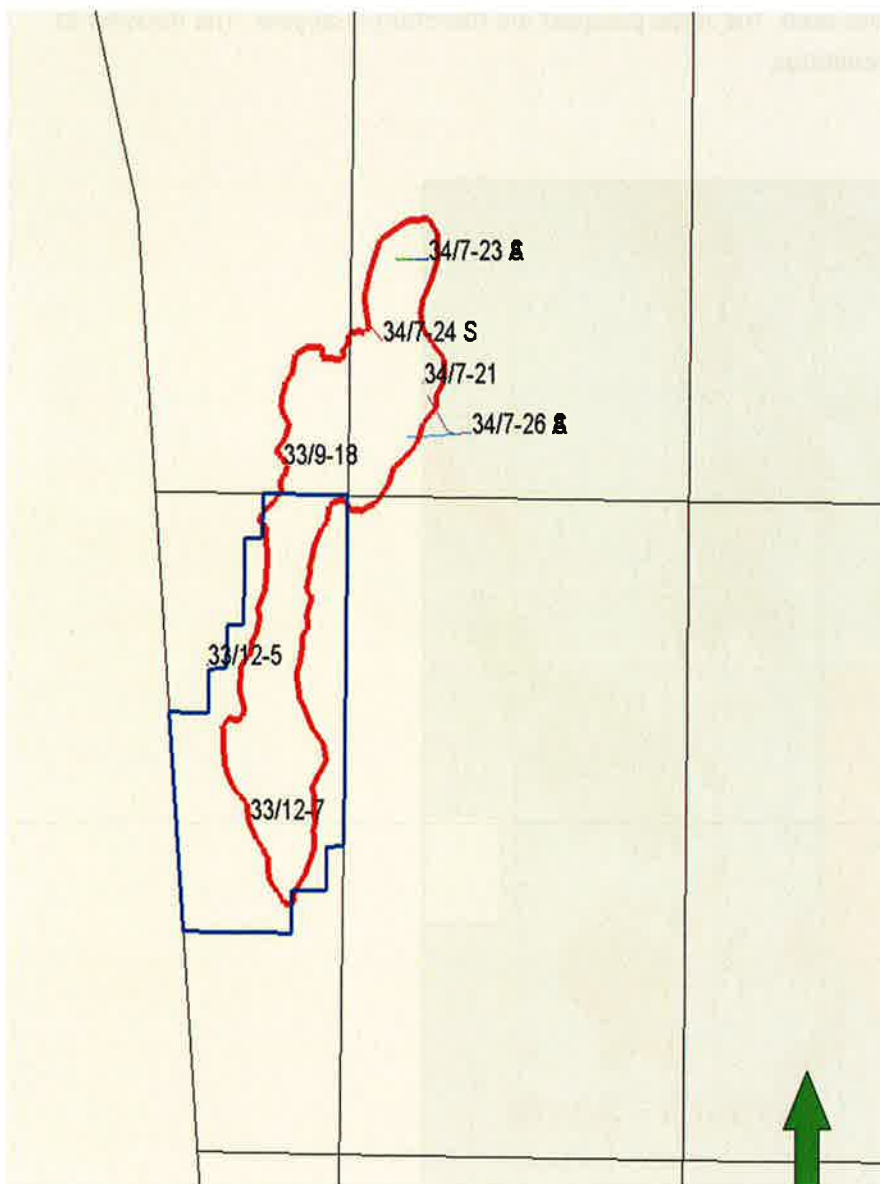


Figure 2: PL443 license with the mapped Jerpe prospect and the offset wells.

## Jerpe Prospect

The Jerpe prospect is an upper Jurassic Munin sandstone prospect and it corresponds with the thicker parts of the upper Jurassic Draupne Fm (Fig 3 and 4). The reservoir is expected to have provenance from the deep erosion of the middle Jurassic Brent Fm sandstones at the Snorre and Gullfaks structures. The most likely depositional environment is deep marine fans. The prospect



relies on a pinch-out trap to the north and partly to the east, sealed by the Draupne shale. There are several wells sitting just north of the Jerpe prospect. In addition to the discovery and production wells e.g. 34/7/26A and 34/7-26S there are a few wells (34/7-21A and 34/7-24S) sitting down-flank of the Borg Field that have strong indicators of being close to the OWC, all these wells have penetrated the Munin sandstones shallower than the Jerpe prospect crest. The Jerpe prospect is surrounded by large fields and discoveries (Statfjord, Gullfaks and Borg) and is therefore sitting in a highly prolific area. However, due to the location of the prospect, sitting in a small basin, migration may be a risk in addition to the main trap risk.

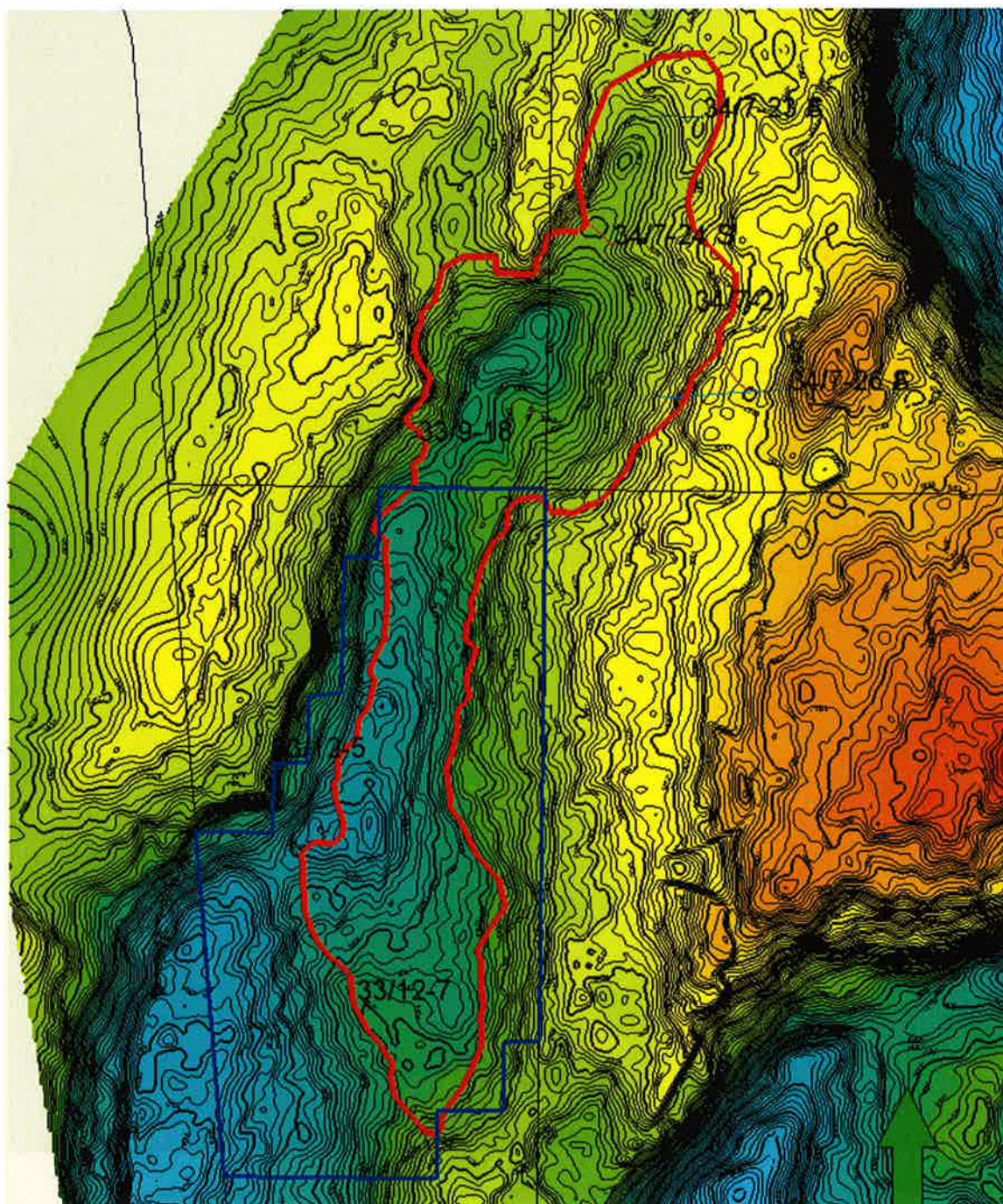


Figure 3: BCU depth map defining the top reservoir for the Jerpe prospect.



Based on the interpretation of the new high resolution 3D seismic the prospect outline extends into the Borg field area, which is limited down-dip by well 34/7-21A (close to OWC).

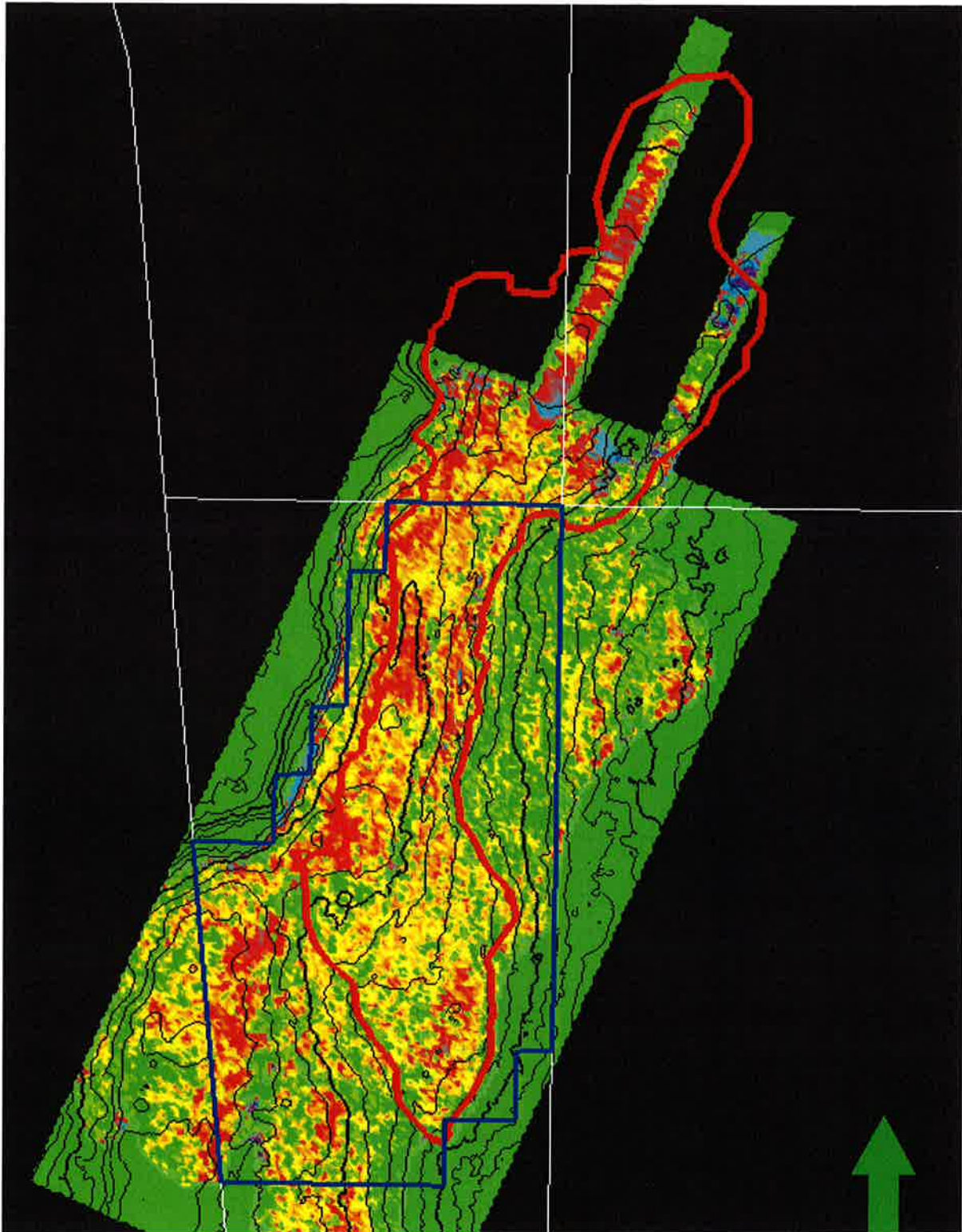


Figure 4: RMS map of the seismic inversion in the Jerpe prospect reservoir interval. Northern part of the outline is uncertain due to poor seismic coverage but there are strong indicators that the prospect extend into the Borg Field area.

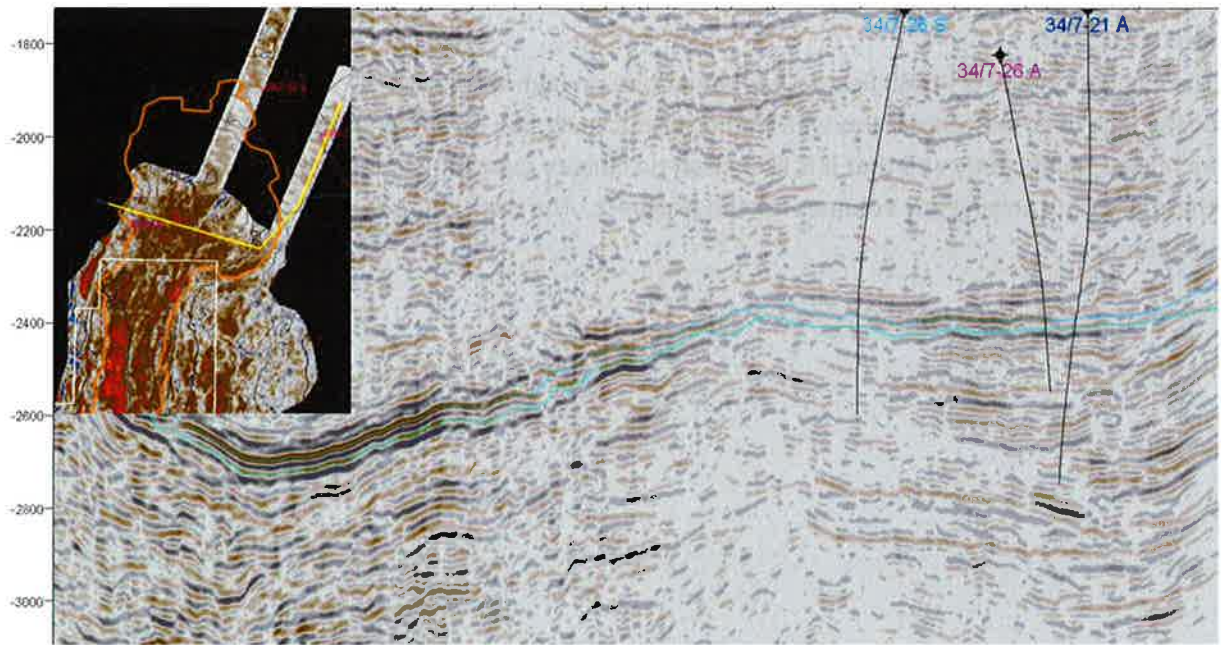


Figure 5: The figure shows the seismic interpretation along a tie line across the northern part of the Jerpe prospect connecting the Jerpe prospect to the Borg Field wells.

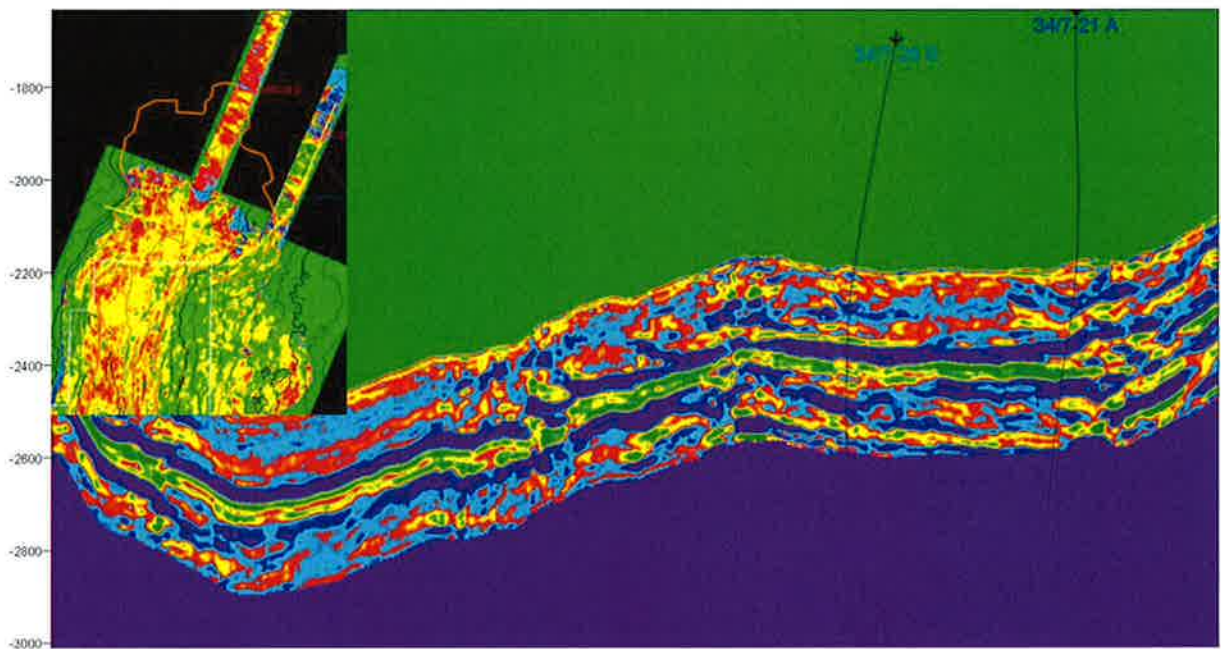


Figure 6: The figure shows the seismic inversion result along a tie line across the northern part of the Jerpe prospect. Although the upper Jurassic sandstone indicator is weaker to the north the connection of the Jerpe prospect to the Borg field wells is obvious.

## **Conclusion**

The evaluation of the PL443 license has been done on high resolution 3D seismic. The interpretation of the improved seismic data as well as the seismic inversion cube has shown that the trap risk has increased significantly and that it is likely that no closure exist for the Jerpe prospect. We are therefore not carrying any volumes for the prospect. The decision to relinquish the PL443 license is unanimous.