



## Wellbore History

### GENERAL

Well 7220/11-4 A is a geologic side-track to wellbore 7220/11-4 on the Alta discovery on the southern Loppa High in the Barents Sea. The primary objective was to investigate the northwards extent and hydrocarbon potential of the Ørn Formation and Permo-Triassic conglomerate encountered the main wellbore.

### OPERATIONS AND RESULTS

Appraisal well 7220/11-4 A was kicked off from 676 m in the main well bore on 18 July 2017. It was drilled with the semi-submersible installation Leiv Eiriksson to TD at 2392 m (2052 m TVD) m in the Carboniferous Falk Formation. Operations proceeded without significant problems. The well was drilled with Performadril mud with 2.8 - 3.6% glycol from kick-off to TD.

Top reservoir was found at 2227 m (1897.3 m TVD). It consisted of Late Permian to Early Triassic conglomerates and carbonate rocks in the Ørn formation. The reservoir quality through the oil column varied, several zones were found to have very good permeability. In common with other wells drilled on the Alta structure, the well encountered oil with a gas cap in the reservoir. Pressure data showed the same hydrocarbon contacts as observed in previous wells drilled on the discovery suggesting good communication over the Alta structure. The gas-oil contact is estimated to be at 2234.7 m (1904.6 m TVD). The free-water level is estimated at 2282.2 m (1949.4 m TVD). Minor oil shows were reported at intervals throughout the Snadd Formation, predominantly associated with thin sandstone stringers or interbeds. Continuous shows are present in the dolomites below the free water level and down to TD but getting weaker with depth.

The interval 2227.8 to 2281.54 m was cored in five cores. The three first cores had 99, 100 and 100% recoveries, respectively. Core 4 from 2276.4 to 2279.4 m had 86% recovery, while core 5 from 2279.44 to 2281.54 had 33.8% recovery. Fluid samples were taken at 2256.41 m (oil), 2266.0 m (oil), and 2302.39 m (water).

The well was permanently abandoned on 28 August 2017 as a gas and oil appraisal.

### TESTING

No drill stem test was performed.

## LITHOSTRATIGRAPHY & HISTORY FOR WELL: 7220/11-4 A