



Wellbore History

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GENERAL

Well 7220/6-2 and its re-entry 7220/6-2 R were drilled to test the Neiden prospect on the western side of the Loppa High in the Barents Sea. The well location is ca 4 km north-northwest of the Obelix well 7220/6-1, which had shows and traces of live oil in the Permian Ørn Formation. The primary objectives were to test the reservoir properties and hydrocarbon potential in sandstones within the Triassic Snadd Formation and in the carbonates of the Ørn Formation. Wellbore 7220/6-2 was drilled with Island Innovator and was suspended in the Triassic Snadd Formation on 4 November 2015 due to rig classification in the Barents Sea for the prevailing winter. The re-entry 7220/6-2 R was drilled to test the Permian target not reached by 7220/6-2.

OPERATIONS AND RESULTS

Well 7220/6-2 was re-entered on 23 October 2016. Well 7220/6-2 R was drilled with the semi-submersible installation Leiv Eiriksson to TD at 1318 m, 99 m into metamorphic basement rock. Operations proceeded without significant problems. The well was drilled with KCl/Polymer/GEM water based mud all through.

Snadd claystones were found to rest directly upon carbonates of the Permian Ørn Formation. The Ørn Formation was encountered in the 7220/6-2 R at 1059.5 m. The formation had a gross thickness of 168.9 m of carbonates, and was mainly composed of dolomites, dolomitic limestones, dolomitic conglomerates and cherts. The Ørn Formation yielded both gas and oil and contained a gross 31 m hydrocarbon column. The Gas-Oil contact is indicated to be in the interval 1067 to 1077 m. An Oil-Water contact was identified at 1091 m. Oil shows (spotty direct and cut fluorescence, but no odour) continued below the OWC and down to top basement at 1270 m

A total of 43.8 m core was cut in seven cores in the intervals 1050 to 1053.3 m and 1062 to 1102.5. Total recovery for all seven cores was 96.9%. MDT fluid samples were taken at 1066 m (gas), 1074.4 m (oil), 1078.7 m (oil), 1091 m (oil), 1096 m (water) and 1119.5 m (water).

The well was permanently abandoned on 22 November 2016 as an oil and gas discovery.

TESTING

No drill stem test was performed.

LITHOSTRATIGRAPHY & HISTORY FOR WELL: 7220/6-2 R