



Wellbore History

GENERAL

Well 16/1-19 S was drilled on the Amol prospect about two and a half kilometres east of appraisal wells 16/1-16 and 16/1-16 A at the Ivar Aasen field, and about three kilometres north of the Edvard Grieg field in the central part of the North Sea. The primary objective was to prove petroleum in Early Cretaceous reservoir rocks (the Åsgard formation) in the western part of the Utsira High. The secondary target was to prove petroleum in fractured and/or weathered basement rocks.

OPERATIONS AND RESULTS

Wildcat well 16/1-19 S was spudded with the semi-submersible installation Borgland Dolphin on 13 August 2013 and drilled to TD at 1995 in the Basement rock. A 9 7/8" pilot hole was drilled to 604 m without any indication of shallow gas. Operations were suspended twice to accommodate sidetrack operations on the Asha East prospect. Operations proceeded without significant problems. The well was drilled with seawater and hi-vis pills down to 604 m, with Carbo-Sea oil based mud from 604 m to 1862 m, and with Aquadril mud from 1862 m to TD.

The Åsgard Formation was encountered at 1878 m and proved to contain only half a metre of tight sandstone/clay stone. The fractured basement was encountered at 1891 m with oil in the fractures. Live oil was sampled from the fractures, but the reservoir quality was poorer than expected.

Three cores were cut in the interval 1865 to 1910 m with 100% recovery. RCI oil samples were taken at 1929.5 m. The samples proved a GOR in the range 106 to 135 Sm³/Sm³, an oil density of ca 0.857 g/cm³, and a gas gravity of ca 0.97 (air = 1).

The well was permanently abandoned on 25 October 2013 as a well with shows.

TESTING

No drill stem test was performed.

LITHOSTRATIGRAPHY & HISTORY FOR WELL: 16/1-19 S