Client: OMAN OIL COMPANY
Well: MAHA-1
Field: MAHA

MAHA-1 Well Completion Report

Prepared by: Petroleum Development Oman
Date: 14 March 2019

Abstract

MAHA-1 was drilled to a total depth of 3,412 m in the Maha structure, Block 42, Sultanate of Oman. The well encountered the Shuaiba reservoir at 2,847 m and the Natih E member at 2,612 m. Both intervals were tested and flowed hydrocarbons. The well was completed as a dual-string producer and is currently on production.

Introduction

MAHA-1 was the first exploration well drilled on the Maha structure, a four-way dip closure identified on 2D seismic data acquired in 2014. The primary objectives were the Shuaiba carbonate and the Natih E member. The well was spudded on 02 November 2018 and reached total depth on 19 December 2018.

Geology

The Maha structure is a north-south trending anticline, approximately 6 km long and 2 km wide, with up to 120 m of closure at the Shuaiba level. The overburden consists of Tertiary clastics and Cretaceous marls. The Shuaiba reservoir is a porous rudist limestone, while the Natih E is a fractured argillaceous limestone.

Drilling Operations

The well was drilled with a 12¼" bit to 1,250 m, 8½" bit to 3,412 m. Mud weight was maintained between 1.08 and 1.22 sg. No significant losses were recorded. Casing: 9⅝" at 1,248 m, 7" liner 1,180–3,410 m.

Logging and Testing

Wireline logs: DLL-MSFL-GR-SP, CNL-LDL-PEF-GR, FMI, MDT, VSP. Shuaiba DST-1: 2,842–2,858 m, flowed 1,240 bopd, 0.8 MMscfd gas, 2% water. Natih E DST-2: 2,608–2,624 m, flowed 980 bopd, 0.6 MMscfd gas, 1% water.

Conclusions

MAHA-1 confirmed the presence of hydrocarbons in both the Shuaiba and Natih E reservoirs. The well is capable of commercial production and has been completed as a producer.

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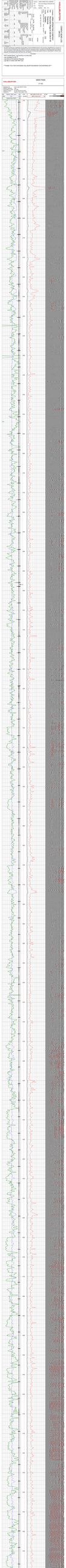

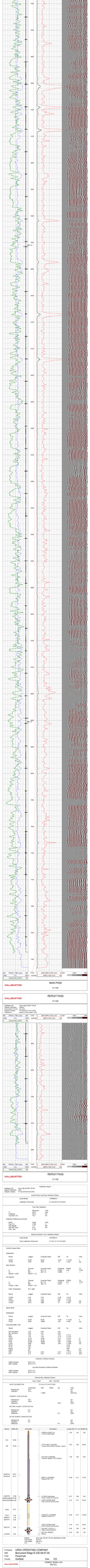

Company: URSA OPERATING COMPANY
Well: Monument Ridge B 32D-09-07-65
Field: Parachute
County: Garfield
CEMENT BOND LOG
MD CCL