

**Society of Petroleum Engineers
2016-2017 SPE Romanian Section Technical Program**



**SPE Romanian Section Symposium: “Dry hole analysis”
Technical Presentation:**

“Snubbing in Laslau Mare – Continuous improvement through capturing and disseminating lessons learned”

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**Florin Constantenec, Production Team Leader
Schlumberger Production Management, Medias**

Abstract:

Laslau Mare Field is a mature, depleted gas field. Reservoir pressures dropped during the 40 years of exploitation of the field. The base of the association existing today between Romgaz and Schlumberger was the improvement of the field production and introduction of new and performant technologies.

In Laslau Mare field, conventional interventions are inefficient: killing the well is inducing damage to the formations and production can be only partially restored, taking a very long time. Even more, the aging wells start having more and more integrity or production problems, so intervention is a must.

After facing the challenges mentioned above, a new way of operating in Laslau Mare field was chosen. The problem was solved by introducing snubbing operations – a special BOP stack, hydraulic jack up and hydraulic actuated power tongs, permitting to intervene in the live wells without killing them. Snubbing rigs are versatile and cover all the operations needed, from simple jobs as pulling tubing or running packers, to more complex as milling, fracking, and fishing.

During the last three years we had intervened with snubbing unit to pull completion string, reperforate, run packers and hydraulically frack formations. Starting with simple jobs to get familiar, and continuing with more complex jobs, we accumulated experience and some good lessons learned. Continuous improvement is the aim, allowing us to get more efficient and better jobs, increasing production with an enhanced safer operation.

The presentation will go through the snubbing technology, specific problems encountered in the Laslau Mare field, types of interventions done and lessons learned.

Biography:

Florin Constantenec, graduated in 1996 from Lucian Blaga University. He worked as production engineer and Special Services team leader until 2002. Joined Schlumberger as Wireline engineer for cased hole and open hole investigations, perforations and other interventions. Worked in Germany, Romania, Turkey and Libya. Since 2009 he was rig less / production supervisor in the Laslau Mare field for Schlumberger - Romgaz association. Florin has an extensive experience in reservoir investigations, wireline, slick line, coil tubing and snubbing interventions in life wells. He was supervising the interventions in Laslau Mare field from slickline surveys to frack

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job with snubbing unit. Keeping activity safe, minimizing cost through proper cost control, minimizing down time through good planning and follow up are the main benefits from Florin's activity.