# Lessons Learned from a Shale Gas Hallmark Well in the Eagle Ford Formation:  The Case of the Emergente–1 Well, the First Shale Gas Well in Mexico

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## ABSTRACT

The results of the yield of the Emergente–1 well is analyzed and discussed in the frame of the petroleum geology of the Eagle Ford play.  The departure of the real output of the well from a probabilistic forecast provided prior to its making is explained in terms of overestimation of reserves and formation damage.  A numerical model of the production of the well is carried out using the fundamental equation of mineral production.  To that end, a time-dependent model of the production to reserves ratio is devised, showing a succession of linear trends with time.  With the support of the linear trends found, the equation of mineral production is then enabled to reproduce the output of the well.