

AAPG HEDBERG CONFERENCE
“Paleozoic and Triassic Petroleum Systems in North Africa”
February 18-20, 2003, Algiers, Algeria

Giant Hassi R'Mel gas field

Bencherif, D.

Sonatrach/ Petroleum Engineering and Production

The seismic campaign of Hassi R'Mel region which started in 1951 led to a first exploration drilling in the south of Berriane. From this well there was evidence of a hydrocarbon reservoir in the level of TRIAS ARGILO GRESEUX (TAG).

Following these results, the Hassi R'Mel Field, located at 550 km South from Algiers, was discovered in 1956 by the drilling of HR1. The field initially came on production in 1961 and has since been established as one of the world's largest gas fields. It extends 70 km from North to South and 50km from east to west.

The results of the different simulation studies based on the seismic, petrophysics characteristics, production history (gas and liquid) potential of the field and the gas market allowed the determination of:

- Surface facilities design,
- Treatment capacity (280 MM m³ / j)
- Injection capacity (180 MM m³ / j)and
- Number of producers (209) and injectors wells (57).

This presentation is on :

- the analysis of the field history in term of gas and liquid,
- the optimisation of the network Facilities
- the optimisation of gas injected and
- the necessity of the boosting installation in 2003.