

PROJECT DESCRIPTION

**CLIENT: Bidas S.A.P.I.C., Piedra Clavada Field,
San Jorge Basin**

*Recently
Completed
or
Ongoing
Projects*

PROJECT DESCRIPTION

Teknica designed and supervised the acquisition and processing of a 3D seismic survey in the Golfo San Jorge Basin of Argentina. Following this, Teknica carried out a detailed geophysical interpretation of the data in Bidas' offices in Buenos Aires and simultaneously conducted a 3D inversion study in Teknica's offices in Calgary.

PROBLEMS

1. The field is producing from numerous (100+) fluvial sandstone reservoirs.
2. The distribution is extremely erratic and there are innumerable stratigraphic traps.
3. The reservoirs cannot be commonly correlated between wells located 1/2 km apart.
4. There are no dependable markers on the geological data or the conventional seismic data.
5. Great difficulty in designing water injection and in finding locations for development wells.
6. They have no technology available to look for stratigraphic traps.

OBJECTIVES

Full management of a 3D survey and the mapping of the sandstone reservoirs.

METHODOLOGY

1. Design a 3D survey
2. Supervise seismic data acquisition
3. Supervise seismic data processing
4. 3D Structural interpretation
5. 3D inversion and interpretation
6. Detailed seismic and geological correlations
7. Mapping of reservoir sandstones distributions
8. Identify development locations

RESULTS

1. Good quality seismic data was obtained.
2. The conventional 3D interpretation provided much improved structure maps.
3. The seismic inversion (Seislogs) showed correlatable markers and interpretable reservoir packages for the first time.
4. Teknica provided preliminary sandstone isopachs and advised Bidas on the methodology to conduct detailed studies to map the major sandstone bodies.



Suite 2500 530 - 8th Avenue S.W.
Calgary, Alberta, Canada
T2P 3S8
Tel: 403-269-4386
Fax: 403-266-4395
email: teknica@teknicaltd.com