La Tropilla I

Introduction

The block is located in the northeastern part of the Neuquén Basin, north of the Auca Mahuida Volcano. It covers an area of 48.6 km2. The following map shows its location, wells drilled in the area and existing roads.

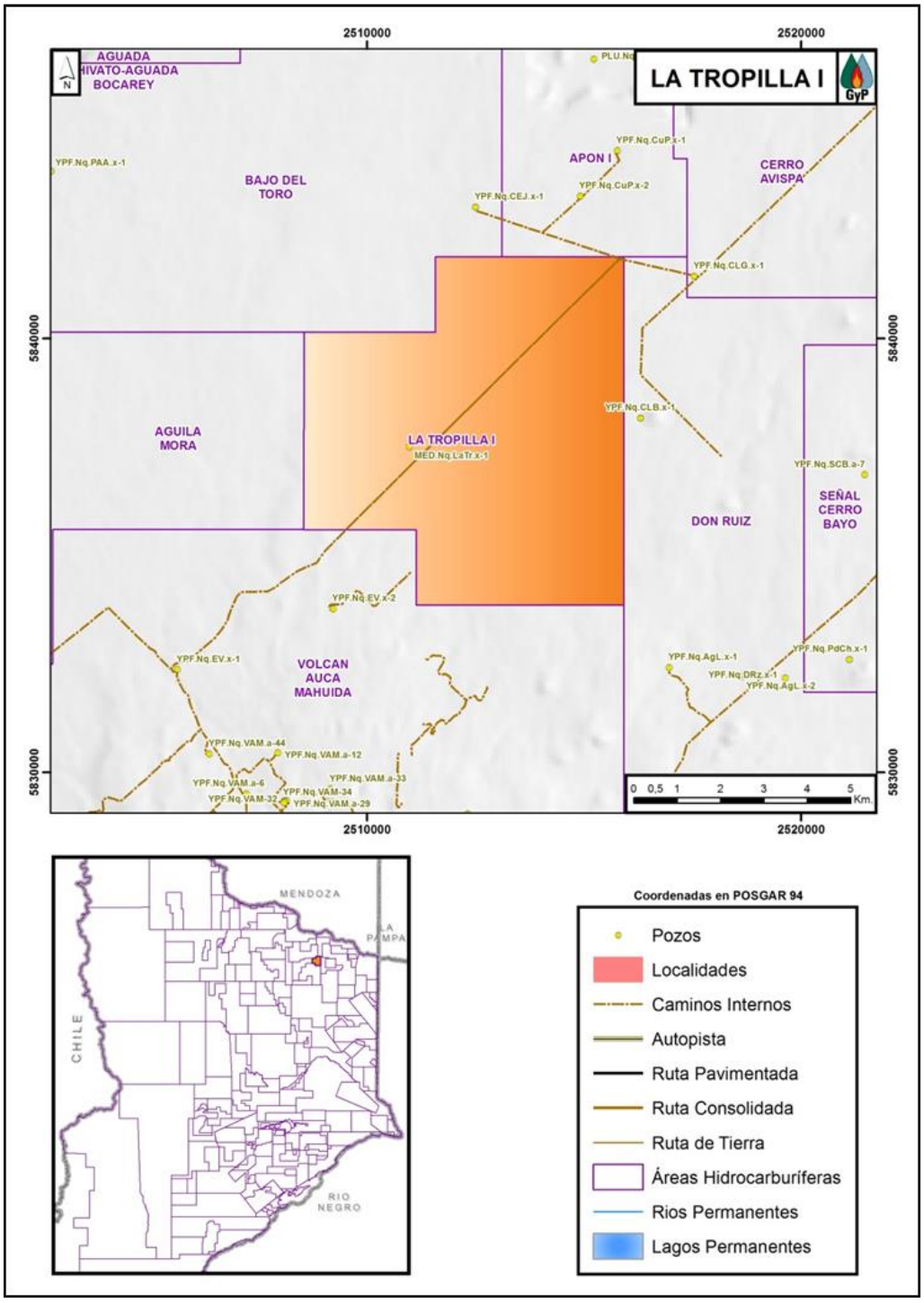

Figure 1.Location

Wells

There is one drilled well in the area.

Well	Name	TD (m)	Reached Fm.	Prod. Fm.	Year	Current State
MED.Nq.LaTr.x-1	La Tropilla x-1	3,338	Punta Rosada	Lotena	2013	Under Study

Table 1. Wells in the area

Seismic coverage

The area has 3D seismic coverage as shown in the following figure.

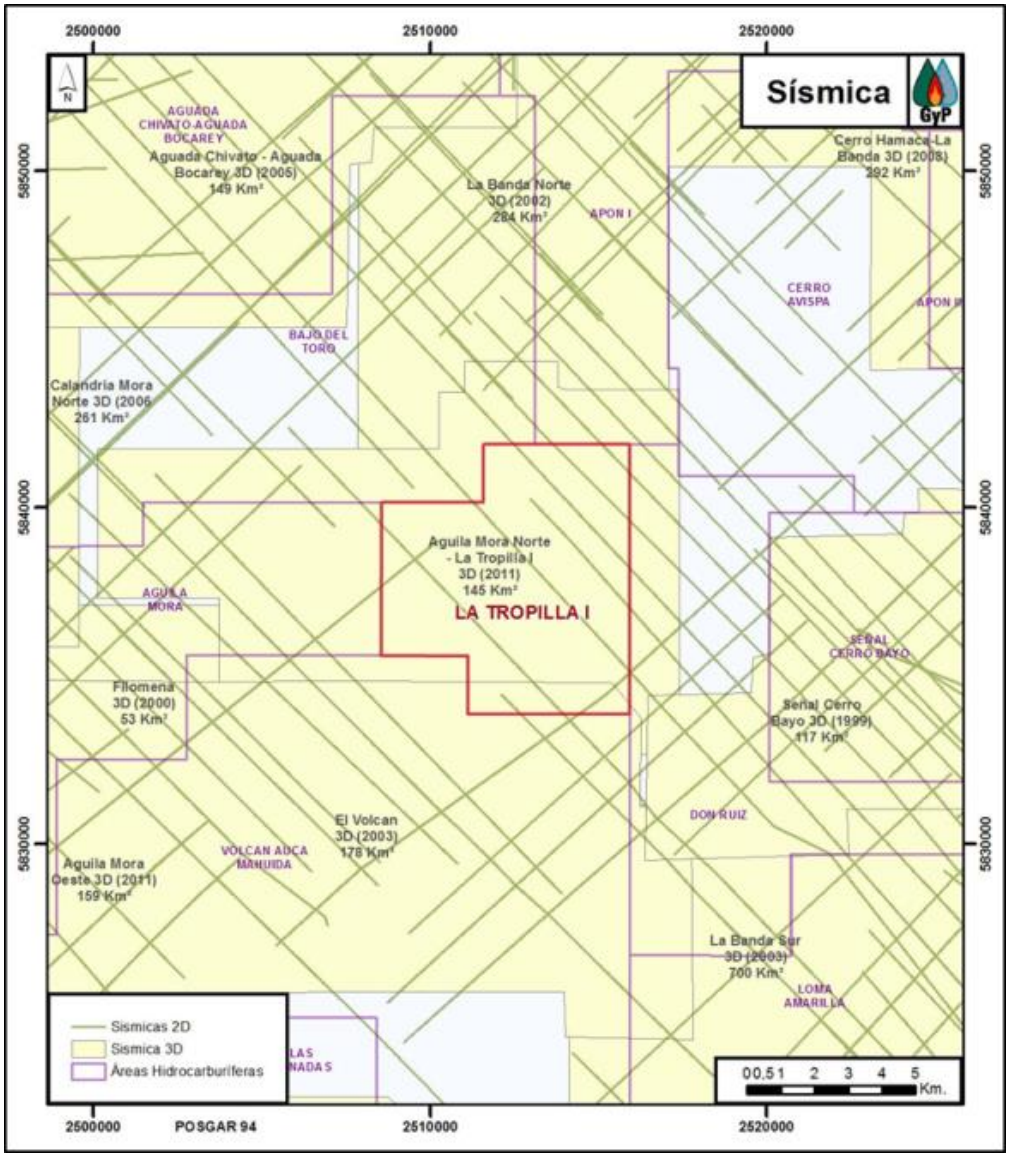

Figure 2. Seismic coverage

Information available in GyP

DISPONIBLE EN GyP			
Legajos	Perfiles	Líneas Sísmicas 2D	Sísmicas 3D Nombre
1	1	9	La Tropilla I 3D

Table 2. Available Information

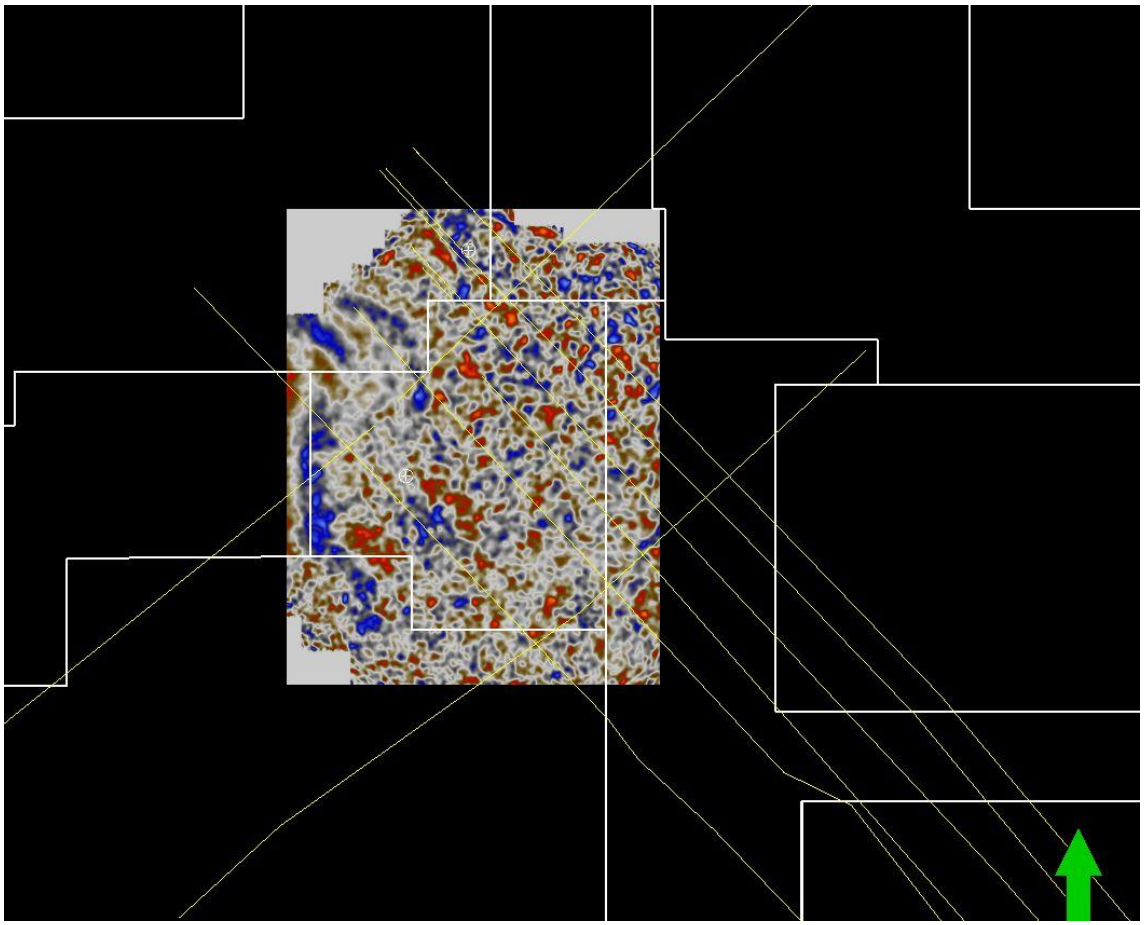

Figura 3. 2D and 3D Seismic information

Potential in conventional reservoirs

Petroleum System

The petroleum system in this zone of the basin is conformed by:

Source Rock: Vaca Muerta and Los Molles Fms.

Reservoirs: Rayoso Fm., Lower Troncoso and Avilé Mbs.; Centenario, Mulichinco, Quintuco, and Tordillo Fms. Besides, Lotena and Upper Cuyo Gps.

The main exploratory risk is associated with trapping and the presence of sills at different levels.

The block is considered moderate to high risk for conventional reservoirs

Background

The area is located to the west of the Señal Cerro Bayo field, producer of the Rayoso, Centenario and Mulichinco Fms.

The block has one drilled well:

MED.Nq.LaTr.x-1, drilled in 2013, reached 3,338 m in the Cuyo Gp. (Pta. Rosada Fm.) The Tordillo Fm. was tested, showing 900 l/h of water with gas traces by 24 mm choke. It was cased with the appropriate pipe to perform non-conventional hydraulic stimulations. The current state of the well is "under study."

Potential in unconventional reservoirs

The subsurface parameters used to characterize the Vaca Muerta Fm. are summarized as follows:

TOC (% average total organic content): 4%.

Reflection to vitrinite (Thermal maturity, % Ro average): 0.8 - 0.95%.

Net Thickness (TOC> 2%): 200 m.

Presence of faults: Yes.

Overpressure: Yes.

Production history: No.

Vaca Muerta Fm. Base depth: 2,800 m

Figure 4 summarizes the aforementioned parameters that allow to visualize the unconventional potential (shale) of the block in a regional context.

Background

The area limits to the north with the Bajo del Toro block and to the south-west with the Aguila Mora block, in both of them good productions of the Vaca Muerta Fm. were documented.

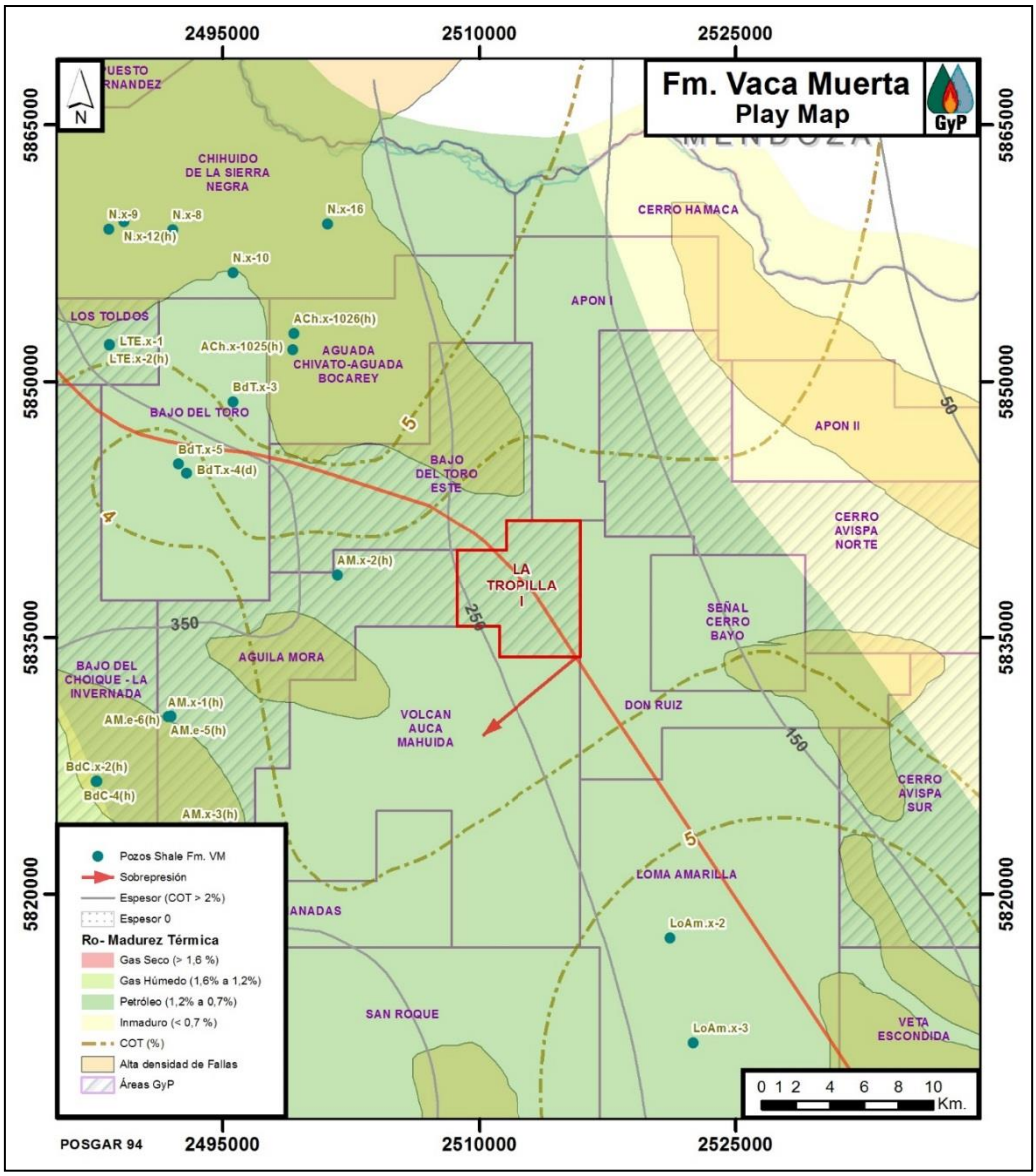

Figure 4.Vaca Muerta Fm. Play Map

Conclusions

The area has exploratory potential for the Vaca Muerta Fm. as a unconventional shale reservoir in oil window.

For conventional reservoirs, it is a block with moderate to high risk exploratory potential in almost the entire Mesozoic column.