

Hydraulic Tunnel

Yacambu – Quibor Tunnel

Venezuela

Project

Hydraulic tunnel

Project Schedule

Design: 2003
Construction: 2003-2004

Project Description

Hydraulic tunnel passing through the Andes

Length: 25000m
Cross section: 30m²

Method of tunnel excavation

NATM – Mechanical excavation, drilling and blasting

Final Lining

Reinforced shotcrete

Geology

Sandstones, phyllites and limestones
Squeezing conditions
Max. overburden: 1200m

Our Services

- Detailed design of final lining, in specific sections of the tunnel
- Designs jointly elaborated with Dr Evert Hoek

Construction Details

Steel sets with sliding joints in order to confront severe squeezing problems

Client

SISTEMA HIDRAULICO YACAMBU – QUIBOR S.A.



Yacambu– Quibor tunnel



Underground excavation face view



Entrance portal