

## CAÑO LIMON

Caño Limon Petroleum Complex (Department of Arauca) is exploited by the Cravo Norte Association, made up of Ecopetrol, Occidental and Shell. There is a natural decline in production volumes, a phenomenon that will begin this year with a reduction estimated at 9,000 b/d and projections of this decline indicate that by 1995 production will be lower by about 30,000 b/d so by the year 2000 it will barely be 80,000 b/d.

A program of enhanced recovery using water has been initiated in 1993 at a rate of 20,000 barrels a day using residual waters from current production.

## GAS MASSIFICATION PROGRAM

Despite the availability of resources, Colombia has traditionally been a modest user consumer of natural gas. The residential use of natural gas only started in 1986 with a gas pipeline between Ballenas and the cities of Barranquilla and Cartagena on the northern coast.

In 1991 natural gas represented only 5% of total energy consumption in Colombia. The current production of natural gas is estimated at 380 MMSCFD and reserves placed at 8.5 TFC. A government decision to increase energy efficiency has facilitated a plan for a gas massification program including an expansion in this service for household, industrial, commercial and electric generation use in cities of Santafé de Bogotá, Medellín and Cali.

The following projects are currently under consideration for construction some of which will be tendered under the BOMT (Build-operate-maintain-transfer) system.

|                           |                     |
|---------------------------|---------------------|
| Ballena - Barrancabermeja | 18" - 575 Kms. 1995 |
| Sabastopol - Medellín     | 12" - 156 Kms. 1995 |
| Mariquita - Cali          | 18" - 360 Kms. 1995 |
| La Belleza - Bogota       | 22" - 144 Kms. 1995 |

These projects will increase the number of user households from 600 thousand families currently served to 2 million families in the year 2,000.

## REFINERIES

Ecopetrol is currently placing bonds in the international market to finance the expansion of the Barrancebermeja refinery at a cost of US\$ 300 million. The program was already in process in April 1993 and the capacity of the refinery will be increased by 25%.