

The development of the Cusiana and Cupiagua Fields accounted for more than two thirds of the 1993 total exploration spending in the country. Initially, costs averaged \$20 million US per well. The biggest contributing factor is the high cost of servicing deep, side tracked wells. On average, this is 60% of the total cost of each well. These costs, however, are being reduced as experience is gained in the area. At the current rate of drilling, the total servicing cost for all wells completed will be \$120 million US. in 1994.

2.2 CUSIANA PHASE I

The Cusiana Phase I development, which is currently underway, is expected to cost \$1.4 billion US. This involves the installation of production facilities and increasing the pipeline capacity to 150 thousand barrels per day (MBPD).

2.2.1 PIPELINE EXPANSION

The pipeline project (See Figure 2.1) will require the following facilities and lines to be constructed.

- A short section of 20 inch pipeline from Cusiana to Porvenir (150 km.) in the Llanos.
- The Central Llanos pipeline, from Porvenir to Vasconia (150 km.) will be looped where required and 3 additional pump stations installed to increase throughput from 100 MBPD to 200 MBPD.
- The Oleoducto de Colombia (The Colombian Pipeline) from Vasconia to the Caribbean Coast (600 km.) will be increased in capacity from 175 MBPD to 210 MBPD.
- An alternate plan is to run a pipeline from Cusiana to Caño Limon (250 km.) to join the Caño Limon/Covenas pipeline, should additional capacity be required in the short term