

5.1.2 Helicopter Rig

There is a proposal to drill a 2000 foot well in the jungle area of Putumayo. Ecopetrol is looking for a 2 inch, skid mounted (heli-transportable) coiled tubing unit for this work. Presently in Colombia, there are three coiled tubing units available. BJ has two 1 1/4" units and Halliburton has one 1 1/2" unit (under contract to BP). Ecopetrol have not been unable to obtain much information on Canadian coiled tubing companies capable of doing this work.

5.1.3 Horizontal Wells

In 1995, Ecopetrol plans to drill two, 10,000 foot horizontal wells in a developed field. Their preference would be a turnkey contract for this work. There is extensive seismic data for the field and drilling data from 50 wells. Ecopetrol has had preliminary discussions with Morgan Petroleum about this project.

5.2 OCCIDENTAL

Occidental have budgeted \$16 million US. in 1994 to drill 16 development wells in the Caño Limon area. An additional \$6 to \$8 million US. is budgeted for well workovers. They are also looking at two new areas, Laguna in the province of Boyaca and San Morre in the foothills of the Llanos, for possible exploration wells.

Occidental does the majority of their engineering in - house. For well services, Occidental only uses companies who have operations in Colombia and are registered with them.

5.3 LASMO

Lasmo are in the early stages of designing the production facilities for the Purificacion Field. This plant will handle 10,000 bbls/d and has a budget of \$10 million US .

5.4 ARGOSY

For 1994, Argosy has a \$60 million US. budget to drill seven, 8,000 to 10,000 foot wells in the Putumayo area and to construct an extension of their pipeline to join Ecopetrol's pipeline to the Pacific coast.