



Radial Drilling Delivers a Live Well to Ecuador Operator Rio Napo

Lateral jetting technique significantly increases completion effectiveness compared to conventional fracturing.

CHALLENGE

Obtain production in well SAC 138 by applying radial jetting.

SOLUTION

Place a sequence of extended laterals to effectively penetrate near wellbore damage and enter virgin oil bearing formation.

RESULTS

A production rate of 360 bopd was achieved.

SAC 138 closed. Never produced due to deep formation damage.

Completed in the Napo Level T sand, 15%–20% porosity, 200–300md permeability, this well was fractured several times with zero production.

Rio Napo required deep formation penetration to pass the near wellbore damaged area and enter virgin formation.

Effective solution through sequenced lateral placement.

Four laterals were systematically placed utilizing gyro azimuth orientation to allow delivery of maximum natural flow returns to the main wellbore and to surface.

Laterals were achieved using fluid volumes no more than 1,000 liters per lateral and configured for zero formation invasion.

Production after completion of the laterals held at 360 bopd.

Rio Napo confirmed this was the best production flow ever achieved in this well. As a result, Rio Napo continues to evaluate troubled wells for the application of radial drilling technology.

