FybeCarb Material Eliminates Circulation Fluid Loss, Saves USD 1.5 Million in the Chichimene Field

High-efficiency additive reduces lost circulation rate to zero by effectively sealing low-pressure depleted formation, Colombia

### Background
An operator was drilling in the Chichimene field, where low formation pressures posed high risk of fluid loss. After drilling the reservoir interval, the operator converted the drilling fluid system to single phase. When ECD reached 9.4 ppg, the pressure dropped from 2.16 MPa [313 psi] to 0.21 MPa [30 psi], resulting in total fluid loss at a rate of 31.8 m³/h [200 bbl/h]. The operator sought a solution to control and eliminate fluid loss.

### Technology
- **FybeCarb** high-efficiency, acid-soluble, single-sack loss-prevention and remedial material

M-I SWACO placed a pill with 60 lbm/bbl of FybeCarb near the 9½-in casing shoe from 2,309 m [7,576 ft] to 1,987 m [6,519 ft] and then squeezed at 1.38 MPa [200 psi] for 1 hour to the formation below. Once circulation was reestablished, the 5.9-m³/h [37-bbl/h] formation losses were gradually reduced to zero after only 30 min of circulation. The operator resumed drilling the 8½-in interval and saved USD 1.5 million compared with an offset well.