

TECH REPORT

ONSHORE ECUADOR

MAURO DAVALOS CORDERO FIELD

Basin	East basin
Lithology	Conglomerate and abrasive sandstone
Interval drilled	4,052 ft [1,235 m]
Section	12¼ in
ROP	50 ft/h [15.24 m/h]

Background

Ecuador's Mauro Davalos Cordero field includes very hard and extremely abrasive intervals, including shale, sandstone, claystone, chert, and cobble. ENAP SIPEC required a bit for the 12¼-in section that could drill these formations at a higher ROP while keeping the cutting structure in good condition and minimizing bit trips. Previous runs using conventional PDC bits resulted in excessive damage on the bit shoulder areas, leading to additional bit trips.

Technology

- StingBlade* conical diamond element bit
- Lo-Vibe* depth of cut control inserts
- IDEAS* integrated dynamic design and analysis platform
- DBOS* drillbit optimization system

*Mark of Schlumberger.

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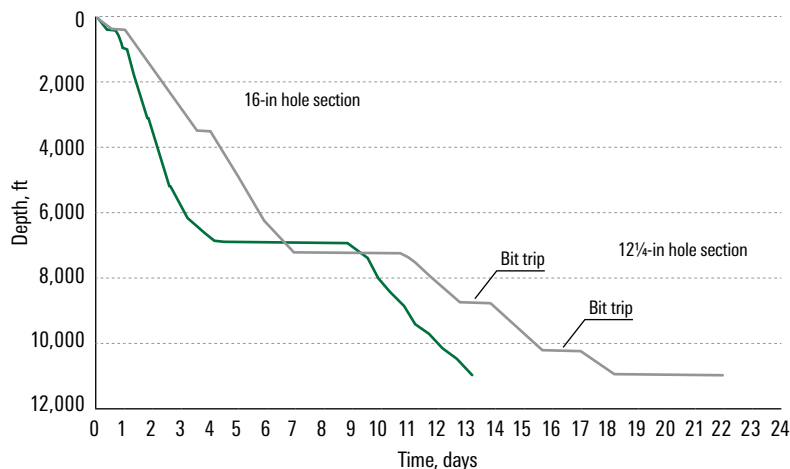
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SMITH BITS

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ENAP SIPEC Uses StingBlade Bit to Set ROP Record in East Basin, Ecuador

Bit design and improved durability increased footage in abrasive formation by 164% and ROP by 76% over plan



A StingBlade bit drilled the 4,052-ft [1,235-m] section in 81 h for an ROP of 50 ft/h [15.24 m/h], setting a record in the East basin. The bit reached section TD in a single run and was pulled out of the hole with only minor wear.

■ Actual drilling time
■ Planned drilling time

slb.com/stingblade