



Coiled Tubing Drilling (CTD) represents a great potential for expending production of depleted reservoir, by drilling in under balanced conditions it allows to monitor the production in real time, along with LWD analysis, bio-steering can be conducted for chasing the most attractive layers.

## Challenges of UB-CTD



High

### *High temperature environment*

Harsh for downhole equipment, the main barrier for non 100 % Metallic components



### *Weight transfer to the bit*

Overcome limited weight transmissibility and fragility of electronics toward vibration by selecting a smooth drilling process..



### *DD capacities for bio-steering in real-time*

Capacity to adjust rapidly and efficiently to the desired trajectory and relying on responsive tool for challenging Dog-Leg Severity (DLS) requirement.  
Relying on an **exclusive** adjustable Double Bend Design (*patent pending*).



### *Operating in challenging environment*

Being able to re-enter highly depleted reservoir and keeping the production alive while drilling by constantly managing pressure (adjusting gas/liquid ratio of injections).

## Mamba Turbodrills fit to the purpose



Hydrodynamic downhole motor with the most effective conversion of hydraulics to mechanical power – delivering high RPM to the fixed blades bits ( $ROP=DOC \times RPM$ ) - compatible for aerated drilling (multiphases fluid injected) - Flow controlled & dynamically stable BHA - Light WOB applied, reduced reactive torque - Smooth and steady surface signature due to minimal axial loads.

## *Reliability & Performance*

Mamba Turbodrills can contribute greatly to enhancing the drilling performance of UB-CTD with real-time data analysis, hence the right choice for extending reaches & value of mature fields.

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