



Navigating the Changing World of Reserves and Resources in the Context of the PRMS

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PRMS, Innovation and Unconventional Lateral Drilling System (ULDS)

PRMS categorisation of resources is increasingly dependent on new innovations :_

- Enables moving low permeability resources efficiently through the potential/contingent/reserves categorisation process
- Improve efficiency of economic reserves through maximising recovery and cost-effective operation

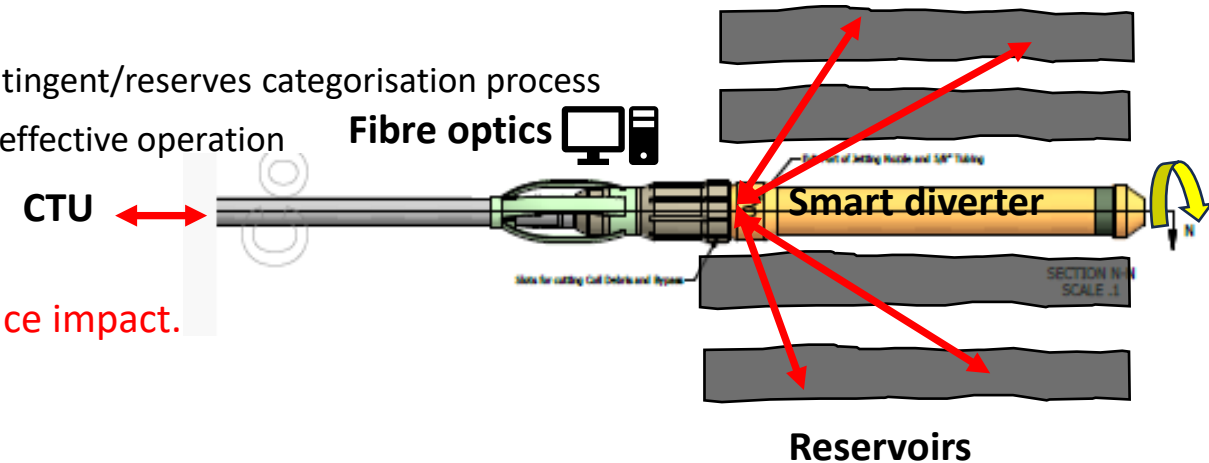
ULDS is a highly controlled reservoir stimulation system designed to increase recovery efficiency and production rate at reduced cost and surface impact.

Key points :-

- Single/multi-reservoir access from a single horizontal well
- Guided directional multiple mini-bores conveyed by coil tubing in and out of the reservoirs through the diverter
- The diverter is rotated sequentially through 360 degrees from a horizontal well in or adjacent to the reservoir
- Monitored increased recovery and reservoir flow distribution/rate through the surface located Fibre-Optic Array
- Fibre-optic surface array linked to a 3-D reservoir model in real time providing controlled, guidance and monitoring of operations and production.
- Real-time controlled jetting distance, density and location of minibores for maximum reservoir contact
- Simple sequential CTU operation at much reduced cost with a minimal operational footprint and maximum controlled reservoir access.
- Operates in both soft (Coal) and hard (Shale/sst) geological environments using fit-for-purpose waterjet and hypersonic tools
- Opens unobstructed conduits to provide a high contacted surface area within the reservoirs unrestricted by coal structure
- Utilised for CBM production, coal mine degassing, tight reservoir stimulation, carbon sequestration.

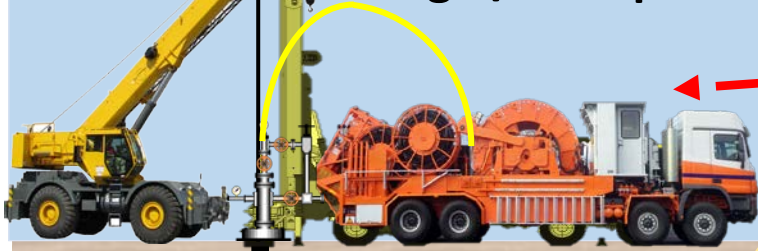
Research and Development is progressing on all technical and operational elements successfully to date for initial field trials Q1 2025

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ULDS CTU fibre-optic directionally guided access from the SDS tool within a single horizontal wellbore, to single/multiple variable coal seams, tight sst/shale reservoirs



Fibre-optic array:- tool guidance and sub-surface operation monitoring in real time + resultant production monitoring

