

Case Studies

CDS®, a natural breakthrough in crude transportation

By significantly reducing crude viscosity and enhancing oil flow, CDS® has proven its ability to improve the mobility and extractability of extra-heavy crude oil. This innovative, all-natural technology eliminates the need for traditional solvents, reducing operational costs and environmental impact.

Moreover, CDS® has demonstrated its effectiveness in:

- **Boosting well productivity:** Increasing oil production rates.
- **Managing water cut:** Reducing the amount of water produced alongside oil.

These improvements result in more efficient and profitable oil operations.

Project 1 Puerto Lleras, Meta, Colombia

CDS® super-charges mobility cutting solvent use

By significantly reducing crude viscosity from 14,000 cps to 180 cps, CDS® technology enabled the transportation of 520 barrels of extra-heavy crude without the use of solvents. This achievement eliminated the reliance on costly light crude or naphtha, streamlining operations and reducing environmental impact. The compatibility of the treated crude with site requirements further underscored the effectiveness of CDS® in facilitating smooth logistics for heavy oil transport.

Project 2 Caño Sur, Llanos Orientales, Colombia

CDS® fuels mobility establishing 'proof-of-life'

By significantly improving crude mobility our client was able to prove the viability of their reservoir to retain their block. This was achieved by applying CDS® to the oil-producing zone to reduce the viscosity of the crude from 21,000 cps to 800 cps, facilitating the efficient recovery (extraction and surface handling) of 50 barrels of oil. This test verified the existence of crude, extending the productive life of our client's block and help to accelerate future project approvals.



CDS[®]

Project 3 Upper Magdalena Valley, Colombia

CDS[®] drives mobility optimising operations

By significantly increasing oil production from 96 to 173 barrels of oil per day and reducing water cut from 51% to 49%, CDS[®] technology has demonstrated its ability to significantly optimise oil well output. This remarkable achievement showed that CDS[®] enhances reservoir permeability, allowing for increased crude flow and reduced water infiltration. This led to higher-quality oil production and improved well economics by decreasing water handling and treatment costs. Additionally, by reducing surface viscosity from 11,000 cps to 240 cps, CDS[®] facilitates easier transportation and processing of the extracted oil, further increasing operational efficiency.

Project 4 Puerto Lleras, Meta, Colombia

CDS[®] powers mobility firing up production

By significantly increasing oil production from 80 to 186 barrels of oil per day and reducing water cut from 80% to 67%, CDS[®] technology demonstrated its profound impact on driving well performance for our client. This groundbreaking achievement not only improved the flow properties of the crude but also reduced water co-production, a major challenge in oil extraction. Lower water cut translates to lower costs for water separation and disposal, enhancing overall extraction efficiency. Additionally, the reduction in viscosity from 14,000 cps to 300 cps ensured smoother downstream operations, further optimising the entire client's production process.

To learn more

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