

Managed Pressure Drilling Market – Global Industry Size, Share, Trends, Opportunity, and Forecast 2018-2028 Segmented By Technology (Constant Bottom Hole Pressure, Mud Cap Drilling, Dual Gradient Drilling, and Return Flow Control Drilling), By Application (Offshore & Onshore), By Region and Competition

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Abstracts

Global Managed Pressure Drilling Market is expected to grow at a robust pace in the forecast period 2024-2028. With the excessive usage of wells, they are rapidly becoming dry, and therefore, new locations are needed. The controlled pressure drilling industry makes it possible for businesses to use cutting-edge extraction and drilling technologies to complete challenging jobs.

Managed Pressure Drilling (MPD) provides a closed-loop circulation system that balances and manages surface pores, fractures, and borehole pressures. Drilling fluids are complemented by surface back pressure that can be adjusted much more quickly depending on downhole conditions compared to traditional mud weight changes. Managed Pressure Drilling allows more precise control of downhole pressure, resulting in less pressure fluctuations and better downhole control. A common application of various Managed Pressure Drilling methods is the ability to control and tune annular pressure profiles. The advantages of conventional Managed Pressure Drilling technology offshore are well known, but the economics of engineering, mobilization and construction, and the need for additional skilled personnel, like unconventional land drilling are not supported in cost-sensitive drilling programs such as unconventional land drilling. The high level of integration and automation of Managed Pressure Drilling services also eliminates the need for third-party service providers. Benefits include

improved safety, reduced health, safety and environmental burden, reduced costs, reduced pad footprint, more efficient rig movement and more transparent performance analysis. For all these reasons, the scalability of MPD services has made it more cost effective for land drilling operations.

Managed pressure drilling gives drillers more control over the costs and risks of pressure well drilling. From harsh sea conditions to more unconventional onshore wellbore environments, controlled pressure drilling helps teams drill where previously seemed impractical or even impossible. Most importantly, controlled pressure drilling helps the team do these jobs safely and with less impact on the environment.

Constant Bottom Pressure (CBHP) is a methodology within MPD that turns the mud pump on or off to keep the well pressure constant at a given depth. The CBHP method is commonly used in highly uncertain wells, narrow well windows, and wells with unstable layers, where pump start-up and shut-down destabilize the layers. In conventional drilling, if the pump stops at a very narrow drilling window, the well pressure can drop below the pore pressure and inflow can occur. When the pump returns to drilling speed, friction causes the pressure in the well to exceed the crushing pressure of the rock, causing losses. In conventional excavation, the only way is to excavate with a reduced amount of pumping water. Lowering the pump speed slows down the drilling process while temporarily controlling the problem. This is because the ROP must be controlled to reduce the risk of loading the well with swarf, delaying well completion and increasing the risk of pipe clogging.

Pressurized Mudcap Drilling (PMCD) refers to non-return drilling in which an annular column of fluid supported by surface pressure is maintained above a formation capable of accepting fluids and drill cuttings. The wellbore was controlled using a light annular mud (LAM) with a density slightly less than that required to balance the formation pressure, supporting all of the injected sacrificial fluid (SAC) and allowing the drill is maintained on top of open-pore formations using Bit by surface pressure.

Rising demand and projects propelling the Global Managed Pressure Drilling Market growth during the forecast period

In February 2023, ONGC, India's oil and gas producer, announced investing more than USD2 billion to drill a record 103 wells at its key gas holding facility in the Arabian Sea, boosting production by 100 million tonnes. Wells develop smaller previously undeveloped deposits and help increase production. India is looking to its increase oil and gas exploration and production area to 500,000 square kilometers by 2025 and 1

million square kilometers by 2030 to increase domestic production and reduce dependence on imported fuels. In 2022, ONGC successfully drilled three gas wells at Tripura through managed pressure drilling (MPD). This proved beneficial within the state as conventional gas wells could not be deployed in these geographic locations.

In 2022, the Egyptian government awarded eight oil and gas exploration blocks in the country to Eni, BP, Apex International, Energian Egypt, United Energy, Cipetrol and INA. The block is part of the first international digital tender round by Egypt's Ministry of Petroleum and Natural Resources. The eight blocks span a total area of approximately 12,300 sq.km. Minimum capital cost at the block's exploration stage is expected to be approximately USD250 million. This is in addition to the signing bonus of USD23.7 million. In 2023, Egypt is expected to launch new international tenders for oil and gas exploration rights in the Nile Delta and Mediterranean. This is in line with the ministry's strategy launched in 2016 to attract more investment in oil and gas exploration in Egypt for existing companies and to allow new organizations to get involved. As of December 2022, Egypt is expected to invest around USD2.1 billion in oil and gas exploration plans by 2025. The new tender is the Egyptian Upstream Gateway (EUG)'s third to use the latest digital techniques, including open block coordinates, seismic surveys, subsurface insights and data provided for the 2022 tender round. It also provides virtual service access to all basic information and important terms of use and model contract. The tender comes after Egypt's Ministry of Petroleum and Natural Resources reported 53 new oil and gas discoveries in 2022, increasing its energy reserves. In 2022, new discoveries saw 42 oil and 11 gas wells in the Western Desert, Gulf of Suez, Mediterranean and Nile Delta. Egypt's total production of all petroleum products increased to 75.5 million tons in 2022. A total of 27.8 million tonnes of crude oil and condensate were produced, along with approximately 50.6 million tonnes of natural gas and 1.1 million tonnes of butane from refineries.

Drilling High Pressure High Temperature (HPHT) wells

The increasing use of modern technology to drill High Pressure High Temperature (HPHT) wells is expected to create opportunities for the use of steerable pressure drilling rigs in the coming years. Drilling activities present many problems, including loss of circulation, clogged pipes, kinks, kicks, or loss scenarios. Therefore, advanced drilling rigs are used for a safe drilling environment. Additionally, the number of high-pressure high temperature (HPHT) wells is increasing each year, with more wells planned for the near future. The extreme conditions in these wells pose a catastrophic potential, further minimizing failure rates. Pressure controlled drilling is commonly used in HPHT well drilling activities. This equipment helps solve these problems by increasing penetration

rates, avoiding kicks and losses, reducing pass-through window excavation coverage, managing mud programs and providing early detection of well expansion. Thus, the suitability of managed pressure drilling technology for high pressure high temperature (HPHT) wells offers significant growth opportunities for managed pressure drilling equipment suppliers.

Latest projects fueling the Global Managed Pressure Drilling Market growth during the forecast period

In September 2020, Australian oil and gas operator, Woodside, signed a contract with Norway's drilling equipment firm Enhanced Drilling to equip its Senegal-bound drill ships with EC-Drill controlled mud level system. The purpose of this contract was the development and integration of an effectively managed pressure drilling (MPD) solution in the form of Enhanced Drilling's EC-Drill system for the Sangomar Field Development.

In February 2021, Stena Drilling announced that it had placed an order for a Managed Pressure Drilling (MPD) system for its Stena Forth drillship. The addition of a managed pressure drilling system to Stena Forth could make 100% of Stena Drilling's company's drilling fleet MPD-ready.

In January 2022, Honeywell announced the launch of a new production facility for oil and gas projects in the Kingdom of Saudi Arabia (KSA). Developed through a joint venture (JV) partnership with Gas Arabian Services (Elster Instromet Saudi Arabia), the facility will provide state-of-the-art infrastructure for the production and assembly of natural gas and liquid fuel solutions. Through this facility, Honeywell will provide both skid and station solutions along with automation and control systems. Honeywell would use the new facility primarily to deliver approved solutions for Saudi Aramco.

Market Segmentation

The Global Managed Pressure Drilling Market is segmented based on technology and application. Based on Technology, the market is bifurcated into constant bottom hole pressure, mud cap drilling, dual gradient drilling, and return flow control drilling. Based on applications, the market is bifurcated into offshore & onshore.

Market players

The main market players in the Global Managed Pressure Drilling Market are Schlumberger Limited, Weatherford International PLC, Halliburton Inc., NOV Inc., Nabors Industries Ltd, Global MPD Services, Ensign Energy Services Inc, Air Drilling Associates Inc., Blade Energy Partners. Ltd, Exceed (XCD) Holdings Ltd.

Report Scope:

In this report, Global Managed Pressure Drilling Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Managed Pressure Drilling Market, By Technology:

Constant Bottom Hole Pressure

Mud Cap Drilling

Dual Gradient Drilling

Return Flow Control Drilling

Managed Pressure Drilling Market, By Application:

Offshore

Onshore

Managed Pressure Drilling Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

India

Japan

South Korea

Australia

China

Europe

Germany

United Kingdom

France

Italy

Spain

South America

Brazil

Argentina

Colombia

Middle East

Saudi Arabia

South Africa

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Managed Pressure Drilling Market.

Available Customizations:

The global managed pressure drilling market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to ten).

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