

Pre-Recorded Webinar Talk on Controlling and Managing Sand Production from Oil and Gas Wells

**in conjunction with World Engineering Day Celebration from 4th March till 9th March 2024*

CPD Hours : 2 CPD Ref No : IEM23/HQ/220/T (w)

Organised by: Oil, Gas and Mining Technical Division

SYNOPSIS

Sand production is common in oil and gas fields producing from clastic reservoirs. It can be triggered by various factors such as high fluid velocities, low bottom-hole pressure, onset of water production and weak rock properties, etc. Once the rock (formation) fails, sand particles can migrate towards the well and eventually reach the surface, causing damage to surface equipment due to erosion, sand deposition in facilities, and reduced well productivity due to sand accumulation in the well. These risks can lead to increased operational costs, production decline, and compromised reservoir integrity.

To manage sand production, various methods are commonly employed in the oil and gas industry. These methods include mechanical techniques such as sand screens and gravel packs, chemical treatments such as consolidating agents and resins, adjustments of production parameters, and monitoring techniques like sand detection sensors and surveillance tools. Proper sand control measures are crucial to prevent equipment damage, formation damage, and production decline, and to ensure safe and efficient oil and gas operations.

In conclusion, sand production is a significant challenge in oil and gas fields, with triggers, risks, and management methods that need to be considered for effective sand control. Understanding the mechanisms of sand production and implementing appropriate management techniques are essential to optimize production, protect wellbore equipment, and maintain reservoir integrity in oil and gas operations.

SPEAKER

Pak Latief Riyanto

Latief Riyanto is a seasoned Principal Scientist (Production Technologist) at PETRONAS Research Sdn Bhd, where he spearheads the deployment of in-house cutting-edge subsurface technologies through pilot projects. He holds a Bachelor's degree in Mechanical Engineering from Institut Teknologi Bandung (ITB) and a Master degree in Petroleum Engineering from IFP School. Latief has accumulated 20+ years of expertise in the Oil and Gas industry. Prior to joining PETRONAS Research, he has worked with Total Indonesia and PETRONAS Carigali, where he played a key role in providing technical assurance for field development project (FDP) and well surveillance.

Other than pilot projects, Latief also holds the responsibility for well completion design, well integrity and production/injection technical assurance in various Carbon Capture and Storage (CCS) projects in Malaysia.



Thursday | 7 March 2024 | 9AM – 11AM

Registration Fee:

Student Member: Free | IEM Member: RM15 | Non-Member: RM70

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