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## Application of Multiport Flow Selector (MPFS) - Onshore Gathering Facilities (OGF) for Garraf Oilfield in Iraq

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### SUMMARY

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**Abstract**—In the past, the conventional manifold is a popular approach by many Operators as gathering station for crude and gas production from wellheads in the oil & gas field. This approach is slowly being substitute by smaller footprint with automated system so called compact manifold, especially for offshore field. However, for the first time in PETRONAS Carigali Operation worldwide, PCIHVB has implemented a new concept for the production gathering using a technology named as Multiport Flow Selector valve, MPFS.

The concept was applied in the recent wellpads development at Garraf Oil Field in Iraq. The function is to gather seven (7) crude production wells and it is also equipped with fully automation system for the provision of well testing of each well whilst the rest of production is directed to production header. The entire well testing activities can be performed remotely via Distributed Control System, DCS in Control Room. The technology involves less human intervention which allowed smaller Operators manning at the wellpads and resulted more efficient operation. The advantages support the operation nature in Garraf Oil Field as the security and safety of personnel is at high risk.

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