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Introduction and application of first Synthetic Base Mud in JAPEX field

[Masayuki Imazato](#)¹⁾

1) Japan Petroleum Exploration Co., Ltd.

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Abstract: In 1987, in order to achieve an efficient 6,000m well drilling, the first introduction of OBM to the domestic field in JAPEX was considered, but temporarily suspended due to Japanese rules and regulations and the development of HPHT WBM was in sight.

Recently, extended reach, horizontal, deepwater and deep HPHT wells are come to demand in worldwide basis and in JAPEX extended reach or highly deviated 3D domestic wells are programmed and SBM are again necessitated to introduce to Japan.

Having reexamination of which consist of facilities to correspond with Japanese regulation, logistics, rig modification, crew training and engineering of both mud cooling and well control, JAPEX achieved usage of SBM in Japan in 2006 for Akebono SK-4D well.

The Akebono well demonstrated a total qualified technology in JAPEX and her subsidiaries in the course of utilization of SBM.

With regard to the actual operation, encountered lost circulation and low ROP in the deep coal bearing formation and hence actual operational days had to be lengthened in spite of being given a good hole condition compared with the past WBM experience.

SBM are to be utilized for next well in 2007, JAPEX group, accordingly, have to overcome several outcomes arising from Akebono in order to be further proficient in utilizing SBM and establish or prove its profits for future operation.

Key words: [Synthetic base mud](#)

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