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ONLINE ISSN: 1881-4131 PRINT ISSN: 0370-9868

Journal of the Japanese Association for Petroleum Technology

Vol. 70 (2005), No. 6 pp.533-536

[PDF (747K)]

Sand control techniques (Screen-less sand control and Through-tubing gravel pack)

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(Received August 31, 2005) (Accepted November 11, 2005)

Abstract: Techniques of sand control are roughly divided into three types. One is control of production rate, next is using screens such as gravel pack, and the last technique is screen-less method.

Japan Petroleum Exploration executed the screen-less sand control to the new well of the Amarume oilfield in Yamagata Prefecture in 2003, and Japan Petroleum Exploration and Mitsubishi Gas Chemical executed the through-tubing gravel pack (TTGP) to the existed well of the Higashi-Niigata oil & gas field in Niigata Prefecture in 2004. Both operations were the first trials in Japan and are presented about the outline of the work in this paper.

Key words: <u>sand control</u>, <u>screen-less</u>, <u>through-tubing</u>, <u>gravel pack</u>, <u>TTGP</u>

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To cite this article:

Masaaki Numasawa and Shinichi Mitsuda 2005: Sand control techniques (Screen-less sand control and Through-tubing gravel pack), J. JAPANESE. ASSOC. PETROL. TECHNOL., **70**: 6, 533-536.

doi:10.3720/japt.70.533 JOI JST.JSTAGE/japt/70.533

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