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" FOX" Stress Analysis of Premium Threaded Connection "FOX" by Finite Element Method

| (Tatsuro Maguchi) (Katsuo Ueno) | |
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Synopsis :

The principal feature of the premium threaded connection "FOX" is the introduction of pitch changehaconnections. The FOX design was developed mafinitely by the ment analysis (FEA) which sufficiently simulated the actual behaviors of the made-up and/or tensile loaded connection. Results of FEA prove that joint characteristics such as anti-galling, leak tightness, and joint strength are greatly improved

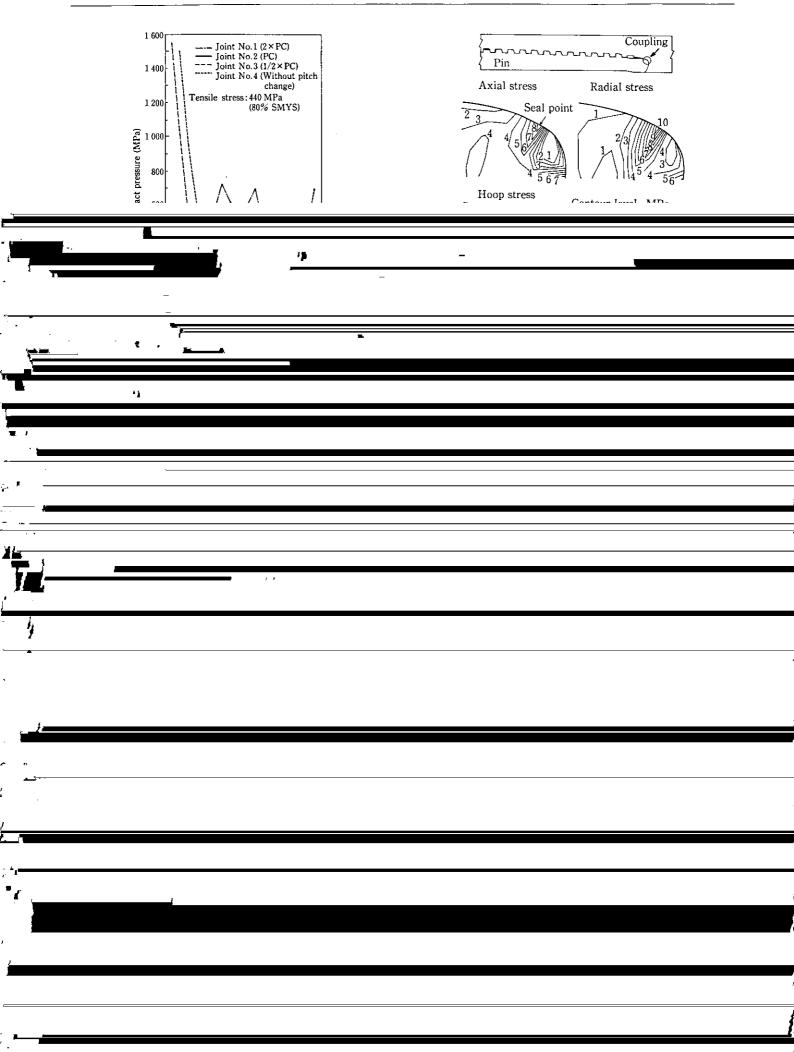
Stress Analysis of Premium Threaded Connection "FOX" by Finite Element Method

| | | | 要旨 油井管用プレミアムジョイント"FOX"の最大の特長は、ビッチ チェンジ法という新しい概念を導入 している ところにある。これ は、ネジビッチを途中で変更することにより歯にかかる接触面圧分 | |
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| | Coupling | 4 000 |
| | | L80, 3-1/2 × 9.2 lbs/ It |
| _ | | - Measured curve |
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| | 有限要素法による油井 | 牛管用プレミアムジョイント"FOX"の特性解析 | 205 |
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| | L80, 9-5/8* \times 47.0 lbs/ft 120 mm 85 mm 55 mm 25 mm | Table 2 Conditions of FEA on the joints steel (2-7/8"×6.4 lb/ft, yield str | ength 552 MPa) |
| | Coupling | Joint type Amount of | pitch change |
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