

Analisis performa safety barriers risiko korosi dan penentuan pipeline safety level pipa gas bawah laut sumura

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Abstrak

Kegagalan pada sistem transportasi saluran pipa gas bawah laut dapat mengakibatkan beberapa risiko yang dapat membahayakan bagi manusia dan lingkungan di sekitar saluran pipa apabila terjadi kebocoran atau bahkan ledakan. Kegagalan tersebut dapat disebabkan beberapa faktor, antara lain terjadinya kebocoran (leaking) karena risiko korosi. Berbagai penelitian dan laporan kasus membuktikan tingkat kecelakaan atau kebakaran dan kebocoran pipa gas bawah laut masih terus terjadi. Analisis safety barriers risiko korosi pipa gas bawah laut dilakukan untuk mengetahui tingkat performa pipeline safety barriers risiko korosi dengan studi kasus pada jaringan pipa gas bawah laut sumur A di PT. XYZ. Penelitian ini dilakukan dengan desain deskriptif analitik melalui data sekunder yang ada di perusahaan. Penelitian ini menggambarkan performa pipeline safety barriers risiko korosi, merujuk kepada pipeline risk level, dan pada akhirnya akan diperoleh pipeline safety level sebagai acuan dalam operasional jaringan pipa gas bawah laut. Kata kunci: Bawah laut, gas, pipeline, safety barriers, risiko, korosi, pipeline risk level, pipeline safety level Failure on the offshore gas pipelines can cause some risks that can be harmful to humans and the environment around the pipeline in case of leakage or even an explosion. The failure may be due to several factors, including leaking to the lining of pipelines due corrosion risks. Various studies and case reports indicate the level of accidents or fires and leaking offshore gas pipeline is still going on. Analysis of safety barriers corrosion risks offshore gas pipeline conducted to determine the performance levels of pipeline safety barriers with a case study on an offshore gas pipeline A wells, PT. XYZ. This research was conducted with descriptive analytic design using secondary data that has available in the company. This study illustrates the performance of the pipeline safety barriers, refers to the pipeline level of risk, and ultimately will be obtained a pipeline safety level as reference in the operation. Key words: Offshore, gas, pipeline, safety barriers, risk, corrosion, pipeline risk level, pipeline safety level