

Optimasi revenue komersialisasi dan lifting minyak bumi menggunakan metode program linear dengan software production and operation management quantitative method = Revenue optimization of petroleum commercialization and lifting method using linear programming on production and operation management quantitative method

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Abstrak

Pelaksanaan operasi industri hulu minyak dan gas bumi di Indonesia dilakukan dengan mekanisme kontrak bagi hasil atau Production Sharing Contract PSC , dimana untuk aspek komersial minyak bumi, lifting entitlement Negara dapat dilakukan secara elect to take inkind atau elect not to take inkind. Analisis optimasi revenue komersialisasi dan lifting minyak bumi menggunakan metode program linear, dan untuk pengolahan data dilakukan dengan simulasi pada perangkat lunak POM-QM untuk windows versi 3. Selanjutnya dilakukan analisis sensitivitas jumlah lifting, entitlement dan mekanisme Komersialisasi terhadap revenue. Data pengujian menunjukkan bahwa perubahan volume lifting untuk mekanisme elect not to take inkind lifting menghasilkan total revenue yang lebih tinggi dibandingkan dengan mekanisme elect to take inkind lifting, hal ini disebabkan terdapat nilai premium penjualan pada kontrak komersial.The upstream oil and gas industries in Indonesia is operated under the term of Production Sharing Contracts PSC , which for the commercial aspects, Government entitlement shall be conducted elect to take inkind or elect not to take inkind. Analysis of revenue optimization on commercialization of crude oil lifting using linear programming methods, and the data simulation and process is using POM QM V.3 for windows software. It also conducted a sensitivity analysis of the components of the lifting revenue, entitlement and the commercialization mechanism. The sensitivity of lifting volume to total revenue on elect not to take inkind lifting mechanism resulted in higher than total revenue than elect to take inkind lifting mechanism. This is due to the value of premium sales on commercial contracts.