Hubungan antara penggunaan teknik pengambilan keputusan dengan performa investasi dalam industri hulu minyak dan gas bumi di Indonesia = The relation between the utilization of decision making technique and the investment performance in Indonesia s upstream oil and gas industry

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Abstrak

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Risiko dan ketidakpastian pasti ada dalam setiap pengambilan keputusan. Oleh karena itu, perlu dilakukan analisis keputusan untuk mengatasi hal tersebut. Banyak sekali metode analisis keputusan, seperti Metode Expected Monetary Value (EMV), Teori Pilihan, Teori Portfolio, dan lain-lain. Namun, tidak semua dapat diaplikasikan dalam kondisi kehidupan nyata. Dalam hal risiko, industri minyak dan gas bumi (migas) adalah industri yang memiliki tingkat risiko yang tinggi, terutama dalam hal investasi. Oleh karena itu, perusahaan migas memerlukan suatu metode analisis keputusan untuk menghadapi risiko tersebut. Hanya saja, teknik analisis keputusan yang digunakan tiap perusahaan belum tentu sama. Penelitian ini akan mencari teknik analisis keputusan yang cocok untuk digunakan di perusahaan migas yang beroperasi di Indonesia. Teknik analisis keputusan tersebut akan dikaji performanya dengan cara menganalisis nilai ekonomis sebuah proyek dan nanti hasilnya akan dibandingkan dengan nilai ekonomis proyek yang menggunakan teknik analisis keputusan konvensional. Hasil penelitian ini menunjukkan bahwa teknik analisis keputusan XYZ-PDEP yang digunakan oleh K3S XYZ terbukti menghasilkan nilai keekonomian proyek yang lebih baik daripada teknik analisis keputusan konvensional. Nilai keekonomian tinggi yang dicapai dengan penggunaan teknik analisis keputusan XYZ-PDEP dibandingkan dengan menggunakan teknik analisis keputusan konvensional menyimpulkan bahwa terdapat hubungan antara penggunaan teknik pengambilan keputusan yang berbeda dengan performa yang dihasilkan.
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ABSTRACT
Risk and uncertainty will always exist in every decision making. Therefore, decision analysis is needed in order to overcome those problems. There are numerous decision analysis methods, such as Expected Monetary Value (EMV), Option Theory, Portfolio Theory, etc. Unfortunately, not all of them are applicable in real life conditions. Concerning risks, the oil and gas industry is the one industry that has high risks, especially in investment. Therefore, oil and gas companies need a decision analysis method to face those risks. Nonetheless, decision analysis techniques differ from one company to others. This research will

find which decision analysis technique is the most suitable one for oil and gas companies in Indonesia. The decision analysis technique?s performance will be evaluated through one of its project?s economic value and the results are then compared with the same project being evaluated by conventional decision analysis technique. The results of this research shows that XYZ-PDEP decision analysis technique that is used by K3S XYZ proved to produce a better project economic value rather than conventional decision analysis technique. The high economic value that was produced by XYZ-PDEP decision analysis technique compared to conventional decision analysis technique concludes that there is a relation between the utilization of different decision analysis technique with each of its performance outcome.;Risk and uncertainty will always exist in every decision making. Therefore, decision analysis is needed in order to overcome those problems. There are numerous decision analysis methods, such as Expected Monetary Value (EMV), Option Theory, Portfolio Theory, etc. Unfortunately, not all of them are applicable in real life conditions. Concerning risks, the oil and gas industry is the one industry that has high risks, especially in investment. Therefore, oil and gas companies need a decision analysis method to face those risks. Nonetheless, decision analysis techniques differ from one company to others. This research will find which decision analysis technique is the most suitable one for oil and gas companies in Indonesia. The decision analysis technique?s performance will be evaluated through one of its project?s economic value and the results are then compared with the same project being evaluated by conventional decision analysis technique. The results of this research shows that XYZ-PDEP decision analysis technique that is used by K3S XYZ proved to produce a better project economic value rather than conventional decision analysis technique. The high economic value that was produced by XYZ-PDEP decision analysis technique compared to conventional decision analysis technique concludes that there is a relation between the utilization of different decision analysis technique with each of its performance outcome.;Risk and uncertainty will always exist in every decision making. Therefore, decision analysis is needed in order to overcome those problems. There are numerous decision analysis methods, such as Expected Monetary Value (EMV), Option Theory, Portfolio Theory, etc. Unfortunately, not all of them are applicable in real life conditions. Concerning risks, the oil and gas industry is the one industry that has high risks, especially in investment. Therefore, oil and gas companies need a decision analysis method to face those risks. Nonetheless, decision analysis techniques differ from one company to others. This research will find which decision analysis technique is the most suitable one for oil and gas companies in Indonesia. The decision analysis technique?s performance will be evaluated through one of its project?s economic value and the results are then compared with the same project being evaluated by conventional decision analysis technique. The results of this research shows that XYZ-PDEP decision analysis technique that is used by K3S XYZ proved to produce a better project

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