

## **ABSTRAK**

### **Pemetaan Perpipaan Gas Tanam Di Desa Tanjung Lengkayap Kecamatan Lengkiti Kabupaten Ogan Komering Ulu Dengan Menggunakan Aplikasi GIS**

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**Desa Tanjung Lengkayap merupakan salah satu Desa yang berada di Kecamatan Lengkiti, Kabupaten Ogan Komering Ulu, Provinsi Sumatera Selatan. Desa Tanjung Lengkayap ini memiliki Lebar Wilayah +-1000 Hektar dan Dengan Panjang Jalan Desa 16,869 Meter.**

**Tujuan dari penelitian ini adalah menganalisis penggunaan geographics information system (GIS) dalam perencanaan pemetaan perpipaan Gas Tanam yang berada di Desa Tanjung Lengkayap Kecamatan Lengkiti Kabupaten Ogan Komering Ulu. Menggunakan aplikasi Arcmap untuk mencari dan mengetahui panjang pipa, jumlah titik koordinat, jenis pipa, dan Diameter pipa yang akan di pasang Desa tersebut.**

**Berdasarkan hasil penelitian yang telah dilakukan, penelitian pemetaan Perpipaan Gas tanam di Desa Tanjung Lengkayap ini juga bisa di dapatkan dan di simpulkan bahwa Desa Tanjung Lengkayap ini memiliki 994 titik koordinat waypoint, lalu akan di pasang dua jenis pipa yaitu pipa utama dan pipa distribusi, pipa utama memiliki diameter 90-110 dan pipa distribusi berdiameter 10 mm, lalu panjang pipa gas utama 3,241 meter dan pipa gas distribusi 13,628 meter, dan panjang keseluruhan pipa yang akan di pasang di desa tanjung lengkyap ialah 16,869 meter.**

**Kata Kunci : Pemetaan Pipa Gas Tanam, Jenis Pipa, Pipa Gas**

## **ABSTRACT**

***Mapping of Planted Gas Pipelines in Tanjung Lengkayap Village, Lengkiti District, Ogan Komering Ulu Regency Using GIS Applications.***

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***Tanjung Lengkayap Village is a village in Lengkiti District, Ogan Komering Ulu District, South Sumatra Province. Tanjung Lengkayap Village has an area of +1000 hectares and a village road length of 16,869 meters***

***The purpose of this study was to analyze the use of geographic information system (GIS) in planning the mapping of the Gas Plant pipeline in Tanjung Lengkayap Village, Lengkiti District, Ogan Komering Ulu Regency. Use the Arcmap application to find and find out the length of the pipe, the number of coordinate points, the type of pipe, and the diameter of the pipe that will be installed in the Village.***

***Based on the results of the research that has been done, the planting Gas Piping mapping research in Tanjung Lengkayap Village can also be obtained and it is concluded that Tanjung Lengkayap Village has 994 waypoint coordinate points, then two types of pipes will be installed, namely the main pipe and distribution pipe, pipe The main gas pipe has a diameter of 90-110 and the distribution pipe is 10 mm in diameter, then the length of the main gas pipe is 3,241 meters and the distribution gas pipe is 13,628 meters, and the total length of the pipe to be installed in Tanjung Lengkayap village is 16,869 meters.***

***Keywords: Mapping of Planted Gas Pipes, Types of Pipes, Gas Pipes***