

19.639/ITS/H/2004



TUGAS AKHIR
(KL 1702)

**MODEL INTERPRETASI MAGNETIK UNTUK
MENDETEKSI POSISI PIPA BAWAH AIR**



RSKe
620.112 70
wid
m-1

2003

PERPUSTAKAAN ITS	
Tgl. Terima	11-7-2003
Terima Dari	H
No. Agenda Prp.	217935

Oleh :

PUGUH WAHYU WIDODO
NRP. 4398.100.011

**JURUSAN TEKNIK KELAUTAN
FAKULTAS TEKNOLOGI KELAUTAN
INSTITUT TEKNOLOGI SEPULUH NOPEMBER
SURABAYA
2003**

LEMBAR PENGESAHAN

MODEL INTERPRETASI MAGNETIK UNTUK MENDETEKSI POSISI PIPA BAWAH AIR

TUGAS AKHIR

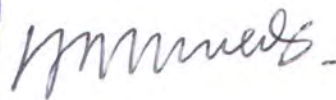
Diajukan Guna Memenuhi Sebagian Persyaratan
Untuk Memperoleh Gelar Sarjana Teknik
Pada
Jurusan Teknik Kelautan
Fakultas Teknologi Kelautan
Institut Teknologi Sepuluh Nopember
Surabaya

Surabaya, Maret 2003

Mengetahui / Menyetujui

Dosen Pembimbing I

Dosen Pembimbing II



Dr. Mahmud Musta'in, MSc.

NIP. 131.869.967

Dr. Ir. Wahyudi, MSc.

NIP. 131.842.502

ABSTRACT

Magnetic method is one of many geophysics method which can be use to detect the existing of things, minerals, oil and other materials which has magnetic property,, which is exist or buried under earth or on below water surface. To identify the existing or position of a material with the use of magnetic method, the rate of magnetism of the material or the susepibility of the material should be discover. One of the applied magnetic methods is the mean of existing of magnetic interpretation models to identify under water pipe, which discussed on this Tugas Akhir. On this Tugas Akhir, the pipe, which has been use, is the steel pipe, which has been use by Tran Java Gas Pipeline Corp. to flow the gas in Madura strait. With the use of density data and susepibility data of rocks and minerals, by knowing the density of the steel pipe, the susepibility of the pipe can be determined. With the use of MAG2DC software and the making of different depth, the amount of different anomaly of magnetic field can obtained. With this anomaly, magnetism interpretation model can be build up to describe magnetic anomaly based on pipe position.