

ABSTRAK
HUBUNGAN VOLUME SHALE TERHADAP KUALITAS BATUBARA
BERDASARKAN DATA WELL LOGGING DI DAERAH KINTAP,
KECAMATAN PELAIHARI, KAB TANAH LAUT, KALIMANTAN
SELATAN

Oleh : Roby Pradana

115.090.028

Telah dilakukan penelitian hubungan Volume Shale (*vshale*) terhadap kualitas batubara (kandungan abu, *total moisture*) berdasarkan data *well logging* di daerah Kintap, Kecamatan Pelaihari, Kabupaten Tanah laut, Kalimantan Selatan.

Penelitian menggunakan data *well logging* berupa *gamma ray*, *density*, *caliper*, serta data proksimate. Penelitian dilakukan dengan menganalisa respon *gamma ray* untuk mendapatkan nilai *Vshale* didalam batubara, *density* untuk mendapatkan batas tebal, kedalaman lapisan batubara, sedangkan dari data proksimate didapatkan nilai kalori, kandungan abu, *total moisture*. Pada penelitian ini digunakan data uji lab yang dihubungkan dengan nilai *vshale* didalam batubara

Hasil yang didapatkan berupa data hubungan *vshale* dengan kalori memiliki nilai $R^2 = 0,710\%$, mempunyai hubungan berbanding terbalik, semakin tinggi nilai *vshale* akan mengurangi nilai kalori atau sebaliknya. Hubungan antara *vshale* dan kandungan abu dengan memiliki nilai $R^2 = 0,722\%$, semakin tinggi nilai *vshale* akan semakin tinggi pula nilai kandungan abunya, mempunyai hubungan berbanding lurus. Hubungan antara *vshale* dan *total moisture* dengan memiliki nilai $R^2 = 0,781\%$, semakin tinggi nilai *vshale* akan semakin tinggi pula nilai *total moisture*, didapatkan hubungan berbanding lurus.

Kata kunci : *Well logging*, *log gamma ray*, *volume shale*, kualitas batubara

ABSTRACT
RELATION OF SHALE VOLUME WITH QUALITY OF COAL BASED
ON WELL LOGGING DATA AT KINTAP FIELD, PELAIHARI
REGENCY, TANAH LAUT,
SOUTH BORNEO

Roby Pradana

115.090.028

The purpose of this research is to know quality of coal at vshale relation based on data of well logging in the area of Kintap, Pelaihari, Tanah Laut Regency, South Borneo.

Research is using data wells, there are logging gamma ray, density, caliper, and obtained a laboratory test results. Research conducted by analyzing response to get a gamma ray vshale in coal, the density to get the limit of thickness, deep coal layer, while from data the laboratory acquired value calories, ash content, total moisture. This research used laboratory test data on connected with vshale data in coal.

The result obtained in form of data vshale relations with calories having value $R^2 = 0,710$ %, having an is inversely, the higher value of vshale will reduce value calories or otherwise. The relation between vshale and ash content are $R^2 = 0,722$ %, the higher the value vshale to the higher also ash content value, have an directly proportional. The relation between vshale and total moisture $R^2 = 0,781$ %, the higher the value vshale to the higher also total moisture, obtained directly proportional relation.

Key word : Well logging, log gamma ray, volume shale, coal quality.