

## **ABSTRACT**

### ***PRODUCTION TEST ANALYSIS USING LIP PRESSURE METHOD ON ULB-02 WELL IN ULUMBU GEOTHERMAL FIELD***

By

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*Ulumbu Geothermal Power Plant is one of the geothermal power plants located on the island of Flores, East Nusa Tenggara and has a capacity of 10 MW. Ulumbu Geothermal Field has 3 wells, which the wells are ULB-01, ULB-02, and ULB-03. Of these only the ULB-02 well is producing. Wells ULB-01 and ULB-03 are not producing due to problems and lack of steam supply from these wells for power plant needs. The production test of the ULB-02 well was carried out as monitoring due to a decrease in production.*

*The lip pressure method is used to find the enthalpy, flowrate, and electricity capacity. The Lip pressure method is also divided into two methods, namely Horizontal Lip pressure and Vertical Lip pressure. The production test on the ULB-02 well is used to identify the deliverability of a well to develop the production capacity, which is very important for the operation of a well.*

*Based on the results, the ULB-02 well produces 5.6 MW of electricity at a pressure of 10 bara with a flowrate of 45.1 t/h. The enthalpy test sample at 100% throttle valve opening was found to be 2668.97 kJ/kg, total mass flow was 60.589 t/h, and brine flow was 0.302 t/h.*

*Keywords: lip pressure, enthalpy, flowrate, deliverability.*