

**LEMBAR PERSETUJUAN ARTIKEL**

**JURNAL**

**GEOLOGI DAERAH BILUANGO DAN SEKITARNYA KECAMATAN  
SUWAWA SELATAN KABUPATEN BONE BOLANGO PROVINSI  
GORONTALO**

Oleh

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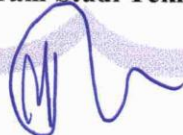
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**GEOLOGI DAERAH BILUANGO DAN SEKITARNYA KECAMATAN  
SUWAWA SELATAN KABUPATEN BONE BOLANGO  
PROVINSI GORONTALO**

Oleh

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**ABSTRAK**

Anita Potabuga. 471 409 006. 2016. Geologi daerah Biluango Dan sekitarnya Kecamatan Suwawa Selatan Kabupaten Bone Bolango Provinsi Gorontalo. Program Studi Teknik Geologi, jurusan Ilmu dan Teknologi Kebumian, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas negeri Gorontalo. Pembimbing I Dr.Ir. Andri Slamet Subandrio Dipl.geol dan Pembimbing II Muh Kasim ST.MT daerah penelitian secara administratif termasuk 4 Desa yakni Desa Biluango, Desa Kiki, Desa Potanga, Desa Loyo. Kecamatan Suwawa Selatan Kabupaten Bone Bolango Provinsi Gorontalo. Secara Geografis terletak pada Koordinat  $0^{\circ}32'16.8000''$  -  $00^{\circ}28'58.8000''$  LU dan  $123^{\circ}08'39.6000''$  -  $123^{\circ}09'57.6000''$  BT. Metode penelitian yang digunakan adalah survey lapangan pemetaan geologi. Dilakukan pengambilan data berupa geomorfologi, litologi, struktur geologi, dan dokumentasi. Analisis laboratorium yakni analisis petrografi dan pengolahan data struktur geologi. Satuan geomorfologi daerah penelitian dibagi menjadi 3 satuan morfologi punggung lava, satuan morfologi perbukitan intrusi dan satuan morfologi dataran banjir. Daerah penelitian dibagi menjadi 4 satuan batuan tidak resmi dari urutan batuan tertua sampai ke batuan termuda : satuan Andesit (Miosen Awal-Miosen Akhir), Satuan Granodiorit (Miosen Akhir) satuan Breksi Vulkanik (Pliosen-Plistosen) dan satuan endapan Teras (Holosen). Struktur geologi terdiri dari kekar dengan arah tegasan utama Timur Laut (NE) dan Sesar normal Boluango arah SW- NE sesar normal Biluango, dan sesar Normal Pancuran Potensi positif daerah penelitian berupa penambangan batu alam, manifestasi panas bumi. Potensi negatif daerah penelitian berupa gerakan tanah/longsor, banjir.

Kata Kunci : Gorontalo, Bone Bolango, Geomorfologi, Geologi Struktur, Stratigrafi, Petrografi.

## ASBTRACT

Anita Potabuga. 471 409 006. 2016. Geology of Biluango Area and Its Surrounding, Sub-district of Suwawa Selatan, District of Bone Bolango, Gorontalo Province. Study Program of Geology Engineering, Department of Geo Science and Technology, Faculty of Mathematics and Natural Science, State University of Gorontalo. Principal supervisor is Dr. Ir. Andri Slamet Subandrio Dipl.geol and Co-supervisor is Muh Kasim ST.MT. Research area is administratively included in 4 villages namely Village of Biluango, Village of Kiki, Village of Potanga, and Village of Loyo. Sub-district of Suwawa Selatan, District of Bone Bolango, Gorontalo Province. Geographically, research area is located on coordinate  $0^{\circ}32'16.8000'' - 00^{\circ}28'58.8000''$  NL and  $123^{\circ}08'39.6000'' - 123^{\circ}09'57.6000''$  EL. The used method in this research is field survey of geology mapping. Its data are geomorphology, lithology, geology structure and documentation. Laboratory analysis is petrographic analysis and geology structure data processing. Geomorphology units of this research location are divided into 3 units namely lava ridge unit, intrusion hill morphology unit, and flood plain morphology unit. Research location is divided into 4 unofficial rocks unit from old to young namely : Andesite unit (Early Miocene – Late Miocene), Granodiorite Unit (Late Miocene), Volcanic Breccia Unit (Pilocene - Pleistocene) and Terrace precipitate unit (Holocene). Geology structure consists of joint with direction north east and normal fault of Boluango with direction SW – NE and normal fault of Pancuran. Positive potency of this area consists of natural stone and geothermal manifestation, while negative potency of this research consists of ground movement/ lanslide and flood.

Keywords: Gorontalo, Bone Bolango, Geomorphology, Geology Structure, Stratigraphy, Petrographic

