

**POTENSI SUMBERDAYA BATUBARA  
DAERAH SUMBER BATU DAN SEKITARNYA, KECAMATAN MEUREUBO,  
KABUPATEN ACEH BARAT,  
PROVINSI ACEH**

**Novita Fadriana**

Teknik Geologi, Fakultas Teknologi Mineral, Universitas Pembangunan Nasional “Veteran” Yogyakarta  
novitageologi@yahoo.com

---

**SARI**

Daerah penelitian terletak pada daerah Sumberbatu dan sekitarnya, Kecamatan Meureubo, Kabupaten Aceh Barat Provinsi Aceh konsesi PT.Mifa Bersaudara.

Pola pengaliran yang berkembang pada daerah penelitian adalah *subdendritik* yang dikontrol oleh litologi. Satuan bentuklahan pada daerah penelitian diklasifikasikan menjadi enam (6) satuan bentuklahan yaitu Perbukitan Struktural (S1), Lembah Struktural (S2), Dataran Aluvial (F1), Rawa (F2), Lembah Bukaan Tambang (D1) dan Dataran Denudasional (D2). Stratigrafi daerah penelitian dibagi menjadi dua (2) satuan tidak resmi dan Endapan Aluvial, yang diurutkan dari tua ke muda yaitu Satuan Batulempung Tutut (Miosen Akhir-Pliosen Akhir), Satuan Batupasir Tutut (Plistosen Awal), dan Endapan Aluvial (Holosen-Resen). Struktur geologi yang berkembang pada daerah penelitian adalah kekar dan struktur homoklin. Berdasarkan analisis aspek fisika, kimia, dan biologi yang telah dilakukan, lapisan pembawa batubara yang termasuk dalam satuan Batulempung Tutut sampai satuan Batupasir Tutut diendapkan pada lingkungan *Upper Delta Plain* sampai *Transitional Lower Delta Plain*.

Berdasarkan hasil perhitungan sumberdaya batubara dengan menggunakan metode USGS (1983) didapatkan hasil yang cukup baik untuk dikembangkan, karena tingkat kalori yang tergolong sedang dan termasuk dalam *subbituminous*. Dengan sumberdaya terukur Seam A sebesar 349.418,655 tonase, sumberdaya terukur Seam B sebesar 3.970.838,196 tonase, sumberdaya terukur Seam C sebesar 2.538.603,795 tonase, sumberdaya terukur Seam D sebesar 867.996,337 tonase, sumberdaya terukur Seam E sebesar 781.178,876 tonase, sumberdaya terukur Seam F sebesar 229.011,455 tonase, dan sumberdaya terukur Seam G sebesar 678.577,744 tonase.

**Kata Kunci** : *Subdendritik, Upper Delta Plain, Transitional Lower Delta Plain, Subbituminous.*

## **ABSTRAK**

*Administratively research area include Sumberbatu, Meureubo Sub-district, Aceh Barat District, Aceh or include on research area of PT. Mifa Bersaudara. Research area geographically situated in coordinate  $04^{\circ}11'14,1 - 04^{\circ}14'32,4''$  LU dan  $96^{\circ}13'11,0'' - 96^{\circ}15'57,0''$  BT X = 191312,5 mE – 196437,5 mE and Y = 463375,5 mN – 469437,5 mN. UTM Zone 49 S.*

*Drainage pattern of research areas subdendritik which controlled by lithology. Landform of research area have divided into six (6) units ; Homoclin hills (S1), Homoclin valleys (S2), Aluvial plains (F1), Swamp (F2), Valley mine openings (H1) and Denudational plains (D1). Stratigraphy of research area have divided into two (2) units unformal litostratigraphy unit and Aluvial deposited with arranged form oldest untill youngest are claystone unit of Tutut (Upper Miocene–Upper Pliocene), Sandstone unit of Tutut (Early Pliocene) and Aluvial deposited (Holosen-Resen). Structural geology have developed in research area are joint and homoclin structure with strike and dip are same.*

*Based on analysis of phsic, chemistry, and biology aspect of depositional enviroment, coal bearing strata of Tutut Formation in research area which formed by claystone unit of Tutut Formation and sandstone unit of Tutut Formation, are deposited in Transitional Lower Delta Plain untili Upper Delta Plain.*

*Based on the calculation of coal resources by using the USGS (1983) be produced good results to be developed, because the calorie levels that were moderate and included in Subbituminous C. With measured coal resourced Seam A are 349.418,655 tonase, measured coal resourced Seam B are 3.970.838,196 tonase, measured coal resourced Seam C are 2.538.603,795 tonase, measured coal resourced Seam D are 867.996,337 tonase, measured coal resourced Seam E are 781.178,876 tonase, measured coal resourced Seam F are 229.011,455 tonase, and measured coal resourced Seam G are 678.577,744 tonase.*

**Keywords :** *Subdendritik, Upper Delta Plain, Transitional Lower Delta Plain, Subbituminous.*