

**GEOLOGI DAN POLA PERSEBARAN SERTA KEMENERUSAN BATUBARA  
SEAM D DAN E1 BERDASARKAN DATA PERMUKAAN SITE BANGKO,  
KEC. LAWANG KIDUL, KAB. MUARA ENIM, PROV. SUMATERA  
SELATAN**

**ABSTRAK**

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Secara administratif daerah penelitian terletak di Desa Tegalrejo, Kecamatan Lawang Kidul, Kabupaten Muara Enim, Provinsi Sumatera Selatan. Secara stratigrafi daerah penelitian berada pada Cekungan Sumatera Selatan, Formasi Muara Enim yang memiliki litologi dengan dominasi batulempung, dan tersebar beberapa litologi seperti batupasir glaukonit dengan struktur flaser, batulanau, dan batubara. Diinterpretasikan bahwa daerah ini mengalami proses sedimentasi di lingkungan *lower delta plain* (Allen & Chambers, 1998).

Penelitian ini bertujuan untuk mengetahui keadaan geologi secara detail pada daerah penelitian berupa pola pengaliran, geomorfologi, stratigrafi, struktur geologi, dan lingkungan pengendapan serta mengetahui pola persebaran dan kemenerusan lapisan batubara daerah penelitian. Metode penelitian ini melakukan pengamatan lapangan untuk mendapatkan data geologi pada permukaan serta pengolahan data sekunder berupa kontur aktual.

Geomorfologi daerah penelitian terdiri dari bentuk lahan Perbukitan Bergelombang (D1), Lahan bukaan tambang (A1), Air *sump* (A2), dan Lahan timbunan galian tambang (A3). Stratigrafi daerah penelitian disusun oleh Satuan Batulempung Muara Enim yang terendapkan pada kala Miosen Akhir (Ginger & Fielding, 2005). Pada daerah penelitian terdapat struktur geologi yaitu Sesar *Normal Left Slip Fault* (Rickard, 1972) pada LP 31 dan *Left Thrust Slip Fault* (Rickard, 1972) pada LP 67. Lapisan Batubara memiliki pola persebaran dan kemenerusan, dimana pada daerah penelitian pola persebaran dan kemenerusan terpengaruh oleh hadirnya sesar yang berkembang dan membuat pola kemenerusan yang terpotong serta pola persebaran yang berubah lebih menunjam atau memiliki bentuk yang menyempit ke arah barat laut daerah penelitian.

**Kata Kunci** : Batubara, Kemenerusan, Muara Enim, Persebaran, Sesar

**GEOLOGY AND PATTERNS OF SPREADING AND DETERMINATION OF SEAM D AND E1 COALS BASED ON SURFACE DATA OF SITE BANGKO, KEC. LAWANG KIDUL, DISTRICT. MUARA ENIM, PROV. SOUTH SUMATRA**

***ABSTRACT***

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Administratively the research area is located in Tegalrejo Village, Lawang Kidul District, Muara Enim Regency, South Sumatra Province. Stratigraphically the study area is in the South Sumatra Basin, the Muara Enim Formation which has a lithology dominated by claystone, and scattered several lithologies such as glauconite sandstones with a flarer structure, siltstone and coal. It is interpreted that this area is experiencing a process of sedimentation in the lower delta plain environment (Allen & Chambers, 1998).

This study aims to determine the geological conditions in detail in the study area in the form of drainage patterns, geomorphology, stratigraphy, geological structure, and depositional environment and to determine the pattern of distribution and continuity of coal seams in the study area. This research method is conducting field observations to obtain geological data on the surface as well as secondary data processing in the form of actual contours.

The geomorphology of the study area consists of wavy hills (D1), mine openings (A1), water sumps (A2), and mine dumping land (A3). The stratigraphy of the study area was composed by the Muara Enim Claystone Unit which was deposited during the Late Miocene (Ginger & Fielding, 2005). In the study area there are geological structures, namely Normal Fault Left Slip Fault (Rickard, 1972) at LP 31 and Left Thrust Slip Fault (Rickard, 1972) at LP 67. The coal seam has a pattern of distribution and continuity, where in the study area the pattern of distribution and continuity affected by the presence of faults that develop and create discontinuous patterns of continuity and distribution patterns that change more sharply or have a narrower shape to the northwest of the study area.

**Keywords:** Coal, Continuity, Muara Enim, Distribution, Fault