

SOURCE ROCK POTENTIAL OF TERTIARY COAL AND ASSOCIATED SEDIMENTS FROM THAR COAL FIELD, LOWER INDUS BASIN, PAKISTAN

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Geochemical and organic petrographic data for the Middle Paleocene to Early Eocene Thar coals from the Lower Indus basin, provide some important information regarding its source potential. Hydrogen-rich, oil-prone coals are present, which are identified based on HI results, S2/S3 ratio and liptinite content. Approximately one-meter thick oil shale facies is discovered. This oil shale facies is comprises of more than 90% alginite and falls in the category of type II kerogen . Vitrinite reflectance and Truax results show that these coals and sediments are immature. However, the S1 results, the total production index log and the oil droplets confirm the generation of hydrocarbon.