

Global Reserves of the Coquina Area at Eshidiya Phosphate Deposits, South Jordan

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Enormous phosphate deposits occur in Jordan extending along a belt from North to South. The Shidiya deposits are the largest of all. Economic grade deposits are present in three beds (A1, A2, A3). These deposits form part of the late Cretaceous-Eocene Tethyan Phosphogenic Province extending east- west from the Middle East through Africa to Latin America. The global estimates for the total tonnage, the total content of Tri Calcium Phosphate (TCP), and TCP mean grades and their association precision were estimated for the study area. The estimations were based on phosphate grade (TCP) and thickness. The treated comes from 226 vertical holes that were dug in the phosphate beds on a regular grid of 400x400m for each. Semivariance analysis indicates that the Shidiya deposits are relatively homogeneous. Moreover, the result of this study revealed that bed A3 needs additional drilling before evaluate the ore reserves.