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R. E. Batzel

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October 1, 1974

It should be pointed out that if the yield were only 10 kt, as has been reported elsewhere, the situation is quite different. The scaled depth of burial is now  $55 \text{ m/kt}^{1/3.4}$  which is almost the same scaled depth of burial as Sulky. In hard rock such an event would lead to a retarc with a diameter of roughly 200 meters. In shale, 10 kt at 109 meters would probably result in a positive crater. The lip-to-lip diameter could be quite variable but would probably lie somewhere between 150 and 200 meters depending on moisture content. The depth could be almost any number in this area of the depth-of-burst curve.

In summary, on the basis of the 109 meter depth of burst, the reported results would appear to most closely satisfy a yield of 10 kt.

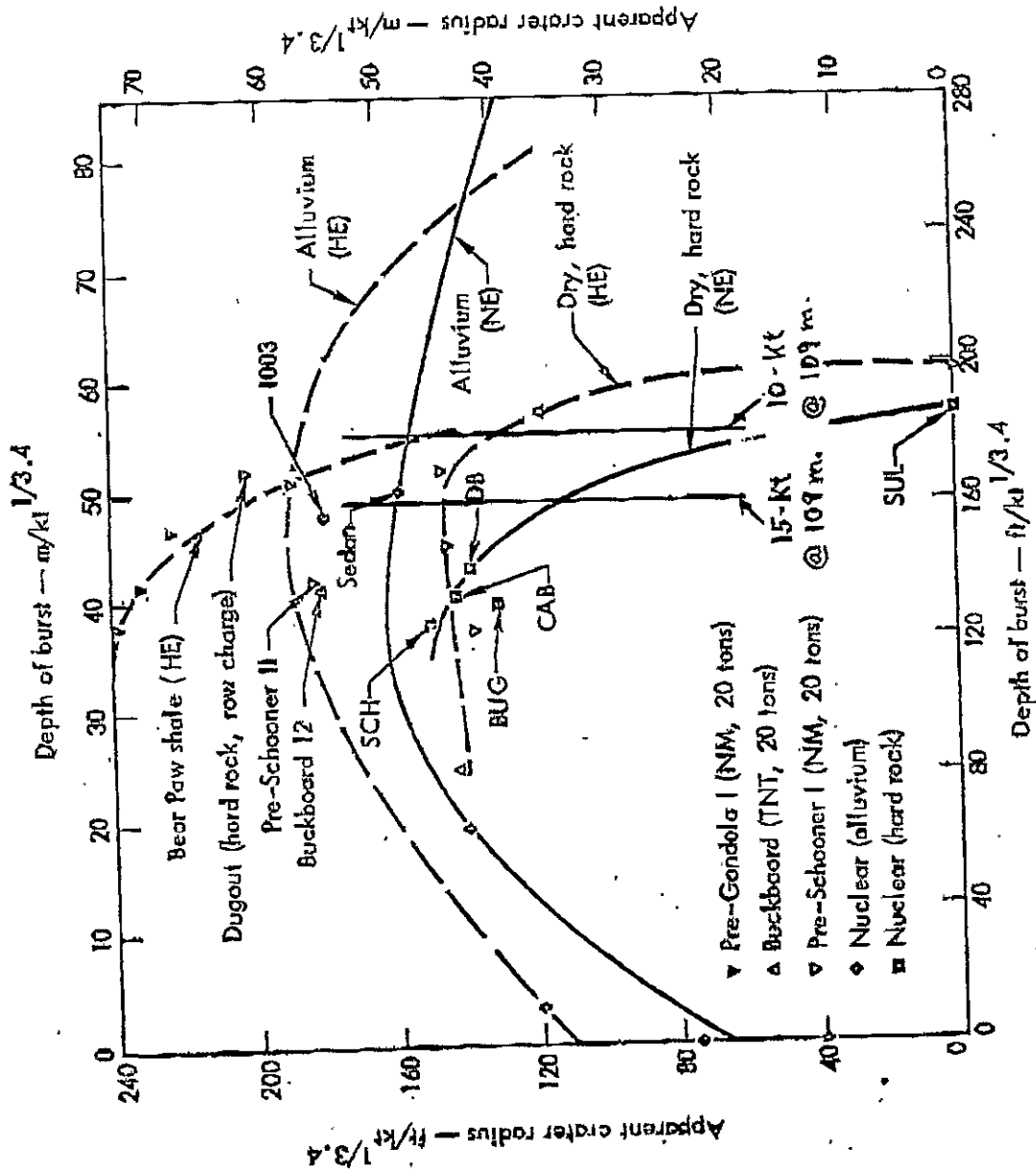
  
Milo D. Nordyke

MDN: sbp  
Attachments

cc: F. Holzer  
J. King  
J. Landauer  
L. Schwartz  
K. Street  
J. Toman  
G. Werth

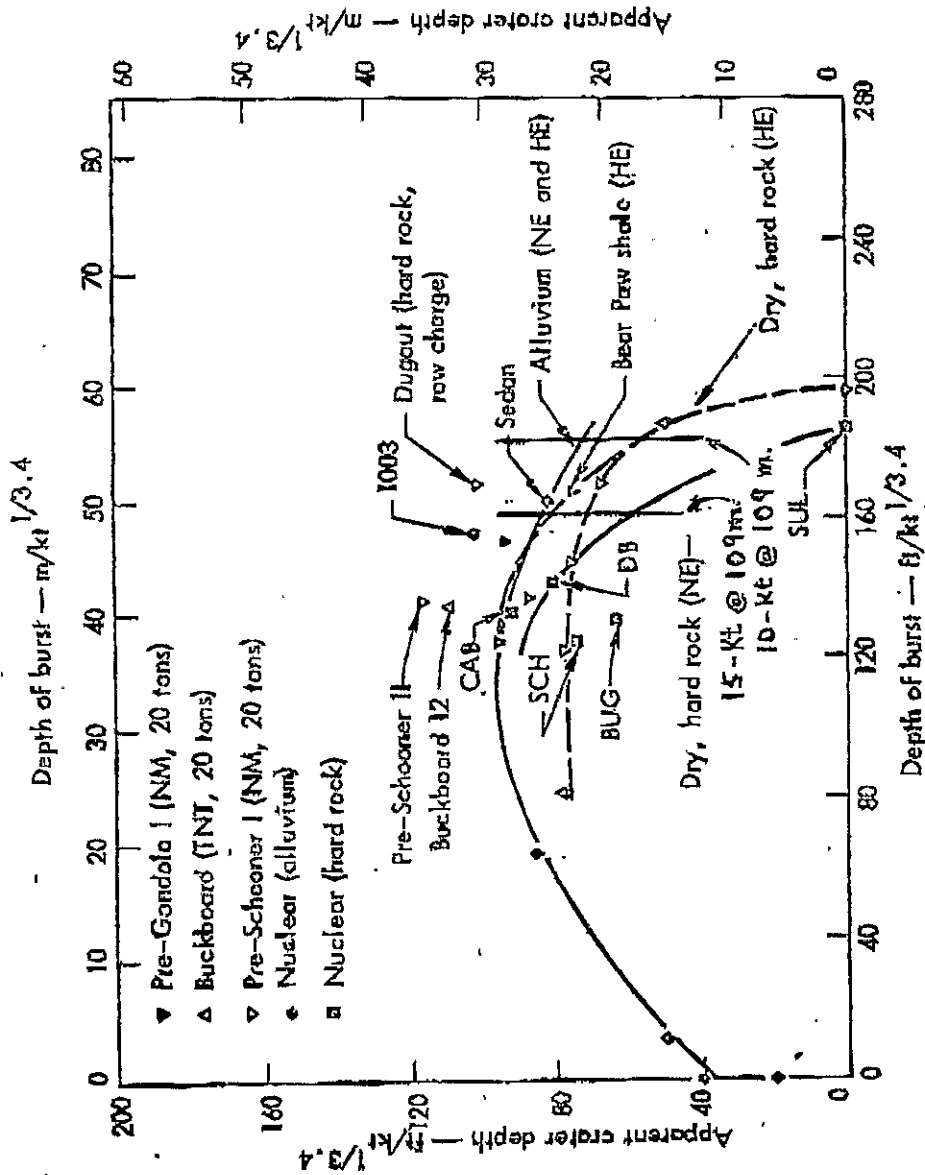
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