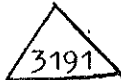


TITLE Identification of a polished green stone from Gorhambury, Hertfordshire, AMLW 814713: Site reference No. 3816 (2004) 

AUTHOR M E Hutchinson

DATE 22 February 1982

ABSTRACTS The identification of a cut stone from Gorhambury, Herts as an emerald.

KEYWORDS gem, gemstone, green, beryl, emerald, polished

THIS REPORT IS Level III

THE INFORMATION IN THIS REPORT IS PROVIDED ON THE UNDERSTANDING THAT ITS AUTHOR WILL BE CONSULTED IF THE INFORMATION IS TO BE EDITED FOR ANY FURTHER PUBLICATION. SUCH CONSULTATION SHOULD ALSO INCLUDE PROVISION OF PROOFS FOR CHECKING AT ALL STAGES IRRESPECTIVE OF WHETHER ALTERATIONS HAVE BEEN MADE TO THE ORIGINAL TEXT, AS WELL AS FORMAT, LAYOUT, AND FRAMEWORK WITHIN WHICH ANY CONDENSED VERSION IS TO APPEAR, ESPECIALLY IF ATTRIBUTION IS TO BE MODIFIED.

IDENTIFICATION OF A POLISHED GREEN STONE FROM GORHAMBURY, HERTFORDSHIRE,

AML No. 814713: SITE REFERENCE No. 3816

2004

3191

The stone has been cut as a three sided prism with the long axis parallel to the long (c) axis of the original crystal. The two top facets meet at approximately 72° . All the surfaces have been cut and polished and the corners of the long edges have been rounded, ie the facets have not been produced by cleavage, nor are they the original crystal faces. In a damaged area on the top of the stone it can be seen that the stone is full of the rod or tube shaped inclusions known as 'rain' which produce a marked schiller on each end. Although opaque over most of its area the stone is translucent near the angles of the prism where it is thinner. From its physical characteristics the stone can be identified as beryl - variety emerald.

Physical Constants

Colour: green
Weight: 8.9576g (44.78 carats)
Size: length 27.5mm; width 18.5mm; height 10.5mm
Refractive Index: 1.585; 1.591 D.R. 0.006
Spectrum: faint chromium spectrum
Cut: triangular prism

I regret that it is impossible to say in which country this stone was mined.