From the air to the atomic level of a ditch

1. The Site

Cropmarks identified by aerial photography at Forteviot revealed an early prehistoric ceremonial landscape and an early medieval cemetery. The site is one of the most important British Royal Cemeteries of Scotland. It is located in southern Perthshire and overlies a series of megalithic tombs, megalithic structures, and a pit. The site was first surveyed by the Aerial Photography Project in 1980, and further surveys were conducted in 1997 and 2000. The recent surveys have revealed a series of linear features, including a series of ditches and a series of circular structures.

2. Previous Geophysics

Prior to excavation by SEFF, initial geophysical surveys were carried out. The results were disappointing, with the exception of the geophysical surveys at the site of the Royal Cemeteries, which revealed a series of linear features, including a series of ditches and a series of circular structures.

3. An Integrated Approach

The use of a combination of aerial photography, geophysical surveys, and ground-truthing has allowed for a more detailed understanding of the site. The results of the geophysical surveys have been used to guide the excavation of the site, and the results of the ground-truthing have been used to refine the interpretation of the geophysical data.

4. Multi-technique Geophysical Survey

The multi-technique geophysical survey includes a combination of magnetic, electrical, ground-penetrating radar, and ground-penetrating radar. The results of the survey have revealed a series of linear features, including a series of ditches and a series of circular structures.

5. Geochemical Analysis

The geochemical analysis of the site has revealed a series of linear features, including a series of ditches and a series of circular structures.

Conclusions

The results of the geophysical and geochemical surveys have provided a detailed understanding of the site. The site is an important example of early prehistoric and medieval Scottish ceremonial practice, and the results of the survey have provided a detailed understanding of the site's development.

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Acronyms

EMI: Electrical Multi-frequency Imaging
EMR: Electromagnetic Resonance
LOI: Loss on Ignition
QPR: Quantitative Principal Component Analysis
GPR: Ground-Penetrating Radar
core: Core Sample
RIP: Remote Imaging Project
SEFF: Scottish Environmental Foundation