

## EXCURSION TO NORTH LINCOLNSHIRE

Leader: P.E. Kent

Sunday, 17th October 1971

The party left Shakespeare Street a little late, and travelled via Radcliffe and the Fosse Road to Newark. From there the route ran north below the Rhaetic Scarp to Marton (with its Saxon church), where it turned east to cross the Lias outcrop via Stow to reach the Inferior Oolite at Ingham. The Lias hereabouts produces a very featureless landscape, but the piercing together of information from temporary exposures has provided fairly detailed knowledge of the sequence.

From Ingham the route followed "Lincoln Cliff", the edge of the Oolite scarp, northwards to Kirton Lindsay. The main quarry (SE 9401) in the Lincolnshire Limestone was visited by permission of the Associated Portland Cement Co.; it shows this formation in its northern, cementstone, facies - an alteration of grey calcilutite beds with shales (Kirton Cementstones), overlain by a thicker shale (Kirton Shale) with irregular coralliferous limestone masses; the latter yielded abundant bivalves including *Lopha*, *Parvirhynchia* and *Acanthothyris crossi*.

The party then continued north to Scunthorpe, where it was met by Mr. David Elford of The British Steel Corporation for visits to the extensive Frodingham ironstone quarries which currently produce five million tons of ore per year. Lunch was taken at the first stop, at the Crosby Warren Ironstone mine (SE 905125) before beginning examination of the Lias section with the excellently exposed Pecten Bed at the base of the davoei zone, a six foot ferruginous limestone/calcareous ironstone with abundant large well preserved *Pseudopecten aequivalvis*. An oblique road provided access to the main bulk of Lias clays, the lower part of the 90 foot exposure providing a wealth of Echinoceratidae and striking large "Deroceras".

The party then moved north again to Thealby to a parallel section (SE 905187) which provided better collecting conditions in the Frodingham Ironstone beneath the clay sequence; here members collected a range of characteristic lamellibranchs and a few ammonites, including *Pararnioceras* from the upper beds.

The party returned to Nottingham, loaded with fossils, via Ermine Street, Lincoln, and Newark.

P.E. Kent

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