

# T W Reader geological photographs 1910, 1911 and 1912 - index, GA 'Carreck Archive'

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# T W Reader geological photographs 1910, 1911 and 1912 - index, GA 'Carreck Archive'

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## Geologists' Association 1910

### Excursion to Worms Heath, April 2nd 1910

[Page 5 P805349](#) Large pit abutting on the southern side of the road in the pebble beds of the Blackheath series resting on Chalk, a huge mass is seen rising up suddenly from the pebble beds to a few feet of the surface. Excursion to Worms Heath, April 2nd 1910.

[Page 5 P805350](#) Large pit abutting on the southern side of the road in the pebble beds of the Blackheath series resting on Chalk, a huge mass is seen rising up suddenly from the pebble beds to a few feet of the surface. Excursion to Worms Heath, April 2nd 1910.

[Page 5 P805351](#) The newer pit on the northern side of the road by the eastern point of Worms Heath, showing chalk below the pebble beds. Excursion to Worms Heath, April 2nd 1910.

[Page 5 P805352](#) The newer pit on the northern side of the road by the eastern point of Worms Heath, showing chalk below the pebble beds. Excursion to Worms Heath, April 2nd 1910.

### Excursion to Grays Thurrock, April 9th 1910

The large pit of the Grays Chalk Company. Excursion to Grays Thurrock, April 9th 1910. [Photograph missing.].

The large pit of the Grays Chalk Company. Pleistocene beds overlying the Chalk. Excursion to Grays Thurrock, April 9th 1910. [Photograph missing.].

### Excursion to Sandy Lodge, Northwood, April 16th 1910

[Page 9 P805357](#) Pit in Reading Sands, see section below. Excursion to Sandy Lodge, Northwood, April 16th 1910.

[Page 9 P805358](#) [Pit in Reading Sands.]. Excursion to Sandy Lodge, Northwood, April 16th 1910. Added note: 14 ft of pale Reading Sand with greenish bands, at base of section a layer of scattered flint pebbles; Covering of sandy clay, loam clay and pebbles, the residuum of denuded Tertiary beds. [Bottom to top.].

[Page 9 P805359](#) [Pit in Reading Sands.] Reading Sands about 6 feet with bed of flint pebbles 18 inches. The pebbles are about 2 inches in length, separated from each other by sand. All smaller pebbles are absent. Excursion to Sandy Lodge, Northwood, April 16th 1910.

### Excursion to Sudbury, Suffolk, April 23rd 1910

[Page 11 P805360](#) Whorlow's Chalk pit. Excursion to Sudbury, Suffolk, April 23rd 1910. Added note: Chalk; Thanet; Crag; Current bedded gravels; Boulder clay. [Bottom to top.].

[Page 11 P805361](#) The Alexandra Sand pit. Excursion to Sudbury, Suffolk, April 23rd 1910. Added note: Member's hat is seen at the top of the Thanet beds; Crag; Current bedded sands and gravel; Boulder clay; Made earth. [Bottom to top.].

[Page 11 P805362](#) Newton Road Sand pit. 15 to 20 ft whitish well bedded sand, eroded at top and overlain by irregular sands and gravels. Excursion to Sudbury, Suffolk, April 23rd 1910.

[Page 11 P805363](#) Newton Road Sand pit. 15 to 20 ft whitish well bedded sand, eroded at top and overlain by irregular sands and gravels. Excursion to Sudbury, Suffolk, April 23rd 1910.

[Page 13 P805364](#) Contorted clays and sands. Greens pit. Excursion to Sudbury, Suffolk, April 23rd 1910.

[Page 13 P805365](#) Upper Gallows Hill pit. Chalky Boulder clay resting on undisturbed finely bedded sandy silts. Excursion to Sudbury, Suffolk, April 23rd 1910. Added note: Silts; Boulder clay. [Bottom to top.].

[Page 13 P805366](#) Lower Gallows Hill pit. Boulder clay filling a hollow formed by bending of silt beds. Excursion to Sudbury, Suffolk, April 23rd 1910. Added note: Bedded silts; Boulder clay. [Bottom to top.].

[Page 13 P805367](#) Victoria pit north east of St Peter's Church. Excursion to Sudbury, Suffolk, April 23rd 1910. Added note: Chalk; Thanet Sands; Crag; Current bedded glacial sands. [Bottom to top.].

### **Excursion to Southborough and Tonbridge, May 28th 1910**

[Page 15 P805368](#) High Broom Brick Company's pit. Tunbridge Wells Sand overlying Wadhurst Clay. Excursion to Southborough and Tonbridge, May 28th 1910.

[Page 15 P805369](#) Carried 40,000,000 bricks. Edward Ashbee, an employee of the High Broom Brick Company, near Tunbridge Wells. Excursion to Southborough and Tonbridge, May 28th 1910. Edward Ashbee holds the record of having carried considerably over 40,000,000 bricks on a wheelbarrow in the past thirty years. The weight of the bricks is estimated at nearly 130,000 tons, and in the course of his work he has walked nearly 55,000 miles, or nearly twice the distance round the world. Ashbee is a man of fine physique, and looks much younger than his fifty years. [Newspaper cutting.].

### **Excursion to Reigate, July 2nd 1910**

[Page 15 P805370](#) Pit by railway south of Wray Common. Gault resting on Folkestone beds. Excursion to Reigate, July 2nd 1910.

[Page 15 P805371](#) Excursion to Reigate, July 2nd 1910.

### **Excursion to French Street and Sundridge, June 4th 1910**

[Page 17 P805372](#) Manor Farm section showing the centre of an anticline in the Hythe Beds. Excursion to French Street and Sundridge, June 4th 1910.

[Page 17 P805373](#) Chert quarry in Hythe Beds on side of Sundridge Road (District Council pit). Chert occurring in evenly bedded layers alternating with loose clayey material. Excursion to French Street and Sundridge, June 4th 1910.

[Page 17 P805374](#) Chert quarry in Hythe Beds on side of Sundridge Road (District Council pit). Chert occurring in evenly bedded layers alternating with loose clayey material. Excursion to French Street and Sundridge, June 4th 1910.

### **Excursion to Sonning, June 25th 1910**

[Page 19 P805375](#) Sonning bridge from old chalk pits by river bank. Excursion to Sonning, June 25th 1910.

- [Page 19 P805376](#) Spring at foot of Span Hill, bubbling up through coarse sand. Excursion to Sonning, June 25th 1910.
- [Page 19 P805377](#) Sonning Church. In the burial register is recorded the name of William Eyres who was killed by the fall of a chalk pit, Sep. 14 1660. Excursion to Sonning, June 25th 1910.
- [Page 19 P805378](#) Some of the members examining the collection of the Director, Mr Treacher. Excursion to Sonning, June 25th 1910.
- [Page 21 P805379](#) Span Hill Chalk pit. Micraster cor-anguinum zone (upper part of zonal horizon) with very regular flint layers. Excursion to Sonning, June 25th 1910.
- [Page 21 P805380](#) Span Hill Chalk pit. Micraster cor-anguinum zone (upper part of zonal horizon) with very regular flint layers. Excursion to Sonning, June 25th 1910.
- [Page 21 P805381](#) Span Hill Chalk pit. Micraster cor-anguinum zone (upper part of zonal horizon) with very regular flint layers. Excursion to Sonning, June 25th 1910.
- [Page 21 P805382](#) Span Hill Chalk pit. Micraster cor-anguinum zone (upper part of zonal horizon) with very regular flint layers. Excursion to Sonning, June 25th 1910.

### **Excursion to Arlesey and Letchworth, July 9th 1910**

- [Page 23 P805383](#) Gravels capping Chalk, Letchworth. Excursion to Arlesey and Letchworth, July 9th 1910.
- [Page 23 P805384](#) Arlesey, section of Chalk Marl. Excursion to Arlesey and Letchworth, July 9th 1910.
- [Page 23 P805385](#) Glacial gravels near Station, Letchworth. Excursion to Arlesey and Letchworth, July 9th 1910.
- [Page 23 P805386](#) Glacial gravels near Station, Letchworth. Excursion to Arlesey and Letchworth, July 9th 1910.
- [Page 25 P805387](#) Brickworks of Messrs Beart and Co., Arlesey, in the upper part of the Gault, Cambridge Greensand, and base of the Chalk Marl. The members are on the junction examining the Cambridge Greensand. Excursion to Arlesey and Letchworth, July 9th 1910.
- [Page 25 P805388](#) Brickworks of Messrs Beart and Co., Arlesey, in the upper part of the Gault, Cambridge Greensand, and base of the Chalk Marl. The members are on the junction examining the Cambridge Greensand. Excursion to Arlesey and Letchworth, July 9th 1910.
- [Page 25 P805389](#) Excursion to Arlesey and Letchworth, July 9th 1910.
- [Page 25 P805390](#) Arlesey Cement Company pit. Excursion to Arlesey and Letchworth, July 9th 1910. Added note: Base of the Lower Chalk; Totternhoe Stone; Upper part of the Chalk Marl. [Bottom to top.].

### **Excursion to Hedgerley and Burnham Beeches, September 3rd 1910**

- [Page 27 P805391](#) Hedgerley, from edge of Plateau Gravels overlooking Reading Beds and basement of London Clay. Excursion to Hedgerley and Burnham Beeches, September 3rd 1910.
- [Page 27 P805392](#) Section of Plateau Gravels at Hedgerley. Excursion to Hedgerley and Burnham Beeches, September 3rd 1910.
- [Page 27 P805393](#) Bulstrode Park looking over a river valley to the Plateau beyond. Excursion to Hedgerley and Burnham Beeches, September 3rd 1910.
- [Page 27 P805394](#) Reading Beds at Hedgerley Green. Excursion to Hedgerley and Burnham Beeches, September 3rd 1910.

## Excursion to Charnwood Forest, September 8th 1910

[Page 29 P805395](#) Bardon Hill quarries. The main mass of the rock was considered by Prof. Watts as belonging to the coarse Beacon Agglomerates, but it is possible that igneous flows have formed part of the main mass. Excursion to Charnwood Forest, September 8th 1910. On the north side the Peldar Porphyroid is intrusive and on the south sides the Beacon rocks and the Slate Agglomerates are found. The upper beds capping the igneous rocks are Triassic. Added note: North [on right hand side of photograph].

[Page 29 P805396](#) Bardon Hill quarries. The main mass of the rock was considered by Prof. Watts as belonging to the coarse Beacon Agglomerates, but it is possible that igneous flows have formed part of the main mass. Excursion to Charnwood Forest, September 8th 1910. On the north side the Peldar Porphyroid is intrusive and on the south sides the Beacon rocks and the Slate Agglomerates are found. The upper beds capping the igneous rocks are Triassic. Added note: South corner [on right hand side of photograph].

[Page 29 P805397](#) Bardon Hill quarries. The main mass of the rock was considered by Prof. Watts as belonging to the coarse Beacon Agglomerates, but it is possible that igneous flows have formed part of the main mass. Excursion to Charnwood Forest, September 8th 1910. On the north side the Peldar Porphyroid is intrusive and on the south sides the Beacon rocks and the Slate Agglomerates are found. The upper beds capping the igneous rocks are Triassic. Added note: East [on right hand side of photograph].

[Page 29 P805398](#) Bardon Hill quarries. The main mass of the rock was considered by Prof. Watts as belonging to the coarse Beacon Agglomerates, but it is possible that igneous flows have formed part of the main mass. Excursion to Charnwood Forest, September 8th 1910. On the north side the Peldar Porphyroid is intrusive and on the south sides the Beacon rocks and the Slate Agglomerates are found. The upper beds capping the igneous rocks are Triassic. Added note: East [on right hand side of photograph].

[Page 31 P805399](#) Coarse felsitic agglomerates on Timberwood Hill, overlooking the central part of the Charnwood Forest district. Excursion to Charnwood Forest, September 8th 1910.

[Page 31 P805400](#) Coarse felsitic agglomerates on Timberwood Hill, overlooking the central part of the Charnwood Forest district. Excursion to Charnwood Forest, September 8th 1910.

[Page 31 P805401](#) Coarse felsitic agglomerates on Timberwood Hill, overlooking the central part of the Charnwood Forest district. Excursion to Charnwood Forest, September 8th 1910.

[Page 31 P805402](#) Coarse felsitic agglomerates on Timberwood Hill, overlooking the central part of the Charnwood Forest district. Excursion to Charnwood Forest, September 8th 1910.

## Geologists' Association 1911

### Bracknell Excursion, April 8th 1911

[Page 35 P805403](#) Down Mill pit. London Clay with *Septaria* in situ. Bracknell Excursion, April 8th 1911.

[Page 35 P805404](#) Down Mill pit. A group of *Septaria*. Bracknell Excursion, April 8th 1911.

[Page 35 P805405](#) Fossils from *Septaria* in the Down Mill pit, *Pectunculus decussata*. Bracknell Excursion, April 8th 1911.

[Page 35 P805406](#) Fossils from *Septaria* in the Down Mill pit, *Modiola elegans*. Bracknell Excursion, April 8th 1911.

### **Basingstoke Excursion, May 13th 1911**

[Page 37 P805407](#) Upper Natley. Junction of Reading Beds and London Clay. Basingstoke Excursion, May 13th 1911.

[Page 37 P805408](#) Upper Natley. Reading Beds covered with Brickearth. Basingstoke Excursion, May 13th 1911.

[Page 37 P805409](#) Upper Natley. Sarsen blocks in situ being part of a sandstone bed in the Reading series. Basingstoke Excursion, May 13th 1911.

[Page 37 P805410](#) Upper Natley. Basement Bed of London Clay resting on false bedded sands of the Woolwich and Reading Beds. Basingstoke Excursion, May 13th 1911.

[Page 39 P805411](#) Sections in London Clay at Newnham. Basingstoke Excursion, May 13th 1911.

[Page 39 P805412](#) Sections in London Clay at Newnham. Basingstoke Excursion, May 13th 1911.

[Page 39 P805413](#) Sections in London Clay at Newnham. Basingstoke Excursion, May 13th 1911.

[Page 39 P805414](#) Sections in London Clay at Newnham. Basingstoke Excursion, May 13th 1911.

### **Chilworth and St. Martha's Hill Excursion, May 20th 1911**

[Page 41 P805415](#) Chilworth. Roadside section in Folkestone Sands. Chilworth and St. Martha's Hill Excursion, May 20th 1911.

[Page 41 P805416](#) Chilworth. Weathered surface of ferruginous Folkestone Sands. Chilworth and St. Martha's Hill Excursion, May 20th 1911.

[Page 41 P805417](#) Chilworth. Weathered surface of ferruginous Folkestone Sands. Chilworth and St. Martha's Hill Excursion, May 20th 1911.

### **Bishop Stortford Excursion, June 10th 1911**

[Page 43 P805418](#) The Stort Valley. Bishop Stortford Excursion, June 10th 1911.

[Page 43 P805419](#) Foxdells. Section in rubble drift. Bishop Stortford Excursion, June 10th 1911.

[Page 43 P805420](#) Sarsen with band of pebbles from cemetery. Bishop Stortford Excursion, June 10th 1911.

[Page 43 P805421](#) Day's Brickyard, mottled Reading Clay. Bishop Stortford Excursion, June 10th 1911.

### **Bushey Excursion, June 24th 1911**

[Page 45 P805422](#) Bushey railway cutting. Junction of Chalk and Reading Beds. Bushey Excursion, June 24th 1911.

[Page 45 P805423](#) Oxhey Golf Course. Reading Sands with bedded flint pebbles. Bushey Excursion, June 24th 1911.

[Page 45 P805424](#) Watford Heath Kiln. Basement bed of London Clay. Bushey Excursion, June 24th 1911.

[Page 45 P805425](#) Oxhey Golf Course. Bottom pebble bed of Reading series. Bushey Excursion, June 24th 1911.

### **Excursion to Guildford and Godalming, July 1st 1911**



- [Page 47 P805426](#) The valley of the Wey near Guildford. Excursion to Guildford and Godalming, July 1st 1911.
- [Page 47 P805427](#) The valley of the Wey near Guildford. Excursion to Guildford and Godalming, July 1st 1911.
- [Page 47 P805428](#) Spring at foot of St Catherine's Hill. Excursion to Guildford and Godalming, July 1st 1911.
- [Page 47 P805429](#) Lime Kiln Copse, section in. Excursion to Guildford and Godalming, July 1st 1911.
- [Page 49 P805430](#) Northbrook Place. Lenticular structure of Bargate Stone. Excursion to Guildford and Godalming, July 1st 1911.
- [Page 49 P805431](#) Northbrook Place. Current bedding in Bargate Stone. Excursion to Guildford and Godalming, July 1st 1911.
- [Page 49 P805432](#) Frith Hill, Godalming. Current bedding in Bargate Stone. Excursion to Guildford and Godalming, July 1st 1911.
- [Page 49 P805433](#) Frith Hill, Godalming. Current bedding in Bargate Stone. Excursion to Guildford and Godalming, July 1st 1911.
- [Page 51 P805434](#) Littleton. Section of Bargate Stone, showing dip. East face. Excursion to Guildford and Godalming, July 1st 1911.
- [Page 51 P805435](#) Littleton. North face of Bargate Stone. Excursion to Guildford and Godalming, July 1st 1911.
- [Page 51 P805436](#) Littleton Farm pit. Section of Bargate Stone. Excursion to Guildford and Godalming, July 1st 1911.
- [Page 51 P805437](#) Littleton Farm pit. Section of Bargate Stone. Excursion to Guildford and Godalming, July 1st 1911.

### **Excursion to Wargrave, July 8th 1911**

- [Page 53 P805438](#) Warren Row Chalk pit, showing junction of Chalk and Reading Beds. Excursion to Wargrave, July 8th 1911.
- [Page 53 P805439](#) Warren Row Chalk pit, showing junction of Chalk and Reading Beds. Excursion to Wargrave, July 8th 1911.
- [Page 55 P805440](#) Knowle Hill Brickyard. Examining the plant bed of the Reading Clay. Excursion to Wargrave, July 8th 1911.
- [Page 55 P805441](#) Knowle Hill Brickyard. Showing method of working the Reading Clay in 'spits'. Excursion to Wargrave, July 8th 1911.
- [Page 55 P805442](#) Knowle Hill Brickyard. Sun cracks on surface of Reading Clay owing to the removal of the overlying parts and action of rain. Excursion to Wargrave, July 8th 1911.
- [Page 55 P805443](#) Knowle Hill Brickyard. Sun cracks on surface of Reading Clay owing to the removal of the overlying parts and action of rain. Excursion to Wargrave, July 8th 1911.

### **Excursion to Chilmark and the Vale of Wardour, July 15th 1911**

- [Page 57 P805444](#) Place Farm, Vale of Wardour from the castle ditches above Tisbury. Excursion to Chilmark and the Vale of Wardour, July 15th 1911.
- [Page 57 P805445](#) Place Farm. A 15th century Manor which belonged to the Abbess of Shaftesbury. Excursion to Chilmark and the Vale of Wardour, July 15th 1911.
- [Page 57 P805446](#) The Tithe Barn, Place Farm, a 15th century building said to be the largest in England. Excursion to Chilmark and the Vale of Wardour, July 15th 1911.

- [Page 57 P805447](#) Cottages on road from Ladydown. Excursion to Chilmark and the Vale of Wardour, July 15th 1911.
- [Page 59 P805448](#) Upper and Chalk Beds of Portland Stone in the Chilmark Ravine. Excursion to Chilmark and the Vale of Wardour, July 15th 1911.
- [Page 59 P805449](#) Chalky series of Portland Beds, Chilmark Ravine. Excursion to Chilmark and the Vale of Wardour, July 15th 1911.
- [Page 59 P805450](#) Lower Purbecks resting on Portland Beds, Teffont side of Chilmark Ravine. Excursion to Chilmark and the Vale of Wardour, July 15th 1911.
- [Page 59 P805451](#) Lower Purbecks resting on Portland Beds, Teffont side of Chilmark Ravine. Excursion to Chilmark and the Vale of Wardour, July 15th 1911.
- [Page 61 P805452](#) Tisbury and the Vale of Wardour. Excursion to Chilmark and the Vale of Wardour, July 15th 1911.
- [Page 61 P805453](#) Teffont Evias Limekiln Pit. Sun cracks on under surface of Flagstone. Scale: halfpenny = 1 inch. Excursion to Chilmark and the Vale of Wardour, July 15th 1911.
- [Page 61 P805454](#) Teffont Evias Limekiln Pit. Junction of Middle and Lower Purbeck Beds. Excursion to Chilmark and the Vale of Wardour, July 15th 1911.
- [Page 61 P805455](#) Teffont Evias Limekiln Pit. Section of Middle and Lower Purbeck Beds. Excursion to Chilmark and the Vale of Wardour, July 15th 1911.
- [Page 63 P805456](#) Ladydown near Tisbury. Middle Purbeck Beds 15 feet. Excursion to Chilmark and the Vale of Wardour, July 15th 1911.
- [Page 63 P805457](#) Ladydown near Tisbury. Middle Purbeck Beds showing action of the infiltration of surface water in removing calcareous matter. Excursion to Chilmark and the Vale of Wardour, July 15th 1911.
- [Page 63 P805458](#) The Director T.T. Gething Esq. describing the geological structure of the district in the Middle Purbeck pit on Ladydown. Excursion to Chilmark and the Vale of Wardour, July 15th 1911.
- [Page 63 P805459](#) Wockley, near Tisbury. Lower Purbeck Beds. Excursion to Chilmark and the Vale of Wardour, July 15th 1911.

### **Excursion to Audley End and Saffron Walden, July 22nd 1911**

- [Page 65 P805460](#) Calcrete boulder about midway between Wenden and Saffron Walden. Excursion to Audley End and Saffron Walden, July 22nd 1911.
- [Page 65 P805461](#) Calcrete boulder about midway between Wenden and Saffron Walden. Excursion to Audley End and Saffron Walden, July 22nd 1911.
- [Page 65 P805462](#) Sections in the Boulder Clay of the North Essex Cement Works near Swards End, Saffron Walden. Excursion to Audley End and Saffron Walden, July 22nd 1911. Sections in the Boulder Clay of the North Essex Cement Works near Swards End, Saffron Walden, showing the chalk blocks and other stones in position in the clay and also as picked out by the diggers.
- [Page 65 P805463](#) Sections in the Boulder Clay of the North Essex Cement Works near Swards End, Saffron Walden. Excursion to Audley End and Saffron Walden, July 22nd 1911. Sections in the Boulder Clay of the North Essex Cement Works near Swards End, Saffron Walden, showing the chalk blocks and other stones in position in the clay and also as picked out by the diggers.
- [Page 67 P805464](#) Cutting three-quarters of a mile from Audley End Station on the Walden Line. Chalk overlain by Boulder Clay, gravel and loam, and top layer of Boulder Clay. 200-280 OD. Excursion to Audley End and Saffron Walden, July 22nd 1911.



[Page 67 P805465](#) Brickyard pit near Wenden Mill, Audley End Station, close to present stream level. Excursion to Audley End and Saffron Walden, July 22nd 1911. Recent chalky gravels overlain by brown valley earth (photograph 1) and banked against a thick bed of sandy loam (photographs 2 and 3) which is seen by the side of the tram line. Added note: Photograph 1.

[Page 67 P805466](#) Brickyard pit near Wenden Mill, Audley End Station, close to present stream level. Excursion to Audley End and Saffron Walden, July 22nd 1911. Recent chalky gravels overlain by brown valley earth (photograph 1) and banked against a thick bed of sandy loam (photographs 2 and 3) which is seen by the side of the tram line. Added note: Photograph 2.

[Page 67 P805467](#) Brickyard pit near Wenden Mill, Audley End Station, close to present stream level. Excursion to Audley End and Saffron Walden, July 22nd 1911. Recent chalky gravels overlain by brown valley earth (photograph 1) and banked against a thick bed of sandy loam (photographs 2 and 3) which is seen by the side of the tram line. Added note: Photograph 3.

## **Excursion to Sheppey [7th May 1910]**

[Page 69 P805468](#) Leysdown, showing position of the shell beach which has been banked up over the alluvium of the small marsh between the headlands. Excursion to Sheppey [7th May 1910].

[Page 69 P805469](#) Leysdown. The shell beach from tide level. Excursion to Sheppey [7th May 1910].

[Page 69 P805470](#) Leysdown. The shell beach from inland. Excursion to Sheppey [7th May 1910].

[Page 69 P805471](#) Leysdown. The material of which the shell beach is formed. Excursion to Sheppey [7th May 1910].

[Page 71 P805472](#) Marsh clay with plant remains cropping out from beneath the shell beach. These miniature cliffs and outliers are formed by the sea cutting back across the alluvium of the stream valley. Excursion to Sheppey [7th May 1910].

[Page 71 P805473](#) Marsh clay with plant remains cropping out from beneath the shell beach. These miniature cliffs and outliers are formed by the sea cutting back across the alluvium of the stream valley. Excursion to Sheppey [7th May 1910].

[Page 71 P805474](#) Cliff known as Sheppey Landsend. This headland of London Clay is the most easterly point of the cliffs. Excursion to Sheppey [7th May 1910].

[Page 71 P805475](#) Owing to the waste of the clay by atmospheric agencies the base of the cliff is strewn with the septaria which fall down as the softer material is washed away. Excursion to Sheppey [7th May 1910].

[Page 73 P805476](#) At this part of the cliff the loss of land is well seen where masses of land slide down from the cliff edge with the outer edge tilted up. Excursion to Sheppey [7th May 1910].

[Page 73 P805477](#) During heavy rains large quantities of the soft material forming the cliff flow down the undercliff in the form of mud streams. Excursion to Sheppey [7th May 1910].

[Page 73 P805478](#) The top beds of the London Clay are sandy, passing gradually into the Bagshot Sands. The total thickness of the Clay here being about 500 feet as shown by boring. Excursion to Sheppey [7th May 1910].

[Page 73 P805479](#) Near the coast this gully is seen to be a deep canyon-like gorge tailing off inland to a shallower hollow with sloping sides. Excursion to Sheppey [7th May 1910]. This is a good example of stream erosion, the little stream being sometimes torrential in the lowest part of the gorge. As the coast is cut backward so the end of the little valley is cut down to base level.

## **Excursion to Gomshall [unknown date]**

[Page 75 P805480](#) Excursion to Gomshall [unknown date].

[Page 75 P805481](#) Excursion to Gomshall [unknown date].

[Page 75 P805482](#) Excursion to Gomshall [unknown date].

[Page 75 P805483](#) Chert pebbles from Folkestone Sands, Gomshall. Derived from destruction of Jurassic Beds and originally derived from the denudation of Carboniferous Limestone. Excursion to Gomshall [unknown date]. [Specimens with handwritten label.].

[Page 77 P805484](#) Excursion to Gomshall [unknown date].

[Page 77 P805485](#) [Specimen.]. Excursion to Gomshall [unknown date].

[Page 77 P805486](#) [Specimen.]. Excursion to Gomshall [unknown date].

[Page 77 P805487](#) Excursion to Gomshall [unknown date].

## **Geologists' Association 1912**

### **Excursion to Erith, March 30th 1912**

[Page 81 P805488](#) Section at south side of the Ballast Pit, Erith. Excursion to Erith, March 30th 1912. Added note: Thanet Sand; Woolwich and Reading; Blackheath beds. [Bottom to top.].

[Page 81 P805489](#) Section at the west end of the Ballast Pit, Erith. Excursion to Erith, March 30th 1912. Added note: Thanet Sand; Woolwich and Reading; Blackheath beds; Soil and hillwash with possible base of London Clay. [Bottom to top.].

[Page 81 P805490](#) Sections of Thanet Sand at south side of Ballast Pit, near Erith Railway Station. Excursion to Erith, March 30th 1912.

[Page 81 P805491](#) Sections of Thanet Sand at south side of Ballast Pit, near Erith Railway Station. Excursion to Erith, March 30th 1912. Added note; Thanet Sand, 40 to 50 feet in thickness, resting on chalk; Woolwich and Reading; Blackheath beds. [Bottom to top.].

[Page 83 P805492](#) Norris's Pit. Brickearth resting upon an eroded slope of Chalk and Thanet Sand. Excursion to Erith, March 30th 1912. Added note; Chalk; Thanet Sand; Brickearth. [Bottom to top.].

[Page 83 P805493](#) Norris's Pit. Brickearth on Chalk. Excursion to Erith, March 30th 1912.

[Page 83 P805494](#) South side, Ballast Pit, near Erith Station. Blackheath Pebble Beds in sandy matrix resting erosively on the Woolwich Beds. Excursion to Erith, March 30th 1912.

[Page 83 P805495](#) Ballast Pit, Erith. Blackheath pebbles. Excursion to Erith, March 30th 1912. [Specimens.].

### **Excursion to Greenhithe, April 20th 1912**

[Page 85 P805496](#) New Globe Company's Pit. Section in Micraaster cor anguinum Chalk. Excursion to Greenhithe, April 20th 1912.

[Page 85 P805497](#) New Globe Company's Pit. Section of Drift and Thanet Sand resting on Chalk. Excursion to Greenhithe, April 20th 1912. Added note: Chalk; Thanet Sand; Drift. [Bottom to top.].

[Page 85 P805498](#) New Globe Company's Pit. Drift and Thanet Sand on Chalk. Excursion to Greenhithe, April 20th 1912. Added note: Chalk; Bullhead Bed; Thanet Sand; Drift. [Bottom to top.].

- [Page 85 P805499](#) New Globe Company's Pit. Gravel with varying beds of Brickearth and loam resting on Thanet Sand. Excursion to Greenhithe, April 20th 1912. Added note: Thanet Sand; Drift. [Bottom to top.]
- [Page 87 P805500](#) New Globe Company's Pit. Pipe of Brickearth (re-sorted Thanet Sand) descending vertically through the Gravel owing to the removal of the underlying Chalk by solution. Excursion to Greenhithe, April 20th 1912.
- [Page 87 P805501](#) New Globe Company's Pit. Long shallow scoop of Gravel in Drift resting on an undulating surface of Thanet Sand. Excursion to Greenhithe, April 20th 1912.
- [Page 87 P805502](#) 'Chalk Hole Lenacre', one mile SSE of Stone. Excursion to Greenhithe, April 20th 1912. The peculiar intercalation along the planes of bedding of some layers of brown sandy clay, in places 8 inches thick and in parts rather finely bedded. This had not been deposited with the Chalk but had filtered through vertical fissures and spread along the lines of bedding.
- [Page 87 P805503](#) 'Chalk Hole Lenacre', one mile SSE of Stone. Excursion to Greenhithe, April 20th 1912. The peculiar intercalation along the planes of bedding of some layers of brown sandy clay, in places 8 inches thick and in parts rather finely bedded. This had not been deposited with the Chalk but had filtered through vertical fissures and spread along the lines of bedding.
- [Page 89 P805504](#) Dierden's Pit, Knockhall Road. Pleistocene shell bed in High Terrace Gravel. Excursion to Greenhithe, April 20th 1912.
- [Page 89 P805505](#) Pleistocene shell-bed, Greenhithe. [Numbered specimens.]. Excursion to Greenhithe, April 20th 1912. Added note: 1. *Unio littoralis*. 2. *Corbieula fluminalis*. 3. *Sphaerium corneum*. 4. *Pisidium amnicum*. 5. *Pisidium fontanale*. 6. *Vivipara diluviana*. 7. *Naritina fluviatilis*. 8. *Bithynia tentaculata*. 9. *Valvata piscinalis*. 10. *Limnaeu perager*.
- [Page 89 P805506](#) Pleistocene shell-bed, Greenhithe. *Valvata piscinalis*. [Specimens.]. Excursion to Greenhithe, April 20th 1912.
- [Page 89 P805507](#) Pleistocene shell-bed, Greenhithe. *Neritina fluviatilis*, still preserving original colour markings. [Specimens.]. Excursion to Greenhithe, April 20th 1912.
- [Page 89 P805508](#) Pleistocene shell-bed, Greenhithe. *Bithynia tentaculata*. [Specimens.]. Excursion to Greenhithe, April 20th 1912.

## **Excursion to Clandon, May 11th 1912**

- [Page 91 P805509](#) Chalk pit in Guildford Road, West Clandon Village. Marsupites zone. (Pit no. 281.). Excursion to Clandon, May 11th 1912.
- [Page 91 P805510](#) Chalk pit in Guildford Road, West Clandon Village. Marsupites zone. (Pit no. 281.). Excursion to Clandon, May 11th 1912.
- [Page 91 P805511](#) Soft white Chalk with scattered flints, junction of *Uintacrinus* and Marsupites bands is about half-way up. (Pit no. 281.). Excursion to Clandon, May 11th 1912.
- [Page 93 P805512](#) Newlands Corner. Looking south over Lower Greensand from the crest of the escarpment, 562 ft OD. Excursion to Clandon, May 11th 1912.
- [Page 93 P805513](#) Newlands Corner. Looking south over Lower Greensand from the crest of the escarpment, 562 ft OD. Excursion to Clandon, May 11th 1912.
- [Page 93 P805514](#) Albury Downs pit, junction of Middle and Lower Chalk. (No. 286.) Zones exposed; *Rhynchonella cuvieri* and *Holaster subglobosus* with well marked band of *Actinocamax planus* marl between. Excursion to Clandon, May 11th 1912.

- Albury Downs pit, junction of Middle and Lower Chalk. (No. 286.) Zones exposed; Rhynchonella cuvieri and Holaster subglobosus with well marked band of Actinocamax planus marl between. Excursion to Clandon, May 11th 1912. Added note: Holaster subglobosus; Actinocamax planus marl; Rhynchonella cuvieri zone. [Bottom to top].
- [Page 93 P805515](#)
- Pit above Clandon on Merrow Down and overlooking Dean Bottom. Zone of Micraster cor anguinum. (Pit no. 282.). Excursion to Clandon, May 11th 1912.
- [Page 95 P805516](#)
- Pit above Clandon on Merrow Down and overlooking Dean Bottom. Zone of Micraster cor anguinum. (Pit no. 282.). Excursion to Clandon, May 11th 1912.
- [Page 95 P805517](#)
- Merrow Downs. Gravel consisting mostly of subangular flints embedded in red and mottled clay with Lower Greensand chert and well rounded Eocene pebbles. Excursion to Clandon, May 11th 1912.
- [Page 95 P805518](#)
- Merrow Downs. Gravel consisting mostly of subangular flints embedded in red and mottled clay with Lower Greensand chert and well rounded Eocene pebbles. Excursion to Clandon, May 11th 1912.
- [Page 95 P805519](#)

### **Excursion to Princes Risborough, May 18th 1912**

- [Page 97 P805520](#) Coombe Hill (852 ft above OD). Excursion to Princes Risborough, May 18th 1912.
- [Page 97 P805521](#) The Cross on Whiteleaf Hill on the steep western slope of the Chiltern Hills. Excursion to Princes Risborough, May 18th 1912.
- [Page 97 P805522](#) Pipe in Micraster cor testudinarium Chalk, lined with stiff clay and pieces of tabular flint and containing round nodules of Limonite. Excursion to Princes Risborough, May 18th 1912.
- [Page 97 P805523](#) Pit in zone of *Terebratulina lata* Chalk, on road leading to Risborough Cop. Excursion to Princes Risborough, May 18th 1912.

### **Excursion to Claygate, June 15th 1912**

- [Page 99 P805524](#) Welchs' Clay pit. Section of Claygate beds. Excursion to Claygate, June 15th 1912. Here the Claygate beds which are passage beds between the London Clay and the Bagshot Sands are exposed for a depth of 40 feet and show well the alternate beds of sand and clay.
- [Page 99 P805525](#) Double fold in Claygate beds. Owing to the action of springs beneath the water bubbles up carrying with it 'running sand', this causes the clay to slip thus forming these folds. Excursion to Claygate, June 15th 1912.
- [Page 99 P805526](#) Mr Scrivens' Brick pits, Tudor Court, Oxshott. Excursion to Claygate, June 15th 1912. Lower Lilac Clays of the Bracklesham Beds. This outlier of Bracklesham Beds represents only the lower third of that series for neither the glauconitic sands nor the upper clays are seen although they are well developed at St George's Hill, three miles to the west.
- [Page 99 P805527](#) Mr Scrivens' Brick pits, Tudor Court, Oxshott. Excursion to Claygate, June 15th 1912. Lower Lilac Clays of the Bracklesham Beds. This outlier of Bracklesham Beds represents only the lower third of that series for neither the glauconitic sands nor the upper clays are seen although they are well developed at St George's Hill, three miles to the west.
- [Page 101 P805528](#) Mr Scrivens' Brick pits, Tudor Court, near Oxshott Warren. Bracklesham Beds. Excursion to Claygate, June 15th 1912. These beds consist of alternations of sand and sandy clays, some of the sands containing glauconite grains. These beds appear to have been formed in a quiet estuary by the sediment brought down by a great river, the changes to the coarser detritus being caused by the state of flood.

[Page 101 P805529](#) Mr Scrivens' Brick pits, Tudor Court, near Oxshott Warren. Bracklesham Beds. Excursion to Claygate, June 15th 1912. These beds consist of alternations of sand and sandy clays, some of the sands containing glauconite grains. These beds appear to have been formed in a quiet estuary by the sediment brought down by a great river, the changes to the coarser detritus being caused by the state of flood.

[Page 101 P805530](#) Mr Scrivens' Brick pits, Tudor Court, near Oxshott Warren. Bracklesham Beds. Excursion to Claygate, June 15th 1912. In the upper part of this section, the clay contains lignite, leaves, and the seeds of plants, showing that the climate of this period must have been almost tropical.

[Page 101 P805531](#) Mr Scrivens' Brick pits, Tudor Court, near Oxshott Warren. Bracklesham Beds. Excursion to Claygate, June 15th 1912. Large ferruginous ovoid concretions consisting of concentric layers. These are due to the actions of chalybeate waters becoming oxidised in contact with sand.

## Excursion to Borstal, June 22nd 1912

[Page 103 P805532](#) Borstal Manor Pit. About 12 feet from the base is a nodular iron stained band, the *Heteroceras reussianum* subzone. Excursion to Borstal, June 22nd 1912.

[Page 103 P805533](#) Peters pits. Excavations in 1. *Rhynchonella cuvieri*, A plena marl. 2. *Holaster subglobosus*. 3. *Schloenbachia varians* zone. Excursion to Borstal, June 22nd 1912.

[Page 103 P805534](#) Peters pits. At the northern end of this section flints are found consisting of ovate or spherical nodules, each one containing the remains of a sponge. Excursion to Borstal, June 22nd 1912.

[Page 103 P805535](#) Peters pits. Chalk Marl, *Schloenbachia varians* zone. Excursion to Borstal, June 22nd 1912.

[Page 105 P805536](#) Chalk workings locally known as 'Millbay'. Chalk Marl, *Schloenbachia varians* zone. Excursion to Borstal, June 22nd 1912.

[Page 105 P805537](#) Chalk workings locally known as 'Millbay'. Chalk Marl, *Schloenbachia varians* zone. Excursion to Borstal, June 22nd 1912.

[Page 105 P805538](#) Chalk workings locally known as 'Millbay'. Chalk Marl, *Schloenbachia varians* zone. Excursion to Borstal, June 22nd 1912. [Two photographs combined to give continuous landscape view.].

## Excursion to Ewell, July 6th 1912

[Page 105 P805539](#) Slickensided Chalk in a pit a little west of Nonsuch Farm, Ewell. Excursion to Ewell, July 6th 1912. In this pit was seen a fine example of horizontal slickensides, it covered a surface of many square yards along the prominent joint planes which run from SE to NW, the whole surface being scored by grooves owing to horizontal movement.

[Page 107 P805540](#) Slickensided Chalk in a pit a little west of Nonsuch Farm, Ewell. Excursion to Ewell, July 6th 1912. In this pit was seen a fine example of horizontal slickensides, it covered a surface of many square yards along the prominent joint planes which run from SE to NW, the whole surface being scored by grooves owing to horizontal movement. Added note: Halfpenny = 1 inch.

[Page 107 P805541](#) Slickensided Chalk in a pit a little west of Nonsuch Farm, Ewell. Excursion to Ewell, July 6th 1912. In this pit was seen a fine example of horizontal slickensides, it covered a surface of many square yards along the prominent joint planes which run from SE to NW, the whole surface being scored by grooves owing to horizontal movement.



[Page 107 P805542](#) Section in Reading Beds, Nonsuch Pottery Clay Pit. Excursion to Ewell, July 6th 1912. The Reading Beds are capped by a gravelly or stony drift. The platform is a clayey greenish sand in the lower part of the Reading Beds containing numerous shark's teeth, below which is the Thanet Sands.

[Page 109 P805543](#) Section in Reading Beds, Nonsuch Pottery Clay Pit. Excursion to Ewell, July 6th 1912. The Reading Beds are capped by a gravelly or stony drift. The platform is a clayey greenish sand in the lower part of the Reading Beds containing numerous shark's teeth, below which is the Thanet Sands.

[Page 109 P805544](#) Illustration: Woolwich and Reading Series. Teeth of Lamna from the above Reading Clay Pit. [Nonsuch Pottery Clay Pit.]. Excursion to Ewell, July 6th 1912.

[Page 109 P805545](#) Brickyard, Lower Cheam. Basement bed of London Clay with fragments of oyster shells. Excursion to Ewell, July 6th 1912. Added note: Oyster band.

[Page 111 P805546](#) Nonsuch Pottery Clay Pit. This well known pit is entirely in the Reading Beds but in places excavations have been carried down into the Thanet Sands. Excursion to Ewell, July 6th 1912. The Reading Clays are largely used for brickmaking, rough pottery and fire bricks and consist of alternations of valuable plastic clay of various colours, loam and sands. The bottom bed consisting of roughly laminated bluish grey clay with green sand is seen overlying the Thanet Sand.

[Page 111 P805547](#) Nonsuch Pottery Clay Pit. This well known pit is entirely in the Reading Beds but in places excavations have been carried down into the Thanet Sands. Excursion to Ewell, July 6th 1912. The Reading Clays are largely used for brickmaking, rough pottery and fire bricks and consist of alternations of valuable plastic clay of various colours, loam and sands. The bottom bed consisting of roughly laminated bluish grey clay with green sand is seen overlying the Thanet Sand.

[Page 111 P805548](#) Nonsuch Pottery Clay Pit. This well known pit is entirely in the Reading Beds but in places excavations have been carried down into the Thanet Sands. Excursion to Ewell, July 6th 1912. The Reading Clays are largely used for brickmaking, rough pottery and fire bricks and consist of alternations of valuable plastic clay of various colours, loam and sands. The bottom bed consisting of roughly laminated bluish grey clay with green sand is seen overlying the Thanet Sand.

[Page 111 P805549](#) Nonsuch Pottery Clay Pit. This well known pit is entirely in the Reading Beds but in places excavations have been carried down into the Thanet Sands. Excursion to Ewell, July 6th 1912. The Reading Clays are largely used for brickmaking, rough pottery and fire bricks and consist of alternations of valuable plastic clay of various colours, loam and sands. The bottom bed consisting of roughly laminated bluish grey clay with green sand is seen overlying the Thanet Sand.

## **Excursion to Henley, July 13th 1912**

[Page 113 P805550](#) Chalk sections on the Ridge Road to Hollandridge, at 550 OD. Zone of *Micraster cortestudinarium*. Tabular flint passing obliquely and nearly vertically along joints and sliding planes. Excursion to Henley, July 13th 1912.

[Page 113 P805551](#) Chalk sections on the Ridge Road to Hollandridge, at 550 OD. Zone of *Micraster cortestudinarium*. Excursion to Henley, July 13th 1912. The lower band consisting of nodular flints are mostly branching forms of sponges encased in flint, but the upper band of tabular flint contains no fossils. Added note: Nodular flints; Tabular flints. [Bottom to top].



- [Page 113 P805552](#) Chalk sections on the Ridge Road to Hollandridge, at 550 OD. Zone of *Micraster cortestudinarium*. Excursion to Henley, July 13th 1912. For the most part these tabular flints seem to follow the bedding planes but in this section they are all double, the two halves enclosing a layer of white powder of varying thickness largely composed of long sponge spicules. These comparatively horizontal layers of flint separate and converge irregularly so that the amount of Chalk included between two 'tabulars' may be over a foot in one place and almost touching in others.
- [Page 113 P805553](#) Chalk sections on the Ridge Road to Hollandridge, at 550 OD. Zone of *Micraster cortestudinarium*. Excursion to Henley, July 13th 1912. For the most part these tabular flints seem to follow the bedding planes but in this section they are all double, the two halves enclosing a layer of white powder of varying thickness largely composed of long sponge spicules. These comparatively horizontal layers of flint separate and converge irregularly so that the amount of Chalk included between two 'tabulars' may be over a foot in one place and almost touching in others.
- [Page 115 P805554](#) Watlington. Chalk section showing faulting and pipes at 450 feet OD. Zone of *Rhynchonella cuvieri*. Excursion to Henley, July 13th 1912.
- [Page 115 P805555](#) Watlington. Chalk section showing faulting and pipes at 450 feet OD. Zone of *Rhynchonella cuvieri*. Excursion to Henley, July 13th 1912.
- [Page 115 P805556](#) Watlington. Wedge shaped jointing in Chalk. Excursion to Henley, July 13th 1912.
- [Page 115 P805557](#) Watlington. Wedge shaped jointing in Chalk. Excursion to Henley, July 13th 1912.

## **Excursion to Reculvers, Herne Bay, July 20th 1912**

- [Page 117 P805558](#) London Clay capping Oldhaven Beds, westward of Oldhaven Gap. Excursion to Reculvers, Herne Bay, July 20th 1912. Looking westward in direction of dip. The clay contains many septarian nodules and much pyritized wood, quantities of which are found in the shingle on the beach. Added note: Oldhaven Beds; London Clay. [Bottom to top.] East [on left hand side of photograph] West [on right].
- [Page 117 P805559](#) London Clay capping Oldhaven Beds, westward of Oldhaven Gap. Excursion to Reculvers, Herne Bay, July 20th 1912. Looking westward in direction of dip. The Oldhaven Beds consist of compact fine drab coloured sand with frequent pockets and layers of marine shells, the junction with the London Clay being even and sharply defined. Added note: Oldhaven Beds; London Clay. [Bottom to top.] East [on left hand side of photograph] West [on right].
- [Page 117 P805560](#) This peculiar ridge of rock running out diagonally to sea near the Bishopstone Coastguard Station is the top bed of the Thanets. Excursion to Reculvers, Herne Bay, July 20th 1912.
- [Page 117 P805561](#) Blocks of hardened sand, weathered out from the Woolwich and Reading beds near Oldhaven Gap. Excursion to Reculvers, Herne Bay, July 20th 1912.
- [Page 119 P805562](#) Cliff of Woolwich and Reading beds capped by London Clay, east of Oldhaven Gap. The Woolwich and Reading beds seen here have much the appearance of the Thanet Sands as seen at Erith and Charlton. Excursion to Reculvers, Herne Bay, July 20th 1912. East [on left hand side of photograph] West [on right].
- [Page 119 P805563](#) Oldhaven Gap. Excursion to Reculvers, Herne Bay, July 20th 1912. The banks of this ravine differ greatly in character, the western being almost perpendicular while the eastern is an uneven slope of slipped London Clay. The western dip though slight is probably the cause of this. East [on left hand side of photograph] West [on right].

[Page 119 P805564](#) Oldhaven Gap looking north or seaward. The Oldhaven Beds which at Charlton and Erith are estuarine beds here exhibit marine forms of life such would obtain in shallow seas. Excursion to Reculvers, Herne Bay, July 20th 1912. West [on left hand side of photograph] East [on right].

[Page 119 P805565](#) The peculiar selenite crystals from the Oldhaven Beds, Herne Bay. Excursion to Reculvers, Herne Bay, July 20th 1912. The fine sand has been [?] between the plates of selenite, quite altering the appearance of the mineral. [Printed illustration.] Selenite crystals from the Oldhaven Beds, Herne Bay. These groups of selenite crystals are permeated with sand so that the usual transparency is lost.

[Page 121 P805566](#) The Woolwich Beds consist wholly of sand with no shelly or mottled clays. Excursion to Reculvers, Herne Bay, July 20th 1912. They have no definite bottom bed neither distinctive green sand or pebbles. Consequently it is difficult to fix the plane of division with the Thanet Beds. Added note: Thanet Beds; Woolwich and Reading; Oldhaven; London Clay. [Bottom to top].

[Page 121 P805567](#) The top part of the Thanet Sand contains a stony layer consisting of large tabular masses about 8 inches thick many of which show fucoid markings and occasionally casts of marine shells. Excursion to Reculvers, Herne Bay, July 20th 1912. Added note: Stony layer at the top of the Thanet Beds; Woolwich and Reading. [Bottom to top].

[Page 121 P805568](#) The higher part of the shore between Oldhaven Gap and Reculvers is thickly strewn with these slabs which have been weathered out of the cliffs which consist only of the upper sand. Excursion to Reculvers, Herne Bay, July 20th 1912. The lower beds which consist of dark green muddy sands and containing large numbers of *Cyprina morrissii* and other marine shells are seen on the shore at low water.

[Page 121 P805569](#) The higher part of the shore between Oldhaven Gap and Reculvers is thickly strewn with these slabs which have been weathered out of the cliffs which consist only of the upper sand. Excursion to Reculvers, Herne Bay, July 20th 1912. The lower beds which consist of dark green muddy sands and containing large numbers of *Cyprina morrissii* and other marine shells are seen on the shore at low water.

[Page 123 P805570](#) Section near Reculvers showing the foreshore strewn with the blocks of sandstone weathered out from the top of the Thanet Beds. Excursion to Reculvers, Herne Bay, July 20th 1912. Added note: Thanet Sands; Woolwich and Reading; Oldhaven Beds; London Clay. [Bottom to top].

[Page 123 P805571](#) Section eastwards of Oldhaven Gap. This shows where the Thanet Beds are coming to the surface. The Gap seen in the centre is an illustration of the cutting through from springs at a high level. Excursion to Reculvers, Herne Bay, July 20th 1912. Added note: Thanet Beds; Woolwich and Reading; Oldhaven Beds; London Clay. [Bottom to top].

[Page 123 P805572](#) Section eastwards of Oldhaven Gap. The waste of coast from Herne Bay to Reculver has been extremely rapid but is now checked in exposed places by groynes. Excursion to Reculvers, Herne Bay, July 20th 1912.

[Page 123 P805573](#) View from the Roman Wall at Reculver looking E over the marshes. Excursion to Reculvers, Herne Bay, July 20th 1912. In Roman times this was a tidal estuary and navigable down to comparatively recent times. This old channel of the Wantsum is now a marsh three miles wide and well protected from the sea by a strong sea wall or bank. Added note: Site of Roman town Regulbium. [Arrows indicate location of the sea wall, mid-left of photograph, and Richborough distant left].

[Page 125 P805574](#) Reculvers Church. Excursion to Reculvers, Herne Bay, July 20th 1912. In the reign of Henry VIII Reculvers Church was nearly one mile from the sea but at the beginning of the 19th century it was abandoned as a place of worship on account of its insecurity, and it would no doubt have disappeared if the cliffs had not been protected artificially from further destruction.

[Page 125 P805575](#) Reculvers Church. Excursion to Reculvers, Herne Bay, July 20th 1912. In the reign of Henry VIII Reculvers Church was nearly one mile from the sea but at the beginning of the 19th century it was abandoned as a place of worship on account of its insecurity, and it would no doubt have disappeared if the cliffs had not been protected artificially from further destruction.

[Page 125 P805576](#) Roman Wall of Regulbium (now Reculver). The wall is built on the Thanet Sand, the foundations being a layer of beach pebbles on which the wall formed mainly of flints was raised. Excursion to Reculvers, Herne Bay, July 20th 1912.

[Page 125 P805577](#) Roman Wall of Regulbium (now Reculver). The wall is built on the Thanet Sand, the foundations being a layer of beach pebbles on which the wall formed mainly of flints was raised. Excursion to Reculvers, Herne Bay, July 20th 1912.

[Page 127 P805578](#) [Roman walls]. Excursion to Reculvers, Herne Bay, July 20th 1912. The walls on the outside of the town or castrum are bare to the very foundations having been used as a quarry, almost all the squared sandstone blocks and portions of the core of the walls have been carried away for use elsewhere.

[Page 127 P805579](#) [Roman walls]. Excursion to Reculvers, Herne Bay, July 20th 1912. The walls on the outside of the town or castrum are bare to the very foundations having been used as a quarry, almost all the squared sandstone blocks and portions of the core of the walls have been carried away for use elsewhere.

[Page 127 P805580](#) The wall is mostly built of local materials, the squared ashlar facing stones coming from the top bed of the Thanet Sand and the flints from the Chalk. Excursion to Reculvers, Herne Bay, July 20th 1912.

[Page 127 P805581](#) Gravel capping the London Clay cliffs at Herne Bay, containing Palaeolithic implements. Excursion to Reculvers, Herne Bay, July 20th 1912.

## **Excursion to Aylesbury, Hartwell and Stone, July 27th 1912**

[Page 129 P805582](#) Bugle Pit, Hartwell, in Middle or Upper and Lower Purbecks. Excursion to Aylesbury, Hartwell and Stone, July 27th 1912. Though of no great thickness the Purbeck Beds of both the Lower and the Middle or Upper division are here shown. The Middle and Upper stages being characterized by the Ostracod 'Cypridea punctata'.

[Page 129 P805583](#) Bugle Pit, Hartwell, in Middle or Upper and Lower Purbecks. Excursion to Aylesbury, Hartwell and Stone, July 27th 1912. Though of no great thickness the Purbeck Beds of both the Lower and the Middle or Upper division are here shown. The Middle and Upper stages being characterized by the Ostracod 'Cypridea punctata'.

[Page 129 P805584](#) Bugle Pit, Hartwell, in Middle or Upper and Lower Purbecks. Excursion to Aylesbury, Hartwell and Stone, July 27th 1912. The Upper Limestone of the Portlandian include several beds of creamy blue hearted limestone with *Naticia ceres* and above this a bed of 'Roach' full of casts of *Trigonia* and other fossils. Added note: Hard limestone with *Trigonia* casts; Calcareous sandy bed; Pendle (hard fissile small); Lower Purbeck; Upper or Middle Purbeck.[Bottom to top].

- [Page 129 P805585](#) Bugle Pit, Hartwell, in Middle or Upper and Lower Purbecks. Excursion to Aylesbury, Hartwell and Stone, July 27th 1912. The most well known fossil from this pit is the large Ammonite (*Perisphinctes boloniensis*) which is frequently seen built into the walls of Hartwell Park and other buildings as ornament. Added note: Pendle of Upper Portland, Ammonites *boloniensis*; Lower Purbeck; Middle or Upper Purbeck; Stony clay. [Bottom to top].
- [Page 131 P805586](#) Locke's Brick Pit at Hartwell. Excursion to Aylesbury, Hartwell and Stone, July 27th 1912. This Hartwell Clay is not separated from the Kimmeridge Clay on the map but was probably at a higher horizon than any part of the clay of Kimmeridge cliffs. It differs from it however in being not at all shaly but sandy and glauconitic.
- [Page 131 P805587](#) Locke's Brick Pit at Hartwell. Excursion to Aylesbury, Hartwell and Stone, July 27th 1912. This Hartwell Clay is not separated from the Kimmeridge Clay on the map but was probably at a higher horizon than any part of the clay of Kimmeridge cliffs. It differs from it however in being not at all shaly but sandy and glauconitic.
- [Page 131 P805588](#) Specimens built in wall of Hartwell Park. These concretions called 'Bowel Stones' are formed of a hard siliceous material in the lower or brown Ferruginous sand of the Upper Greensand. Excursion to Aylesbury, Hartwell and Stone, July 27th 1912.
- [Page 133 P805589](#) Aptian Sands at Windmill Pit, Stone (Lower Greensand). Excursion to Aylesbury, Hartwell and Stone, July 27th 1912. In this pit is seen a bed of white sand 9 feet in thickness and beautifully false bedded with bands of pebbles, carbonaceous sands and concretions. Above them with an apparent unconformity due to contemporaneous erosion is a bed of clay 5 to 6 feet thick with ironstone bands near the base. These sands have been bleached by the action of organic acids arising from the decomposition of vegetable matter which have run out the iron and other soluble substances leaving a nearly pure silica suitable for glassmaking.
- [Page 133 P805590](#) Aptian Sands at Windmill Pit, Stone (Lower Greensand). Excursion to Aylesbury, Hartwell and Stone, July 27th 1912. In this pit is seen a bed of white sand 9 feet in thickness and beautifully false bedded with bands of pebbles, carbonaceous sands and concretions. Above them with an apparent unconformity due to contemporaneous erosion is a bed of clay 5 to 6 feet thick with ironstone bands near the base. These sands have been bleached by the action of organic acids arising from the decomposition of vegetable matter which have run out the iron and other soluble substances leaving a nearly pure silica suitable for glassmaking.
- [Page 133 P805591](#) Aptian Sands at Windmill Pit, Stone (Lower Greensand). Excursion to Aylesbury, Hartwell and Stone, July 27th 1912. In this pit is seen a bed of white sand 9 feet in thickness and beautifully false bedded with bands of pebbles, carbonaceous sands and concretions. Above them with an apparent unconformity due to contemporaneous erosion is a bed of clay 5 to 6 feet thick with ironstone bands near the base. These sands have been bleached by the action of organic acids arising from the decomposition of vegetable matter which have run out the iron and other soluble substances leaving a nearly pure silica suitable for glassmaking.
- [Page 133 P805592](#) View of the Thame Valley at the foot of the Chiltern Escarpment from Windmill Pit, Stone. Excursion to Aylesbury, Hartwell and Stone, July 27th 1912.
- [Page 135 P805593](#) Fossils from the Hartwell Clay. [Printed illustration.]. Excursion to Aylesbury, Hartwell and Stone, July 27th 1912.

## Excursion to Mount Sorrel, August 29th 1912

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- [Page 137 P805596](#) Views from Mount Sorrel showing flooded state of the country. Excursion to Mount Sorrel, August 29th 1912.
- [Page 139 P805597](#) Granite Quarry at Mount Sorrel. This is a hornblendic granite, grey or pink in colour and not unlike the Eskdale granite in character and composition. Excursion to Mount Sorrel, August 29th 1912.
- [Page 139 P805598](#) Granite Quarry at Mount Sorrel. This is a hornblendic granite, grey or pink in colour and not unlike the Eskdale granite in character and composition. Excursion to Mount Sorrel, August 29th 1912.
- [Page 139 P805599](#) Granite Quarry at Mount Sorrel. The age of the granite is considered to be the same as that of the Lake District and of south Scotland, viz. Devonian. Excursion to Mount Sorrel, August 29th 1912.
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