

T W Reader geological photographs, long excursions 1913 - index, GA 'Carreck Archive'

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Nottingham Excursion, May, 1913

- [Page 5](#) [P805005](#) The Vale of Belvoir. Ironstone Quarry Stonepit Houses near Wartnaby. Nottingham Excursion, 10th May 1913. Middle Lias Ironstone. This ironstone is of the same horizon as the celebrated Cleveland iron ore which belongs to the Marlstone or upper part of the Middle Lias.
- [Page 5](#) [P805006](#) The Vale of Belvoir. Ironstone Quarry Stonepit Houses near Wartnaby. Nottingham Excursion, 10th May 1913. Ironstone overlaid by Boulder Clay. This Ironstone is of the same horizon as the celebrated Cleveland iron ore which belongs to the Marlstone or upper part of the Middle Lias.
- [Page 5](#) [P805007](#) The Vale of Belvoir. Ironstone Quarry Stonepit Houses near Wartnaby. Nottingham Excursion, 10th May 1913. Step-fault in Ironstone with 'Roche Moutonnee' surface. The hollow was originally filled with Upper Lias Clay which has to be removed together with the Boulder Clay before the ironstone can be used.
- [Page 5](#) [P805008](#) The Vale of Belvoir. Ironstone Quarry Stonepit Houses near Wartnaby. Nottingham Excursion, 10th May 1913. Method of working the ironstone. All the clay and top hamper is wheeled across these boards and deposited on the opposite side as the ironstone is removed in the rail trucks, thus causing a flat surface but at a lower level than before.
- [Page 7](#) [P805009](#) The Vale of Belvoir. Stonepit Houses near Wartnaby. Nottingham Excursion, 10th May 1913. Striated surface of ironstone. This is the most southernly ice striated surface in England (Lamplugh).
- [Page 7](#) [P805010](#) The Vale of Belvoir. Holwell. Nottingham Excursion, 10th May 1913. Face of ironstone.
- [Page 7](#) [P805011](#) The Vale of Belvoir. Holwell. Nottingham Excursion, 10th May 1913. These workings are examples of 'open cast' workings. This brown ironstone is found in a sheet about 14 feet thick generally covered by Boulder Clay which has preserved the scratched and irregular surface caused by moving ice.

- [Page 7](#) [P805012](#) The Vale of Belvoir. Holwell. Nottingham Excursion, 10th May 1913. These workings are examples of 'open cast' workings. This brown ironstone is found in a sheet about 14 feet thick generally covered by Boulder Clay which has preserved the scratched and irregular surface caused by moving ice.
- [Page 9](#) [P805013](#) The Vale of Belvoir. . Nottingham Excursion, 10th May 1913. Marlstone escarpment near Wartnaby. The level ground at the base of this escarpment forms the Vale of Belvoir which is composed of Lower Lias beds and in the distance merges into the plain formed of Keuper marls.
- [Page 9](#) [P805014](#) The Vale of Belvoir. Nottingham Excursion, 10th May 1913. The Vale of Belvoir from edge of escarpment. The level ground at the base of this escarpment forms the Vale of Belvoir which is composed of Lower Lias beds and in the distance merges into the plain formed of Keuper marls. Added note: Boulder Clay hills, position of Hydraulic limestone escarpment, The low escarpment caused by these limestones separates the Lower Lias plain from the Keuper Marl plain.
- [Page 9](#) [P805015](#) The Vale of Belvoir. Holwell. Nottingham Excursion, 10th May 1913. Coombe formed by spring thrown out at junction of Middle and Lower Lias beds.
- [Page 9](#) [P805016](#) The Vale of Belvoir. Holwell. Nottingham Excursion, 10th May 1913. Coombe formed by spring thrown out at junction of Middle and Lower Lias beds.
- [Page 11](#) [P805017](#) The Vale of Belvoir. Barnstone. Nottingham Excursion, 10th May 1913. The Hydraulic Limestone Series of the Lower Lias. The low escarpment caused by these limestones separates the Lower Lias plain from the Keuper Marl plain in the Vale of Belvoir pictures 9 and 10.
- [Page 11](#) [P805018](#) The Vale of Belvoir. Barnstone. Nottingham Excursion, 10th May 1913. The Hydraulic Limestone Series of the Lower Lias. The low escarpment caused by these limestones separates the Lower Lias plain from the Keuper Marl plain in the Vale of Belvoir pictures 9 and 10.
- [Page 11](#) [P805019](#) The Vale of Belvoir. Barnstone. Nottingham Excursion, 10th May 1913. These consist of bluish grey laminated shales with numerous layers of flaggy argillaceous limestone of a lighter tint. It is quarried for the manufacture of cement, paving stones etc. The thickness is about 20 ft and belongs to the zone of *Psiloceras planorbis*.
- [Page 11](#) [P805020](#) The Vale of Belvoir. Barnstone. Nottingham Excursion, 10th May 1913. These consist of bluish grey laminated shales with numerous layers of flaggy argillaceous limestone of a lighter tint. It is quarried for the manufacture of cement, paving stones etc. The thickness is about 20 ft and belongs to the zone of *Psiloceras planorbis*.
- [Page 13](#) [P805021](#) The Vale of Belvoir. Nottingham Excursion, 10th May 1913. Gypsum mine at Cropwell Bishop (situated near base of Hydraulic Limestone escarpment). The gypsum deposits are found near the top of the Keuper Marl. It is now won by driving underground galleries along th thicker and richer beds.
- [Page 13](#) [P805022](#) The Vale of Belvoir. Nottingham Excursion, 10th May 1913. Gypsum mine at Cropwell Bishop (situated near base of Hydraulic Limestone escarpment). The gypsum deposits are found near the top of the Keuper Marl. It is now won by driving underground galleries along th thicker and richer beds.
- [Page 13](#) [P805023](#) The Vale of Belvoir. Nottingham Excursion, 10th May 1913. Satin spar or fibrous gypsum, Cropwell Bishop. This gypsum was originally deposited as a chemical precipitate from the evaporating waters of an inland lake. The above silky and fibrous forms have been caused by subsequent alteration such as recrystallisation.
- [Page 13](#) [P805024](#) The Vale of Belvoir. Nottingham Excursion, 10th May 1913. Satin spar or fibrous gypsum, Cropwell Bishop. This gypsum was originally deposited as a chemical precipitate from the evaporating waters of an inland lake. The above silky and fibrous forms have been caused by subsequent alteration such as recrystallisation.

- [Page 15 P805025](#) The Trent Valley. Hazleford. Nottingham Excursion, 12th May 1913. View of Trent Valley excavated along the strike of the Keuper Marls. The level of the land from which these views were taken is only a few feet above the water level while on the other side it washes the bases of the hills and in places forms cliffs.
- [Page 15 P805026](#) The Trent Valley. Hazleford. Nottingham Excursion, 12th May 1913.
- [Page 15 P805027](#) The Trent Valley. Hazleford. Nottingham Excursion, 12th May 1913. The G.A. fleet.
- [Page 15 P805028](#) The Trent Valley. Hazleford. Nottingham Excursion, 12th May 1913. Keuper Cliff at Hazleford.
- [Page 17 P805029](#) Newark. Nottingham Excursion, 12th May 1913. Gypsum bearing Keuper Marls Messrs Cafferata's Pit.
- [Page 17 P805030](#) Newark. Nottingham Excursion, 12th May 1913. Gypsum bearing Keuper Marls Messrs Cafferata's Pit.
- [Page 17 P805031](#) Newark. Nottingham Excursion, 12th May 1913. The gypsum is found in layers from as much as 15 feet to a mere film. It is very irregular, sometimes being in a continuous deposit and at other in disjointed masses called by the quarrymen 'balls'.
- [Page 17 P805032](#) Newark. Nottingham Excursion, 12th May 1913. The gypsum is found in layers from as much as 15 feet to a mere film. It is very irregular, sometimes being in a continuous deposit and at other in disjointed masses called by the quarrymen 'balls'.
- [Page 19 P805033](#) Newark. Nottingham Excursion, 12th May 1913. Gypsum bearing Keuper Marls, Messrs Cafferata's Pit. The pure gypsum is used for making plaster of Paris, being roasted in a kiln and then ground to fine powder. The poorer qualities are used for cement.
- [Page 19 P805034](#) Newark. Nottingham Excursion, 12th May 1913. Gypsum bearing Keuper Marls, Messrs Cafferata's Pit. The pure gypsum is used for making plaster of Paris, being roasted in a kiln and then ground to fine powder. The poorer qualities are used for cement.
- [Page 19 P805035](#) Newark. Nottingham Excursion, 12th May 1913. Veins of fibrous gypsum. This is 'Satin spar' and used for making beads and small ornaments. Added note: Satin spar is a special kind of fibrous gypsum which is remarkably translucent and at present is quarried in only one place viz East Bridgford. Fibrous gypsum is not sufficiently translucent.
- [Page 19 P805036](#) Newark. Nottingham Excursion, 12th May 1913. Balls of gypsum. The clearer and veined portions are known as alabaster and used as ornamental building stone.
- [Page 21 P805037](#) Creswell. Quarry over Church Hole Cave. Nottingham Excursion, 13th May 1913. Swallow hole in Magnesian Limestone. The limestone holds a quantity of water in these spaces but it is not of good quality.
- [Page 21 P805038](#) Creswell. Quarry over Church Hole Cave. Nottingham Excursion, 13th May 1913. Face of Magnesian Limestone. Used as a building stone and consisting mainly of dolomite crystals with quartz sand and free calcite.
- [Page 21 P805039](#) Creswell. Nottingham Excursion, 13th May 1913. Creswell Crag. Entrance to Robin Hood's Cave. The Magnesian Limestone is strongly jointed and some of the joints are enlarged into fissures which expand into wide caves the mouths of which are usually 20 feet above the floor of the ravine.
- [Page 21 P805040](#) Creswell. Nottingham Excursion, 13th May 1913. Creswell Gorge. It is by this gorge that a small tributary of the Poulter breaks across a faulted uplift of the Magnesian Limestone. Added note: Derbyshire on left, Nottinghamshire on right.
- [Page 23 P805041](#) Markland Grips. Nottingham Excursion, 13th May 1913. Fallen block of Magnesian Limestone in a ravine cut in the same rock.

- [Page 23 P805042](#) Markland Grips. Nottingham Excursion, 13th May 1913. Thin bedded Magnesian Limestone of a flaggy character containing quartz grains with granules of dolomite.
- [Page 23 P805043](#) Markland Grips. Langwith. Nottingham Excursion, 13th May 1913. Cave in Magnesian Limestone from which a human skull, many worked flints, and a great variety of bones of extinct and living forms were obtained.
- [Page 23 P805044](#) Markland Grips. Langwith. Nottingham Excursion, 13th May 1913. Railway cutting in Magnesian Limestone. [Group photo].
- [Page 25 P805045](#) Sneinton. Nottingham Excursion, 14th May 1913. Added note: Keuper Conglomerate, Keuper Waterstones.
- [Page 25 P805046](#) Sneinton. Nottingham Excursion, 14th May 1913. Added note: See details below No. 44. [Group photo].
- [Page 25 P805047](#) Sneinton. Nottingham Excursion, 14th May 1913. For 18 ft below the Keuper Conglomerate is a series of beds with a peculiar bluish tinge classified at present with Bunter but their stratigraphical relationships however are still uncertain. Added note: Keuper Waterstones, Keuper Conglomerate.
- [Page 25 P805048](#) Sneinton. Nottingham Excursion, 14th May 1913. Pebble band in beds just below the Keuper Conglomerate, position marked in general view above. This shows the resemblance of these beds to Bunter.
- [Page 27 P805049](#) Nottingham Brick Co. Carlton Road. Nottingham Excursion, 14th May 1913. Lower Keuper Marls. These marls although of a clayey texture are mainly silicious silts with carbonates of lime and magnesia shaly and ripple marked with pale greenish bands and thin beds of sandstone called skerries.
- [Page 27 P805050](#) Nottingham Brick Co. Carlton Road. Nottingham Excursion, 14th May 1913. Skerry in Keuper Marls. The thin bands of sandstone are locally known as skerries. When several bands are close together and divided by narrow beds of shale as seen at the top of the section it forms a 'skerry belt' causing a plateau surface.
- [Page 27 P805051](#) Nottingham Brick Co. Carlton Road. Nottingham Excursion, 14th May 1913. Face of Keuper Marls. It is chiefly from these marls that the Nottingham bricks are made.
- [Page 27 P805052](#) Nottingham Brick Co. Carlton Road. Nottingham Excursion, 14th May 1913. Fibrous gypsum in the Keuper Marl between the skerries.
- [Page 29 P805053](#) Bulwell - Magnesian Limestone. Nottingham Excursion, 14th May 1913. Quarry at Bulweel in Permian Lower Limestone. Used for building stone and for making lime.
- [Page 29 P805054](#) Hucknall Road. Nottingham Excursion, 14th May 1913. Bunter beds showing an old channel.
- [Page 29 P805055](#) Nottingham Excursion, 14th May 1913. Bunter beds.
- [Page 29 P805056](#) Nottingham Excursion, 14th May 1913. Bunter beds.
- [Page 31 P805057](#) Bulwell - Brick and Pottery Pits. Nottingham Excursion, 14th May 1913. Permian Marl. A bright red shaly clay or 'marl' with interstratified green layers and thin bands of hard dolomitic sandstone also known as 'Middle Marl'. Used for making superior quality bricks and for flower pots.
- [Page 31 P805058](#) Bulwell - Brick and Pottery Pits. Nottingham Excursion, 14th May 1913. Permian Marl. A bright red shaly clay or 'marl' with interstratified green layers and thin bands of hard dolomitic sandstone also known as 'Middle Marl'. Used for making superior quality bricks and for flower pots.

- [Page 31 P805059](#) Hempsbill. Nottingham Excursion, 14th May 1913. Lower Mottled Sandstone with false bedding about 30 ft thick. This is the lowest division of the Bunter having few pebbles and of a fine loamy texture it is of a deep ruddy colour and contains marl interbedded with the sand. Used for moulding sand. The upper coarser portions are used as building sand. Added note: Hempsbill Railway Quarry near Bulwell.
- [Page 31 P805060](#) Hempsbill. Nottingham Excursion, 14th May 1913. Lower Mottled Sandstone with false bedding about 30 ft thick. This is the lowest division of the Bunter having few pebbles and of a fine loamy texture it is of a deep ruddy colour and contains marl interbedded with the sand. Used for moulding sand. The upper coarser portions are used as building sand. Added note: Hempsbill Railway Quarry near Bulwell.
- [Page 33 P805061](#) Kimberley. G. N. R. Goods Yard. Nottingham Excursion, 14th May 1913. Marl Slates resting on Permian breccia.
- [Page 33 P805062](#) Kimberley. G. N. R. Goods Yard. Nottingham Excursion, 14th May 1913. Junction of Permian and Coal Measures. The breccia at a low angle resting unconformably upon shaly Coal Measures.
- [Page 33 P805063](#) Kimberley. Midland Railway Cutting. Nottingham Excursion, 14th May 1913. Basement beds consisting of breccia made up of fragments of Carboniferous rocks cemented in a sandy calcareous matrix overlaid by thinly bedded flags on impure sandy dolomite with interbedded grey marl or clay. Added note: Breccia.
- [Page 33 P805064](#) Kimberley. Midland Railway Cutting. Nottingham Excursion, 14th May 1913. Basement beds consisting of breccia made up of fragments of Carboniferous rocks cemented in a sandy calcareous matrix overlaid by thinly bedded flags on impure sandy dolomite with interbedded grey marl or clay. Added note: Breccia.
- [Page 35 P805065](#) The Hemlock Stone. Nottingham Excursion, 15th May 1913. The Hemlock or Himlack Stone stands in a grassy depression between the wooded heights of Stapleford and Bramcote and rises to a height of 31 feet.
- [Page 35 P805066](#) The Hemlock Stone. Nottingham Excursion, 15th May 1913. Owing to its superior hardness it has resisted the destroying action of the rain and frost more than the surrounding rock which has been washed gradually away.
- [Page 35 P805067](#) The Hemlock Stone. Nottingham Excursion, 15th May 1913. It is a natural pillar due to selective atmospheric weathering the capping being a hard conglomerate cemented by barium sulphate. The conglomerate belongs to the top of the Bunter and also forms the summits of the two Hills.
- [Page 35 P805068](#) The Hemlock Stone. Nottingham Excursion, 15th May 1913. False bedding on surface of Hemlock Stone, the portion marked in the view above.
- [Page 37 P805069](#) Gypsum showing the transition from the amorphous to the fibrous form. Nottingham Excursion
- [Page 37 P805070](#) Pseudomorphs after salt in Lower Keuper Marls, Nottingham Brick Co., Carlton Road, Nottingham. Nottingham Excursion
- [Page 37 P805071](#) Dreikanter - near Nottingham. Quartzites acted upon during Triassic times by wind driving sand. Nottingham Excursion
- [Page 37 P805072](#) Dreikanter - near Nottingham. Quartzites acted upon during Triassic times by wind driving sand. Nottingham Excursion

Excursion to the Lizard, March, 1913

- [Page 41 P805073](#) Coverack. Excursion to the Lizard, March 20th 1913. The point on which the houses are built is serpentine with dykes of dolerite and veins of gabbro piercing it in every direction.

- [Page 41](#) [P805074](#) Coverack. Excursion to the Lizard, March 20th 1913. The two views were taken from the North, the high ground in the foreground being the gabbro boss.
- [Page 41](#) [P805075](#) Dolor Point. Excursion to the Lizard, March 20th 1913. Serpentine pierced by dykes of troctolite and olivine gabbro, these were at a later date cut by olivine dolerites.
- [Page 41](#) [P805076](#) Dolor Point. Excursion to the Lizard, March 20th 1913. Serpentine pierced by dykes of troctolite and olivine gabbro, these were at a later date cut by olivine dolerites.
- [Page 43](#) [P805077](#) Coverack. Excursion to the Lizard, March 20th 1913. Lowland Point. The broad terrace at the foot of the old gabbro cliff is a raised beach.
- [Page 43](#) [P805078](#) Coverack. Excursion to the Lizard, March 20th 1913. Lowland Point. The raised beach from the village.
- [Page 43](#) [P805079](#) North Corner. Excursion to the Lizard, March 20th 1913. Large blocks broken from the intrusive edge of the gabbro.
- [Page 43](#) [P805080](#) North Corner. Excursion to the Lizard, March 20th 1913. Large blocks broken from the intrusive edge of the gabbro.
- [Page 45](#) [P805081](#) Coverack. Excursion to the Lizard, March 21st 1913. Gabbro pegmatite.
- [Page 45](#) [P805082](#) Coverack. Excursion to the Lizard, March 21st 1913. Standing block of serpentine, this being of a harder nature has resisted denudation longer than the surrounding material.
- [Page 45](#) [P805083](#) Coverack. Excursion to the Lizard, March 21st 1913. Sand grains cemented by marine works 'Sabellaria alveolata' to form protective chambers.
- [Page 45](#) [P805084](#) Coverack. Excursion to the Lizard, March 21st 1913. Sand grains cemented by marine works 'Sabellaria alveolata' to form protective chambers.
- [Page 47](#) [P805085](#) Coverack. Excursion to the Lizard, March 21st 1913. Bastite serpentine cut by gabbro dyke.
- [Page 47](#) [P805086](#) Coverack. Excursion to the Lizard, March 21st 1913. Side of a dolerite dyke exposed by the removal of the serpentine around it. Shows polygonal jointing in the dolerite and spheroidal weathering.
- [Page 47](#) [P805087](#) Coverack. Excursion to the Lizard, March 21st 1913. Narrow black dyke (olivine dolerite) cutting through serpentine raised beach with pebbles at top.
- [Page 47](#) [P805088](#) Coverack. Excursion to the Lizard, March 21st 1913. Reticulate network of cracks developed by action of the weather in bastite serpentine.
- [Page 49](#) [P805089](#) Crousa Downs. Excursion to the Lizard, March 21st 1913. Cromlech called the Brothers of Grugwith.
- [Page 49](#) [P805090](#) Crousa Downs. Excursion to the Lizard, March 21st 1913. Cromlech called the Brothers of Grugwith.
- [Page 49](#) [P805091](#) Crousa Downs. Excursion to the Lizard, March 21st 1913. Residual blocks of gabbro strewn over the surface of the Downs. Owing to the rotting of the exposed surface and the washing away of the fine material the harder portions are left.
- [Page 49](#) [P805092](#) Crousa Downs. Excursion to the Lizard, March 21st 1913. Residual blocks of gabbro strewn over the surface of the Downs. Owing to the rotting of the exposed surface and the washing away of the fine material the harder portions are left.
- [Page 51](#) [P805093](#) Crousa Downs. Excursion to the Lizard, March 21st/22nd 1913. Pliocene gravels.

- [Page 51](#) [P805094](#) Crousa Downs. Excursion to the Lizard, March 21st/22nd 1913. Pliocene gravels resting on Pliocene platform cut out of the gabbro.
- [Page 51](#) [P805095](#) Crousa Downs. Excursion to the Lizard, March 21st/22nd 1913. Pliocene gravel.
- [Page 51](#) [P805096](#) Crousa Downs. Excursion to the Lizard, March 21st/22nd 1913. Nigger-heads or greystones, St. Keverne. These are the blocks that stand out when the soft decomposed gabbro around them is washed away. They show spheroidal weathering.
- [Page 53](#) [P805097](#) Chynhalls Point. Excursion to the Lizard, March 23rd 1913. The headland in the distance is gabbro. This point is a mass of serpentine pierced by dykes of gabbro which are themselves cut by epidiorite dykes.
- [Page 53](#) [P805098](#) Chynhalls Point. Excursion to the Lizard, March 23rd 1913. This point is a mass of serpentine pierced by dykes of gabbro which are themselves cut by epidiorite dykes.
- [Page 53](#) [P805099](#) Chynhalls Point. Excursion to the Lizard, March 23rd 1913.
- [Page 53](#) [P805100](#) Chynhalls Point. Excursion to the Lizard, March 23rd 1913.
- [Page 55](#) [P805101](#) Chynhalls Point. Excursion to the Lizard, March 23rd 1913. The sea as an eroding agent.
- [Page 55](#) [P805102](#) Chynhalls Point. Excursion to the Lizard, March 23rd 1913. Fissure weathering of serpentine.
- [Page 55](#) [P805103](#) Chynhalls Point. Excursion to the Lizard, March 23rd 1913. Advanced or prismatic weathering of serpentine.
- [Page 55](#) [P805104](#) Chynhalls Point. Excursion to the Lizard, March 23rd 1913. Advanced or prismatic weathering of serpentine.
- [Page 57](#) [P805105](#) Carrick Luz. Excursion to the Lizard, March 23rd 1913. This dyke of gabbro cutting the serpentine has a breadth of over 100 yards and being harder has been left now forming a long promontory running out to sea.
- [Page 57](#) [P805106](#) Carrick Luz. Excursion to the Lizard, March 23rd 1913. Spernic Cove. Added note: Shows foliation of gabbro (augen gabbro) dipping very steeply to the N.E.
- [Page 57](#) [P805107](#) Carrick Luz. Excursion to the Lizard, March 23rd 1913. Augen gabbro, Carrick Luz.
- [Page 57](#) [P805108](#) Carrick Luz. Excursion to the Lizard, March 23rd 1913. Spernic Cove. Cliffs of serpentine containing dykes of flaser gabbro, granite and epidiorite. Added note: The narrow gully or groove above the arrow marks the junction of the gabbro dyke on the left with the serpentine on the right.
- [Page 59](#) [P805109](#) Nare Head to Manaccan. [Excursion to the Lizard, March 24th 1913.] Section of consolidated crush breccia of the Veryan Series. A fine grained quartzose sandstone with calcareous veins quarried for road metal. Roadside near Carn.
- [Page 59](#) [P805110](#) Nare Head to Manaccan. [Excursion to the Lizard, March 24th 1913.] Head capping Devonian beds, S.W. of Nare Point. Added note: Head, raised beach, slaty Devonian beds.
- [Page 59](#) [P805111](#) Nare Head to Manaccan. [Excursion to the Lizard, March 24th 1913.] Veryan quartzite underlaid by spring thown out at the junction. Added note: Spring.
- [Page 59](#) [P805112](#) Nare Head to Manaccan. [Excursion to the Lizard, March 24th 1913.] Veryan quartzite below Penare. Brecciated and veined with quartz. [Group photo].

- [Page 61](#) [P805113](#) Nare Head to Manaccan. [Excursion to the Lizard, March 24th 1913.] Platform of head overlying raised beach with Devonian beds below. From Men Aver beach.
- [Page 61](#) [P805114](#) Nare Head to Manaccan. [Excursion to the Lizard, March 24th 1913.] Blk dyke, Coverack.
- [Page 61](#) [P805115](#) Nare Head to Manaccan. [Excursion to the Lizard, March 24th 1913.] Devonian slates and conglomerates, Nare Point.
- [Page 61](#) [P805116](#) Nare Head to Manaccan. [Excursion to the Lizard, March 24th 1913.] Nare Head. Devonian slates with plant remains.
- [Page 63](#) [P805117](#) Nare Head to Manaccan. [Excursion to the Lizard, March 24th 1913.] Dennis Head - Portscatho Series (Ordovician).
- [Page 63](#) [P805118](#) Nare Head to Manaccan. [Excursion to the Lizard, March 24th 1913.] Gillan Harbour with entrance to Helford River beyond. Devonian series on the South side of Gillan Harbour, and Ordovician rocks (Portscatho series) occupy the Northern area.
- [Page 63](#) [P805119](#) Nare Head to Manaccan. [Excursion to the Lizard, March 24th 1913.] Penare. Veryan beds in the foreground and Devonian conglomerate forms the headland.
- [Page 63](#) [P805120](#) Nare Head to Manaccan. [Excursion to the Lizard, March 24th 1913.] Gillan Harbour. Portscatho series (Ordovician on the left, Devonian beds on the right).
- [Page 65](#) [P805121](#) Nare Head to Manaccan. [Excursion to the Lizard, March 24th 1913.] Devonian beds, Gillan Harbour.
- [Page 65](#) [P805122](#) Nare Head to Manaccan. [Excursion to the Lizard, March 24th 1913.] Devonian slates, S.W. of Nare Point.
- [Page 65](#) [P805123](#) Nare Head to Manaccan. [Excursion to the Lizard, March 24th 1913.] Spring at Tregithy [Tregithey] thrown out at junction of hornblende schist and Veryan beds.
- [Page 65](#) [P805124](#) Nare Head to Manaccan. [Excursion to the Lizard, March 24th 1913.] Kennack. Excursion to the Lizard, March 25th 1913. East side of Kennack Sands. Bastite serpentine with thin white steatite veins. A large black syke or inclined sill of epidiorite runs through the serpentine from the points marked.
- [Page 67](#) [P805125](#) Kennack. Excursion to the Lizard, March 25th 1913. Cliff of streaky Kennack gneiss, showing a pale acid portion including and veining a dark basic material.
- [Page 67](#) [P805126](#) Kennack. Excursion to the Lizard, March 25th 1913. Bastite serpentine with veins of steatite. Note the shining little crystals of bastite.
- [Page 67](#) [P805127](#) Kennack. Excursion to the Lizard, March 25th 1913. Bastite serpentine with veins of steatite. Note the shining little crystals of bastite.
- [Page 67](#) [P805128](#) Kennack. Excursion to the Lizard, March 25th 1913. Bastite serpentine with veins of steatite. Note the shining little crystals of bastite.
- [Page 69](#) [P805129](#) Kennack. Excursion to the Lizard, March 25th 1913. Kennack Sands. Enys Head in background. Beyond that on skyline Ruan Minor village and Grade Church. In middle of bay, the Caerverrack rocks which are serpentine.
- [Page 69](#) [P805130](#) Kennack. Excursion to the Lizard, March 25th 1913. Kennack Sands from West. In foreground the banded Kennack gneisses. In distance the point of Carrick Luz which is the gabbro dyke.
- [Page 69](#) [P805131](#) Kennack. Excursion to the Lizard, March 25th 1913. Kennack gneiss.
- [Page 69](#) [P805132](#) Kennack. Excursion to the Lizard, March 25th 1913. Dyke in serpentine on beach, Kennack.

- [Page 71](#) [P805133](#) Kennack. Excursion to the Lizard, March 25th 1913. Red granite boss of the banded Kennack gneisses at West corner of Kennack.
- [Page 71](#) [P805134](#) Kennack. Excursion to the Lizard, March 25th 1913. Steatite serpentine.
- [Page 71](#) [P805135](#) Kennack. Excursion to the Lizard, March 25th 1913. Cliff of banded gneiss. West side of Kennack Bay.
- [Page 71](#) [P805136](#) Kennack. Excursion to the Lizard, March 25th 1913. Bastite serpentine cut by gabbro and both cut by epidiorite. West side of Kennack Bay.
- [Page 73](#) [P805137](#) Cadgwith. Excursion to the Lizard, March 25th 1913. The tunnel is a line of fault, the softer material having been eaten out by the sea forming a cave. The roof having collapsed an amphitheatre has been formed now called the Devils [Devil's] Frying Pan. Added note: The rock on the right is hornblende schist, that on the left is mostly Kennack gneiss.
- [Page 73](#) [P805138](#) Cadgwith. Excursion to the Lizard, March 25th 1913. The tunnel is a line of fault, the softer material having been eaten out by the sea forming a cave. The roof having collapsed an amphitheatre has been formed now called the Devils [Devil's] Frying Pan. Added note: The rock on the right is hornblende schist, that on the left is mostly Kennack gneiss.
- [Page 73](#) [P805139](#) Cadgwith. Excursion to the Lizard, March 25th 1913. Hornblende schist, Cadgwith.
- [Page 73](#) [P805140](#) Excursion to the Lizard, March 25th 1913. Spernic Cove. Shows junction of gabbro dyke on the left with serpentine on the right.
- [Page 75](#) [P805141](#) Lizard Head. Excursion to the Lizard, March 26th 1913. Man of War Rocks. These islands are formed of Man of War gneiss.
- [Page 75](#) [P805142](#) Lizard Head. Excursion to the Lizard, March 26th 1913. Man of War Rocks. These islands are formed of Man of War gneiss.
- [Page 75](#) [P805143](#) Lizard Head. Excursion to the Lizard, March 26th 1913. Pebble of serpentine and steatite.
- [Page 75](#) [P805144](#) Lizard Head. Excursion to the Lizard, March 26th 1913. Gabbro schist.
- [Page 77](#) [P805145](#) Polpeor. Excursion to the Lizard, March 26th 1913. Tremolite serpentine but mostly the pinkish mica schist.
- [Page 77](#) [P805146](#) Polpeor. Excursion to the Lizard, March 26th 1913. Sheared black dyke. Added note: 1: Crumpled mica schist, 2: Large bolster shaped mass or pulled out basalt dyke.
- [Page 77](#) [P805147](#) Polpeor. Excursion to the Lizard, March 26th 1913. Contorted hornblende schist.
- [Page 77](#) [P805148](#) Polpeor. Excursion to the Lizard, March 26th 1913. Cave caused by erosion of fault.
- [Page 79](#) [P805149](#) Kynance. Excursion to the Lizard, March 26th 1913. Tremolite serpentine in foreground and in Lion Rock.
- [Page 79](#) [P805150](#) Kynance. Excursion to the Lizard, March 26th 1913. The Lion Rock. Added note: Showing the fault between the Lion Rock and Yellow Carn headland eaten out by the sea.
- [Page 79](#) [P805151](#) Kynance. Excursion to the Lizard, March 26th 1913. Steeple Rock - a serpentine pillar left by erosion of gneiss and granite each side.
- [Page 79](#) [P805152](#) Kynance. Excursion to the Lizard, March 26th 1913. Tremolite serpentine. At top of cliff a granite gneiss intrusion into the tremolite serpentine. Added note: Granite gneiss, Tremolite serpentine.
- [Page 81](#) [P805153](#) Kynance. Excursion to the Lizard, March 26th 1913. Pebble of serpentine with steatite breccia.
- [Page 81](#) [P805154](#) Kynance. Excursion to the Lizard, March 26th 1913.

- [Page 81](#) [P805155](#) Kynance. Excursion to the Lizard, March 26th 1913. Stream Kynance. Note the rugged walls of the serpentine valley.
- [Page 81](#) [P805156](#) Kynance. Excursion to the Lizard, March 26th 1913. Druids Stone in British Village above Kynance.
- [Page 83](#) [P805157](#) Gunwalloe. Excursion to the Lizard, March 27th 1913. Folds in the Baulk Head Devonian Beds, consisting of alterations of sandstones and slates.
- [Page 83](#) [P805158](#) Gunwalloe. Excursion to the Lizard, March 27th 1913. Folds in the Baulk Head Devonian Beds, consisting of alterations of sandstones and slates.
- [Page 83](#) [P805159](#) Gunwalloe. Excursion to the Lizard, March 27th 1913. Folds in sandstone of the Baulk Head Devonian Series. Gunwalloe cliff at Jangye-ryn.
- [Page 83](#) [P805160](#) Gunwalloe. Excursion to the Lizard, March 27th 1913. Folds in sandstone of the Baulk Head Devonian Series. Gunwalloe cliff at Jangye-ryn.
- [Page 85](#) [P805161](#) Gunwalloe to Porthleven. Excursion to the Lizard, March 27th 1913. Helston.
- [Page 85](#) [P805162](#) Gunwalloe to Porthleven. Excursion to the Lizard, March 27th 1913. Coast section of Falmouth Beds from Baulk Head to Looe Bar. Added note: Raised beach platform at base of cliff with cemented gravels resting on rock ledge. Porthleven in distance.
- [Page 85](#) [P805163](#) Gunwalloe to Porthleven. Excursion to the Lizard, March 27th 1913. Manaccan Series, Lower Devonian, Baulk Head.
- [Page 85](#) [P805164](#) Gunwalloe to Porthleven. Excursion to the Lizard, March 27th 1913. Manaccan Series, Lower Devonian, Baulk Head. This photograph shows the cleavage planes transverse to the bedding.
- [Page 87](#) [P805165](#) Looe Bar. Excursion to the Lizard, March 27th 1913. Shingle beach formed chiefly of chalk flints with a few chert pebbles.
- [Page 87](#) [P805166](#) Excursion to the Lizard, March 27th 1913. Looe Bar.
- [Page 87](#) [P805167](#) Excursion to the Lizard, March 27th 1913. Looe Bar looking South.
- [Page 87](#) [P805168](#) Looe Bar. Excursion to the Lizard, March 27th 1913. The Bar in the distance fronting Looe Pool has converted an original tidal estuary into a freshwater lake. .
- [Page 89](#) [P805169](#) Porthleven. Excursion to the Lizard, March 27th 1913. The Giant's Rock on beach formed of microcline gneiss, a glacial erratic of 50 tons in weight stranded by ice on the Pleistocene shore.
- [Page 89](#) [P805170](#) Porthleven. Excursion to the Lizard, March 27th 1913. Contorted Mylor banded beds. Note the quartz veins which are crumpled and brecciated.
- [Page 89](#) [P805171](#) Porthleven. Excursion to the Lizard, March 27th 1913. Looe Pool from the Bar. The Falmouth Series occupy all but the most distant parts of the picture.
- [Page 89](#) [P805172](#) Porthleven. Excursion to the Lizard, March 27th 1913. Looe Pool from the Bar. Falmouth Series.
- [Page 91](#) [P805173](#) Kynance to Mullion. Excursion to the Lizard, March 28th 1913. Predannock Head from the South. The cove is Ugo Dour [Ogo-dour] Cove where the serpentine on the right joins the hornblende schist on the left.
- [Page 91](#) [P805174](#) Kynance to Mullion. Excursion to the Lizard, March 28th 1913. In centre of view the celebrated Porstone Point where Messrs Teall and [missing] described the junction of the serpentine and hornblende schist.
- [Page 91](#) [P805175](#) Kynance to Mullion. Excursion to the Lizard, March 28th 1913. The Horse - a mass of tremolite serpentine projecting from the cliff.

- [Page 91](#) [P805176](#) Kynance to Mullion. Excursion to the Lizard, March 28th 1913. At Kynance looking S.E. from the Rill Point. Lion Rock in the distance. Landslip in face of cliff.
- [Page 93](#) [P805177](#) Lizard to Mullion. Excursion to the Lizard, March 28th 1913. Foliated banded hornblende schist in cliffs north of Porstone Point.
- [Page 93](#) [P805178](#) Lizard to Mullion. Excursion to the Lizard, March 28th 1913. Landslip in face of cliffs north of Soap Rock (tremolite serpentine).
- [Page 93](#) [P805179](#) Lizard to Mullion. Excursion to the Lizard, March 28th 1913. [Landslip in face of cliffs north of Soap Rock (tremolite serpentine).].
- [Page 93](#) [P805180](#) Lizard to Mullion. Excursion to the Lizard, March 28th 1913. Faulted pebble of hornblende schist.
- [Page 95](#) [P805181](#) Mullion. Excursion to the Lizard, March 28th 1913. Mullion Island consists of pillow lava (spilite) with subordinate beds [of] radiolarian chert and black shales of the Veryan Series.
- [Page 95](#) [P805182](#) Mullion. Excursion to the Lizard, March 28th 1913. Mullion Island consists of pillow lava (spilite) with subordinate beds [of] radiolarian chert and black shales of the Veryan Series.
- [Page 95](#) [P805183](#) Mullion. Excursion to the Lizard, March 28th 1913. An infold of hornblende schist in serpentine, Mullion Cove.
- [Page 95](#) [P805184](#) Mullion. Excursion to the Lizard, March 28th 1913. Hornblende schist.
- [Page 97](#) [P805185](#) Mullion. Excursion to the Lizard, March 28th 1913. Note the raised beach platform at height of 10 feet on Mullion Island.
- [Page 97](#) [P805186](#) Mullion. Excursion to the Lizard, March 28th 1913. Mullion Cove.
- [Page 97](#) [P805187](#) Mullion. Excursion to the Lizard, March 28th 1913. Compact flinty looking serpentine forming the rocky inlet of Henscath.
- [Page 97](#) [P805188](#) Mullion. Excursion to the Lizard, March 28th 1913. The Bumble Rock and cliff of hornblende schist. West of Lizard lighthouses.
- [Page 99](#) [P805189](#) Mullion. Excursion to the Lizard, March 28th 1913. Shingle beach, Polurrian Cove. The Veryan Series form the headland.
- [Page 99](#) [P805190](#) Mullion. Excursion to the Lizard, March 28th 1913. Poldhu Marconi Signal Station. On the Veryan slates.
- [GA0Page 9906](#) [P805191](#) Mullion. Excursion to the Lizard, March 28th 1913. Mullion Cove Hotel on hornblende schist. Henscath an islet of fine tremolite serpentine. Behind these Marconi Signal Station.
- [Page 99](#) [P805192](#) Mullion. Excursion to the Lizard, March 28th 1913. North point of Polurrian Cove. Veryan Beds.

Minehead Excursion, June, 1913

- [Page 103](#) [P805193](#) Blue Anchor to Watchet. Minehead Excursion, June 21st 1913. View of Blue Anchor Point showing the anticlinal arrangement of the Keuper Marl.
- [Page 103](#) [P805194](#) Blue Anchor to Watchet. Minehead Excursion, June 21st 1913. Detailed view of a portion of the cliff depicted in No. 1 showing veins of gypsum.
- [Page 103](#) [P805195](#) Blue Anchor to Watchet. Minehead Excursion, June 21st 1913. Marine undercutting of Keuper and Rhaetic beds.
- [Page 103](#) [P805196](#) Blue Anchor to Watchet. Minehead Excursion, June 21st 1913. Rhaetic and Keuper faulted against Keuper.
- [Page 105](#) [P805197](#) Blue Anchor to Watchet. Minehead Excursion, June 21st 1913. View of fault plane - the face is Keuper Marl.

- [Page 105 P805198](#) Blue Anchor to Watchet. Minehead Excursion, June 21st 1913. Slipped mass of rock between Blue Anchor and Watchet.
- [Page 105 P805199](#) Blue Anchor to Watchet. Minehead Excursion, June 21st 1913. Warren Farm section (Upper Keuper). See 2 J. G. Soc. Vol. LXVII Pl. IV.
- [Page 105 P805200](#) Blue Anchor to Watchet. Minehead Excursion, June 21st 1913. Slipped mass of rock between Blue Anchor and Watchet.
- [Page 107 P805201](#) St Audries Bay. Minehead Excursion, June 21st 1913.
- [Page 107 P805202](#) St Audries Bay. Minehead Excursion, June 21st 1913. Detailed view of a portion of the cliff at St Audries Bay showing black shales resting on Keuper Grey Marls. Added note: Lower Lias.
- [Page 107 P805203](#) St Audries Bay. Minehead Excursion, June 21st 1913. Detailed view of a portion of the cliff at St Audries Bay showing black shales resting on Keuper Grey Marls.
- [Page 109 P805204](#) St Audries Bay. Minehead Excursion, June 21st 1913. Keuper Marls.
- [Page 109 P805205](#) St Audries Bay. Minehead Excursion, June 21st 1913. Lias beds tilted by landslip. An example of the way horizontal beds are brought within reach of marine erosion.
- [Page 109 P805206](#) St Audries Bay. Minehead Excursion, June 21st 1913. Black shales overlying the Keuper Grey Marls.
- [Page 109 P805207](#) St Audries Bay. Minehead Excursion, June 21st 1913. Lias limestone from the above beds when subjected to marine influence besides being rolled by the waves are eaten into by *Polydora*.
- [Page 111 P805208](#) Lilstock Bay. Minehead Excursion, June 23rd 1913.
- [Page 111 P805209](#) Lilstock Bay. Minehead Excursion, June 23rd 1913. Section of Lias and Rhaetic Beds. Added note: Lower Lias, Rhaetic.
- [Page 111 P805210](#) Lilstock Bay. Minehead Excursion, June 23rd 1913. Detailed view of upper part of previous section. Added note: Lower Lias, Watchet Beds, Langport Beds, Cotham Beds, Lilstock Beds or *Pteria contorta* beds.
- [Page 113 P805211](#) The Quantocks. Minehead Excursion, June 23rd 1913. Combe looking towards Holford.
- [Page 113 P805212](#) The Quantocks. Minehead Excursion, June 23rd 1913. Devonian beds. Quarry at entrance to Combe.
- [Page 113 P805213](#) The Quantocks. Minehead Excursion, June 23rd 1913. Wayside cross at Crowcombe.
- [Page 115 P805214](#) Woodland Quarry Holford. Minehead Excursion, June 23rd 1913. Hangman's Grits, Devonian.
- [Page 115 P805215](#) Woodland Quarry Holford. Minehead Excursion, June 23rd 1913. Mesopotamia - between the rivers, Holford.
- [Page 115 P805216](#) Woodland Quarry Holford. Minehead Excursion, June 23rd 1913. Mesopotamia - between the rivers, Holford.
- [Page 117 P805217](#) Section in the Trias, Woolston Quarry near Williton. Minehead Excursion, June 24rd 1913. The upper part of the section showing the upper sandstones and upper part of the conglomerate. Added note: Irregularly jointed rubbly red sandstone, Massive even bedded red sandstone, Dark between conglomerate splitting into impersistent even beds, Massive conglomerate with numerous pebbles of Carboniferous limestone which give the rock a grey tint, Upper sandstones Lower Keuper or Upper Bunter, Bunter Conglomerate.

[Page 117 P805218](#) Section in the Trias, Woolston Quarry near Williton. Minehead Excursion, June 24rd 1913. North face showing the complete series. Refs. Geol. Quantock Hills, p. 50, Mem. Geol. Surv. 1908, Geol. Mag. 1909 p160-5. Added note: Irregularly jointed rubbly red sandstone, Massive even bedded red sandstone, Dark between conglomerate splitting into impersistent even beds, Massive conglomerate with numerous pebbles of Carboniferous limestone which give the rock a grey tint, Upper sandstones Lower Keuper or Upper Bunter, Bunter Conglomerate.

[Page 117 P805219](#) Section in the Trias, Woolston Quarry near Williton. Minehead Excursion, June 24rd 1913. The lower part of the section showing the massive conglomerate.

[Page 117 P805220](#) Section in the Trias, Woolston Quarry near Williton. Minehead Excursion, June 24rd 1913. The lower part of the section showing the massive conglomerate with abundant pebbles of Carboniferous limestone many of which are fossiliferous.

[Page 119 P805221](#) Section in the Trias, Woolston Quarry near Williton. Minehead Excursion, June 24rd 1913. Section at the West end of the quarry showing nearly the full thickness of the conglomerate. Added note: Conglomerate, Sandstone.

[Page 119 P805222](#) Section in the Trias, Woolston Quarry near Williton. Minehead Excursion, June 24rd 1913. View looking East from the West end of the quarry.

[Page 119 P805223](#) Section in the Trias, Woolston Quarry near Williton. Minehead Excursion, June 24rd 1913. Bunter Conglomerate.

[Page 119 P805224](#) Section in the Trias, Woolston Quarry near Williton. Minehead Excursion, June 24rd 1913. Joints in the Bunter Conglomerate.

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