**ARCHIVES RELATING TO THE GEOLOGY OF THE HUNTER REGION**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
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</table>
| A5094c(v) | Copies of Historical Photographs and Engravings of Newcastle, circa 1870 – 1890's.  
  - Photograph of Nobbys and Fort Scratchley area - circa 1890.  
  - Photograph from 1878.  
  - Photograph of Newcastle 1880.  
  - Photograph of Newcastle 1890-9.  
  - Photograph from East End 1883 or 4.  
  - Photograph from Fort Scratchley 1890-9  
  - Photograph of Newcastle Harbour 1880-89.  
  - Photograph of old Newcastle 1870. |
| A5828 (xii) | N.S.W. Department of Mines – *Extractive resources within Newcastle and Port Stephens 1:100,000 areas*, by R.E. Uren. (Geological survey report No. G.S. 1973/029, February 1973.) [Xerox copy.]  
  - 1862 map of the Hunter River including the North and South Channels (and Stockton?). Transmitted to the Surveyor General by D. Maitland, Surveyor.  

Inservice courses in geology: *The Geology of the Upper Hunter*, by Beryl Nashar, September, 1977 [77/68].

- At the time of this course, Beryl Nashar was the Head of the Department of Geology at the University of Newcastle.
- The course: *The Geology of the Upper Hunter Region* discusses draining of the region by the Hunter River and its tributaries. Also, radiating from Barrington tops is a radial drainage pattern of streams.
- The guide also states there is evidence suggesting the Hunter River has repeatedly changed its course. In addition, the Hunter River has been dammed to produce Glenbawn Dam, which is designed for irrigation and flood mitigation purposes.
- Nashar highlighted the first discovery of coal at the mouth of the Hunter River by Lieutenant Shortland in 1797, as noted by Britten.
- Up until approximately 1827 Newcastle’s coal measures were mined by convicts for the Sydney market, which exported to India, and also for local consumption. From 1827 to 1844 the A.A. Company had the monopoly, which was broken by James Brown’s development of the Tomago coal measures and Four Mile Creek.
- Completion of the Great Northern Railway line in 1857 further enhanced coal export also.
- By 1890 exports from Newcastle (to America and China) reached up to 2,000,000 tonnes per year.
- The discovery of the Greta coal measures in 1864 at Anvil Creek, followed by Sir Edgeworth David’s geological studies led to the recognition and mining of the Greta Coal measures.
- Just before World War One of the Newcastle Steel Works commenced and this led to further increases in the exploitation of the Newcastle coal measures.
- 3 maps were enclosed: a Geological Map of the Upper Hunter Region, the Geology of the Barrington Tops district and a Geological Map of Murrurundi-Temi.
This report was undertaken by the Department of Mines New South Wales by A.A. Atkinson, Chief Inspector of Coal Mines. The report is noted as circa 1902.

The report states: Nobbys is as a prominent headland at the mouth of the Hunter River. South of Nobbys is Signal Hill, which is 120 feet above the high water mark and Shepherds hill, which is 250 feet above the high water mark, following with cliffs against the coastline, decreasing in height closer to Merewether (p.624).

The report states the appearance of an igneous dyke and coal-seams at Nobbys and the cliffs south of Nobbys (p.625).

There are a number of useful maps and diagrams in the back of the report:

- Figure 1: Plan of Colliery Properties near Newcastle, including Lines of Sections, Bore-Holes and Shafts.
- Figures 2 - 6: Various views of a Boring Machine
- Figure 7: Plan of Colliery Properties near Newcastle, including Lines of Sections, Bore-Holes and Shafts.
- Figure 8: Newcastle Coal-Mining Company’s A Pit to Harpers Shaft.
- Figure 9: Wickham to Bullock Island Colliery Working Shaft.
- Figure 10: Newcastle Coal-Mining Company’s A Pit to Stockton No.3 Shaft.
- Figure 11: Hetton Working Shaft
- Figure 12: No. 1 Bore-Hole of the Australian Agricultural Company to the face of No. 43 Bord of Stockton Colliery.
- Figure 13: From Stockton Working Shaft to Bore-Hole in Roof.
- Figure 14: Along No. 43 Bord of Stockton Colliery to Working-Face.
- Figure 15: Along Duncan’s Heading of Stockton Colliery to Working-Face.
| Figure 16: From Australian Agricultural Company’s Sea Pit to face their Ocean Workings. |
| Figure 17: From Hetton Working-Shaft to face of their River Cross-Cuts. |
| Figure 18: From Harper’s Shaft near Port Waratah to No. 3 Shaft, Stockton Collieries. |
| Figure 19: From Stockton-Working Shaft to No.1 Bore-Hole With No. 7 Diamond Drill at Nobbys. |
| Figure 20: From Newcastle Mining Company’s B Pit to face of their Ocean Workings. |
| Figure 21: From Newcastle Mining Company’s a Pit to to face of their Ocean Workings. |

A6723 Copy of part of: History of Merewether (Haslam, Percy)

- In 1835 the first block of land was purchased in what would later become the suburb of Merewether. At this time the hills to the south and south-west of Newcastle city were covered by thick oak and gum trees, the flats were covered by a dense scrub of geebung, five-corner shrubs, ti-tri and a coarse bracken undergrowth. As well, the area between Bar Beach and Merewether Beach was covered by sand at quite a distance from the beach (n.p).
- This section of the book also discusses coal being transported via train from Victoria Gulley to the Junction (p.72-73).
- There are also 2 Interesting maps showing the Old Burwood Colliery, the Smelting Works and various tunnels and railway lines.

UNIVERSITY OF NEWCASTLE - DEPARTMENT OF GEOLOGY: (Conduit: Ron Boyd):


A7704 (iv) Joint Coal Board - New South Wales Geological Survey, Department of Mines - Graphic Bore Logs in the Muswellbrook area, Section 27, March, 1953.

A7704 (vi) Joint Coal Board - New South Wales Geological Survey, Department of Mines - Graphic Log of Balmoral DDH R4, Section 25, May, 1953.
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<td>B10422</td>
<td>The Geology and Petrography of the Clarendown-Paterson District (papers read by G.D. Osborne).</td>
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<td>C2779 (vi):</td>
<td>Fred M Gregory, Selected Source Material on the early history of Newcastle and the lower Hunter area. Published by the Raymond Terrace and</td>
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<td></td>
<td>District Historical Society, 1981.</td>
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<td></td>
<td>Page 8a: An Eye sketch of Hunter River from the map of John Shortland (no date).</td>
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<tr>
<td>C2779(xiv)</td>
<td>Branagan DF, Geology and Coal Mining in the Hunter Valley, Newcastle History Monograph No. 6, 1972</td>
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<tr>
<td></td>
<td>Provides an overview of the discovery of coal.</td>
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<td>Provides detail about the expansion of the coal mining industry in the Hunter Valley/Newcastle.</td>
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<tr>
<td></td>
<td>Page 46: Map of early coal industry locations in the Newcastle district.</td>
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<tr>
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<td>Page 47: Map of early coalmines in Newcastle.</td>
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<tr>
<td></td>
<td>Page 48: Layers of Newcastle Coalfield.</td>
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<tr>
<td></td>
<td>Page 49: Vertical section of Newcastle Coal Measures.</td>
</tr>
<tr>
<td></td>
<td>Page 53: Layers within the Newcastle Cliff section.</td>
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<td></td>
<td>Page 54: 1855 map of the Burwood Seam.</td>
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- Description of the various rock types within the Hunter Valley.
- Pictures of various fossils, within the Hunter Valley
- A brief overview of the geological history of the Hunter Valley.
- Details of Newcastle’s geological features.
- Details of Lake Macquarie, Maitland, Mount Sugarloaf, Pokolbin, Raymond Terrace, Port Stephens and the upper Hunter Valley geology, including geological maps.

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<td>A. A. Co.’s New Winning: tracing showing section along Jones narrow bord from C [on verso: Horizontal section narrow bord[?]) under ocean</td>
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**M40a**

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**M43**

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M1202

SERIES: MAPS SHOWING THE COAL RESOURCES OF THE SOUTHERN PORTION OF THE MAITLAND-GRETA-CESSNOCK COAL DISTRICT

TITLE: Geological map of the Southern portion of the Greta-Cessnock coalfield. Part A of 3 parts

SURVEYOR/CARTOGRAPHER/PUBLISHER: Geologically surveyed by L. J. Jones, assisted by A.C. Lloyd. Based on the original survey by T. W. Edgeworth David, prepared under the direction of E. C. Andrews, Government Geologist, Department of Mines, Sydney, N.S.W.

DATE: 1927

SCALE: --

FORMAT: --

SUBJECT/AREA/FEATURES: --

NOTES: --

M1203

SERIES: MAPS SHOWING THE COAL RESOURCES OF THE SOUTHERN PORTION OF THE MAITLAND-GRETA-CESSNOCK COAL DISTRICT

TITLE: Geological map of the Southern portion of the Greta-Cessnock coalfield. Part B of 3 parts

SURVEYOR/CARTOGRAPHER/PUBLISHER: Geologically surveyed by L. J. Jones, assisted by A.C. Lloyd. Based on the original survey by T. W. Edgeworth David, prepared under the direction of E. C. Andrews, Government Geologist, Department of Mines, Sydney, N.S.W.

DATE: 1927

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FORMAT: --

SUBJECT/AREA/FEATURES: --

NOTES: --

M1204

SERIES: MAPS SHOWING THE COAL RESOURCES OF THE SOUTHERN PORTION OF THE MAITLAND-GRETA-CESSNOCK COAL DISTRICT

TITLE: Geological map of the Southern Portion of the Greta-Cessnock coalfield. Part C, showing sections

SURVEYOR/CARTOGRAPHER/PUBLISHER: Geologically surveyed by L. J. Jones, assisted by A.C. Lloyd. Based on the original survey by T. W. Edgeworth David, prepared under the direction of E. C. Andrews, Government Geologist,
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<td>TITLE:</td>
<td>Section from Rix’s Creek near Singleton, to Anna Bay near Port Stephens</td>
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<td>SURVEYOR/CARTOGRAPHER/PUBLISHER:</td>
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<td>DATE:</td>
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<td>SCALE:</td>
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| M1465 – M1466 | SERIES: | Geological strata plans of Lower Hunter coalfields. Section V. |
| | TITLE: | Section from near East Greta Colliery to outcrop of Muree beds on Miller’s Forest Road South of Duckenfield |
| | SURVEYOR/CARTOGRAPHER/PUBLISHER: | W.A. Gullick Government printer. |
| | DATE: | |
| | SCALE: | 1" = 40 chains |
| | FORMAT: | Photo – lithograph, coloured. |
| | SUBJECT/AREA/FEATURES: | [As TITLE] |
| | NOTES: | |

| M1467 – M1468 | SERIES: | Geological strata plans of Lower Hunter coalfields. Section VI. |
| | TITLE: | Section from Alison’s Wyong Bore to Raymond Terrace |
| | SURVEYOR/CARTOGRAPHER/PUBLISHER: | W.A. Gullick Government printer. |
| | DATE: | |
| | SCALE: | 1" = 80 chains |
| | FORMAT: | Photo – lithograph, coloured. |
| | SUBJECT/AREA/FEATURES: | [As TITLE] |
| | NOTES: | |

<p>| M1469 – M1470 | SERIES: | Geological strata plans of Lower Hunter coalfields. Section VII. |
| | TITLE: | Section from Matthew’s Gap, Pokolbin, to the A.A. Company’s 3,002 ft Bore, Newcastle |
| | SURVEYOR/CARTOGRAPHER/PUBLISHER: | W.A. Gullick Government printer. |</p>
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<td>SUBJECT/AREA/FEATURES: Matthew’s Gap, Bright, Mt View, Aellalong, Barraba, Quarrybylong, Bow Wow, Cliffs, Killingworth Colliery, Fassifern, Cockle Creek, Lake Macquarie</td>
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<td>SUBJECT/AREA/FEATURES: Cedar Creek, Mt Bright</td>
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<td>TITLE:</td>
<td>Section on J&amp;A Brown’s. New railway from Pelaw-Main Colliery to the outcrop of the Borehole Coal Seam in Blue Gum Creek, 1 ½ miles north west of Minmi</td>
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<td>SUBJECT/AREA/FEATURES: Shows the splitting of the Greta coal seam eastward of Stanford-Merthyr, also the increased thickness of the Tomago coal measures</td>
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<td>TITLE: Comparative series of vertical sections of the Greta coal seams</td>
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<td>TITLE: Comparative series of vertical sections in the Tomago coal measures.</td>
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<td>SUBJECT/AREA/FEATURES: Wallarah or Bulli seam, Great Nothern seam, Fassifern seam, Upper and lower pilot seams, Australasian seam, Barwood seam, Nobby's seam, Dirty</td>
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<td><strong>SERIES:</strong> Geological maps of coal fields in the Hunter Valley</td>
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<tr>
<td><strong>TITLE:</strong> Geological map of part of the Maitland coal field, counties of Northumberland and Durham</td>
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<td><strong>SURVEYOR/CARTOGRAPHER/PUBLISHER:</strong> Geologically surveyed by T.W.E David [and others] prepared under the direction of E.F Pittman, Department of Mines and Agriculture</td>
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<td><strong>TITLE:</strong> Geological map of part of the Maitland coal field, counties of Northumberland and Durham [continuation of M1478 and M1479]</td>
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<td>SERIES: Geological charts</td>
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<td>Francis J. Bradshaw</td>
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<th>M4000 (Part 1)</th>
<th>SERIES: Coalfield maps</th>
<th>INDEX NO: 5</th>
<th>TITLE: [Cover TITLE] The coal resources of the southern portion of the Maitland – Cessnock – Greta coal district. [In 3 parts] (Mineral resources, No.37).</th>
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<td>Surveyed by L.J. Jones and A.C Lloyd, based on the original survey by T.W.E. David.</td>
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**UNACCESSIONED MATERIAL**

50A1  Geology Department – Belltrees Aerial photos + student reports (via Richard Bale 2012) – 2 boxes  
52A3  Geology (via Richard Bale in several consignments) – 19 boxes  
55B4  Geology Department (via Richard Bale 10/2008) – 5 boxes  
55B5  Geology reprints (via Richard Bale 12/2010) – 4 boxes

(List compiled by Gregg Heathcote, 20 January 2017. Notes on records by Brooke Sargent, January 2017.)