

# MEMOIRS

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**CATALOGUE OF A COLLECTION OF YORKSHIRE MINE PLANS  
RELATIVE TO THE GREENHOW HILL AREA; THE PROPERTY  
OF P.W. VARVILL, ESQ., MESSRS. LOGAN ENGINEERING LTD.  
GRAY STREET WORKS, LOCHEE. DUNDEE.**

R.T. Clough, F.S.A. Scot., A.R.I.B.A.

This collection of plans, etc. is contained in one old filing box, marked "PLANS OF LEAD MINES", these plans being collected by the late Mr Varvill, father of the above P.W. Varvill, who for many years was consulting mining engineer, during the 1930's, on Greenhow Hill.

The above collection loaned to R.T. Clough, for cataloguing, etc. 1966. The collection in due course to be lodged in a National Mining Institution Library.

Referred to in manuscript list as, "In Box B":-

Plan:

B.1 Paper, mainly brownish ink, with some details in pencil, insc. in pencil, top left corner, "Toft Gate, Sunside Mine". Size: 26" x 39", repaired with paper patches in several places. The road from Sunter House and Bentleys to Toft Gate shown, together with, "Cowgrove Engan" and "limestone quarry" by roadside. "Pendleton Pipe" and many shafts are named and marked.

B.2 Paper, A very fine plan in ink, entitled, "Plan of the East Workings of Sun Side Mine, by N. Newbould, May 20th 1816." Elaborate north sign and border to plan. Scale 1 chain to an Inch. Size 26" x 38ft", repaired in several places after much Use. Veins, etc. include: Banks Vein, Sir Thomas Vein, Blue Joke Vein, and mines shown, as east of East Galloways and Blue Rigg.

B.3 Paper, A very fine large plan in ink and coloured in pale red, yellow and blue. Entitled, "Plan of the Principal Veins and Workings at Sun Side and Cockhill taken 14th May 1811, Nathan Newbould". Scale: 1 chain to an inch. A fine clean plan, showing surface features such as Sunter House, Gillfield and road to Pateley Bridge. Sun Side Low Level, East Galloways Level, Greenhow Rake Low Level all shown in detail, with many drifts and crosscuts named. Size of plan: 30" x 50".

B.4 Plan of Old Moss Veins Paper, ink. Weather Gleam Vein, Slant Vein, Old Moss Vein, North Gregory Vein, Fourteen Meers Vein, Sun, Coalgrove Head Middle, Sun, Dry, Sixty Meers, Galloping and Lees and Lupton's Veins. Shows ground given up, marked in [11] yellow and ground granted in lieu of Ground given up", marked in brown ink. Size: 21" x 26". No title or border. c.1820.

B.5 Plan of Sun Vein. East and West Low Level. Paper, ink. North sign, "Maiden Engine", "Forefield Shaft" and main veins Size: 18" x 31". "Scale one Chain to an Inch 1836". Double Ink border.

B.6 A Plan of the Principal Veins and Workings at Sun Side. Scale 2 chains to an Inch, Matthew Newbould 1821". A very attractive plan, size: 21" x 30" with various boundaries coloured. "Moor Vein Engine" and "Maiden Engine" shown.

B.7. "A Plan of Sun Side Workings from the Rise Bottom to the foreheads, Scale 20 links to an Inch, April 29th N. Newbould" One of the earliest plans in the group. Ink on paper. Pencil note at top. "A Rise from Green Groves String in the Low Level would cut the 2 next veins in consequence of its great hauid with the top to the North". "Low level in the Green Grooves Vein, Low South Crosscut" shown. No border, stained, North sign shown. Size 17½" x 24".

B.8 "Plan of the Sun Side or Coldstones Lead Mine" Scale 2 chains to an Inch, By N. Newbould 1806". A fine large plan, with a large part missing, bottom right corner. Many shafts and veins marked: Limekiln, Middleton, Gascoigne, Garnet, Sun, Folly, Hope and Likely, Heslems Sun, Summers Sun, and Sir Thomas's Veins. Title in rectangular cartouche, grey colour, paper and brown ink. Size: 30" x 50ft.

B.9 "Plan of Sunside Lead-Mine in Lease to Messrs. Cleaver, Hopper's, Monkhouse & Co. from Sir Thos. Wolliston White Bart., Nathan Newbould 1807". (Title shown as part of cartouche section, with an elaborate scale, all in different colours of grey, together with a magnetic variation sign. Sun, Folly and Likely Veins etc. all shown, together with Woodyard and Smithy and some surface features. Size: 31" x 50". Plan torn and repaired.

B.10 Small plan, "North Coldstones", - "2 chains to an inch" (both in pencil). "Clockhead" shown. Paper, ink and pencil. No date, or border. Size: 19" x 22".

B.11 "A Plan of the Principal Veins and Workings at Sun Side". "Scale 2 Chains to an Inch. N. Newbould & Son 1830". A very detailed plan showing many veins and workings. Size: 21" x 26". Worn through much use, and mounted on old stout grey paper.

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B.12 Plan of Sunside Lead Mine, 1817. By Nathan Newbould. (Not in box, when this catalogue made).

B.13 "A Section of the workings in Sun Vein". "Horizontal - 11 feet to an Inch. Perpendicular - 10 feet to an Inch". Three Shafts shown: Maiden Engine, Kirk Shaft

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and Forefield Shaft, running onto “Old Mans Level” and “Sun Vein Low Level”, by means of Top Drift and Sumps. Paper, brown ink. Size: 12” x 23”.

B.14 “Plan of Sunside Mining Ground, situate at Bewerley in the County of York. Agreed to be Leased by the Trustees of the late Sir Thomas Woollaston White Bart., to Messrs. Thomas Hepper and Co. 1824”. “Scale 8 Chains to an Inch - by N. Newbould and Son.” Paper, area yellow bordered, North sign. Area covered: North and South Coldstones, East and West Galloways and Blackriggs with Cockhill. A good example of a lease plan. Size; 17” x 18”.

B.15 “Plan of an intended Level referd to by an Agreement Between Edward Cleaver Esq. & Co. & Messrs. Richard Ward & Co. By Nathan Newbould” Feby 29th 1808,” all in grey painted scroll cartouche. Coloured star North point. Green Grooves Vein shown with “Sunside low Level” and “Sunside Low Crosscut”, both in blue with “The intended Level to be made by Mr. Richard Ward and Co.”, shown in red, other notes in ink. Paper. Size: 15” x 17”.

B.16 Plan of Meers. Birch and Co., Sunside. “Scale 22 Yard to an Inch”. Interesting as the meers in length and width are here shown coloured in blue and yellow. (Mangham & Co. in blue, Birch & Co. in yellow) Meers are shown as twice 8 yards in width on the vein. Shafts on Astonishment Vein shown, together with New Shaft and Manghams Shaft. Size: 19” x 38”, border.

B.17 Plan of Harding, Kezle and Folly Veins, with East Gin Shaft and Haid Vein Level, onto Sun Vein. Ink on paper. North sign, no border. c.1810. Size: 22” x 24”.

B.18 Unfinished plan on grey paper. Plan of Hezle. Hannam’s String – Sunside. No title or border. c.1810. Size: 18” x 21”.

B.19 An old working plan of Cockhill and Sunside Mines. No title, in ink and pencil with many shafts and veins noted. c.1816. Stained paper. Size: 29” x 39”. With an old sketch of a church (Greenhow Church), in one corner of plan.

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B.20 Unfinished plan of North Coldstones Waterhole Vein. By W. Newbould. In pencil on paper. North sign and unfinished section. c.1825. Size: 21” x 26”.

B.21 Plan of part of Sunside Vein. With level mouth shown, level shown in pink, with vein and string. North sign. Scale: 8 fathoms to 1 inch. Paper with border. c.1820. Size: 11” x 21”.

B.22 Plan of Cockhill level and Cross Levels with Measurements of them". With some surface details. Boundaries of leases coloured. Paper and ink. c.1820. Size: 19" x 20".

B.23 Sketch plan on tracing paper. Cockhill, Clockhead and Gillfield Level. North sign, no border or title. c.1840. "Peter Grane Shaft" noted, also "Gillfield Level Mouth". Size: 21" x 22".

B.24 "Plan of Cleavers North and South Veins". "Scale 40 links to an Inch". Cleavers North Vein, Cleavers South Vein with Crosscut and various sumps, with Joint Level shown. No date. North sign, but unbordered. c.1820. Size: 21" x 26".

B.25 Plan of Blue Rigg Levels. Blue Rigg Low Level and Covenant Shaft. With other details in pencil. North Sign and scale 20 links to an inch. Size 18" x 23". c.1820.

B.26 Section of Cockhill Level (Coloured). Not in box when this catalogue made).

B.27 "Plan of the Principal Workings at West Galloways". "Scale 1 chain to an Inch, 1829". Ink on paper. Shows Galloways Vein, Dukes Vein, Galloways North Vein and various shafts named. Drable Shaft to east also shown, with three Pearson shafts. Paper, ink. Bordered. Size: 22" x 26".

B.28 Interesting coloured section of the strata, Greenhow Area, Entitled: "A Section of the Strata from the Top Grit which covers Hardcastle Moor, Green Moor & Nabs, to the Great Limestone on Greenhow and Coldstones. Scale 40 feet to an Inch". Marked, thus: Top Grit, 30 feet. Ellen Scar Plate, 150 feet. Sand Gill Grit, 48 feet. Sandgill Grey Beds, 48'. Fine Grit, 21'. Grey Beds, 120'. Undersett Plate, 141'. Top Lime, 8'. Top Lime Plate 6'. Undersett Grit, 96'. Plate, 8'. 2nd Undersett Grit, 48'. Plate 3'. Coal seam 2'. 3rd Undersett Grit, 21'. Lime plate 8'. Greenhow Lime, thickness unknown." Paper, coloured in yellow greys and blue. Size : 27" x 6". Undated. c.1820? Unsigned.

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B.29 An extremely interesting large Sheet, "A Section of the 3 Principal Veins in Working at Sun Side Lead Mine". "Longitudinal Scale, 66 feet, or 1 Chain to an Inch. Perpendicular Scale, 40 feet to an Inch. N. Newbould, 10th Feby. 1818". Paper and brown ink, with dull purple colour to show position of vein material. Drawing is in three parts, (a) - "A Section of Banks Vein", showing two shafts and various levels. (b) - "A Section of Sir Thomas Vein", showing various shafts and levels. (c) - "A Section of Blue Joke Vein", showing six shafts and various levels. Levels not named on this series of sections. Size: 27" x 50".

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B.30 “Plan of the Pump”. A section, showing a “sump top”, and details of a steam pump engine, drawn in pencil, with notes in brown ink. Undated c.1825. Size: 21” x 25”.

Manuscript Reports on condition of the Mines, Greenhow Hill.

(a) Manuscript volume, blue paper cover marked, “Reports”, “From June 1837 - June 1844.” These half yearly reports give an extremely interesting and valuable picture of the progress of the mines. Each report is Entitled, “Mines.” In Beverley belonging to Sir Thoms Wools. White Bart., Taylor White Esq. Buchan Warren Wright Esq. Wm. Kirke Esq. and John Manwaring Esq. Each report is divided into sections dealing with mines, “The Stoney Grooves”, “North Coldstones or Gill Field Mine”, “The Eagle Mine”, “South Coldstones”.

(b) A similar ms. volume, entitled, “Produce of Mines”, “From June 1837. An extremely valuable economic report.

(c) A further “Report on the state of the Principal Levels in the Greenhow Mines, with remarks on some of the veins and workings June 1844”, together with a fine small ms. plan bound in at the front.

All of the above three items are contained in the original old paper file, entitled, “Eagle Level, Sunside, Prosperous and Providence Mines, 1837 to 1844. Michael Colling, Agent”. With old string fasteners. Size: 12” x 8¼”.

(d) A group of Managers Reports on the Bryn-yr-afn Mine and Hafan Setts. c.1913. Contained in an old envelope.