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The papers of John Buddle, colliery viewer, in the mining institute, Newcastle on Tyne: an annotated list of assessment of their value to the economic historian

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THE PAPERS OF JOHN BUDDLE,
COLLIERY VIEWER,
in the MINING INSTITUTE,
NEWCASTLE ON TYNE:
An ANNOTATED LIST and ASSESSMENT
of their VALUE
to the ECONOMIC HISTORIAN.

F.S. HEWITT.

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Before any attempt to assess the value of the collection is made it is necessary to have in mind certain information about the collection and its creator in order to clear the ground as to its nature and origin.

The Buddle-Atkinson Collection.

The Buddle collection is comprised of fifty-four bound manuscript volumes of data on the Coal Trade in the late eighteenth and early nineteenth centuries, which are housed in a safe in the fire-proof document vault of the Institute of Mining and mechanical Engineers. (So valuable does the Institute rate them to be that during the 1939-1945 war they were removed from that place for safe-keeping and spent the years of conflict in the disused gallery of a North-East mine.) Not all the volumes are filled with data, for some have entries on only a few pages, but all are well preserved, and most are beautifully produced in a clear, copper-plate script. It is apparent that the contents have been copied from loose sheets into these books, probably by some clerk, and the data they contain is the resultant product of nearly seventy years of note-making and colliery jottings on all manner of subjects connected with the coal-trade. The early material is obviously that which was collected by Buddle senior and the rest by his equally famous, if not more famous, son, to whom we must be indebted for the work.

John Buddle Junior - Colliery Viewer. 1773 -10/10/1843.

Even a cursory glance at the collection should tell us that John Buddle was a very systematic type of man, with a meticulous professional interest in all aspects of mining past and present and of matters concerned with engineering in other spheres. The correspondence to be found in Volumes XV, XXII and XXIII alone witness to his complete absorption in his work and the sense of duty to those who employed him. But system alone is not enough to commend a man to his contemporaries, and because he was called upon so often to view and report on collieries other than his own it seems that his capabilities in all aspects of mining were outstanding; whilst the frequency with which he was called upon to witness before Parliamentary Committees testifies to his national - and even international- reputation as a viewer.

If any more was needed to add to the appraisal of him it can be found in the words of a younger contemporary, and one time pupil of Buddle, namely Matthias Dunn, who wrote this of him:

' After Thos. Barnes died John Buddle was called the greatest of the Viewers in Tyne and Wear and I do not think he was a whit behind Barnes, but rather before him ~~in~~ some things. He is a steady, sober young man who has proved himself to be a good pit viewer and he is fully acquainted with all the rules and customs that belong to a fiery colliery - he has experienced them himself more than all the great viewers ever did before him. When misfortunes happen he goes down along with the men and bides with them and sees that everything is done by his order for the occasion.

He does not spare the owner's money where it is necessary and he is so expert in every work that he will not let any man beat or deceive him - If he finds him out once he will not let him deceive him again.

And if by his constant practice and study he has gotten in the collieries many thousand chaldrons of coals that would have been buried in the earth at some light expense.

He has a good many apprentices and some he has made grand viewers - Mr. Nelson he ~~was~~ a grand viewer, so he put him in at Hebburn Colliery and none could dispute him a viewer of Buddle could have given him a good conduct' (1)

Whilst his name frequently occurs in all books concerned with the Coal Trade - e.g. Ashton & Sykes, Sweezay etc. - it is only in Galloway's work that we are given any biographical details. (2) For these our best source, other than Galloway, is his obituary in the Minutes of the Proceedings of the Institute of Civil Engineers - Vol.3 - Session 1844. There we can learn something of Buddle the man.

John Buddle's father, who was also named John, was himself a man of outstanding merit. Originally, it is thought, a miner he next became the village schoolmaster in Kyo, a village near Lanchester, where John was born in 1773, before returning to the Coal Trade as viewer; and it was in his father's school that young John received his systematic education - lasting one year.

(1) From a Manuscript Book - 'History of the Viewers' by Matthias Dunn - in the Institute.

(2) Galloway. 'Annals of Coal Mining' Vol. I. Pp. 308-9. Vol.II. Pp. 165.

Buddle Senior appears to have been a mathematician of some standing for he was a regular correspondent of Hutton (another ex-miner), Emerson and others. His systematic mind introduced a system of Iron Tubbing for the sinking of shafts, which it is thought, was first used at Wallsend.

Apart from his one year at school Buddle Junior was the pupil of his father at the colliery, for he became assistant-viewer to his father at an early age.

In 1793 Buddle Senior was appointed viewer at Wallsend and so began a connection with the Russell Family which lasted throughout his lifetime and that of his son. ((The Russells - of the firm of Russell & Wade, Bankers of Sunderland - had bought a tottering Wallsend Colliery, but shortly after, striking a very rich seam, began to amass a large family fortune. In 1796 William Russell bought Brancepeth Castle and Estate from Sir Henry Vane Tempest for £75,000, which explains why Volume II of the collection is almost entirely concerned with the Title of that place.)) That connection brought fame and fortune to the Buddle's, too.

John Buddle Junior. M. Inst. C.E. very soon established a reputation in colliery affairs. As a young man he had evolved a method of putting out a colliery fire by ' cutting the flame with a jet of water moved quickly across as one would cut off a flame of gas with a knife' (Minutes of the Civil Engineers. Vol III.).

On the death of his father in 1806 (See Vol. XV. P.154.) he succeeded him as viewer at Wallsend, where, in 1810, he introduced an improved method of ventilation; a subject on which he became an authority and on which his advice was often sought. As a consultant viewer and engineer his services were sought by collieries throughout the North-East and even further afield (see Vol. I.) as well as by railways and general engineering concerns. Whilst his work on the Forest of Dean Commission was highly valued and greatly influenced its success.

As time went by he, like the Russells, amassed a great fortune, estimated at £150,000, and became a proprietor of coal mines, landed property and shipping but even this is not as great as it would have been had he not been so charitable, for, in this way, much of his income was diverted into other needy channels. In spite of wealth his own tastes were simple and he remained a bachelor, living with his sister.

John Buddle seems to have been a man of superior intellect, with a keen interest in many local societies to which he contributed papers. The close dating of some of the reports, and the regularity of his correspondence, as witnessed by many entries throughout the collection, testify to the fact that he was a hard worker, but yet he did not neglect social intercourse. His home was always 'open-house' to visitors to the North-East and a haven to those who also worked in the field of science.

X. The North-Eastern Year Book for 1829 records that he was present at the official opening of Seaham Harbour when he presented a silver trowel to Lord Londonderry.

10/10/1843 Galloway records that his death was greatly lamented and that a tremendous crowd attended his funeral and the interment in Benwell cemetery - in land which he himself had given.

The panegyric of his obituary glosses over the fact that perhaps to many he appeared unscrupulous, but perhaps this point of view depended on which side of the fence one sat. To those he served, loyalty was the virtue he practised, going to great lengths in the jockeying for advantageous positions from which to further their interests. But to many others, perhaps those in the office of the Dean & Chapter (see Vol XV. P. 257-8 and others) those same qualities might appear as stubbornness and sharp practice.

With this review of what might be termed back-ground information we are now in a better position to proceed to an assessment of the collection.

The Buddle Collection - An Assessment.

My first step must be to establish some principles on which to base the value of the contents of the work; in this I think one has to determine

- (a) their authenticity;
- (b) The extent and range of the material;
- (c) the value of the material's content.

(a) The Authenticity of the Collection.

That it is an authentic source of contemporary material collected by the two Buddles there can be little, if any, doubt, for the collection was presented to the Institute of Mining and Mechanical Engineers by a surviving relative of the Buddles - a Capt. Frank Buddle-Atkinson, through the good offices of the Stella Coal Company. By a comparison of some data in the collection with that derived from other sources there can be seen to be a sufficient measure of agreement to justify the assumption that the rest is equally legitimate. (There is complete agreement between Tables 11 & 12 in Sweezy and Volume XIV, my Appendix XVIII, of the collection on figures for imports into London - in fact the Buddle table is much more detailed.) If we accept the fact that the collection is the work of Buddle - and I cannot see any legitimate argument for not doing so - then Buddle's personal knowledge, extensive travelling, first-hand experience, added to a habit of meticulously noting all that he heard and saw and did can give us some indication of the way in which the collection must have come into existence. Thus we can conclude with the premise that here we have a record by eye-witnesses (either Buddle Senior or Junior) of all that is recorded there; that it is a valuable source reading of various activities in the contemporary scene or it is a compilation of much from other sources that are no longer extant.

* Paul M. Sweezy - 'Monopoly & Competition in the English Coal Trade, 1550 -1850' Harvard Economic Studies Vol. LXIII.

(b) The Extent and Range of the Material.

Although the collection is both voluminous and detailed it cannot by any means be regarded as either systematic or exhaustive. There has been no attempt to collate material into a classification that is either chronological, geographical or by subject matter - except for some volumes which relate to a particular colliery (e.g Vol. IX Chopwell Colliery) or contain only correspondence (e.g. Vols. XXII & XXIII) or Boring Accounts (e.g. Vol. XV.). The rest is in wild confusion; it does not give data systematically over the whole period of the collection - which broadly speaking is 1770-1840 - nor does it cover the activities of all the Trade in the North-East.

Yet, in spite of these criticisms, it is a remarkable work. There is material copied from other sources, which goes back as far as the thirteenth and fourteenth centuries. There are detailed reports on collieries outside of the British Isles (See Vol. XXXIX Pp. 1-17 and Vol. XXVII. p. 12. on Sydney Colliery, Cape Breton, Nova Scotia.). There is a complete account of Committee meetings, specifications and costs of building what is now known as the A68 Road from West Auckland to Corbridge (See Vol. XI.). But apart from these notable exceptions there is a mass of material on all aspects of the Coal Trade, largely but not wholly, in the North-East. It is not written from any particular angle, but is, indeed, a testimonial to the catholicity of Buddle's own approach to his work; for it contains Technical, Legal, Economic and even Social material.

(c) The Value of the Material and its Content.

Perhaps the best way to evaluate the collection is by attempting to summarise and conflate what I have said in (a) and (b) thus; it is a private collection often made by reference to, or presence at, official sources, which, although limited in extent and period, is a useful check on other sources because it is so objective and so lacking, in the main, in anything that might be termed partisan spirit.

In speaking of the authenticity and range of the material I think we have already established that it is historical in nature, but my immediate concern is to determine whether there is sufficient material in the collection to warrant the attention of the economic historian. Here I would give an unhesitating reply in the affirmative; for whilst, as I have already stated, it does not cover the whole period of activity within the North-East, it does deal with much of it which will assist us in understanding the 'whole train' of events. The collection must be a valuable source of supplementary information to that derived from other sources and which were perhaps more chronologically complete, e.g. The Minutes of the Coal Trade Meetings at the Coal Trade Offices. But, from the lack of any information in existing works with which I am acquainted in published form, I am sure that there is some information here which is no longer available from any other source.

In attempting to estimate the amount of material in the collection of an economic nature I would suggest that approximately one half to two-thirds of

it would qualify. But even where the colliery reports are classified as 'technical' it can be of use ; many of them are concerned with improved working methods or ways of overcoming natural faults which, whilst they are referring only to 'improved ways', are, nevertheless, aimed at either increasing production or lowering costs. So, there too, we can get some of the background information which should help us to understand what appears in the balance sheets. Whilst talking of capital investment etc. it is a help to have drawings of the type of engine to be installed and these, too, are available in places.

The limitations of the collection that I have already discussed apply equally to the economic data, but still there is sufficient material here to give a detailed knowledge of the period. I have catalogued the material under various subject headings in attempting to classify it, but it is perhaps helpful if I gave some additional information on them. I shall here try to deal ~~them~~ with them in what is an approximation to the volume of that material in the collection, starting with the largest.

Leases, Rents etc.

It is only in a very few cases that owners of freehold rights worked the colliery for themselves, they either employed undertakers (i.e. someone who worked the colliery as a sub-contractor in their own right, employing their own men etc, at a fixed price per unit of output), or they leased the mineral rights to an adventurer. Leases tended to become more and more complex as time went on, and, because of past experience, to extend their clauses to include more items of a rather obscure nature concerned with the activities of the lessee (e.g. no shafts to be sunk, or pitmen's houses to be built within a certain distance of the hall.). Almost all quoted a fixed annual rent on a certain output, and any surplus production was charged at an agreed sum on the unit of output; this was known as surplus or tentable rent.

Whilst the entrepreneur ruled supreme in all other industries in the eighteenth and early nineteenth centuries, in mining we have limited companies and cartels; and in the Buddle collection there is often quoted the list of shareholders in a colliery, and through these one can trace the various activities of some of the kings of the Coal Trade.

Some of the leases are copied out in toto, and bulky documents they are, but most of the data concerning leases is in abstract form, giving the most important information, and consequently they are available in a form which gives quick and easy reference for the research worker.

Costs.

The number of balance sheets in the collection is very numerous and in most cases they are very detailed - in fact some volumes are nothing more than account books of a particular colliery (e.g. Vol. XXXVII) Some it is true give only totals without any indication of how they are arrived at whilst others are not complete yet throughout they are a fertile source of information on costs. There appears to

have been no standard system of book-keeping in the collieries and some emphasise what others neglect, but one could gain a clear view of the pitmen's wage-pattern throughout the North-East. Boring and Sinking accounts give a clear view of what was the major cost in capital developments, whilst there is continual reference to tenders and prices for engines and wagon-way materials. I offer my personal opinion that it is in this field that there is the richest field for further enquiry.

Valuations.

In many ways these are similar to economic reports but are more limited in their extent. The purpose of the valuation was to determine the worth of a colliery or a share in one at a given time; and in most cases it was the preliminary to the sale or purchase of such.

The methods of valuation differ considerably: some take into account only the estimated reserve deposits of the colliery and base their calculations on a current or rising market price; others take into consideration live and dead stock i.e. capital investment in engines, gear, wagon-ways, animal-fodder, horses and pitmen's houses - all estimated at the current depreciation figure, of course.

All are valuable sources of current prices and give an intimate view of the financial side of the trade; but where this is accompanied by discussion on the differences of approach in valuation and the different methods used in arriving at differing valuations then they are more than just useful. The valuation of anything at a given moment in time must inevitably be a relative assessment - a gleaming new car is of no value to a hungry sailor shipwrecked on a desert island - but when one is given some indication of the relative factors involved one can get a clearer understanding of what might be called 'real prices' or 'real values', which is not necessarily the sum of money paid by a person for a certain thing.

Reports. (Economic)

These reports often accompany a balance sheet and are in the nature of commentaries on it. Others deal with the costing of the work in hand. Some go so far as to discuss depreciation of capital, and percentage return on capital investment on an estimated output, preparatory to a new sinking. Again a very valuable source of enquiry which I will discuss later.

Many of the reports are the work of a number of viewers and consequently we can get a collective or independent - and sometimes conflicting - view on the most economical methods of working a colliery, or the establishment necessary to work it thus.

Weights and Measures.

The subject of weights and measures, whilst small in the amount of space it occupies, is nevertheless important. There was no standardised measure of a national character in existence within the period of our concern, and much confusion could exist without some source of information concerning relative amounts. Even the apparent universal measure of the chaldron was different in London to that on the Tyne. Consequently, contemporary records of the number of 'bolls per ten' etc.

cannot be overlooked as an important check on existing data.

Labour.

Under the heading of labour, or working costs, or colliery accidents we have information which helps us to build up the social pattern of the industry. Scattered here and there in reports and underlined by me in the catalogue are references to the unreliable nature of much of the labour as compared to, say, ponies in underground haulage. Some of the tables giving data from the 'bindings' are a useful source of information on the working establishment of a colliery and some seem to indicate that the Limitation of the Vend even extended to the regulation of the labour force.

In the accounts of accidents we are given a clear picture of the hazards to which all were subject in the normal routine of life underground. The work of Buddle on ventilation; Stephenson and Davey on safety lamps, whilst they did much to reduce the possibilities of danger, could not remove the total backlog of utter ignorance on the basic causes of accidents, even amongst those in control of the collieries.

The Place of the Collection in the Contemporary Scene.

Two important issues, one directly connected with the Coal Trade, the other of a general nature, were at work in the period covered by the collection on the economy of the country, and each had far-reaching consequences on industry as a whole and the Coal Trade in particular.

The long-drawn-out Napoleonic Wars had two direct effects on the Coal Trade the first was the loss of the very valuable European Markets in small coal; the second was the expansion of the national economy as it was geared to the war-effort and the resultant demand for more coal at home. There were other effects of a smaller nature which, when viewed in the national scene were of nuisance value only, but to the colliery owners they assumed, at times, quite major proportions, e.g. the impressing by naval frigates of keelmen on the Tyne and the consequent slow-down or stoppage of shipments in the coastal trade for long periods. (See Vol XV. P. 14.)

This was also the period of the Regulation of the Vend (Sweezy. Ibid. P.34) (He quotes 1771 as the start of the regulation proper and it continued in existence until 1845.). This was an institution entered into voluntarily by the Colliery Owners where they determined the amount of production for a given period for each colliery in an attempt to inflate prices by keeping the market in a permanent state of scarcity.

So we have a period of boom and increased demand accompanied by the restrictive practices of a coalition of the coal-owners to force prices up. Some authorities refer to a system of 'dead-rents' where a colliery owner would lease other collieries and deliberately leave them dormant to maintain the scarcity by restricting

their own output and denying access to coal measures for any new adventurers. Some would regard the whole set-up of the coal-trade in the period of the Limitation of the 'end as a highly artificial affair, so that any source of information which might produce fresh evidence on the finances of the trade within the period would be of immense value. This, I think, the Buddle Collection does. Without having analysed the contents of the collection closely I suggest that here is material which indicates that competition was freer and keener than some would suggest. Regulations there were; the Coal-Trade owners met regularly - although some of Buddle's correspondence suggests that the meetings were often stormy (See Vols, XV, XXII & XXIII) - but they ^{were} interested in one thing and one thing only, the highest possible return on their capital investment. In their attempts to gain this they worked on the principle of buying in the cheapest market and selling in the dearest. The regulation covered fairly effectively the activities of selling, but I suggest that it was in the buying market - i.e. rents and costs etc. - that competition amongst the owners was keenest. It is possibly in this field, too, that the Buddle collection can claim to be of greatest value.

It is true that other sources may be more comprehensive, but the value of the collection lies in its creator e--- one of the outstanding men in the development of mining, with a national and even international reputation, who, through his diverse activities has given us an 'intimate' view of the Trade.

Introduction to the Catalogue.

In order to give a clearer idea of the real nature of the material in the Buddle Collection I have extracted Volume III in some detail and Volume XIV in considerable detail - much of this information is contained in Appendices at the end of the catalogue for that volume - and although this is one of the most voluminous in the collection it can still be regarded as representative of the remainder.

The spelling of place-names is not consistent throughout the collection and so I have always rendered them as they are given - but no difficulty should be experienced in relating them to their modern equivalents.

Where any difficulty might occur in the use of 'Technical' or 'colloquial' expressions a good source of enlightenment can be found in a small book - 'A Glossary of Terms used in the Coal Trade of Northumberland and Durham' by W. E. Nicholson, Published by Andrew Reid, Newcastle, in 1881 - and I have quoted from this in the short glossary below.

- Barrier → A breadth of coal left against an adjoining royalty, for security against casualty arising from water or foul air.
- Bindings - The time at which the yearly bond used to be signed.
- Double working - Two hewers working together in a board or wall.
- Laid in - A pit that has ceased working for an indefinite period.
- Landsale - Coals sold at the pit's mouth and taken away in carts.
- Lordship - A mineral property or royalty.
- Off-hand men - All colliery workmen except hewers and putters.
- Wailers - Boys employed in the wagons to pick out any stones or brasses which have escaped the observation of the screenmen.

(T) = Technical Data.

(E) = Economic Data.

(L) = Legal Data.

X = A good source of economic information, often to be found in great detail. Red lettering or lines is the key to either my observations, or to points of considerable interest.

Page	SUBJECT.	REFERENCE.	DATE.	NOTES
1.	Colliery Report (T) (E)	Workington. "		<p>Part I. Technical survey of workings in the various pits - plans and diagrams.</p> <p>Part II. Relative table of coal measures + analysis of home consumption of coals.</p> <p>ii. Calculation of annual vend per landsale and sea-sale. -</p> <p>iii. Cost of horse feed.</p> <p>iv. Wage and trade rates. Details off-takes (e.g. Workmen and agents pay for their coals - rent of workmen's houses £2/10/-, to £5 p.a.)</p> <p>v. Selling prices of coals.</p> <p>Part III. Data on engines in use at the pits with details of their work.</p>
	FROM PAGES 13-15 WE HAVE FACTS AND FIGURES RE WAGES, COSTS, OUTPUT WHICH GIVE A GOOD SOURCE OF COMPARISON WITH THOSE FROM DURHAM/NORTHUMBERLAND.			
2	C. Report (T)	Workington.	1816	<p>Measures to be adopted for the management of colliery. (suggestions for economic methods of working)</p> <p>Specualtion on possible output as result.</p> <p>Specifications of inclined plane at coll..</p>
3	Coll. Plans (T)	Chapel Bank Coll.	1814 29/12.	Eye sketch of colliery.
4	Coll. Reports (T) (E)	Workington. WORKING COSTS	20/8/ 1816.	<p>Technical report.</p> <p>Reference to system of accounting on a fortnightly charge system.</p> <p>Abstract of Working costs of the 4 pits</p> <p>Total charge of 4 pits (presumably p.a.)</p> <p>Estimated expense of sinking Union Pit to 4 foot seam</p> <p>do. Isabella</p> <p>Estimated costs of pumps for Isabella.</p>
	MENTION OF WAGE REDUCTIONS OF $\frac{1}{3}$ AND CALCULATIONS OF NEW COSTS BASED ON THIS. THERE ARE SOME USEFUL FINANCIAL STATISTICS HERE: BUT AS THEY ARE NOT BROKEN DOWN SUFFICIENTLY (e.g. Taxes, horses, salaries and sundries are lumped together) IT IS DIFFICULT TO GET AN INTIMATE VIEW OF COSTS.			
5	Coll.			

Volume: 1.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
5	Coll. Report. (T)	Workington.	20/10/ 1817.	Technical report on working and suggestions for improvement of methods. Passing reference to price of coal on board ship
6	do.	do.	20/10/ 1818.	Technical report on present state of workings.
7	do.	do. Capital Costs.	Jan. 1820.	Annual report on state of workings. Suggestions for future. Estimate of capital outlay in proposed improvements.
8	do.	do.	9/1/ 1821.	Annual report.
9	(do. (E) (T)	do.	18/9/ 1822.	i. Rating assessment for the poor based on colliery profits. Profits 1818-1821. ii. Output figures for 1818-1821. iii. Capital investment. iv. Technical report. Good source of economic data.
10	do. (T)	do.	22/12/ 1823.	Annual report and suggestion for future developments.
11	do.	do.	3/10/ 1837.	Technical report including a detailed review of the Harrington Pit.
12	do.	do.	27/9/ 1837.	Technical data relative to the working of the Workington group of collieries ; e.g. Plans, sections, elevations.
<u>The End.</u>				

Volume: 2.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1.	Freehold. (L) MR. RUSSELL, BUDDLE'S EMPLOYER, OWNED BRANCEPETH CASTLE AND ESTATE. THIS CAN BE THE ONLY REASON FOR ITS INCLUSION IN THE COLLECTION. EXCEPT FOR FREEHOLD TITLE EFFECTING VARIOUS COLLIERIES ON THE ESTATE ITS REFERENCE TO THE COAL TRADE IS BUT SLIGHT.	Lordship of Brancepeth.		This is a full copy of the freehold title of the Lordship of Brancepeth from the 16 th & 17 th Centuries. All written in Latin.
2	Attainder (L)	Charles, Earl of Westmoreland	1669.	A copy of a document in English (1669) which is an act for the Confirmation of the Attainder of Charles, Earl of Westmorland.
3	Tresspass (L)	Bulbeck Manor Northumberland.	1802.	Case for the opinion of Mr. Sergeant Shepherd (Fee 3 guineas) re the right of <u>free warren and hunting</u> on the Manor of Bulbeck in the County of Northumberland
				T

Volume: 3

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1-8	<p>Leases & Freehold. Disputes re Tresspass in underground workings. (T) (E)</p> <p>Full evidence of the visits to the workings of the three viewers is presented as detailed evidence to the court, thus providing a clear indication of the means of tresspass and the causes and results.</p>	Shiremoor 21/9/1808 Colliery & Backworth Royalty.	Aug. 1809	<p>Affidavit of Messrs. Buddle Ramsay & Taylor (Viewers) on Shiremoor Colliery & Backworth Royalty.</p> <p><u>In Chancery.</u> Between Ra. Wm. Grey Esq., & Eliz. his wife & Sir Matthew White Ridley Bart. Plaintiffs and Hugh, Duke of Northumberland. Defendant.</p> <p>Evidence of the Viewers as to whether coal had been worked by outstroke from Shiremoor Colliery out of Backworth Royalty - 1808. <u>Conclusion:</u> That Murton, Shiremoor & Backworth, due to the absence of a barrier and from the direction of the pick strokes had all been wrought in common. As the Duke's lessees were working iron & coal from Murton, where Blacksmiths and wright shops had been erected, and as they were paying double rent for the damage, with no opposition from the proprietors then work should be resumed as, with Grey's coal nearly exhausted, the coal was wanted from Backworth. The estimated loss to the Duke due to the court injunction was £1,000 per annum.</p>
9-11	<p>Leases & Freehold. (T) (E)</p>	Coxlodge & 16/8/1809 Kenton Colls. Proposed lease of neighbouring Fawdon coal.	8/1809	<p>Letter from John Watson to Buddle asking him to intercede on his behalf with Messrs. Knowsley, Chapman and Co. (Owners of Fawdon Estate) to accept Watson's offer for the lease of 50 acres of coal. Mentions provisos to leave boundaries of 40 yds. of coal on Coxlodge boundary and 60 yds. on the Fawdon North boundary.</p> <p>(Detailed map and plan accompanies letter.)</p>

Volume: 3

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
12-13	1. Leases. (E) 2. Costs. (E)	1. Fawdon Estate. Buddle Letter re Lease to Coxlodge Coll. 2. Analysis of Costs for Outstroke work.		<p>Letter from John Buddle to Jasper Watson (Hexham) solicitor for Knowsley, Chapman and Co. re the working of Fawdon coal by outstroke from Coxlodge. Suggests Mr. Riddell of Fawdon should get outstroke Rent on Fawdon coals out of Coxlodge Barrier.</p> <p>Quotes current figures for Outstroke Rent as 7/6 per Ten made up as follows: For breaking Barrier underground 2/6 per Ten " drawing coals up shaft " " " " " Heap Room and Wayleave " " " "</p> <p>But, here, as the privilege is an indulgence suggests figure of 9/- per Ten. Balanced intercession as arbiter.</p>
14-17	Reports. (T) (E)	Swindon Coll.		<p>Report of J. Buddle to B. Riddell Bart. re Mr. Cummings working of Colliery.</p> <p>1. Contains detailed Technical report on the working of the Colliery.</p> <p>2. Costs of Working the Colliery.</p> <p> Gives analysis of Farming Out costs.</p> <p>A Mr. Proudlock to win the coal for Mr. Cummings, the proprietor. Selling price 4/- per Fother. Reasons given for expected rise to 5/- per Fother.</p> <p><u>Buddle Comment.</u> Colliery not worked according to the terms of the Lease in that the stipulated number of pillars are not being left. The system at work, however, is preferable to that in the Lease. (Good description of Colliery workings and relative positions.) <i>Data on costs.</i></p>
18	Colliery Disasters. (T)	Whitehaven Coll. Flooding. Letter from Earl of Lonsdale. 22/11/1809.		<p>Letter asking Buddle to proceed to Whitehaven as soon as possible accompanied by an experienced viewer to give assistance & advice to Mr. Bateman there, following a breakthrough of water into the Colliery workings.</p>

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
19-21	Colliery Disasters (T)	Whitehaven Coll. Flooding. Buddle Findings.		Preliminary Report following survey of the Colliery. Cause of Flooding.
22-24	Colliery Disasters. Reports (T)	Whitehaven Flooding. Official Report.		Technical Report on causes of disaster and methods of combating. <u>Opinions:</u> Water will dry up in less time than it will take to construct the dam. Accident not caused by negligence on the part of the manager. (Good detailed 'on the spot' weighing up of causes and treatment of break - through.)
25-27	Colliery Disasters (T)	Whitehaven Disaster. Mr. Bateman's Framedam.		Technical data on the placing and constructional details of the dams with supporting sketches and plans of the workings.
22-28	Estate Surveys. (T)	Jesmond Estate Valuation of Coal Measures.		Buddle report on an attempt to assess and value the coal measures in the Low Main Seam on the Jesmond Estate for W. Hodshon Esq., Difficulty expressed because of the lack of borings. The nearest being on the Town Moor and at Heaton. (1) The Town Moor boring gives favourable account of the seam. (2) Heaton 'quite the inverse'. Suggests the boring of the Low Main Seam at a central point of the Estate. (His disinclination to give an opinion without the necessary Technical information reveals a certain professional integrity.)
28-30	Haulage - Costs and Agreements. (E)	Kenton & Cox-lodge. Terms for leading coals.		<u>Lists:</u> Details of costs per chaldron per mile on wooden way and iron way. Contractors responsibilities. Contractor to have a sufficient number of wagons. Limitations placed on the number of journeys per wagon per week. Conditions re stables and housing of workmen and their employment when not leading. Good analysis of haulage costs & methods of haulage from Coll. to Staithes.)

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30-31	Haulage - Costs & Agreements. (E)	Kenton & Coxlodge. Excessive Haulage Costs.		Detailed costing for the feeding of a horse and comments on the comparative costs to other horse owners. (Interesting comment on the excessive profits of the hauliers)
32-33	"	"		Detailed estimate for prices for all aspects of haulage work and comments on coal prices. Effect on haulage costs by the erection and use of a staithe on the Tyne. (Good costing data. Effect on coal prices of individual collieries of situation (Geographical) etc.)
34-38	Costs, Profits & Reserves (E) (Good source of background information for a Colliery, Data for comparison of Labour Costs.)	Hebburn Colliery Balance Sheet	23/10/ 1809	Attendance roll of shareholders. Survey of reserves and output at Jarrow, Hebburn and Dean and Chapter Collieries. Detailed balance sheet for the year. Information for the necessary materials and their prices and their place in costing.
39-41	Valuations (E)	Elswick Colliery	31/12/1809	Full valuation of the Live and Dead Stock of the Colliery. Information given under two headings: (a) Value of material including workmanship. (b) Value of the materials as using stock or the sum they would be worth to an undertaker and to stand to his debit as dead stock. (Lists materials required, buildings, machinery and animals and the original value and value after current depreciation)
41-43	Costs, Profits & Reserves. (E)	"	31/12/1809	Report and estimate of the profit which should be made by this Colliery which is newly won and about to start full scale production at an estimated 18-20,000 chaldrons of ship coal per annum after a few years. The assessment, because there is no past record of work for the Colliery, is hypothetically arrived at and the whole method is recorded. Estimated value £26,000.

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46-47	Valuations (E)	Hartley Coll. Dec.	1808	<p>Valuation carried out by Messrs. P. Crowther, J. Robinson, J. Stoker, P. Russell, T. Stanton.</p> <p>Inventory of stock in hand and their current valuation under following headings: Timber materials. Cast Iron, Wrought Iron, Brass, Copper and Lead Materials.</p> <p>Total.</p> <p>Each section of Colliery listed. (Less detailed than Buddle's own valuations, but good source of figures for comparison with his own.)</p>
48-49	"	Percy Main Colliery		<p>Detailed calculations given after viewing the Colliery to estimate the reserves and their value.</p> <p>20 yrs. Lease remains giving estimated worth to a purchaser of £170,682.</p> <p>Good review of costs.</p>
50-54	Colliery Surveys & Leases.	Walker Coll.	22/2/1810	<p>Questionnaire submitted by I. Cookson Jnr. (Mayor) and the Council of Newcastle to Messrs. Fenwick, Buddle and Hill re Walker Colliery—previously worked to some extent. Purpose of enquiry to determine whether it would be profitable for the Council to lease the Colliery to some adventurer. Estimates given of remaining reserves and opinions expressed on the profitability of opening up the seams. (At that time obviously marginal reserves) The position of Walker Colliery and its danger of being flooded from Lawson's Main Colliery where the Lessors were working into the barrier with the Byker Old Waste (flooded) was discussed.</p>
	Good review of the state of the Colliery, the measures and particular reasons with regard to them and the factors to be enquired into in the leasing of a Colliery.			

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
55-56	Colliery Reports (T)	Hebburn Coll. Creep.		The problem of 'Creep' (a) Its effects on the workings and how to deal with the problem. (b) Suggestions for dealing with 'Inflammable Air' in the workings as a result of, or from, the Creep. (Reference to Dumb Drifts method of ventilation(?).) (Good Technical information on how to deal with a major mining hazard.)
57-59	Colliery Surveys. (T) (E)	New Washington Coll. Coal Reserves 24/3/1810		Report on the state of the Colliery. What is worked. Reserves remaining. Lists output figures over previous 7 yrs.
60-61	Do. (E)	Do. 31/12/1809		Synopsis of Freehold and Common reserves. (Good table of Statistics detailed Seam by Seam).
62-65	Costs, Working.	Kenton, New Pit.		Costing Estimate for coals at Bank - Detailed calculations given. Table of Costs for all necessary items. Estimated figure (18/6 per score = 11/1 per chaldron) did not include Engine - keeping, Colliery and Way-leave Rents, Agency, Stationary etc. and is therefore to be regarded as pure WORKING COSTS.
66-73	Colliery Reports (T) (E)	Whitefield Colliery. Chopwell & Stella Grand Lease.		(A very detailed and useful survey on reserves, output, quality of workmen, costs. (1) State of Seams in Colliery. (a) <u>Chopwell</u> . Pits had proved uneconomic in the past but were now being reopened. (Buddle expresses doubts on the consistent thickness of the seams now worked and the quality of their coal.) (b) <u>Stella Grand Lease</u> . New Sinkings at other side of Grand Dyke. Many snags and dykes had made working of measures most uneconomic. Trouble from Fire Damp (Reports some fatal accidents.) <u>Workings and haulage</u> . Horses not possible. Barrowmen (men and boys)

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
69				<p>Uneconomic - 'uncertain, vexations and expensive'. Boys difficult to recruit - can find better employment elsewhere in pits with thicker Seams.</p> <p>Lists failings in character of such workmen.</p> <p>Sinking New Pit- Such an expense (complete with Steam Engine) plus costs of conveying coals to river would price them out of the market.</p> <p>New workings to be at 80 fathoms (old were at 40). Suggests use of GALLOWAYS (ponies) for putting as imperative. Not cheaper in costs but 'Owner can command the work of the horses with a degree of certainty not to be reckoned upon where boys only are employed in that species of work'.</p> <p>With use of Galloways in narrow seams it would be necessary to cut Stone Drifts, thus adding to Costs, and offsetting any saving in haulage.</p>
70				<p>Lists ways in which shallow pits were less costly to run e.g. few <u>candles</u>.</p> <p>Gives reasons why it is not possible of economic to sink deep pits as near to each other as the shallow ones (Agreements with Bp. of Durham necessary plus the payment of Wayleaves.</p> <p><u>Colliery Risks.</u> Narrow Seams, near to each other, great weight of incumbent strata subjects them to Creep resulting in great 'Loss of mine and increased danger from Fire Damp.</p> <p><u>Suggestion re making pit more economical.</u></p> <p>(a) New winning to be sunk at Styte Gate (1 mile from river)</p> <p>(1) To touch Barlow Field Seam (not possible in present workings)</p> <p>(2) To reduce haulage costs in being only one mile from river,</p>

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
70				<p><u>Suggestions re making pit more economical</u> - (Continued.)</p> <p>(3) Convenience of despatch when staithe is aground. (4) Hope that Seam will produce larger coals suitable for the London Market. (5) Hope that old Seams will turn out well in the new winning." (6) If these old Seams are easily tapped then pit will be of considerable duration. signed J.BUDDLE Snr.</p>
74-75	Leases (E)	Stella Grand Lease Coll.		<p>(1) List of Shareholders. (11) Details (Financial) connected with the renewal of the lease of the colliery. (111) Record of Output from 1798-1809. (IN view of the tone of the previous report it is interesting to note the rise in output over these years.)</p>
76-82	Colliery Valuation	Kenton & Coxlodge. Estimate of value of Lessees interest. 16/4/1810		<p>The estimated valuation is hypothetical because the present colliery will run at a loss until the new shaft is sunk and is working to full capacity. Records data on which he bases his findings: e.g. New pit will not be working for another 9 months. (Annotated list of premises on which bases his estimate)</p>
78-82	Very detailed budget of output (Valuable detail of stock and			<p>and Costs. Almost complete balance sheet. prices involved in winning coal.)</p>
84-91	Colliery Reports (T)	Hebburn Coll. Creep. 9/4/1810		<p>Questionnaire re Creep to Messrs. Fenwick, Watson and Ramsey. Good material on Technical questions of the problems of Creep and how to deal with them. Brings in much incidental information on the mine and its workings. e.g. Life of reserves. Could pillars crushed by CREEP still be worked for profit? etc.</p>
92-98	"	"		<p>FURTHER COMMENTS ON PREVIOUS QUERIES.</p>

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
99-113	Costs, Profits & Reserves	Hebburn Coll. Reserves & Profits 22/5/1810		A detailed list of premises and a costing analysis. (The latter part of the balance sheet is not complete)
114-118	" (E)	Hebburn Coll. Valuation 1/6/1810		A full balance Sheet with a good survey of overhead and working costs. Latter part of the balance sheet is not completed.
119-120	Colliery Surveys (T)	Walker Coll.		Further reference to the tapping of the coal measures as a result of developments since the last report. (1) Query concerning the working of pillars in the waste of Charlotte Pit and the possibility of weakening the barrier with the Lawson Main Pit by so doing. Replies from Messrs. Fenwick, Buddle, Watson and Hill suggest that the pillars could be worked with impunity. (11) Break through of water from the Byker Waste into Lawson Main prompts the further query as to whether The Viewers still incline to their previous views re the working of Charlotte and Jane Pits. Reply: Events have confirmed and not altered their previous replies to which they still subscribe.
121-123	"	Hebburn Coll. (T))- Creep 5/7/1810		Query from Hebburn Colliery to Messrs. Steel, Watson, King and Hill to view the state of the colliery and report on the progress of the Creep since C Pit closed on the 27th April; and its effect on the long coal barrier. A list of queries was submitted for them to answer. The ultimate purpose was to ascertain whether it was feasible to re-open C Pit after the Creep had passed. A plan of the proposed ventilation scheme accompanied the queries.
124-126			7&9 /7/1810	Detailed replies to the queries by the appointed viewers.

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
126-129	(I) Coll. Survey (T) (11) Leases (E)	(1) Walbottle Technical Survey. (11) Snoker Proposed Lease.		(1) A complaint by the Duke of Northumber- land (per D.W.Smith) that the Lessees of Walbottle Colliery are selling Fire Clay with without paying any leave. Requests observ- ations. (11) Request for observations on the lease of Snoker Colliery to W. Robinson (Gate- house) who has offered £20 per annum. Details of Lease.
130-134	Colliery Surveys (E)	Walbottle Coll., Surveys - Fire - Clay; costs & rents.		Buddle's reply to queries regarding Walb- ottle Colliery Fire Clay. Cross section views of the strata and objective summarisin of the costs of winning fire - clay. Final suggestion as to possible Leave-Rent to be charged. ₤
154-156	Leases & Rents (E)	Snoker Coll.		Buddle's reply with regard to Lease of Snoker Colliery. Suggested rent. ₤
135-136	Leases (E)	Upper Lintz. Outstroke Trespass 23/7/1810		Tresspass from upper Lintz Colliery into Tan field Moor. Survey and Report after preliminary inspection to assess the amount of COAL TRESSPASSED BY OUTWORKING FROM LINTZ AND SUGGESTION of compensation. FOR THE AMOUNT OF COMPENSATION. (Gives various suggestions for the re- payment for loss of coal by tresspass.)
137-144	Colliery Valuations (E)	South Heaton & Urpeth Colls. Valuation on Bankruptcy.		Valuation of South Heaton and Urpeth Collieries following upon the bankruptcy of Messrs. Harrison, Cooke & Co. ₤
139-142 143-144	South			Urpeth Colliery South Heaton Colliery. (Detailed balance sheets giving valuable statistical data) ₤
145-154	Colliery Reports (T)	Washington New Coll. Aug. 1810		(1) A detailed review of the four seams of the Colliery with cross-sectional diagrams of their composition, quoting the quality of the coal. Reports on the extent to which each seam is worked out and the reserves remaining.

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145-154	Contd. Report	New Washington		Comment by Buddle on his monthly inspection of the colliery Mentions the effects of the loss of the Baltic and Continental trade in inferior coals on profits - Loss of trade as a result of the Napoleonic Wars.
157	Reports (T)	Lawson's Main BYKER	10/9/1810.	Letter requesting to view the colliery and to suggest methods of winning the remaining coals. This is to determine a settlement with the lessees who are bankrupts.
158-61	Do	Do		Report. This is highly critical of the lessees, and quotes a clause in the lease referring to the drowning of the workings as sufficient authority for the owner to discharge them from the lease. Introduction to the possible results from a bad company using bad methods.
162-3	Reports (T)	Felton Moor RALPH RIDDELL ESQ	1/10/1810.	Report on the advisability of reopening the old workings on a small scale to provide sufficient coals for the needs of Felton House. Makes strong observations that the manager appointed must be a man of integrity and competent knowledge if the venture is to succeed. This represents a possible attempt by Buddle to raise the standards of management.
164	Reports (T)	Shilbottle	27/9/1810.	Request from W. & D.W. Smith - Commissioner (Alnwick) to view the colliery due to a request by John Taylor - the lessee - for an abatement.
164-71	Do (E)	Do	13/10/1810.	Buddle's report covering the general management and economy of the mine. (Valuable source of financial statistics giving insight into some of the social and legal factors of mining, e.g. the binding of colliers)

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172	3	Estate Surveys. (T)	Hilton Estate.	17/10/1810.	Report of a survey of the estate and suggestions for boring to ascertain the extent and thickness of the coal measures. The present report is based on a survey of outcrops in quarries and the river. It is a well informed speculative geological survey.
174-	5.	Colliery Reports. (T)	Hartley Coll. Nightingale Pit.	18/10/1810.	Result of a survey on behalf of Mr. Thomas to ascertain whether the Lessees might work part of the pillars in the Main Coal Seam without injury to the colliery.
176.	Do.	Do.	Do.		Letter in connection with the above giving further recommendations to ensure safety.
177	9.	Estate Surveys. (T)	Fishwick Mains.	24/9/1810.	Survey as to possible coal measures beneath the estate. Review of strata visible in Bourn-side (=burn=stream). Lists stone in strata and reasons for supposing coal lies deep. Suggests suitable place for boring.
179	Do.	Private Letter	Do.		<u>Private letter to Burnet Grieve enlarging on the official report in which he warns the owner that the report, whilst valid, does not warrant him boring at his own expense. (Remarkable change of tone from the report. Possibly wishes to safeguard the interests of his client by suggesting that the expense involved would demand the capital of an adventuring company rather than a private individual.)</u>
180-	82	Reports (T)	Backworth.	12/10/1810.	A survey of the borings re the siting of a new winning.

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183-4	Reports (T)(E)	Shilbottle	27/10/1810.	Reply from the Duke via his commissioners giving observations of the previous report. (see. P. 165-171). Asks for frank opinion on the reduction of the rent. <u>Suggests that the lessee had deliberately short-worked to reduce the profits and thus have cause for reducing the rent</u>
185-7	Do.	Do.	4/11/1810.	Buddle's reply to the Duke's queries. Adheres to his first report. Gives additional reasons for the reduction of the rent By £300 p.a. to £800 for 12000 Tens and 1/4 for surplus workings. Introduces novel way for charging rent by basing it on the selling price of the coal at the pit head or at Alnwick. This is to insure against too great a rise in profit to the detriment of the lessor should the adjoining collieries close and so remove competition.
188	Estate Surveys(T)E)	Elvet Colliery	27/11/1810.	Report on Mr. Woodfield's field in relation to Elvet Colliery. Observations sought on whether a rent of 1/- per score paid by MR. Boulby is satisfactory. A rough sketch - lack of names and directions makes it difficult to orientate.
190-1	Do.	Do.	Dec. 1810.	Buddle's reply. Gives suggested rent as at present, then what it might be with certain other factors arising.
192	Reports (T)	Lambton	1/12/1810.	Report. Suggests advisability of an annual report.
193-207	Do.	Do.	Oct. 1810.	Report on the concern of the Lambton Family at the reductions in profits over the last few years. This gives a survey of costs and capital investment showing how bad policy can effect profits adversely. Good source of data on prices; e.g. colliers' houses, binding fees etc.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
208-	13 Valuations (E)	W. Peareth's Holdings.	31/12	<p>1810. Assessment of the share values at the time of his death in the collieries of Hebburn, Urpeth, Leefield, Walker & Harraton. <u>Hebburn</u> Total value of live and dead stock given - no details. Share = $\frac{1}{4}$. <u>Urpeth Colliery</u> leased to Harrison & CO. - quotes terms.</p> <p>Detailed analysis of the value of Peareth's holding to a would be purchaser in order to estimate the value of the estate.</p> <p>Figures given for <u>Property Tax Leefield</u>. Let to the same company</p> <p>Further detailed calculation of the value of the holding.</p> <p><u>Walker & Harraton</u>. No details other than the amount of stock on the premises. Share = $\frac{1}{4}$</p> <p>Total value of Peareth's estate = £38,383-10-7.</p>
214-	223 Reports(T)	Temple Main	14/1	1811. Questionnaire and survey report on reserves and new drifts.
224	Do.	Manor Wallsend	14/1	1811. Questionnaire and replies on technical aspects of colliery affairs and survey.
228-	232 Do.	Hebburn	23/1	1811. Following upon the exhaustion of the 'C' Pit report is required on safety measures and the working of barriers.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1- 2	Capital Costs (E)	Ryton Haugh. River Flooding.	1795	Balance sheet of a charge of making Weirs to preserve Ryton Haugh against the inundating of the River Tyne
	USEFUL DATA	ON COSTS OF WORK AND		WORKMEN'S RATES.
7- 21	Leases (L)	Ryton Haugh	1796	Copy of the Title of the Division of Ryton Haugh - 31/10/1796.
22- 23	do.	do.	3/4/ 1797	Questions and Findings on doubts arising out of the Division.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1-2	Production - (E)	Walker Coll (Dean & Chapter)	1800	Table showing fortnightly output from 1/10/1800 to 1/10/1801 of workings and leadings. Analysis of leadings showing <u>overworkings</u> over stipulated quantity and values of such. GOOD SOURCE OF PRODUCTION FIGURES.
2	Do. Rents (E)	Wallsend (D & C) Tentale.	1800	Table giving output of coals from Wallsend from 1/10/1800 to and with 1/10/1801. Gives stipulated quantity, total, and tentale rent due. NO BREAKDOWN OF FIGURES → GIVES TOTALS ONLY.
3.	Production (E)Rents	Heworth (D&C)		Total output only given i.e. vended and consumed. Tentale rent calculated.
4	Do.	Elvet Coll. (D & C)	1800	Fortnightly table of output from 1/10/1800 to 1/10/1801. Fell short of stipulated quantity therefore <u>no tentale rent.</u>
5-6	Rents -Tentale	Dean & Chapter Colls.	1800	Analysis table of rents due to Dean and Chapter from the following Colls. for period 1/10/1800 to 1/10/1801. Wallsend; Hebburn and Monkton; Heworth; Rainton; Elvet; Low Heworth. THIS ANALYSIS OF OUTPUT AND RENTS DUE ON TENTALE SURPLUS IS DETAILED OVER A PERIOD AND GIVES A GOOD INDICATION OF SURPLUS INCOME; OVER AND ABOVE GROUND RENT ACCRUING TO ONE OF THE BIGGEST LAND-OWNERS IN THE COAL FIELD; i.e. THE DEAN AND CHAPTER OF DURHAM.
7-8	Production & Rents (E)	Walker (D&C)	1/10/1801-1/10/1802	Fortnightly table
8		Heworth	"	Totals only
8		Wallsend	"	"
9	"	Heworth	"	"
10		Elvet	"	Fortnightly table
11-12	Rent analysis	All above	"	+Hebburn and Monkton; Rainton; Low Heworth.
13-14	Production and Rents.	Walker and Hebburn Wallsend Heworth Elvet	1/10/1802 - 1/10/1803	Fortnightly table with market analysis.
			"	Totals only
			"	Fortnightly table
			"	Toatals only
	Rent analysis	All above	"	+ Rainton and Westoe.

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Pge.	SUBJECT.	REFERENCE.	DATE.	NOTES
19-24	Production and Rents (E)	Walker & Hebburn Wallsend Heworth Elvet	1/10/1803 - 1/10/1804	Fortnightly table with Market analysis. " Totals only " Fortnightly table " Totals only " + Rainton and Westoe.
	Rent analysis	All above		
28-30	Production & Rents (E)	Walker & Hebburn Wallsend Heworth Elvet	1/10/1804 - 1/10/1805	Fortnightly table " Totals only " Fortnightly table " Totals only " + Rainton and Westoe.
	Rent analysis	All above		
31-36	Production & Rent (E)	Walker & Hebburn Wallsend Heworth Elvet	1/10/1805 - 1/10/1806	Fortnightly table " Totals only " Fortnightly totals " Totals only " + Rainton and Westoe.
	Rent analysis	All above		
38-47	Reports (T)	Heworth	4/9/1800	Request from owners for J. Buddle (Snr-?) to view and report on changes colliery re change of lessee. Report - Technical accompanied by sectional diagrams of seams.
47-50	Reports (T)	Elvet Coll.	2/12/1800	Petition by lessee (Messrs. Salvin) to use power from machine at spinning factory to aid in draining of coll. Report.
51-53	Reports (T) (E)	Do. Costs	2/11/1801	Balance sheet showing working costs per Score and calculated profit. Technical report.
				GOOD STATISTICAL DATA ON COSTS INCLUDING ANALYSIS OF WAGES.
54-56	Reports (E)	Rainton Coll.	Dec. 1803	Expenses of working coll. (WORKING COSTS)
56-57	Report (E)	Do.	2/1/1804	Report re the renewal of the Fine for Sir H.V. Tempest (lessee from D.&C.)
58-65	Do. (E) Production	"	4/1/1804	Report prior to fixing rent with lessees (Sir H.V. Tempest.) Gives vend for 1799-1803 as basis for calculations estimating new rent. Buddle opines that Coll. is required not to work (DEAD RENTS) - unprofitable - but is leased to guarantee way-leaves from other Tempest Colls. to the river.
				POSSIBLE MATERIAL FOR DISCUSSION ON DEAD RENTS AS (a) RESTRICTIVE PRACTICES, Or (b) GUARANTEED SAFEGUARDS TO PRODUCTION.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
66-77	Colliery History (T)	Rainton (D&C)	June 1804	A history of Colliery obtained from: (a) Rainton Arkley (East and West Rainton Colliery) now 75 and worked there since he was 11. (b) John Stove (East Rainton) now 65 and worked there since he was 8 years old.
78-80	Colliery Report (T)	Pittington (D&C)	27/4/1804	Report on mine which mainly supplies coal for burning lime at nearby Sherburn, Running Water and Moorsley.
81-84	Colliery Report. Leases. (T)	Shields Farm Colliery (D&C)	11/12/1804	Report (Buddle) to D&C for guidance on lease. Colliery no use as independent concern-worked out.
85-87	Colliery Report. Leases. (T)	Elvet (D&C)	June 1806	Report of Buddle. Following request by Lessee (Salvin) to extend workings under river into tract as yet not demised to him.
88-89	Colliery Report. Leases. (T)	Wallsend (D&C)	19/7/1806	Technical report on working of Colliery.
90		Heworth		
91		South Hebburn		
92		Westoe		
	Property Report. Leases. (T)	Shotfactory at Heworth. (D&C)	27/8/1806	Report by Buddle on intention of Easterby, Hall & Co. Ltd. to sink a shaft and erect thereon a Tower for shot manufacture and dangers to premises as result. Diagrams accompany.
96-97	Colliery Reports. (T)	Sacrison. (D&C)	26/7/1805	Colliery dormant for many years. Pit sunk to first Seam only.
98-99	Do. (T)	Wallsend. (D&C)	19/7/1806	Technical Report on current state of Colliery workings.
100	Do. (T)	Heworth.		
101		South Hebburn		
102-3		Westoe.		

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
103-8	Colliery Report. (T) (E)	Ferryhill & Westerton Mines. (D&C)	15/5/1801	Report following request of lessee (J. Jopling) to drive drift from present workings into adjacent Well Field. Estimates, reserves etc. and calculated rent.
Loose Sheet	117- Do. (T) (E)	Harraton Mountmoor Washington Fatfield		Incomplete data on Seams, depth, number of hands and Annual vend.

Page	SUBJECT.	REFERENCE.	DATE.	NOTES
1-10	Colliery Report.	Acklington Colliery.	13/10/1811	(a) Lease (T) (E) (b) Review of mine. (c) Output. (d) Map and Plan. Review of Capital and Working costs and extent of mine for any speculators' activities.
11-14	Colliery Reports. (T)	Lang-Benton	1/10/1811	Technical report to Earl of Carlisle is reply to queries re-working of Colliery by Buddle and Fenwick.
15-17	Do. (T)	Fawdon	5/9/1812	Letter requesting Buddle and Fenwick to view followed by their Report.
18-19	Do.	Do.	24/11/1812	Second letter (from Buddle only) re advisability of new winning and suspension of all activity in old workings.
20-23	Colliery Reports. (T) (E)	Acklington	18/12/1812	Further report as result of new borings by lessee. Professional opinion as to suitable rent.
24-27	Do. (T)	Waterhouse	13/12/1812	Profile accompanies suggestions for working colliery.
28-30	Do. (T)	Hetton	24/3/1813	(1) Request to J. Buddle from T. Fenwick to view and report on New Winning. Section of Strata accompanies questions.
Insert 31-33	Do. (T) Do. (T)	Do. Do.	12/4/1813	(2) Buddle's Report. (3) Further request on recent developments.
37-38				(4) Buddle's Reply.
39-45	Do. (T)	Walbottle	27/4/1817	Request from Owners to Buddle and Watson to view on Colliery. Their report in reply accompanies queries.
46	Colliery Reports (T)	Cowpen	1/3/1813	Technical report in reply to specific queries.

Page	SUBJECT.	REFERENCE.	DATE.	NOTES
51-53	Colliery Reports. (T)	Fawdon	16/6/1813	(a) Request to Buddle, Fenwick and others to view colliery. (b) Report on advisability of keeping open the colliery for resale of lease.
54-59	Do. (T) (E)	Waterhouse Colliery.	Dec. 1813	(a) In course of report largely Technical, states working cost of coals from each seam. (b) Suggests plan of working colliery.
60	Colliery Report. (E)	Waterhouse	24/12/1813	(a) Letter from S. Grigson to Buddle re Technical suggestions. (b) Letter from Buddle giving views on system of payment of colliery management which is to the advantage of managers rather than proprietors and thus results in 'Beggars my neighbour' coal prices.
	<p>MOST IMPORTANT REVIEW OF HUMAN NATURE AND ITS EFFECT IN ABUSE OF SYSTEM OF PAYMENTS. E.G. PAID ON TENS OF OUTPUT RATHER THAN PROFIT.</p> <p>IS THIS AN ATTEMPT TO FORM AN 'OWNERS MUTUAL TRADING SOCIETY'?</p>			
63-67	Coal Reserves. (T)	Hart Estate	27/12/1813	Technical Report on Strata of North-East and its bearing on possible coal measures in Hartlepool area by J. Buddle.
68-71	Colliery Report. (T) (E)	Hetton.	30/7/1813	(a) Request to Buddle and Steele to view and Report. Gives information on property available at New Pit e.g. Miners houses and cost of making same 'tenantable'. (b) Buddle and Steele's report. (c) Accompanying Estimate of Expense of completing the new Winging at Hetton. Good source of detailed capital expenditure.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
75-80	Colliery Valuations. (E)	Kiphill	29/9/1813	Valuation of Kip-Hill Estate. Coal reserves for Exors of late Thos. Rawson Esq. Good source of Economic data e.g. Calculation of reserves and estimate of their value.
81-86	Colliery Reports. (T)	Team Colliery.	14/1/1814	(a) Request to view and queries to be observed. (b) Report. (Technical on same).
87-95	Do. (T)	Byker	Jan. 1814	Technical Report by J. Buddle to Sir H. Lawson Bart.
	96			Section of Colliery.
97-100	Colliery Reports-Capital Costs. (E)	Manor Walmsend	20/4/1814	(a) Request to Buddle and Watson to view. (b) Report and Estimate of Expense of New Winning. Detailed Capital Costs.
101-109	Colliery Reports-Capital Costs.	West Wemys's Colliery	13/4/1814	Technical Report in colliery and estimated cost of increasing power of winding engine for new workings suggested.
110-113	Do. (T)	Felling	10/5/1814	Queries and Replies. Request to view follows disaster (no details given) of explosion) and attempts to assess suitability of: (a) Ventilation system. (b) Causes of accident. (c) Manpower force at work in the waste. (d) The establishment of underground officials. (as figures given)- Discussion on under-ground establishment.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
114-122	Colliery Reports- Capital Costs. Leases & Rents. (E)	Stanley	10/2/1815	(a) Review of lease and rent-Colliery had lain dormant. (b) Extent of Colliery and Wayleaves. (c) Terms for renewal of lease.
123-125	Do. (T)	Manor Wallsend	21/2/1815	Request to view. Technical report.
126-132	Do. (T) (E)	Urpeth	6/3/1815	(a) Request to view. (b) Report. Gives review of working costs.
133-138	Colliery Valuations. (E)	East Sleekburn	12/5/1815	Good source of economic data. (a) Output. (b) Reserves. (c) Expected profits etc.
139-140	Colliery Reports. (T)	Felling	18/11/1815	(a) Request to view } (b) Report } Ventilation.
	Do. (T)	Arkindale Lead Mines.	29/4/1815	Report re drainage and section of mines.
148-151	Colliery Leases. (E)	Hetton	11/5/1815	Request to view and Report on Terms of new lease of colliery. Expected vend and prices.
152-154	Colliery Reports. (T)	Callerton Colliery.	5&6/6/1794	Do. Technical Report by Rents given. Thomas Barnes.
155-159	Do. (T) (E)	Wallbottle.	5&6/6/1794	Do. Rents given.
160-164	Do. (T) (L)	Rainton Coal Mines.	25/5/1815	Request to view and report on whether colliery is worked according to terms of lease.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
165-170	Colliery Reports. Coal Reserves (T)	Hunthill	6/6/1816	Report on possibility of coal reserves on estate + sketch. Useful only for reserves-no attempt to value them.
171-176	Do. (T)	Rainton	15/6/1816	Further questionnaire and replies on working of colliery.
177-179	Do. (T)	Marley Hill	28/10/1816	Report on state of colliery and methods.
180-182	Do. (T)	Workington Glebe Coal	30/10/1816	Report. Do.
183-185	Do. Barriers. (T)	Cowpen, Camboise, Sleekburn.	18/1/1817	Technical Report-Barriers between 3 Pts.
186-187	Colliery Reports. (T) Water in New Sinkings	Rainton	4/2/1817	(a) Request to view and report on possible success of sinkings at present hindered by water.
188-193				Second report and suggested manner of progress. Diagram of Colliery.
194-208	Colliery Reports. Valuations. (E)	Deebank Coll.	25/2/1817	Gives calculated profit when Colliery is fully working Capital Costs and total value. (Relative quantities in Dee Coalfield. Estimated reserves.
209-213	Appendix			
215-226 + Insert Maps.	Colliery Reports. (T)	Urquhart Colliery.	4/8/1817	Dunfermline Coalfield.
	Do. (T)	West Wemys's Colliery.	6/8/1817	Technical Review of progress.

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
231-237	Ironstone Workings (T) Report.	Balgonie	17/8/1818	Technical report on workings.
238-243	Colliery Reports. (T)	Newbottle	18/10/1817	Technical Report on Propriety of working pillars.
243-251	Do.	Shilbottle	8/9/1817	Technical Report & Working Costs and Overheads.
251	Do. Output. (T) (E)	Newbottle		Memoranda. Extent of mines and Production.
255-262	Colliery Reports. Reserves. (E)	Washington New Colliery	5/6/1818	Estimate of Reserves and Capital Costs of New sinking to win some.
263-264	Estimates. Capital Costs. (E)	Vennymoor Close		(a) Estimate for sinking Pit to Main Coal Seam. (b) Estimate of laying stone drift "from 'B' Pit to 'F' Pit.
265-266	(a) Colliery Reports. (T)	Manor Wallsend	4/9/1818	Technical Report.
266 (b)	Canal Survey.	Tees to West Auckland.	16/9/1818	(a) Letter to J. Buddle and Watson from J. Cartwright (Stockton) re proposed survey for Council to aid coal export trade from South-West Durham.
266 (c)	Do. (T)	Do	"	(b) Fenwick, Steele and Buddle's reply.
266 (d)	" + Market Prices of Coal. (E).	Do.	"	(c) Report on Collieries on line and in the vicinity of the proposed Canal. Coals given relative value to Tyne or Wear coal and possible market price is quoted. Collieries Listed:- Ferryhill; Black Boy; Bitchburn; Etherley; Witton Park; Eden Main; Greenfield(or North Lees); Ramshaw; Norwood; Cockfield Fell; Butterknowle; Crake's Scar; Woodlands; Cow-close; Copley Bent; Brussleton; Shildon; Eldon.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
273-274	Canal Survey Do.	Wear Prices. Specific Gravities. Burning times	1818.	Table listing market prices on the Wear of various coals. Table of coals giving:- (a) the specific gravity of each brand (b) length of burning time of a given weight of each coal.
PROPOSED LINES OF COMMUNICATION AND EFFECTS ON COSTS. A GOOD SOURCE OF DATA ON RELATIVE QUALITIES AND PRICES.				
275	Market Costs. (E)	Shipping dues.		Table to show cost of shipping. 160 Chaldrons of Adam's Main Coals in River Tyne. Includes all expenses in Coastal Trip e.g. Coast duty, pier dues, Night office etc.
276-278		INCIDENTAL COSTS.		
279-292	Coal Seam Sections.	West Auckland Canal Colls.		Sections of Seams (& in one case strata) of all collieries effected by projected canal.
293-301	Colliery Reports.	Walker	4/12/1818	Request from T.King to Buddle and Watson to view colliery & comment on his report of his method of working.
302-308				Report on Colliery & methods of working.
309-311(a)	Do.	Do.	15/1/1817	(a) Request to T.King & J. Jobling for suggested methods of re-opening colliery as a paying concern.
311-316(b)				(b) Report by King & Jobling.
317-318				(c) Letter from King to Watson & Jobling re siting of engine.
319-320				(d) Reply to same.
321	Capital Costs.	Do.		(e) Estimate of Expense of re-opening Walker Colliery. DETAILED ANALYTICAL TABLE OF ALL COSTS.

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
322-324	Colliery Reports. (T)	Fawdon	24/12/1818	Request to Buddle, Fenwick & others to view & report on Colliery. The Report. Reference to output figures.
325-329 Y				
330	Do. (T)	Gateshead Park.	23/7/1819	Request to Buddle, Watson & Hill to view Report.
331-334				Report. Reference to vend, cost price, selling price & profits.
334-335	(E)			Memoranda on Colliery. Technical.
336-343	Working and Capital Costs. (E)	Do.	23/7/1819	Estimate of the Expense of Winning High Main Coal in Colliery. 45Acres. A highly detailed & comprehensive balance sheet of Total Capital & Working costs - calculated as cost per chaldron.
344-346	Colliery Valuations. (E)	Holywell Estate.	10/8/1820	Approximate estimate of value of Coal in Estate. Calculations based on Assessed reserves and market prices.
347-348	Colliery Reports. (T)	Hebburn	6/1/1821	(a) Request from W. Thomas to Buddle & Smith to view & submit replies to accompanying questions.
349-353				(b) Report. Includes estimate of reserves.
6				

Page	SUBJECT.	REFERENCE.	DATE.	NOTES
1	Leases. (E) (L)	Washington	17/1/1764	(a) Copy of a lease of a colliery in the Manor of Washington and Wayleave to the River Wear and Staith-Room there. Term 31 years from 25/3/1764-25/3/1795. By Sir Gilfred Lawson Bart and Robert Shafto Esq. To Mr. Newark Hudson and Partners. VALUABLE FOR RENTS (CERTAIN AND TENTALE) AND RELATIVE MEASURES OF QUANTITY; CAPITAL INVESTMENT INVOLVED, METHODS OF DOUBLE CHECKING OUTPUT. (b) Proprietors in 1784. (c) Map of colliery and wagon-way.
2	Wayleaves. (L)	Washington Wear Glebe to Weser.	25/3/1779	Copy of Agreement for a wayleave to lead coals from Washington Glebe to the River Wear. Between (1) Sir Gilfrid Lawson Bart. & (2) John Hudson; Matthew Carr; Edward Aiskell; John Stafford; John Taylor; and John Nelson. Term: 16 years from date.
3	(Colliery Reports) (T) Do. (T) (E)	Washington Washington	 26/2/1788 1788	(a) Copy Letter from Sir G. Lawson 8 Landsteward to J. Hudson & Co. for J. Buddle (Sen) to view colliery. (b) Copy of J. Buddle's (Snr.) first Report. 20/9/1788. Mainly Technical. (c) Output figures as reported by Mr. Shorter (Lawson's landsteward) (d) Copy of J. Buddle's (Snr.) second Report. 2/7/1789. MAINLY TECHNICAL DEALING WITH POSSIBLE RESERVES AND REASONS (i.e. CREEP) WHY SOME ARE LOST.
4	(Rents) (E)	Washington	30/6/1789	$\frac{1}{2}$ yearly a/c rendered to estimate rent due. ECONOMIC DATA ON OUTPUT AND RENT.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
4	(Rents) (E)	Washington	31/12/1789	Half-yearly A/C rendered to estimate rent due.
5	Colliery Reports. (T)	Old Washington	29/12/1790	Requests and Reports on Colliery submitted by James Ramsey and Ralph Stokoe. Technical-dealing with State of Maudlin seam and quality of coal-supposedly not merchantable.
6	Output.	Do.		Table of leadings for years 1789-1795.
7	Rents. (Balance Sheets). (E)	Do. 1st & 2nd half of 1790.		Half yearly accounts rendered to estimate rent due (as above) for year 1790.
8	Colliery Reports. (T)	Old Washington Midsummer 1791		Report on Colliery by J. Buddle (Snr.) (Copy). Technical-re Maudlin Seam coal.
9	Rents. (Balance Sheets) (E)	Do.	1791	Half yearly accounts re-rent- as above.
10	Agreements. (L)	Lawson-shafts	1764	Copy of an agreement between Sir G. Lawson Bart. & R. Shafto re-land and collieries.
11	Rents. (E)	Washington	1792-93	Half yearly accounts for 1792 rendered to estimate rent.
12		Do.	1794	Do. 1793 Do. 1794
+Loose Sheet.	13 Seams. (T)	Do.		Section measurements accompanied by sketch.
14	Wayleave (Agreement) (L) (E)		1764	Copy of agreement between: (1) Lawson and Shaftoe. (2) Ravensworth, Bowes and Bute.

DATA ON RENTS, LOADS, WAGONS etc.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
15	Outstroke Agreement- (L) (E) USEFUL DATA)-RENTS, LOADS, WAGGONS AND WAYS etc.	Washington Glebe into Shaft.	20/10/1795	Minutes extracted from Rough draft between Mr. Egerton (Glebe?) and Hudson and Ptnrs.
16	Rents. (E)	Washington Glebe. Washington	1795	Half yearly accounts to determine rent.
17	Wayleave. (L) (E)	Use of Washington by Urpeth.		Memo re-use of Washington Way by Mr. Peareth from Urpeth. Rent quoted.
Loose Sheet.	Leases. (L) Technical Report. Letter by Buddle. (T) (L)	Rector's Glebe to Partners.	1/12/1784	Copy of Abstract of Lease by Rector of Washington to Partners of Colliery adjoining land. Undated letter to unstated colliery leases giving views on legality of step they have taken to work Mandlin Coal.
18	Leases. (L) (E)	Washington Glebe. (Renewal)	11/7/1804	Offer made by Rector to his lessees re renewal of lease of colliery. STATISTICS RE RENT, etc. AVAILABLE.

Volume: 8. Being Material concerned with the collieries of Sir Henry Vane

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1 + 7	Articles of Agreement (L) (E)	Sunderland Port Facilities.	1/1/1800	Articles of agreement between (i) Sir Henry Vane Tempest Bart. & (ii) Certain fitters in the port of Sunderland for a period of one year. Agreement to sell a certain quantity of coal p.a. to the fitters and the conditions thereof - rotation of loading of keels and ships.
8-38.	Wayleaves - Agreements (L)	Gen G. Lambton and J. Tempest.	23/5/1792.	A deed of covenant concerning collieries and wayleaves between General J. Lambton and J. Tempest Esq. on :- (a) Hall Moor, Newbottle, Houghton-le-Spring. (b) Pensher Wood (i.e. Holly Well Bank) (c) Dog Hole Staithe. This lists the collieries effected. Rents, Conditions etc..
39 39	Abstract of Lease (L)	J. Tempest.		i. From Sir J. Eden's lease of Harrington Mill. ii. Other leases in (a) Newbottle. (b) Great Lumley. (c) Dubmires Moor, Newbottle (d) Stott's Close Pasture (e) Dog Hole Staith, Pensher Wood etc.. iii. by J. Tempest to (a) J. Lambton in Pensher. (b) Earl of Scarborough in Pensher. (c) J. Nesham - Staithes etc.. Quotes terms and rents.
42. Paper	I. Lease to Undertaker. (L) (E)	East Raiton, Pensher, Harrington Mill		Printed Page (insert) giving the conditions for letting of Sir H. Tempest Vane's collieries to an undertaker. Gives rent and annual vend.
44	New Leases (L)	Do.		With reference to the above there appeared to be certain technical faults as a result of which a new lease was drawn up.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
Paper 44	1. Annual vend.	V.T. Colliery at Rainton.		Table giving annual vendin weight and price for years 1799-1803.
45-47	Outstroke Rent.	South Boddick		Detail of Accounts due to Miss Lambton for coal worked by outstroke from her colliery. Very detailed figures of output & calculated rents.
48	Working Costs.	Pensher- Drawing Water	1796-97	Costs of Drawing water, wages, materials, firing etc. for pumping etc. Figures for working costs- not broken down into separate items.
49-50	Wayleave Lease.	Lambton- Tempest.	29/10/1782	Lease of wayleave etc. by Lambton to Tempest.
Paper III	Technical Data.	Backworth Colliery.	23/6/1824	Sketch & Memoranda notes re ventilation(?)
Paper IV	Weights & Measures	Rope Weights.		Table giving Shroud-laid Rope weights as per diameter and length
Paper V.	Coal Quality	Burning Times.	1822	Table to show results of experiments on burning times of coals from various collieries.
Paper VI.	Technical Data.	Townley Pit	13/6/1820	Notes on Ventilation.
Paper VII	Printed Newspaper Cutting.			(a) Notice of Welsh Iron & Coal Company. (b) Reverse. Notice of King's Court session at Royal Lodge, Windsor.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
67-68	Wayleave Leases. (L)	Request for legal opinion.		Request from Sir H.V. Tempest to Rt. Hopper Williamson on certain points in Wayleave lease. Answers accompany.
69	Costs & Prices. (E)	Undertaker & Tradesmen	1801	A series of accounts rendered. (1) Undertaker of Pensher Eden's Main, and Rainton Collieries. (2) Rye and oat prices. (3) Upkeep of Wagon-Ways. (4) Oats-Consumption at Collieries. (latter half of 1801. (5) Loss resultant from supply of Rye to pitmen 1801. (6) Hay June and July 1801. (7) Account of coals led by carriagemen. GOOD ECONOMIC DATA.
70				
71				
72	Capital Costs. (E)	Winding Engine Rainton	12/12/1804	Mr. Crowther's proposal for building same at Nicholson Pit. GOOD ECONOMIC DATA.
74-75	Rents. Costs (E)	Undertaker Incomplete		Balance sheet rendered by Longridge and Co. (Undertakers) to Sir H.V. Tempest. Half year to 31/12/1801. Figures for quantity and price.
76-77	Leases & Colliery Valuations. (E)	Rainton	1802	Valuation of Colliery re renewal of lease by Dean and Chapter.
78	Prices (E)	Oats & Rye (Incomplete) ending	30/6/1802	Prices in Newcastle Market. All figures missing.
79	Capital Costs. (E)	Windingengine Wharton Row Pit	30/11/1803	Tender submitted by Phineas Crowther (Newcastle).

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Pge.	SUBJECT.	REFERENCE.	DATE.	NOTES
80	Prices (E)	Corn	1803	Monthly table of prices for 1803 of Oats and Rye.
81-82	Leases & Profits. (E)	Rainton (Renewal) By D.&C. Dec.	1803	Valuation to determine profits following upon application by Sir H.V. Tempest to renew lease.
83	Costs (E)	Binding Miners.		Binding charges for years 1801-1802.
84-87	Rents, Costs etc. (E)	Undertakers Account	1803	Balance Sheet rendered by Longridge & Co. to Sir H.V. Tempest 1802. Good analysis of vend.
88	Costs (E)	Binding Miners Pensher-Eden Main & Rainton	18/10/1803	Good analysis of charges. Not given per capita but in toto for following: (a) Binding Money. (b) Earnests. (c) Drink Bills. (d) Sundry Expenses. Good Social material as well as economic figures.
89	Capital & Dorking Costs. (E)	Various for	1803	Figures for various outgoings for year in capital & working costs. Good source of various total expenditures.
90-93	Rents, Costs etc. (E)	Undertakers Account	1804	As above for 1803.
Insert Paper VII	Costs (E)	Tanfield Lea	1832	Analysis of real cost of shipping coals from Colliery.
Paper VIII	Rents	Bywell Tythes	1/11/1784	Letter from J. Silvertop to J. Buddle (Sir) instructing him to pay Colliery Rent. Figure mentioned.
Paper 9	Sinkings (T)	West Cramlington	15/5/1838	Report by J. Buddle Atkinson on New Winning and Strata.

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Pge.	SUBJECT.	REFERENCE.	DATE.	NOTES
94	Prices (E)	Oats 30/6 - 31/12/1804	1804	Table of consumption and prices.
94	Costs (E)	Haulage.		Tables of Distances and Haulage Costs of several pits to River.
95	Working Costs (E)	Pensher, North Rainton. 1801-1805	1805	Comparative table of jobs & wage rates between collieries in different years. Very valuable source of wage rates etc.
96	Do. (E)	Herrington 'Mill' and E. Pit.		Do.
98	Costs. (E)	Binding Miners. 18/10/1804	1804	Very detailed analysis of costs and numbers bound.
99	Costs. (E) " (E)	Carriagemen Advances	1804	Prices paid to these. 1804. Advance to Smiths.
100-107	Costs, Rents etc. (E)	Undertaker	1804	Full analysis of all undertakers at all pits. Good source of statistics re output type of sale & prices.
108-109	Costs (E) Do. (E)	Carving Waiters & Heap Shovellers & Trappers 18/10-31/12/1805	1804	Extra charges at Rainton; Herrington and Pensher. Man day costs analysis. ✕
110	Vend (E)	Rainton, Herrington, D Pit	1804	Analysis of output and stocks. ✕
111	Working Costs (E)	Rainton	1804	Statement of cost of working Colliery 1804. Good source of statistics.
		✕ Good sources	of economic data.	

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
112	Costs (Overhead) (E)	Oats	1804	Expenditure surplus to that with undertakers. Newcastle Market prices and consumption for 1805. X
114 - 115	Costs (Capital) (E)	Winding Engine Tender.	1806	Tender by Phineas Crowther for winding engine at Herrington Mill. X
116	Costs. (E)	Binding Miners	18/10/1805	Total expenses + price for each trade Useful note on additional payments (i.e. bed-money) for men transferred because of fire.
117	Costs (E)	Advance on Corving and Smithwork prices		
118-125	Costs and Rents (E)	Undertakers	1805	Full analysis Balance Sheet of undertakers from all collieries CfT with 1804 - Pp100-107. X
126	Output (E) Costs (E)	Makings out Walers & Trappers.	1805 1805	Total production figures from collieries. Man-day costs analysis. X-
128-129	Costs, Rents etc. (E)	Undertakers Tenders. 1/17/1806 (a) Rainton (b) Pensher & Herrington Mill	1806	Analytical account as tender to undertake. Good source of working costs.
+Paper 10	131 Costs (E)	Sundry charges in	1805	Further sundry figures e.g. Creep charge etc.
Paper 11	To be found	at end of book.		
	Accidents (T) (S)	List of fatal accidents. Various Collieries.	1815	Colliery, date, number killed & (for large groups) cause.
Paper 12	Sinkings (T)	Strata Account Framwellgate Moor.	17/6/1838	A detailed analysis of strata encountered in sinking Framwellgate Moor.
	X	Good source of economic		data.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1-13	Leases, Rents Freehold etc.	Great Usworth.		This volume contains material relative to the taking off coal from under the Manor of Great Usworth. i. Proceedings. ii. Letters and proposals. iii. Memoranda between J.Buddle(snr.) and Sir W.Scott and Mrs. Shaw. Figures for Rents and leases etc.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
Entry I	Wagon Ways (T)	King Pit to Stella Staith.	22/7/1799.	Measurement of wagon-way Over various landlord's possessions.
1-7	Estate Surveys	Chopwell Estate.	1799	A survey field by field of various farms comprising Chopwell Estate - property of the heir of the late Lord Cowper. Quotes incoming rents from estate at time of sale on 30/8/1799.
8-9	Do. and Township. Farm Rents.	Do.	1793.	Table of Poor Rate rents from farms, according to Poor Rate Book.
10.	Production (E).	Leadings - 31/12/1789 - 31/12/1804.	1789 - 31/12/1804.	Analysis of output (a) by wagon - sea sale(?) (b) by cart - landsale(?) Useful source of market figures.
11-14	Borings (T)		1/3/1795.	Detailed analysis of strata encountered and measurements in boring from Thill to Brockwell Seam.
15.	Production and Reserves (E).			Details of output 1793 - 1800 following calculations of reserves made in 1793.
16-17	Borings (T)		1787	Analysis of Strata in borings on Estate.
18-19	do (T)		1788	Do.
20-25	Seams Survey (T)			Review of nature of seams (4) workable in colliery.
26-28	Strata (T)	Taylor's Pit		Analysis of Strata.
29-32	do (T)	Conclusion Pit		Do.
34	Costs (E)	Boring Charge		(a) Charge for boring to Brockwell seam. See P. 11-14. (b) Seam Section King Pit.
35-64	Lease (L) (E)	Colliery Lease	1788	A Copy of the lease made from the original in the possession of a Mr. Armstrong Rents, etc. Conditions re inspection, & mode of working.

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
65-66	Lease (E)	Renewal	1799	A/C of Proposition & offer in reply to renew lease.
68-70, 73	Boring (T)	Strata (Technical)	June 1800	Details of Strata encountered in boring North Pit.
71	Capital Costs (E)	Charge for sinking shaft		A/c giving charge for sinking North Pit. Some detail of Labour prices.
72	Output (E)		1709-1805	Output from Taylor Pit, North Pit, Perry Hill.
74-76	Borings (T)	Strata		Strata classification Boring Perry Hill Pit.
77-85	Leases (L) (E)	Wayleave	1789	Copy of lease granted to J. Silvertop by Bp. of Durham Rents etc.
86	do (E)	do		Calculations for extra rent due for extension of lease to coincide with termination new coll. lease.
Paper 1	INSERT Report (T)	Technical & Economic	1831	Review of extent of coll. & way leaves.
Paper 11	do (L) (E)	Extracts of lease		Extracts of main points of lease.
Paper 3	Series of Questions	pertaining to Chopwell.		- no answers.
Final Entry				
Near end of book		Costs Analysis of Capital & Working		Table giving analysis of cost of working Chopwell Coll. 1795-1805.
Page numbered	(E)			

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1	The Corbridge Road.		1792.	<p>This volume is wholly concerned with matter pertinent to "The West Auckland Turnpike Act" i.e. a proposed new road from the North End of the Coal Road near West Auckland to the Elsdon Turnpike Road at or near Elishaw in in Northumberland.</p>
<p>THE MATERIAL HAS NO DIRECT BEARING ON MINING BUT IS A USEFUL SOURCE OF PRICES FOR THE PERIOD 1792. TENDERS AND SPECIFICATIONS FOR ROADS, BRIDGES, TOLL-HOUSES ETC. ARE ALL GIVEN AND MINUTES AND FINDINGS OF ALL COMMITTEE MEETINGS.</p>				

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1-60	Lease and Indenture	(L) (E)	1775.	Copy of Lease. Gives Rents and working specifications.
61-74	Wayleave. Lease.	(L) (E)		Copy of Lease. Gives Rents and working specifications.
Paper 64	Working Costs	Wallsend	1783	Scrap of paper giving prices of goods & jobs 1783
Paper 11	Capital Costs			Expence of a Frame Dam
Paper 111	(E)			Various prices subject matter uncertain
75-76	Legal Cases- Wayleave (L)	Shafts v Musgrave 24/6/1797		Due to availability of new Waggon Way (but contrary to original agreement) Musgrave refuses to pay Tentale Wayleave rent to shafts.
77	<u>Rents</u> Wayleave (E) T	Shafts to Lawson		Statement of Wayleave Rent for coals led from separate freeholds at Washington to R. Wear 1786-1796.
78	Production:- Distribution of profit etc. (E)	Vend at $\frac{1}{2}$ 1801		Table showing coals led from Coll to Wear and Tyne 31/12/1800 - 30/6/1801. And rents on same
79	do (E)	Settling of Shares of Proprietors in Leading		Analysis of ^{output} Prop's from various shareholder's sections of Coll.
80	do (E)	do		Analysis of Prop's leading to (a) Tyne (b) Wear

Volume: 12 NEW WASHINGTON COLLIERY.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
81-82	do (E)	do		Calculation for Rents due to Props.
83-87	do (E)	Vend 2nd ¹ / ₂ 1801 and output		Table giving river vend 2nd ¹ / ₂ 1801 Total Rents due shown on Table. Sub Headings as for 1st half year. Distribution of Profits to props. etc. <u>Good source of Economic Data.</u>

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
88-92	Production & Profits (E)	Vend. 30/12/1801 -30/6/1802		(a) Vends to Wear and Tyne (b) Setting of Props Shares in Leading (c) Leadings adjusted as per do (d) Appropriation of Rents as per do
93-99	do (E)	do 1/7/1802 - 3/12/1802		Landsale for 1802 doas above.
100-104	do (E)	do #/1/1803 - 30/6/1803		do do
105-8	Blank			
109-111	Production Costs & Rents (E)	Firing Winding Engines		From start of Coll-31/12/1795 Good Source of data on Rents as related to output (a) Consumption off Engine & Appropriate Rents due to each Party
112-113	do "	do year 1797		+Sale of Band Stone & Brasses As above
114-115	do "	do 1798		do
116-118	do "	do 1799		"
119-121	" "	" 1800		" *
122-124	" "	" 1801		"
125-139	Production (E)	Vend Opening of Coll from 31/3/1778+ 30/6/1789		1/2 yearly A/C'S renered for period (A) Vends (B) Settings of Prop's shares in leading Table giving adjustment of leading for total vend for period to 30/6/1789. (C) Table fiving adjustment of leading for period e.g. Acres wrought in common; acres wrought in freehold ; and tentale output. *
1	* Good source of Economic data.			

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
142-146	Production (E)	Vend.	1/7/ - 31/12/1789.	(a) Vend to Wear and Tyne. (b) Settling of Proprietors' shares including. (c) Leadings adjusted as per Share holding and calculated rents. (d) Totals.
147-149	Do.	Do.	1st of 1790.	Do.
150-151	"	"	2nd " "	"
152-154	"	"	1st " " 1791.	"
155-159	"	"	2nd " "	"
160	"	"	Do. Totals from commencement to 31/12/1790.	
161	"	"	Do. " 31/12/1791.	
162-167	"	"	1st of 1792.	Do.
INSERT	"	"	2nd " 1813.	"
168-175	"	"	2nd " 1792	"
176-181	"	"	1st " 1793	"
182-188	"	"	2nd " "	" + totals to date
189-194	"	"	1st " 1794	"
195-198	"	"	2nd " 1794	" + totals.
199-201	"	"	Wayleave.	"
202-207	"	"	1st 1795 + wayleave.	"
208-213	"	"	2nd " "	"
214-220	"	"	1st " 1796	"
221-227	"	"	2nd " 1796	"
228-233	"	"	1st " 1797	"
234-240	"	"	2nd " 1797	"
241-247	"	"	1st " 1798	"
248-254	"	"	2nd " 1798	"
255-259	"	"	1st " 1799	"
260-265	"	"	2nd " 1799	"
266-270	"	"	1st " 1800	"
271-275	"	"	2nd " 1800	"

FOR A DETAILED ANALYSIS OF PRODUCTION AND VEND (I) (a) FROM VARIOUS SEAMS
 (b) " Shareholder's Freehold.
 (c) WEAR, Tyne or Landsale.
 (II) Rents payable to shareholder

THIS VOLUME GIVES A COMPLETE RECORD FROM THE COMMENCEMENT OF THE COLLIERY IN 31/3/1778 to 30/6/1803.

Volume 13. The Lambton Collieries from 18/8/1800 to 1810 (1)
with reference back to earlier years.

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
1	On 18/8/1800 later succeeded by J. Buddle Jnr. Costs (E)	J. Buddle Snr. became Corn and Rye Price 18/8/1800	Inspector to the Lambton Collieries and was Awards (a) to Waggon-men for dearness of corn. (b) Rye to Miners. Estimates loss to owners by such.	
2-3	Colliery Viewing(T)	Pensher Colliery	22/8/1800	J. Buddle Jnr. report on seeing colliery remarks on ventilation.
4	Haulage (T)	Winding Engine	27/8/1800	Statistics re depths for Boulton and Watts winding engine,
5	Colliery Viewing (T)	Bourn Moot William Henry Pit. 3/9/1800		Technical data on seams and colliery working number of horses used.
6	do (T)(E) Diary of activities	Beany Field Pit 10/9/1800		<u>Gives prices of coals</u> No details. Y
7	Colliery Viewing (T) (E) do (T) (E)	Harraton Pit 'D' Pit	22/10/1800	Technical Quotes ^{cost} of winding engine work. do. ^
8-9	Annual Acc. Costs (E)	Featherston haugh & Co.	1799	Annual A/C rendered by undertaker. Source of prices - only totals.
10	" (E)	Oats		Figures for Annual consumption of oats- prices and loss to owners
11	" (E) ?	Rye to Miners		Sale to Miners (subsidised) and <u>overmen's</u> <u>methods of distribution</u>
	" (E)	Bindings 1800, 1803, 1804		Totals given per pit - no numbers. Drink bills.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
13-14	Working Cost (E)	Bournmoor D Pit	18/6/1792	Calculation of expense of working a chaldron of coals. Details of all pay rates & consumable stock.
15-16	Do. (E)	Lambton Coll.		Do.
17-18	Do. (E)	Harraton Coll.		Do. Good source of comparative rates in each trade.
19&21	Colliery Views (E)	Engines		Review of engines in various collieries
20	Projects (T)	Drift		Communication drift from Harraton to Lambton.
22-23	Costs (E)	Undertakers Account	1802	Totals only. X
26	Costs (E)	Pensher Water Course 1789-1801		Costs of Drift per annum. X
27	Costs (E)	Valuers Fees.		A/C to show cost of valuation of Stock @ Lambton 1802. (Incomplete) on cessation of undertakers.
28&30	Costs (Capital) (E)	Morton Winning		Account to show cost of New Winning 1798-1803 Totals only.
29	Costs Working (E)	Morton Engine		Various prices relative to engine 1802.
31	Leases & Rents (E)	Lumley		Abstract of lease. Rents quoted.
32-33	Costs Capital (E)	Harraton Row Pit		Erection costs of Winding engine and machine.
34	Do. (E)	Do.		Various prices 1802. x
35-36	Do. (E)	Houghton Gate Engine.		Costs of erecting crank machine. Detailed a/c.
37	Do. (E)	Do.		Various prices of materials for machine.
38	Costs Working (E)	Wages	1803	Table of various wage rate 1803.

X Good source of economic data.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
39	Cost Working (E)	Morton Engine	26/1/1803	Running costs for the month ending on this date.
40-41	Cost Working (E)	Wages	1803	Lambton Colliery Wage rates 1803. (a) C Pit. (b) Harraton 6th Pit. (c) Bourn Moor 'D' Pit. (d) Pensher Pit.
43-44	Do. (E)	Do.		(a) Pensher High Main. (b) Union Pit. (c) Bourn Moor-Wm. Henry Pit. (d) 'E' Pit.
44	Costs	Haulage	1803-4	(a) Prices for leading from various pits. (b) Various prices.
45	"	Working 'E' Pit.		Account to show cost of working Hutton Seam month ending 26/1/1803.
	"	" Wm. Henry		Totals in each rate.
	"	" Pensher (Main Coal).		
	"	" Union		Good comparative costs.
	"	" 'D' Pit		
	"	" 6th Pit		
	"	" Pensher (5/4 Coal)		
52	"	" 'D' Pit		
53-55	"	" Abstract of Pits		Tradesmen's charges for various pits. Totals only.
56-57	Valuations	Stock in hand	Xmas 1803	Prices of new materials of stock in hand. Good source of material prices.
59	Costs	Working		Agreed price rates @ Binding 1802 & 1803 in various collieries.
60	Costs	Binding	1797-9 & 1803	Costs of binding per annum.
61-72	Valuations	Colliery Stock	1/1/1803	Valuation as entered upon by G. Fenwick (new undertakers). A good source of values of all stock (e.g. horses).

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
73 74				Owner's stock to be deducted. General Proof of Stock.
76-80	Costs:	Working	31/12/1801	A table to show costs of working Collieries. <u>THIS IS THE MOST DETAILED TABLE VERTICAL COLUMNS EACH COLLIERY HORIZONTAL EACH ITEM OF EXPENDITURE. MOST USEFUL AT A GLANCE. COMPARISON. N.B.</u>
81	Colliery Viewing (T)	Pelton Fell Engine	20/7/1804	Technical Report.
82	Do. (T)	Do.	20/8/1804	Hendon Howle 5/4 Seam.
83	Costs (E)	Working		Rates agreed at binding October 1804. £ Wage rates.
84	Do. (E)	Do.	10/1/1805 1803-1804	Increase in rates to carriagemen. Wage rates at Pelton Fell in Flatts. £
85	Colliery View (T)	Morton Engine		Technical Report.
86-87	Costs (E)	Undertakers Account	1803	Totals only.
88-89	" (E)	Binding Oct.	1804	Totals + rates to each.
89	Do. (E)	Do. Oct.	1805	
90-92 122	Costs (E)	Capital (Overheads)	1800-1805 1806-1807 1808-1810	Expenditure for dead work. e.g. Sinkings, Pitmen's houses, Shaft repairs. N.B. N.B.
93-95 96	Legal Agreements (Wayleave) (L) Costs (E)	Twizell Wagon Way	Way on Flatts.	Wayleave Leases. Costs of making wagon way in year of proposal.

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
	Tenders (E)	Bourn Moor Pit	27/3/1805	New Water Wheel Tender by Reay & Johnson. Totals only.
98-102	Costs (E)	Working - total hands & officials.		Table of costs at each colliery for such 1804-1805. Good for wage rates - N.B. rises in pay in 2 years.
103-105	" (E)	Rise in Prices		Estimated extra charge to collieries as indicated by foregoing.
106-107	Costs (E)	Binding	1803	Extra charge per trade at 1803 binding. ⌘
108-109	" (E)	Flatly Colliery	1804	A/C of Extra charges to undertakers.
110	Costs (E)	New Engine. Pensher	Aug. 1805	Notification of requirements to contractors. ⌘
111	" (Tenders)	(1) Crowther's		Detailed Tender.
112		(2) Bailey & Reay		
113		(3) J. Curr		
114-115		(4) Murray & Wood		
116	" (Tenders)	Urpeth Intake - Winding Engine - Crowther's Tender.		
117	Costs	Oats		Consumption of oats 1805-1807.
118-119	" "	Do. Urpeth Intake		Crowther's 2nd Tender. Quotes estimated working costs.
119A-121	Costs (Rising Prices)	Pelton Fell	1804-1805	(a) Observations on Technical causes of increased costs. (b) Detailed estimate of extra prices due to factors in (a) ⌘
122	See page 92.	Lambton		
123-124	Coal reserves (E)	Collieries	Aug. 1806.	Estimate of probable Coal Reserves in Lambton Collieries. ⌘
25-137	Costs (Working) Output (E)	All Collieries	1806	A/C of Workings & Working Costs. Table of Fortnightly A/C's of: (a) Output per Colliery. (b) Price per score. (c) Total cost. N.B. (d) Incidentals.
138	Do. Abstract (E)			Abstract of Above + Undertakers charges (calculated). (Seen to be 50% of price per score).

⌘ Good source of economic data.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
139-140	Output (E)	Leadings & Vend	1806	Analysis of leadings for year from Lambton; Harraton; Bournmoor; Lumley & Pensher. Analysed as: (a) Best coals. (b) Small coals. (c) Splint coals. (d) Bottom coals. N.B. (e) Ill-fitted coals. (f) Landsale (g) Brasses- (H) Total.
141-142	Undertakers Prices (Costs-Working) (E)	Pelton Common or Flats	1806	(a) Reference to 191A-192. Detailed Table of extra Prices per Score. ₤
143-144	Do. (E)	Do.		(b) Balance Sheet (Proper) Showing Balance due to Martindale & Ramsey-Undertakers. ₤
145-146	Do. (E)	Lambton Colls.	1806	(a) As above to Fenwick & Co. ₤
147-148	Do. (E)			(b) " " " " " " ₤
149-150	Capital Costs (Tender) (E)	Pensher Pumping Engine	26/6/1807	Specification & Prices.
151-152	Costs Working (E)	Waggon-Men's rates- Lambton Aug.	1807	Calculation of increase due by comparison of earnings of last 1/2 year with preceding 2 1/2 years.
153-165	Costs (Working) (E)	All Collieries	1807	(A) A/C of Workings & Working Costs. (B) Abstract of above & Undertakers charges
166	Output (E)			As per Pages 125-137.
167-172	Costs (Working) (E)	Trade Rates	1807	Detailed Table Colliery by Colliery-horizontally. Trade by trade rates-vertically to show cost per score. See P. 193 for Revised Estimate. Most detailed analysis of rate/ output cost. N.B. P. 167. Reference to Stowing in 'D' Pit against Creep.

₤ Good source of economic data.

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Pge.	SUBJECT.	REFERENCE.	DATE.	NOTES
173-174	Costs Working (E) (Undertakers Prices)	Lambton Colls.	1807	Balance Sheet- balance to Fenwick (Undertakers). See 145-148. ⌘
175	Costs Working (E)	Pelton Common		(a) Engine Pit-Hutton 1807
176	" (E)	"		(b) George Pit- 5/4 Seam 1807 Totals only of pay etc. of producers. Tradesmen's pay detailed.
177 -8	Costs Working (E) Undertakers Prices	Pelton Flatts	1807	Balance Sheet per Martindale & Ramsey. See P. 143-144. ⌘
179-191	Costs Working (E) & Output	All Collieries	1808	(a) A/C of Working & Working Costs.
192	Abstract (E) (Revised estimate of Pp. 167-172)			(b) Abstract of above & Undertakers Charges. (As per 125-137)
193	Costs Working (E)	Trade Rates	1807	Revised estimates of those on page 168. ⌘
194	Do. (E)	Pelton Common	1808	Cost per chaldron of Working Collaery- data derived from Overmen's Bills. See P: 175-176. ⌘
195-196	Do. (E) Undertaker's Prices	Lambton Coll.	1808	Balance Sheet to Fenwick See 145-148
197-198	Do. (E)	Pelton Flatts	1808	Do. to Martindale & Ramsey.
199-211	Costs Working & Output (E)	All Collieries	1809	(a) A/C of Workings & Working Costs.
212	Abstract (E)			(b) Abstract of above + undertaker's charges. (As per 125-137. ⌘

⌘ Good source of economic data.

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
213-4	See P. 92			£
214	Continued Vol. 17 P. 26.			
215-16	Costs Working Undertaker's Prices (E)	Pelton Flatts	1809	Balance Sheet to Martindale & Ramsey. See 145-148
217	Cost Working (E)	Pelton Common	1809	Cost per chaldron of working colliery - overmen's bills. £
218	Cost Working (E) Undertaker's Prices	Lambton Coll.	1809	Balance Sheet to Fenwick & Co. £ N.B.
219-24	Cost Working (E)	Trade Rates	1809	Detailed Table as per 167-172. Colliery & Trade Rates to show cost per score.
225-237-238	Costs Working & Output Abstract	All Collieries	1810	(a) A/C of output & Working Costs. (b) Abstract of above & Undertaker's charges. As per 125-137. £
239-240	Costs Working (E) Undertaker's Prices.	Lambton Coll.	1810	Balance Sheet to Fenwick.
241-242	Do. (E)	Pelton Flatts	1810	Do. to Martindale & Ramsey.
243-248	Costs Working (E)	Trade Rates	1810	Detailed Table as per 167-172 Colliery & Rates to show cost per score.
249	Do. (E)	Pelton Common	1810	Cost per chaldron. Overmen's bills.
	£	<u>GOOD SOURCE OF ECONOMIC DATA.</u>		

Page	SUBJECT.	REFERENCE.	DATE.	NOTES
1	Leases, Rents Costs (E)	Chopwell Est		<u>White-field Coals</u> Extract of rents, Wayleaves and Tentale rent.
2	"	Stella Est.		Rents for (a) Wayleaves, (b) Staithes, by Stella Grand Lease Colliery.
26	Coal Prices. (E)	Stella Grand Lease	July 1802	Report on the seams at the Heathfield Winning Report on an experimental attempt to sell 5/4 Seam Coal (Round) in London Price 38/6 per chaldron.
	Rents Leases (E)	"	Xmas 1803	Review of wayleaves for Chopwell and Stella Grand Lease, payable to Stella Estates <u>Chopwell: \$100p.a. Certain for 400 Tens.</u> 5/6 per Ten surplus (i.e. Tentale) <u>Stella: £200 p.a. Certain for 1,000 Tens.</u>
		Whitefield Re-lease	"	Leased to Geo. Dunn by Mr. Silvertop Rent - £1,000 p.a. for 20 yrs Vend - 24,000 chaldrons p.a.a.
3-4	Leases & Rents (E)	Crawcrook	1796	History of sinking and record of disputes between Messrs. Silvertop and David Crawford v. Mr. Wade and Mrs. Montague re shares and rents.
	"	Stella Grand Lease	Mar. 1802	Cost of 1/96th. share in Stella Grand Lease.
	Legal Cases	Crawcrook Stella Share		Lease sold for £400. Crawford v. Montague. Assize Court Case. 1796 Quoted: Mesne profits from Stella settled at £2,000 payable by four annual instalments of £500.
5-6	Leases - Shareholders	Shipdon (Bladon Main)		Shareholders: Lords of Winlaton. (1) Proprietor of Stella Estate $\frac{1}{4}$ (2) Late Sir Thos. Blakett Rt. (Now Col. Beaumont) $\frac{1}{4}$ (3) J. Simpson of Bradley Esq. (now Miss Simpson) $\frac{1}{4}$ (4) The undivided $\frac{1}{8}$ share belongs to: John Silvertop $\frac{1}{2}$ of } Miss Simpson $\frac{1}{4}$ " } J. Pitt Esq. $\frac{1}{12}$ " } $\frac{1}{8}$ share Lord Strathmore " " } Marquises of Bute & Hertford " "

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
5-6	Leases & (E) Costs-Capital " Report (T)	Shipdon (Bladon Main) Contd. Sale of share	1801	(b) Details and prices of lease (Collirry ceased to work for sea-sale 18/10/1798 (c) Analysis of costs of crank machine for drawing coals . Total Cost:£518/3/3. Details the cost of each part. Sold on closure of the Colliery to Wylam Colliery for 200 gns.. (d) Sale of Kerry right: (i) Earl of Kerry claims 1/192nd of coal under Winlaton. (ii) Sold right to R.Pemberton (Sunderland) for £100 (e) Review of colliery reserves and comment on the quality of the coals.
8	Leases, Rents, Gares Field Won Costs (E) -Haulage		1801 1802 22/1 / 1802 1802-3	(a) Lease as per Shipdon - Lordship of Winlaton. on. (b) Coals marketed as ' DERWENT MAIN COALS'. (c) 3½ miles to Derwenthaugh. Haulage= 15d. per Chaldron Owners supply hay and corn at reduced prices - no figures given. (d) New lease: On death of Mr. Ayre to Mr. Standish for all Winlaton coals SEE APPENDIX 1 FOR DETAILS. (e) Technical review of colliery workings Reference to Creep. (f) Wayleaves: (i) Dispute -Mr. Standish v. other (Wayleave rent over free- Shareholder hold. (ii) Mr. S. pulls up the waggon-way four times thus forcing others to pay. (iii) Agreed to pay 4/- per Ten for leading of others shares over his freehold. (i.e. 5/8 of whole leadings.)
7	Leases, Rents Costs (E)	Pontop Pike (Lanchester Common		Owners: Bishop of Durham who demised to Earl of Sefton (in trust for Smythe famil

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
7	Haulage- -Costs	Pontop Contd. " Methods		<p>Mr. Smythe sublets thus:</p> <ul style="list-style-type: none"> (i) A part (designated as above) to the Marquis of Bute and Hertford & Miss Simpson. (ii) To the 'Grand Allies' South Moor on R. Tyne. (iii) Fire-Stone Quarry to New Iron Co. of Lemington-on-Tyne. (This is Shield Row Post) <p>(b) Review of the means of haulage, with destinations and alternatives adopted Reference to the years 1770, 1800-1 when the cost was 10/- per Ten of 22-20 Boll Waggon (Distance 8½ mile Now(1801) 7/- per Ten.</p>
9	Leases, Rents & Costs (E)	South Moor (Lanchester C.)	1802 1803	<p>(I) Leased to G. Silvertop. <u>Terms:</u> £300 p.a. Certain Rent. 15/- per Ten of 440 Bolls-Ten Gave up after 6 Years.</p> <p>(II) Grand Allies took on his rents and conditions. Had many troubles -details given. Results of new boring.</p>
10 & 14	"	Stanley Twizell SEE APPENDIX II	1802	<p><u>Owners:</u> Sir Thomas Tempest of Stella (dcd.) thence by marriage to Widdrington Family and then to E.T. Standish.</p> <p><u>Lease:</u> Lessors- Grand Allies. Rent: £300 p.a. 14/- per Ten - surplus At this time the colliery had lain dormant for 9 years. Interesting to speculate on reasons. Was it an uneconomic pit, or was this a case of restrictive practices in the form of 'dead rents'? Vide Metaphysical Enquiry pp. 251-400 for 1738 Parliamentary Enquiry.</p> <p><u>Lease;</u> Grand Allies offered 21/- per Ten and on same conditions as Mr. Standish's lease for part nearest to Pelton Fell adjoining Twizell. No agreement.</p>

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
11	Leases, Rents, etc.. (E)	Tanfield Moor	1730	(1) Coal under Moor belongs to Pitt family (2) Soil, herbage and quarries to representatives of the late Lady Windsor. (3) Waives and strays to the Beamish Family (4) Law suit in Chancery gave the decision that the proprietors of the mines had no right to lay and use a surface wagon way. 2/6 per Ten rent was to be paid for the privilege.
12	Freeholds (E)	Shield Row	1796 1796	<u>Freehold:</u> Belongs to Lord Strathmore and Lawyer Scaife Winning made by Grand Allies - gives technical details.
13	Freehold, Regulations of Vend (E)	Marley Hill.		<u>Owner:</u> Earl of Strathmore. Coals sell at the same prices as Whitefield coals. <u>Owner restrained by the Grand Allies not to lead more than 800 vending Tens or 800 Chaldrons.</u> On what grounds? Restrictive practices?
14	Freehold	Byer Moor		<u>Owner:</u> Sir Thos. Clavering Supplies Crowley's works at Swalwell by Cart carriage.
15	Leases, Rents, etc (E) Vend Regulation New Lease Costs-	Team	1800-1	<u>Owners:</u> Family colliery of Lord Ravensworth <u>By Grand Allies partnership deed of covenant the Ravensworth Family can lead 2,600 vending Tens or 2,600 chaldrons p.a..</u> <u>Lessor:</u> G. Burdon <u>Rent:</u> 8/4 per chaldron (Staith charges excluded) Drawn up by Sir Thomas. <u>Rent:</u> £3,000 p.a. for 1850 Tens + Proportion for surplus leadings. <u>Term:</u> 21 years Detailed estimate of costs of production and of delivery. <u>Total = 16/6 per chaldron.</u>

THE DATE 1800-1801 IN THIS BALANCE SHEET FOR ITEM) EXTRA CHARGE OF FINDING RYE FOR PITMEN ETC. : THE DEARNESS OF HAY, CORN, ETC.. IS THE ONLY MEANS OF DATING.

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16	Freehold, Leases Rents. (E)	Backworth	1803 July. 1805	Copyhold under Manor of Tinmouth. - belongs to Ra. Wm. Gray Esq. - The Royalty of the Duke of Northumberland. Geo. Burdon received licence to bore from the Duke. -- Gray laid off the borers Coal let to Percy Main owners at 28/- per Ton Certain Rent £1,000 p.a. 5 years allowed to make the winning.
17	Leases, Rents (E)	Derwent Crook or Bracken Beds		Gateshead Common (called Low Fell) + freehold estate of John Ord. Worked by the Grand Allies by leases under Mrs Ellison (Bishop's lessee of the Manor of Gateshead) and Mr. Orde. Mrs. Ellison's Certain Rent: £60 p.a.
19	Leases, Rents, etc.. (E)	Eighton Moor		North part of Birtley Moor or Black Fell. Lessor: Bishop of Durham. Lessees: Grand Allies (along with Black Fell) Worked by outstroke from the two Ravensworth pits situated near to their boundary. Allies pay Sir Thos. Liddell £100 p.a. for drawing water.
20	Leases, Rents etc (E) Report (T) Chancery Cases (L)(E)	Springwell	1802 1805	Purchased by Grand Allies from Hilton Est. Continued into these workings from the Eighton Moor Drift. Survey of seams. A.R. Bowes of Strathmore owns $\frac{1}{3}$ share and prevents the Allies from working the colliery. They set up claim on Bowes for £13,000 March. Lord Strathmore moved the Court of Chancery against Bowes for £12,000.
21	Leases Rents Costs, (E)	Sheriff Hill.	1803	Lies under Gateshead Fell, part of the Manor of Gateshead. Lessees: Reps. of late Hy, Ellison Sub-lease: Late Mr. Ben Emmerson (Now Jasper W. Surtees. Harrison)

G. Waldie

Dr. SCURLEIGH

then Mr. Greenhow Atkins

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
21 Contd.	Leases etc	Sheriff Hill.	1804	<p><u>Certain Rent</u> : £ 400 p.a. <u>Tentale</u> " : 17/6 per Ten of 418 Bolls Chaldron waggons used.</p> <p>Wayleave : 2/6 per Ten to Mr. Ellison over Shipcold freehold £50 p.a. through Claxton's to Master & Brethren of St. James Hospital.</p> <p>(Dr.Thorp was succeeded by Dr.Prose. Buddle negotiated a new rent of £200 p.a. without reference to the volume moved.)</p>
		Sale of share	1805	<p><u>Mr.Surtees sold share to Mr. Waldie for</u> <u>£8,100</u></p>
22	Leases, Rents etc. (E)	Crawcrook	1803	<p>Freehold: Mr.Wade. August - winning completed. October- Engine beaten by water. <u>Rent:</u> £200 p.a. for 267 Tens of 550 Bolls.. 15/- per Ten surplus.</p> <p>Staith and Wayleave rent : Mr.Standish £130p.a. " " Mr.Surtees £71/10-" " " Walker Lawson £15/10-" " Ryton Lairds £69</p>
23	Leases, Rents, etc. (E)	Gateshead Park	1802	<p>I. Part of the manor of Gateshead and in that lease from the Bishop of Durham. Leased and wrought by J.Liddell(5/6th.share) and A.Surtees(1/6th. share) References to reserves and quality of coals. Rent Certain ; £250 p.a. Tentale : 17/6 per Ten of 418 Bolls Waggons contain 27 Bolls.</p>
	Sale of Coll.		1803	<p>II. July. Colliery advertised for sale by pro- posals. None given. Market name of coal - Tyne-Main.</p>
	Valuation- Share			<p>III. On failure of the bank of Surtees and Bur- don and consequent investigation of Liddell affairs - his share in the col liery was valued at £5,000.</p>

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24	Leases, Rents, etc. (E)	Lawson's Main		Owner: Sir John Lawson - Byker. Lessees: Walker Colliery owners <u>Rent</u> - Certain: £300p.a. (£200 Sir J. Lawson (£100 Sir W.W. Ridley Tentale: 15/- per Ten of 528 Bolls. Wayleave: £70p.a. Newcastle Corporation Poor Rate to All Saints :£70 p.a.
	Costs-Capital		1802	Fire in seam closed colliery for some time On reopening fire broke out again and on this occasion 1 boy and two horses were left under- ground. Cost of winning - £10,000
	" -Working.		1802-3	Colliery opened and laid in 3 times before final closure . Owners declared loss - £20,000. Hewing price per score. 2/4 per 20 Peck Corf.
25	Leases, Rents Costs etc (E) (T) Report Costs: Rents	Felling.		Owned and worked by C.W. Brandling. Coals market as Brandling's Main. Details and assessment of workings and quality of coals. For use of drift to Mrs. Ellison 3/9 per Ten For passage through Claxton's 1/3 " " To Mrs. Ellison for site in drift for large and small pumping engine £50 p.a.
27	Leases, Rents etc (E) Chancery Decrees	Hebburn-on-Tyne		Owners: Heirs of late Hy, Ellison. Lessors: W. Peareth; Robt. Wade: The Commercial Bank; Chas. Wren - equal shares. Rent: 16/- per Ten of 418 Bolls. Lessors also held lease of adjoining estate belonging to Sir T. Clavering & Mrs. Montague . Rent- 25/- per Ten of 440 Bolls
			1801	Chas. Wren died. Property to be sold, money funded, and int- erest thereon paid to wife. Then principle to be enjoyed by Mrs Kirton. Interest in mine sold by auction in London under decree in chancery - See Appendix III.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
28.	Leases, Rents, Costs, etc. (E)	Hebburn-on-Tyne (Dean & Chapter) re Walker Coll.		<p>I Defines extent of estate in Hebburn belonging to Dean and Chapter.</p> <p>II. Lessees: Chas. Brandling of Gosforth House T.C. Bigge of Denton House (Exors of Late Wm. Orde of Fenham) W. Peareth of Usworth House H.U. Reay of Burn Hall</p> <p>III. Lease: 21 years from 27/9/1794. Rent: First 2 years - £250 p.a. 333½ Tens of 528 Bolls Rest of lease - £300 p.a. for 400 Tens 15/- per Ten surplus for coals drawn at Walker.</p> <p>Also £405 p.a. for 462 6/7th Tens certain. 17/6 per Ten surplus for coals drawn on premises.</p> <p>IV. Walker owners wrought through under the river.</p> <p>V. Gave up colliery on 13/11/1802 (Reason unspecified).</p>
29	Leases, Rents, etc. (E)	Wylam-on-Tyne		<p>Owner: Family estate of Blacketts. Worked by Christopher Blackett. (Compares description of seams in Whitefield and Wylam Collieries.)</p>
30	Leases, Rents, Etc. (E)	St. Anthony's-on-Tyne.	1801	<p>Owners: H. Ibbotson & W. Hargrove. Technical report on the state of the seams and estimate of reserves.</p>
31	Leases Rents, etc (E)	Greenwich Moor on-Tyne (Commonly called Throckley Fell)	1612	<p>Originally belonged to the late Earl of Derwentwater. On his attainder and execution vested in Greenwich Hospital by Act of Parlt. (Copy of old parchment in the possession of Mr. Leigh Smith of Newcastle)</p> <p>Defines boundaries of Throckley Moor (reference to the riding of the boundaries) Records herbage and moor ground common to the villagers of Newburn and Throckley.</p>

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32	Leases & Costs (E) Sale of share Binding Prices	Cowpen	1803 1804 1803	Owner: Mr. Croft. Original Lessees: M. Morrison; J. Clark; R. Croft A. Surtees; J. Surtees. Sept. $\frac{1}{3}$ share of Messrs. Surtees sold to Messrs Clark for £11,000 (Morrison had sold to Clark in 1801 for 4,000 guineas) Oners: Stephen Croft; John Clark; W. Clark; Sir M.W. Ridley. Oct. Pitmen bound for the following rates See Appendix IV.
34	Sales of Colls (Newspaper Adverts)(E)	St. Anthony's on-Tyne.	1802	The following advert appeared in the Newcastle papers on 21/8/1802. <u>St. Anthony's Colliery.</u> <u>TO BE LET.</u> " The remaining part unwrought of the High Main and Low Main Coal Seams of the said colliery called St. Anthony's Colliery. And also the whole of the Bensham Coal and Yard coal seams of the said collieries lying under the lands and grounds of Wm Hargrove Esq., and H. Ibbetson Esq. and Grace Ord, his wife, in the township of St. Anthony's and Byker in the County of Northumberland and consistin g of about 300 acres. Any persons inclined to take are requested to deliver in proposals to Messrs. Davidson, Westgate St., Newcastle. " Mr. Row and co. Certain Rent: £200 p.a. for - Tens of 440 Bolls -/- per Ten for surplus leadings Staith rent: £25 per annum. Oners of Heaton Colliery pay 3/9 per Ten way- leave rent tp proprietors of St, Anthony's.
36	Leases, Rents Costs(E)	West Kenton	1802	Gives boundaries of tract. Owner: Matthew Montague. Lessee: Graham Clarke Esq. Rent 42/- per Ten for use of Kenton Drift as water course.

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37	Leases, Rents & Costs (E) Costs	West Denton		<p>Owner: Colliery and estate of G. Baker of Elemor Lessee: Colliery- Messrs Rowe and Repts. of late Mr. Lisle Rent: £280 p.a. for 400 Tens of 440 Bolls per Ten.</p> <p>14/- per Ten surplus Estimated costs of coals delivered into Keels per chaldron: s. d. Tenatale Rent 1 - 6 Mr. Nixon (Undertaker) for working 10 - 6 Staith Charges 4 Interest on Colliery Stock 3 Unforseen incidents 1 Total <u>12 - 8</u></p>
38	Leases, Rents etc. (E)	Suggley-on-Tyne Adjoins West Denton)	1802	<p>Owner: Mr. Montague -(Beaumont seam had been worked some years ago.) Lessees: Lessees of West Denton who now work the two lower seams by outstroke from there. Montague's colliery rent -18/- per Ten-440 Bolls Baker's outstroke rent 7/6 per Ten- 440 Bolls</p>
39	Leases, Rents, Costs, (E)	East Denton	1802 1803 "	<p>Estate and colliery belong to Mr. Montague Summary of extent of workings. Coals market under name - ' Montague Main' Mr. Archdeacon had shares in this colliery (see P. 430) 1803 Mr. Montague took ? acres of Benwell Main Seam of Mr. Ord for 21/- per Ten (I.E. Contiguous. to present workings) " Oct. Report on borings to the lower seams to assess the quality and extent of reserves. 3 ft. of clean coal reported.</p>
40	Leases, Rents (E)	Fawdon	1802	<p>Lands over colliery belong to several gentlemen (no names given) Coal belongs to legal reps of Sir A. Hazlerigg Bt. At present in Chancery and let to G. Clarke Winning not commenced until lease confirmed by Parlt. Share of G. Clarke 5/5th A Surtees 2/5th</p>

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41.	Leases, Royalties, etc. (E)	Benwell		<p>Benwell colliery lies under the royalties of Benwell and Stamplewood thus:-</p> <table border="0"> <tr> <td style="text-align: center;"><u>Benwell</u></td> <td style="text-align: center;"><u>Stumplewood.</u></td> </tr> <tr> <td>Mr. Adair - 5/6th</td> <td>$\frac{1}{2}$ Formerly Shafto.</td> </tr> <tr> <td>S.T. Swinburn 1/6th.</td> <td>1/6th</td> </tr> <tr> <td>T. Selby. - -?</td> <td>$\frac{1}{3}$.....Mr. Hodgson.</td> </tr> </table> <p>Lessee: W. Surtees. Terms: 38 years from? Rent- 28/- per Ten of 440 Bolls. (There is a note referring to a quarto book - presumably Buddle's - where a copy of the lease says a Mr. Harrison has a 1/13th part with Mr. Surtees.)</p> <p>The same lessees took 11 acres under the Glebe land of the vicar of Newcastle. Vicar's colliery rent - 14/- per Ten. Mr. Adair's outstroke pit 10/- " " Wayleave and staith run.....?</p> <p>Market names.... Beaumont seam - Adair's Main Low Main - Benwell Main</p> <p>1803 <u>Colliery Owners.</u> <u>Mr. Surtees</u> 8/13ths. Mr. Crosier 1/13th. Mr. Head 2/13ths J. Buddle Jr. 1/13th. Atkinson & Harrison 1/13th.</p>	<u>Benwell</u>	<u>Stumplewood.</u>	Mr. Adair - 5/6th	$\frac{1}{2}$ Formerly Shafto.	S.T. Swinburn 1/6th.	1/6th	T. Selby. - -?	$\frac{1}{3}$Mr. Hodgson.																
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42	Production (E)	"	1799-1801, 1803-4 -5-6.	<p>Detailed tables of disposal of coals headed thus:- Sold as Landsale; Led to Staith; Consumed by machine engines;</p> <table border="0"> <tr> <td>"</td> <td>"</td> <td>main</td> <td>"</td> </tr> <tr> <td>"</td> <td>"</td> <td>workmen</td> <td></td> </tr> <tr> <td>"</td> <td>"</td> <td>Pit fires -ventilation?</td> <td></td> </tr> <tr> <td>"</td> <td>"</td> <td>Air Tubes</td> <td></td> </tr> <tr> <td>"</td> <td>"</td> <td>Blacksmiths</td> <td></td> </tr> <tr> <td>"</td> <td>"</td> <td>Waggon way runs.</td> <td></td> </tr> </table>	"	"	main	"	"	"	workmen		"	"	Pit fires -ventilation?		"	"	Air Tubes		"	"	Blacksmiths		"	"	Waggon way runs.	
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43	Leases, Rents etc (E) Valuation (E)	East Kenton	1803	Originally belonged to Dr. Wilson - Bishop of Bristol. Lessees: J. Liddle; Cuth, Reavly; Chris. Bedlington. Rent 17/6 per Ten. Drift carried through East Denton; lessees pay MR. Montague 6/- per Ten thus: Water Course 3/- per Ten) Way Leave 3/- per Ten) Certain Rent £300 p.a. Bank failure - colliery valued at £35,000 Lease: 31 years from 14/9/1790 Times of giving up - after 2, 14, 22, or 28 years - with 12 month notice. Drift Lease: 31 years from 1790 giving up after 2, 9, 16, or 23 years, with 12 monthly notices.
44	Leases, Rents etc. (E)	Coxlodge N.B.	1802	The estate is owned by several but the Royalty to the Riddell family of Felton. Lessees: J. Liddle; Cuth. Reavely; Chris. Bedlington. Rent: £500 p.a. for 555 5/9th Tens @ 44 ⁰ Bolls 18/- per Tens surplus. Colliery not yet won but preparations to do so by outstroke from East Kenton were under way. Lease: 31 years from 25/12/ 1796. To terminate at 5, 14, 21, or 28 years with 12 months notice. Detailed table of wayleave rents and staith rents thus Certain Rent: Certain No. of Tens: Bolls per Ten: Tensale price per Chaldron s/d. Then lists persons to be paid (10 payees)
45	Leases, Rents	Heaton-on-Tyne & Spanish Close	1791	Surface belongs to Sir M.W. Ridley Bt. Royalty to different proprietors. Grand Allies have Moiety. Other Moiety see Appendix V.

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47.	Leases, Rents, etc. (E)	Walker		Owners, History of Title See Appendix VI.
48	Leases, Rents (E)	Lawson's Main & Ouseburn	1804	Owner: Sir John Lawson. Feb. Letter from Sir John to Buddle that colliery owners are giving up having lost £20,000 Same colliery owners made proposal for Ouseburn Rent: £300 p.a. Certain 25/- per Ten High Main 15/- per Ten Low Main Terms agreed to.
49	" Renewal of lease	Wallsend	1779 1798 1799	Town belongs to Dean and Chapter of Durham. Approx. total 1030 acres. Lessor of Colliery: W. Russell. Terms: 21 years from 28/2/1792. Rent: £500 p.a. Certain for 571 3/7th Tens. 17/6 per Ten surplus of 22 Chaldron Waggons = 528 chaldrons. Staith lease and rent. Granted by Newcastle Corporation 9 guineas per annum for 21 years. 20 " " " " " " for 2nd. Stait 20/11/1799. for 20 years Rent: £500 p.a. for 572 Tens Mr. Russell $\frac{7}{8}$ share. Mr. Wade $\frac{1}{8}$ share.
52.	Costs (E) Capital.	Hebburn-on-Tyne	1797	July. A report quoted from Vesey's reports (see Vol. 6) states that the lessees at that time are £36,150 out of pocket for winning and working. <u>Estimates cost of winning at £40,000 in certain figures before any coals were vended.</u>
53	Leases, Rents etc. (E)	Willington-on-Tyne		Two pieces of contiguous land: 1. Sir R. Milbank Bt. 2. Mrs. Hodgson - sold for life annuity to: Mr. Bell $\frac{1}{2}$; Mr. R. Bell $\frac{1}{4}$; Mr. W. Brown $\frac{1}{4}$. Rent: 15/- per Ten of ... Bolls Certain Rent.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
54	Leases, Rents, Costs, etc. (E) Chandery Cases.	Murton	1803 1805	Land owned by several people. Colliery owned by the Duke of Northumberland Let to undertaker at 14/- per Chaldron 1. Undertaker (Heppell) ceased working and sold horses. 2. Pitmen dispersed to other collieries. 3. Dispute left to arbitration. 4. Later put into chancery where a Bill was filed against Heppell. <u>October</u> Colliery reopened at Heppell's expense by order of Chancery. Certain Rent to Duke: £800 p.a. Tentale Rent 28/- Ten = 420 Boll
55	Leases, Rents, etc. (E)	Shiremoor or Flatworth.	1800	Owner: Duke of Northumberland. Lessee: J. Lamb } G. Waldie } 2/9ths share. J. Walker } J. Maud } E. Hetherington 1/9th. share <u>Later Memo.</u> Flatworth colliery leased independently. Term: 20 years from 25/3/1800 Certain Rent: £400 p.a. for 300 tens of 420 Bolls. Tentale Rent: 26/8 for round 15/- for small. Lessees to pay double damage for spoil of ground.
56	Do.	Low Flatworth		Owner: Duke of Northumberland. Lessees: as for Flatworth. Coals vended under name 'Percy Main' as compliment to His Grace.
57	Do.	Beamish, South Moor.		Part of Lanchester Colliery. Leased by the Bishop of Durham to the Earl of Sefton for Mr. Smith. Sublet to the Grand Allies. Rent 15/- per Ten.

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57	Leases, Rents & Costs, etc. (E)	Kip Hill		8 acres of estate left unwrought by the Grand Allies. many years previous. Sir J. Eden has taken some of Mr. Dawson's Reps. share. Main Coal 20/- per Ten of 420 Bolls. Hard Coal 17/6 " " " " "	
58	Do.	Shield Row or South Moor		One of Bishop of Durham's Lanchester Colliery Leased to Earl of Sefton thence to Grand Allies. Tract of freehold property of Messrs. Bowes & Scaife now in work. Rents for above: £ Stanley (dormant) 300 South Moor 300 Bowes and Scaife 660 <u>Wayleaves</u> Sir J. Eden- water course 300 Sir T. Clavering 200 Bowes and Scaife 80 or 85. Dawson's 60 Mr. Smith 20 Blackburn Fell 100 Whickam -) Dunston Staith -) No figures.	
59-	60	Do.	Twizell.	1800	2. Moiety belongs to T. Bowes (Attorney of Darlington) Remainder to Messrs. Smith, Jackson & Wheatley. See Appendix VII.
61	Do.	Pelton Fell Coll		Owners: See of Durham. (Formerly leased to Mr. Shafto for 21 years as Urpeth Moor.) The Flatts estate in which Mr. Shafto had an interest as well as here, was purchased by General Lambton. The lease was renewed to Mr. Lambton as lessee in chief. See Appendix VIII	
66	Do.	Usworth. Vane and Legg		Part of Usworth Township. Owners: Sir W. Scott Bt. Col. Blakeney; Sir W. Lawson Bt. See App. IX.	

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69	70 Leases, Rents Costs (E)	Harraton Outside	1798	<p>Owners: Sir F. Blake Bt.; Sir J. Thorold Bt.; Sir R. Milbank Bt. (Now held by his son in Right of his mother. He also holds Colliery under lease) Being tenants in common. The Estate adjoins the river Wear, there- fore no wayleave.</p> <p>Lease terminated at Martinmas Rents: 30/- per Ten of 418 Bolls. Upper Main 25/- " " " Other seams</p> <p>Undertaker: Mr. R. Wade. £ s d Prices for 1797-9. High Main per Ten 5- 8 - 9 5/4 5- 6 - 3</p> <p>Formerly prices were 6d. per chaldron less for each seam. Undertaker's salary £100 p.a. + 6d. per pCh. for collecting coal money from Fitters, Reviews duties and financial responsibilities of Wade e.g. No expense for skreening. See APPENDIX X</p>
70	Costs-Working	Do.		
71	Leases, Rents (E)	Washington Glebe.		<p>Belongs to Rector of Washington. Lessees: Messrs. Hudson and Co. Worked by outstroke from Oxclose Engine Rent: Certain £200 p.a. Owners pay Sir W. Lawson Bt. and R. Shafto (Lessors of Oxclose) 15/- per Ten for outstroke and Wayleave to the Wear Rector receives for High Main 10/- per Ten Lower Seams 5/- " " by outstroke from Glebe to contiguous land of owners (MR. Shafto) Rector gets 7/6 per Ten. Survey and assessment of seams</p>
74	Leases, Rents	Harraton (Peareth)		<p>Owner: Lambton. Lessee: Mr. Peareth. Extent: 120 acres. Gives details of boundaries of pit and contents of seams.</p>
	Report (T)			

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75	Leases, Rents, etc. (E)	Leefields & Whitehouse		<p>Owners: Whitehouse - The Lambton Family. Leefield - The Humble Family.</p> <p><u>In the Coal</u>: Lambtons $\frac{2}{3}$ share in all seams Humbles $\frac{1}{3}$ share in Low Main & Hutton</p> <p>Mr. Peareth $\frac{1}{3}$ share in Maudlin coal Long colliery lease expires May-day 1802.</p> <p><u>Estate</u>: Formerly the property of Mrs. Dixon (Gainsborough-Lincs), widow, daughter of Eliz. Wallet, who let to W. Peareth (i.e. her $\frac{2}{3}$ of coal mines) for the Term of 42 years from 12/5/1760.</p>
	Do.	Do.		<p>Rent: Certain - £100 p.a. Tentale - 12/6 per Ten Main Coal. 8/6 " " 5/4 Coal. 8/3 " " Other Seams.</p> <p>Ten= 20-20 Boll waggons or 400 Coal Bolls</p> <p>Outstroke - rent if into Mrs. Thompson and Mrs. Hall of 1/8 per Ten of her $\frac{2}{3}$ share of 2/6 per Ten.</p>
77	Sale of Shares (E)	Harraton Outside.	1800	<p>5/11/. Messrs. Russell and Wade purchased at Newcastle Sir F. Blake's and Sir J. Thorold's $\frac{2}{3}$ share for £35,000</p> <p>Details of method of payment and clauses of sale given.</p> <p>Gives details of haulage routes and necessary way-leaves. (cf. P.69.)</p>
78	Costs & Profits (E)	Do.	1799	<p>Details of settled account for the year ending 31/12/1799. (seen and noted by Buddle 13/11/1800) of net proceeds to Sir R. Millbank</p> <p><u>SEE APPENDIX XI</u></p>
79	Leases, Rents etc. (E)	East Rainton		<p>Lessors: Dean & Chapter Lessees: Gore Townshend of Hornington Hall, W. Mellish - London. / Warwick. J. Tempest-Wynyard - Devisees & Trustees</p> <p>Premises: East and West Rainton, Moorsley, Pittington, Moorhouse.</p> <p>Term: 21 years from 27/9/1794. Rent: £22 p.a.</p>

Contd.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES																						
Cont. 79	Leases, Rents	East Rainton	1804	<p><u>Memo:</u> Ancient Colliery and renewed on a Fine and small annual rent of £22 p.a.</p> <p>(Last Fine for full term of 21 years was £6,000 + £20 as sealing fees.</p> <p>(Sir H.Vane Tempest renewed again on a Fine of £2,500.</p>																						
		N.E. Unusual form of lease payment.																								
80	Leases, Rents (E)	Elswick (Mr. Anderson's)	1804	<p>Lessors: Sir W.A.Cunningham & Mr.Ord (they also hold coal under contiguous land of Mr. Hodgson.)</p> <p>Lessees: Mr. Anderson offers Rent: Certain - £400 p.a. for 200 Tens £1-11-6 Tentale.</p> <p>Wayleave to Newcastle 4d. per cart</p> <p>Owners bid him 1 guinea per Ten</p> <p>Previously Mr. Ismay and Buddle offered 21/- per Ten.</p> <p>Mr. Watkinson called on to observe and suggests a fair price of 20/- per Ten</p>																						
82	Costs, Rents, Shares (E)	Heaton & Spanish Closes.	1804	<p>Tradesmen's Bills due for colliery £ s. d.</p> <p>31/12/1804 5682- 9- 9</p> <p>Rents and arrears of same including debt to Grand Allies 7708- 3- 3</p> <p>Shares of owners as follows: // <u>13390-13-</u></p> <table style="margin-left: 20px;"> <tr><td>Mr. W. Row</td><td>4</td><td>46</td><td rowspan="7">}</td></tr> <tr><td>Mr. Lisle's Reps</td><td>9</td><td></td></tr> <tr><td>Mr. J. Watson</td><td>5</td><td></td></tr> <tr><td>Mr. Johnson</td><td>18</td><td></td></tr> <tr><td>Messrs. Fenwick</td><td>6</td><td></td></tr> <tr><td>Mr. Featherstonhaugh</td><td>6</td><td></td></tr> <tr><td>Mr. Croudace</td><td>6</td><td></td></tr> </table> <p style="text-align: right;">96ths.</p>	Mr. W. Row	4	46	}	Mr. Lisle's Reps	9		Mr. J. Watson	5		Mr. Johnson	18		Messrs. Fenwick	6		Mr. Featherstonhaugh	6		Mr. Croudace	6	
Mr. W. Row	4	46	}																							
Mr. Lisle's Reps	9																									
Mr. J. Watson	5																									
Mr. Johnson	18																									
Messrs. Fenwick	6																									
Mr. Featherstonhaugh	6																									
Mr. Croudace	6																									
83	Leases, Rents, etc (E)	Newbottle		<p>Bishop of Durham grants to Rev. Fawcett (Rector of Houghton-le-Spring) this colliery along with others known as the Houghton-le-Spring Colliery</p> <p>Lessees: Trustees of J. Nesham Esq.</p> <p>Rents: £1-1/- per Ten certain - Main Coal 15/- per Ten @ 200 Certain- for Maudlin, 5/4, Low Main & Hutton</p> <p>Ten = 440 Bolls from workings contd</p>																						

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
Contd. 83	Leases, Rents (E)	Newbottle		Later agreement 1/6 per Ten more for Maudlin's Seam. £ Other Rents: Wayleave to Gen Maxwell 70 " " Reps of Green 70 " " Mr. Byers 50 Mr. Byers for placing coal machine 5 Wayleave to Mr. Nesham 50 " & Staith to Sir. H. V. Tempest 500 <u>745</u>
85	Leases, Rents etc. (E)	Lumley Park		Owner: Earl of Scarborough Lessees: Lambton Family. Terms: 31 years from 7/1/1784 (rather 31/ 12/1783) Terminates 31/12/ 1814. Rent: Certain £400 p.a. Tentale 25/- Main Coal 20/- Low Main, Brass Thill & Hutton. 17/- 5/4. Refers to a fairly old assessment of seams by a Mr. Hobson and quotes details. <u>Memo:</u> Any time before expiry of lease the <u>Earl</u> of Scarborough may demand a new lease for leading 20,000 chaldrons p.a. ¹ / ₄ Terms: 31 years. Certain Rent for wayleave £300 and Staith Room £60 p.a. Lambton's Trustees have like powers for leading coals from Findon, Plawsworth etc. through Lumley estate.
87	Leases, (E)	Pensher (Lambton)		Freehold estate of Lambton Family who work it themselves.
88	Leases, Rents (E)	Lemington	1805	Lessor: The Duke of Northumberland. Lessee: Mr. Wm. Row. Term: 21 years. Rent: Certain- £200 p.a. 222 Ten Tentale 18/- per Ten Ten = 440 Bolls.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
90	Production(E)	Benwell	1800-	4. Coals Vended: Year Chaldrons 1800 25855 1801 24177 1802 26910 1803 26239 1804 31238.
91	Marketing Names. Reserves	Harraton(Outside)		
92	Leases, etc. Sale of Shares. Production & Profits Colliery Hazards. (E)			SEE APPENDIX XII.
95	Leases, Rents etc (E)	Heworth.		Lessors: Dean & Chapter. Lessees: Chas. Brandling Esq. Premises: Township of Over Heworth and Nether Heworth. Boundary: Gives details of estate with check points. Terms: For 21 years from 24/6/1794. Rent: £306 p.a. for first 14 years for 408 Tens 15/- per Ten surplus. £357 p.a. for remaining 7 years for 408 Tens 17/6 per Ten surplus. Ten= 17-26 Boll waggons or 442 Bolls. Outstroke rent into Felling = 5/- per Ten
96	Leases, Rents etc (E)	Killingworth Moor (Benton in Market)		Lessor: Earl of Carlisle. Lessees: Grand Allie Rent: 15/- per Ten.
96	Wayleaves. (E)	Willington to Benton	1804	Extracts from a letter from Ra. Dodd re keeping Waggon-ways. Willington pays Allies 2/- per Ten per mile Ten=418 Bolls. (Was to be 2/6 but as the allies go on part of the Willington way this was offset.) Pay 3/3 per Ten per mile. Ten= 420 Bolls. Some pay 2/6 & others 3/- per Ten per mile
96	Do.	Murton to Flatsworth		

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
97	Leases, Rents, etc..(E)	Killingworth	1801	<p>Owners' Holding: Ac. Rd. P.</p> <p>Mr. Pugh - 8/24th share of coal -421- 3 -21</p> <p>Mrs. Harrison - 13/24th " " " -345- 2 -14</p> <p>Col. Airey. - 3/24th " " " 78- 3 - 4</p> <p style="text-align: right;">846- 0 -39.</p> <p>+ Freeholds in severalty belonging to <u>Mr. Bamer.</u> 128- 1 - 6</p> <p style="text-align: right;">Mr. Punshon 145- 2 - 7</p> <p style="text-align: right;"><u>273- 3 -33</u></p> <p style="text-align: right;">Total <u>1120- 0 -32</u></p>
97	98 Do.	Do.		<u>SEE APPENDIX XIII.</u>
	99 Leases, Rents, etc. (E)	Jarrow.	1801	<p>Lessors: H. Ibbetson & W. Hargrove.</p> <p>Lessee: Simon Temple.</p> <p>Terms: 31 years from 12/5/1801</p> <p>Rent: Certain - £1,200 p.a.</p> <p style="text-align: right;">Tentale 34/- per Ten</p> <p>Each Lessor reserves 80 Fothers of fire-coal.</p> <p>Winning started midsummer 1801</p> <p>Fire-engine started July 1802.</p>
	101 Do.	Westoe	1801	<p>Lessors: Dean and Chapter. Lessee: S. Temple.</p> <p>Rent: Certain - £400 p.a. for 320 Tens.</p> <p style="text-align: right;">Tentale - 25/- of 440 Bolls.</p>
	102 Do.	Hebburn & Monkton.		<p>Lessors: Dean & Chapter. Lessee: Owners of Walker Colliery (who work it by outstroke under the Tyne)</p> <p>Rent: Certain £300 p.a. for 400 Tens.</p> <p style="text-align: right;">Tentale 15/- per Ten of 440 Bolls.</p> <p>Gives notes on the extent of the workings.</p> <p style="text-align: right;">Outstroke - 12/6 per Ten to Newcastle Corporation</p> <p style="text-align: right;">5/- per Ten on $\frac{2}{3}$ loadings</p>
	103 Do.	Urpeth.	1801	<p>Lessor: Col. Bewick of Close House, Northumber- land</p> <p>Lessee: W. Peareth.</p> <p>Terms: 42 years Rent: Certain - £500 p.a.</p> <p style="text-align: right;">Tentale - 13/- 5/4 coal; 20/- Main; 17/6</p> <p>Lower seams.</p> <p>Wayleaves - <u>SEE APPENDIX XIV.</u></p>

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
104	Leases; Rents (E)	Ouston & Pelton	1803	Lessors: Sir R. Millbank Bt. & Col. Jolliffe (Moiety Tenants in Common) Lessee: Mr. T. Wade worked Col. Jolliffe's. Terms: Not given.
106	Do.	Chirton		Lessor: Mr. Collingwood. (Only one quoted as largest proprietor). Lessees: Mr. W. Row & Mr. Robertson the Roper. Rent: Certain - £1,000 p.a. Tentale - 30/- Ten = 440 Bolls.
107	Do.	West Denton	1804	Cf. p. 37. Lessee: Mr. Rowe. Proposals for new lease dated 24/12/ 1804. Term: 21 years. Rent: Certain - £200 p.a.. Tentale - 18/- Liberty of outstroke as before into Sugley and Duke of Northumberland's Lemmington. Twelve months notice to quit.
108	Costs-Working (E)	Cowpen	1805	Detailed list of prices of work at Cowpen <u>See Appendix XV</u>
111 - 113	Sale of share Valuation(E)	Heaton & Baker's Main.	1805	6 Details of output and valuation of share preparatory to sale. Correspondence supplementary to this and accompanying report. <u>See Appendix XVI.</u>
115	Boring Account (E)	Heaton	1804	5 Detailed account of boring charges to depth of 71 Fathoms. <u>See Appendix XVII.</u>
116	Valuation & Selling Prices (E)	Heaton	1806	<u>See Appendix XVI.</u>
117 - 145	Parliamentary Enquiries(E)	Paddington Canal	1805	A detailed report of the Parliamentary Committee set up to enquire into the volume of coal traffic into London via this canal. Useful source of data on the effects of competition from the Midland Coal Fields on the Newcastle Trade.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES																				
146	Leases, Rents etc. (E)	Sheriff Hill.		<p>Term: 20 years from 22/11/1775. May terminate at the end of each year, May renew up to a term of 51 years at lessees' cost.</p> <p>To win in 4 years to Low Main coal depth with 61 ins. cylinder and invest £4,000 thereon. Rent: Certain - £400 p.a. for 470 Tens and 13 waggons. 22-19 Boll waggons.</p> <p>Surplus- 17/- per Ten. Lessees; Tenants in common not joint tenants. Details are in the agreement of how and when the colliery is to be worked.</p>																				
147	Costs-Boring (E)	Saltwellside	1806	<p>Copy of Andrew Wake's charge for boring to a depth of 49 Fathoms. <u>See Appendix XIX.</u></p>																				
148	Coal Prices	Lowest Tender	1806-7	<p>Table showing the lowest tender for supplying coals by contract in the mentioned counties. <u>See APPENDIX XX.</u></p>																				
149	Weights & Measures; Miscellaneous data (E)	<p>Paving Experiment.</p> <p>Weights @ Whitefield Coll.</p> <p>Newcastle Town Moor :</p> <p>Composition of best French Gunpowder.</p> <p>Coal Measures</p> <p>6920 Galls per keel</p> <p>Ancient</p>		<p>Brief note on paving with no details (Difficult to say what it refers to). lbs. (?)</p> <table> <tr> <td>Empty 16 peck corf weighs</td> <td>106$\frac{3}{4}$</td> </tr> <tr> <td>Tram with iron wheels</td> <td>51$\frac{1}{2}$</td> </tr> <tr> <td>16 peck of coals</td> <td>494$\frac{1}{4}$</td> </tr> <tr> <td></td> <td style="border-top: 1px solid black;">Total</td> </tr> <tr> <td></td> <td style="border-top: 1px solid black; border-bottom: 3px double black;">653</td> </tr> </table> <p>Contains 1010 acres Castle leases 138 " Total <u>1148</u></p> <p>Presumably for colliery shot-firing.</p> <table> <tr> <td>Salt Petrie</td> <td>80</td> </tr> <tr> <td>Charcoal</td> <td>15</td> </tr> <tr> <td>Sulphur</td> <td>5.</td> </tr> </table> <p>Comparison of ancient with modern (i.e. 1806)</p> <table> <tr> <td>6920 Galls per keel</td> <td>Ancient</td> <td>6912 Galls. per Keel.</td> <td>Modern</td> </tr> </table> <p>Gives detailed relative measures to arrive at this figure</p>	Empty 16 peck corf weighs	106 $\frac{3}{4}$	Tram with iron wheels	51 $\frac{1}{2}$	16 peck of coals	494 $\frac{1}{4}$		Total		653	Salt Petrie	80	Charcoal	15	Sulphur	5.	6920 Galls per keel	Ancient	6912 Galls. per Keel.	Modern
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6920 Galls per keel	Ancient	6912 Galls. per Keel.	Modern																					

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
196	Weights, Measures etc. (E)	Whitehaven		Relative weights and measures at the colliery. Owner: Lord Lowther. 1 Gall.=268.8 cu.inches. 1 bushel= 24 galls/ur (freaked mea 1 Basket= 4 bushels 1 Basket weighs 7 to 8 cwt. 1 corf " about 1 cwt. 1 waggon contains 24 Bushels (commonly called (Carlisæ Bushels) = 72 freaked Winchester Bushels. 1 Waggon at the Custom House is called 1½ chaldrons London Measure. About 80,000 exported annually to Ireland.
197	Labour - establishments (E)	Hewers-Tyne	1804-5	Table of hewers employed in the collieries of the River Tyne. <u>See Appendix XXIII</u>
198	Do.	Hewers-Plessey, " Cowpen & Hartley	"	Do. for the Blyth collieries. <u>See Appendix XXIV</u>
199	Do.	Hewers- Wear	"	Do. <u>See Appendix XXV.</u>
200	Production(E)	Tyne Vend	1804	Table giving the state of the vends of the Tyne collieries. <u>See Appendix XXVI</u>
201	Do.	Blyth Vend	"	Do. <u>See Appendix XXVII.</u>
202	Technical Data	Hebburn		Detailed list of plank and solid tubbing required for 'C' Pit shaft.
203-4	Leases, Rents (E)	Kibblesworth	1805	Lessor: Col. Bewick Lessee: Not Given. Terms: 25 years. Rent: Certain £500 p.a. for 444 2/9th. Tens. Tentale 22/6 per Ten Ten = 420 Bolls. Rent payable ½ yearly. Lessees allowed coal for engines etc. + 10 Ten (inferior) for pitmen's fires. Manure to lessor. Barrier stipulated. Wayleave through Urpeth Ground. Lessor(or Agent or Viewer) at liberty to view at any time. Walls and Pillars detailed. Aug 5th.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
205-7	Production(E)	Newcastle Vends	1661	-1806. Table giving the vend from Newcastle and the imports into London for these years. A very useful source of comparison. The difference in figures will have to be accounted for by (a) calculating the difference between the London and Newcastle chaldrons (b) possible imports from other sources than Newcastle. See Appendix XXVIII.
208	Miscellaneous Facts & Figures (T) (E)	(1) Sunderland Fittage.		Fittage Charges: Whole Fittage: 3/- per chaldron made up as follows: Fitter's premium - 1/- per Ch. River Duty - 1 Keel Dues - 9½ " Rents - 10 Losing & Binding - 1½ Treating, rents & running fittage etc. - 2 <hr/> 3/-
		(2) Dimensions of 20 peck coal tub		Diam: 3ft. 8.05 ins. Depth: 1ft. 7.05 ins.
		(3) Leading Times.		Experiment to determine the time to lead coals from the seam to the river. Timing of each section of the job is given over whole operation. 3 miles to the staith.
		(4) Acreage Comparisons		Comparative areas of English and Scottish acres: 787 Scottish = 1,000 English 1 " = 1.270648 "
		(5) Brick clay		1 Cu.Yd clay = 620 bricks.
209	Valuations & Sale Prices(I)	Saltwellside		Colliery is dormant. Reported to have been sold for £1,500 (figure is not confirmed.
210	Do.	Do		(1) Technical report-reserves etc. by S. Watkin. (2) Valuation of reserves - £9350 (3) Cash value £3500 because of other factors which are not really stated. (4) Buddle's estimate - details given, but

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
211	Coal Prices (E)	Tyne v, Wear.	1803	Comparison of prices to the shipowner on the Tyne as compared to the Wear. Keel = 5 Casts. Caster at Sunderland has 2/- to 2/6 per cast. <u>See Appendix XXIX.</u>
212	Production(E)	Historical "Record	1700	Copy of 'Old, imperfect' paper to show the number of collieries at work and the number of pits in each. * Production figures. <u>See Appendix XXX.</u>
213-240	Leases-Legal Cases	Title -Birtley Common	1749. 1758	Durham Assizes. Plaintiffs: J.Fawcett; Henry, Lord Ravensworth Ed.Wortley; Geo.Bowes; W.Ord. That the lessees of the Bishop of Durham had (i.e. W.Belasyse & G.Humble) had wrought coals from Birtley Common. Plaintiffs won case and were paid £1137 by decree of Chancery. Very detailed summary of the whole legal action and details of the lease history traced back to Bishop Hatfield (1366).
241	Leases & Reports(T)(E)	Brunton & Fawdon	1799	Letter from Chris.Bedlington to Mr.Russell in which he reports the extent of the colliery reserves and advises on the proposed leasing of the colliery.
242	Leases (E)	Do.	"	Proposed lease by the lessors -Mr.&Mrs.Montague Rent: Certain- £500 p.a. for 800 tens 10/- per Ten Surplus. Liberty of wayleave and staith. Interest* on money laid out for original staith erection. <u>25/6 p.a. for each pitman's house.</u> All ground damage to be paid by agreement. 6 months notice to quit.
243-5	Report (T)	Do.	1779	Copy of W?Brown's report Suggests terms of lease: 42 years. Rent to start after 2 years. Certain- £800 p.a.

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
246-8	Leggl Cases.	The Pan Boat, Sunderland	1799	Details of arbitration - following and Act of Parliament - on compensation to Sir Hedworth Williamson & Mr. Lambton owners of the Pan Boat as a result of the building of Wearmouth Bridge. 18/6/1799 Awarded £7395. A later Quarter Sessions appeal suggested compensation of £1600.
249-50	Leases, Rents etc. (E)	Cowpen.	1799 1803	Owners: Mrs. Wanley Bowes & Rev. R. Croft (Prebend of York). Rent: Certain - £400 p.a. Surplus - ? Lessees - shares: Mr. Croft 2/9ths. A. & J. Surtees 3/9ths. Morrison & Son. 2/9ths. W. Row 1/9th. Mr. Clark. 1/9th. 1799 Coals sold to ships @ 19/- per Chaldron. Terms: 7 years from July 5, 1797. To work 20,000 ch. p.a. 17,000 (including 2,000 small) to be delivered to staith. 1803 Memo: Messrs. Surtees 3/9ths. advertised to be sold by private contract. Bought by Messrs. Clarkes for £11,000.
251-400	Parliamentary Enquiries. (E)	Coal Trading & Prices.	1738	A full, detailed copy of a committee's enquiry into the Coal Trade with regard to price rings monopoly practices, and the high price of coals. - following on petitions from City of London; Borough of Southwark; Town of Cambridge. A good source of information in the cross-examination of witnesses of all aspects of the trade including prices and qualities in the first half of the 18th. Century.
401-12	Reports (T) (E) & Valuations.	Heaton & Spanish Closes		See Appendix XXXI.

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413-419	Leases, Rents (E)	Ancient Docs. Harraton	1653	A copy from an old book printed in 1653 of particulars referring to Harraton. It deals with the possession of the colliery and the findings of a committee held at D Durham. Interesting social comment on punishments.
420	Weights, Measures etc. (E)	Pit ropes		Table giving the weights of various pit ropes in use.
421	Technical Data.	Engine Consumptions.		Consumption of various types of engine as listed at each colliery and the depth of the haul.
422	Boring Accounts (E)	Ponteland	1802	Account rendered by Thos. Rawlings to Mr. G. Sivertop Similar to others reproduced.
423	Leases, Rents etc. (E)	Barnstone		Original owners Lumley Family. Then Earl of Halifax then Mr. Tempest - he died without issue thence to Sir H.V. Tempest. Peculiar Lease: Mr. Montague (Owner of Denton) has $\frac{1}{4}$ of coal under estate. but: ' Mr. Tempest and his heirs are empowered to win the colliery, and to reimburse themselves out of the profits thereof before Mr Montague can claim any benefit therefrom; and thenthe Tentale rent xx to be paid to him for a $\frac{1}{4}$ share is to be settled by arbitrators and a n umpire.'
424	Reports (T)	Cowpen		Data on seam sections.
425	Weights & Measures (E)	Bolls. Tens		Table showing number of Bolls that comprise a Ten at various collieries on the Tyne and Wear. <u>See Appendix XXXII.</u>
426	Ancient Colls.	Elswick	1351 1538	Demised to Adam Colewell for rent £5 p.a. Lessor: Prior of Tynemouth Lessee: Christopher Midford. Term: 8years. Rent: £50 p.a. On the dissolution of the monasteries the estate became vested in the crown

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27	Boring Account (E)	Old Durham	1802.	Thos. Rawlings charge to Sir H.V. Tempest for boring for coal at Old Durham. Detailed account similar to others.
29	Leases, Rents etc. (E)	Elvet & Crossgate Durham.		Lessors: Bean and Chapter. Lessee: John Horner (Helmsley, Yorks.) Term: 21 years from 27/9/1794. Rent: 1st. 7 years £80 p.a. for 3,000 scores. " Next 14 " £100 p.a. " " " 8d. per Fother for surplus. Score = 21 ten peck corves.
30	Rents. (E)	Denton Coll.	1799	Table to give abstract of tentale rents due to exors of W. Cowpen from Denton Colliery - Xmas 1798 - Xmas 1799. All details of table missing, only gives totals
431-2	Titles, leases. (E)	Historic records.		Copy of grant of land by Charles I to John Chamberlain and heirs and successors called. Fieldhouses in the Parish of Gateside in Co. Durham. This does not include the coal underneath which goes to the ecclesiastical Benefice.
433-4	Report (E)	Nettlesworth	1798	Report by W. Smith on the possible reserves and deposits and the possibilities of haulage out by waggon-way. Suggests it will cost approxiamately £1200 p.a.
435-6	Costs-Profits (E)	Winlaton Lordship		Because Shipdon is worked out the owners contemplate opening up Gaire's Field and the South part of Barlow Fell. Estimate of Costs and Profits. £ s. d. Cost of delivering coals to Derwenthaugh staith per ch. 7 - 6 (SEE APPENDIX XXXIII FOR DETAILS) Advance of rent-12/-to 15/-per Ten 2 Wayleave to Silvertop & Ptnrs. £60 1 1/4 Staith Room " " (6 Keel berths @ £5 p.a. 1/2

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
437-8	Lease of Land (E)	Bladon Bourn	1798	Agreement between E.T. Standish (Standish Hall-Lancs.) and J. Silvertop (Minsteracres - North-umberland) respecting the erection of mills on Bladon Bourn.
439 443	Survey (T) Costs-Capital (E)	Winlaton Lord- ship	1797.	(1) Levels from old pit to new Bore Hole. (2) Levels for new waggon-way from New Winning to Barlow Fell and Miss Simpson's present waggon-way. (3) Estimated cost of waggon-way.
444-5	Valuations (E)	Monk Heseldon Hutton Henry	1798	Sketch and valuations of the estate in the township of Hutton Henry in the parish of Monk Heseldon, the property of J. Silvertop. Valuer: A. Mowbray - Sherburn. 11/9/1798.
446	Reports (T)	Mickley Moor	1766.	Details and sections of the seams and quality of coals.
447	Do.	Pelton Common	1785	Report on seams and estimate of reserves.
448	Leases, Rents etc. (E)	Whitehall Common.		Owner: Bishop of Durham. Lessor: Ed. Montague for the lives of Sir Ra. Millbank Bt.; R. Shafto Esq.; M. Robinson (Son of Matthew Robinson) (Matthew Robinson - now Montague was 8 years of age when the lease was renewed in 1771 Shares - Mr. Lambton by purchase from Mr Shafto - $\frac{5}{8}$ Mrs. Montague & Mr. Archdeacon as heirs of Mr. Rogers. $\frac{3}{8}$ Mrs. Montague's & Mr. Archdeacon's heirs lease their share to Mr. Lambton on the same terms as Pelton Common (See .P.61)
449	Reports & Estimates (T) (E)	Beamish, South Moor.		Report on the best means of working coal. Estimated cost of drift - <u>details given</u> Total cost £24,500.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
450	Leases, (E) Reports (T)	Birtley North Side.		Technical Report on seams. Colliery Owner: John Catchside of Chester-le-Street. Worked by: Messrs. Humble & Smithson. Rent: High & Low Main, & Hutton - 14/- per Ten Maudlin & 5/4 12/6 /" " Ten = 420 Bolls. N.B. There was no 5/4 coal here and the Maudlin turned out so foul that only a part was wrought.
451	Reports, Production & Profits (E)	Bensham	1753	Copy of an Old Paper indorsed ' Calculations of Bensham. June 21st., 1753. by Mrs. Wm. Newton. Estimates the profit in 40 years as £18,560 Interesting comments in another hand on the detailed calculations given.
452-4	Old Workings	Bensham	1753	June. Gateshead. Depositions of old miners re the workings of Bensham Collieries in the early years of 18th. century.
454-5	Reports (T)	Gibside Groove		Short account of depth of seams and quality of coals.
455	Leases- Ancient(E)	Fawdon's Field	1694	Details from an old lease dated 1694 from Thos. Bewick to John Rogers. Colliery called Grindley Gate or Greenlaw. Lands late belonging to Robt. Fawdon. Bewick demises 3/16ths, of mine for a term of 8½ years. Rent 5/- per Ten. Ten = 40 Fothers or Wain loads of 7½ Bolls.
456-7	Legal cases(E)	Saltwellside		Law suit over lease. Complainants Hy. Liddell & others. Defendants: W. Riddell and Sir M. Millbank Bt.
458	Wills	Late John Ord	1721	Particulars of the Will of the late John Ord. Died 15/8/1721.
458	Costs-Capital (E)	North Birtley		Small note and the sinking and record of the Cost.

Volume: 14

Page	SUBJECT.	REFERENCE.	DATE.	NOTES
459	Reports(T)	Barton Fell		Details of section of the ^B rockwell Seam. Do. + 5/4 coal.
459	Do.	Winlaton Mill		
460	Costs-Labour (E) <u>Work</u>	Bushblades	1765	Prices : See Below.
	Corf=	Walker Pit : Broom Pit : Hopewell Pit: Success Pit: South: North.		Hutton seam Brass Thill Hard Hutton 24 Peck 20Peck 20 Peck 24 Pec
	Hewing.Per score	1/10	2/5	1/10 2/6 1/11 1/7
	Drawing. "	11	-	- - - -
	Headways Per Yd.	8	8	8 1/- 8 8 -
	Narrow " "	4	4	- 8 - -
	CorvingPer Score	3 $\frac{1}{2}$	3 $\frac{1}{2}$	5 3 3 $\frac{1}{2}$ 5
	Smith per 10 "	6	6	9 6 - -
	Wrights " "	3	3	3 $\frac{1}{2}$ 3 - -
	Hedding-labour. only per day	-	-	- 1/6 - -
				Details of sinkings given.

APPENDIX I.

Subject : Leases. Reference : Gares Field. Volume 14. Page 8.

New lease on the death of Mr. Eyre in favour of Mr. Standish.

Terms: From 1/1/1803 for 30 years.

Rent: £360 per annum for 600 Tens of coals

1 Ten = 440 Bolls
1 Boll = 36 Gallons
(Worcester
Measure)

<u>Shareholders</u>	<u>Share</u>	<u>Rent to be paid.</u>
E.T. Standish	$\frac{3}{8}$	£135.
T.R. Beaumont	$\frac{1}{4}$	£ 90.
Miss Simpson	$\frac{1}{4}$	£ 90.
" & Co.	1/16th.	£ 22/10/-
G. Silvertop	"	£ 22/10/-
		<u>£360</u>

Liberty to quit at the end of every three years in giving six months notice in writing.

Signed. Robt. Clayton.
 John Gray.

APPENDIX II.Subject: LeasesReference: Stanley & Twizell.Volume 14 Page 10&14.

1803. Grand Allies decided to accept the proposed offer of 21/- per Ten by Mr. Lambton. On reconsidering the following points, however, decided to turn down the offer:
- (a) Reduced price of coals;
 - (b) High way-leave rent asked by the Bishop;
 - (c) Shortness of term;
 - (d) Dearnness of materials of all kinds.

DETAILS OF THE HISTORY OF THE LEASE

I. 1/1/1754 A lease was granted for 63 years from 1/5/1754.

Rent: £300 p.a. for 428 $\frac{1}{2}$ Tens

14/- per Ten for surplus leadings.

- II. (a) Wm. Tempest Widdrington demised this colliery to Hy, Widdrington (brother) for life.
- (b) On Hy, Widdrington's death demised to the Hon. Marmaduke Longdale for life
- (c) On the death of Hon. Marmaduke Longdale to his second son and heirs made of his body.
- (d) Remainder of right to heirs of Wm. Tempest Widdrington.
(N.B. Lord Widdrington is called the Hon. Henry Widdrington, commonly called Lord Widdrington, brother, heir and devisee of Hon. W. Tempest Widdrington Dcd.)
- III. Lease. (a) No pitmen's houses to be built within 500 yards of Stanley Hall.
- (b) Stanley Hall to be allowed 30 Fothers of free coal p.a.
- (c) The lessee may drive drift or drifts into or from neighbouring collieries or into any colliery in which they now or may be interested during the term.
- IV. The Grand Allies. At the taking of the colliery were:
- Lord Ravensworth of Ravensworth Castle.
The Hon. Ed. Wortley of Wortley in the County of York.
George Bowes of Gibside Esq..
Wm. Ord of Fenham Esq.

APPENDIX III

Subject: Leases etc - Sale of share. Reference: Hebburn-on-Tyne. Vol. 14 P.27.

Sale of Chas. Wrem's share.

Bidders: (1) Mrs. Ellison (Lessor)
(2) Mr. Wade.
(3) Partners of the late Commercial Bank.
(4) Mr. Kirton

- I. Sold to Mr. Kirton for £2,400- He could not complete the purchase because he was in the King's Bench at the time.
- II. Ten sold again peremptorily by auction - Again to Mr. Kirton
£12,500 (Buddle comments that this information is not true. It was put up at £12,000 but there were no bidders.)
- III. Again sold at £8,000 - Buddle comments that there was no sale as there was only one bidder.
- IV. 26/1/1802 Again for sale and this time was bought by Thos. Wade for £12,400. This sale is confirmed.

APPENDIX IV.

Subject: Pitmen's Binding Reference: Cowpen Colliery. Volume: 14 Page 32

October 1803. Pitmen bound to the following prices:

	Round	Small
High Main Seam→ a 16 Peck Corf per Score	4/5	2/6
Low " " a 20 " " " " "	5/10	1/8

Headways

High Main;	Single winning	1/2	
	Double "	1/4	
	Holing Walls	-/10	
	Narrow Bord (2yds.)	-/8	} per yard.
	(3yds.)	-/5	
	Putting- per score for first 60yards.	-/9	
<u>Low Main:</u>	Winning	1/6	
	Holing Walls per yd.	1/4	
	Hewers- putting per day	-/6	
	- double working "	-/2	
	Drivers per day	1/2	

Pitmen allowed 9 Fothers of fire coal.

APPENDIX V.

Subject: Leases, Rents etc.. Reference: Heaton & Spanish Close. Volume 14. Page 45.

4/10/1791 Distribution of other Moiety: H.Pullein $\frac{1}{2}$
R.Bigland $\frac{1}{6}$ th
A.Dunford "
Trustees of L.Stodart

Spanish Close. Lease: 31 years from 1/5/1792.

Spanish Close	-	Certain Rent = £500 p.a. for 370 $\frac{10}{27}$ ths Tens.
		27/- per Ten surplus.
Heaton	-	" = £500 p.a. for 400 Tens
		25/- per Ten surplus.

N.B. Lessors allow Lessees 1/- per Ten towards the payment of their wayleave through Walker

Memo. Sale of Share. March 1803. $\frac{1}{6}$ th share of royalty sold to T.Smith, supposedly for by W.Row, for £1120.

Coals of both collieries sell as Heaton Main.

Wayleaves: To Sir John Lawson over Byker Tentale Rent $\frac{1}{6}$ (Proposed to advance to 3/- in 1804)
To Mr.Ibbotson for leading over St.Anthony's $\frac{3}{9}$ per Ten.

Share of Mr. Lisle's Repts. viz. $\frac{3}{32}$ nds. sold by auction on 21/2/1805.
(Lists ten clauses of sales.)

N.B. Share sold to J.Buddle and Co, for £5,000 by private contract.

APPENDIX VI

Subject: Leases, Rents etc Reference: Walker Volume 14. Page. 47.

Owners: Corporation of Newcastle.

Lessees: Reprs. of the late Mr. Ord. $\frac{1}{2}$ share.

Mr. Peareth $\frac{1}{4}$ "

Mr. Reay $\frac{1}{4}$ "

In the absence of any date presume
1802.

Rent: 17/6 per Ten of 528 Bolls.

Capital investment: Owners intend to spend £3,000 in trying the Low Main Coal.

History of Title. ' Common Fame says that this estate (which formerly belonged to Sir Hugh Bethem) was purchased by the Corporation of Newcastle, but that the purchase having been made contrary to some law relative to corporations was likely to become a forfeiture to the Government, But that through the exertions of a Mr. Carr, M.P. for Newcastle, the estate was vanded to the Corporation, who, in return for Mr. Carr's services, did not return him at the succeeding election.'

(b) 1722. The Walker estate is said to be forfeit to the Corporation of Newcastle.

Reason It was purchased by the Corporation contrary to the Statutes of
Mortmain.

1723. A settlement was reached with the Government after vickent opposition with the coal owners in Newcastle and some great men in London,

APPENDIX VII.

Subject: Leases, Shareholders, Costs Reference: Twizell. Volume: 14. Page: 59-60.

Colliery worked by W.G. Johns; the Lambton undertakers; Gray and Richardson.

1800 Mr. Wade bought estate for £12,500.

Shareholders in workings: Mr. Featherstonehaugh, Mr. Croudace, MR. R. Johnson, Gray & Richardson, Mrs. J. Johnson each 1/6th.

Mr. R. Smith, Gray and Atkinson 1/12th each.

1801 Messrs. Martindale and Ramsey worked colliery at 7/5 per Chaldron.

1802. Messrs. Featherstone and Croudace purchased shares and were in possession. They were shut out of their shares in the Lambton undertakings as contrary to the spirit of their undertaking with the Lambton Family.

Lease and Terms: Lessors: Messrs Bowes and Co.

Lessee: G. Johnson

Terms.: 31 years from 12/5/1792.

- (a) Certain Rent £400 p.a.
- (b) Tentale Rent 16/- Main coal for first 21 years.
18/6 " " " last 10 "
12/- 5/4 Coal " first 21 years.
13/4 " " " last 10 "
- (c) Waggon-way rent = 2/6 per Ten per mile to lessors. Ten = 440 Bolls. £500 towards winning to be paid by Lessee.
- (d) Colliery to be wrought by viewers judgement.
- (e) Barrier of 10yds to be left.
- (f) Outstroke permitted only into Pelton Fell.
- (g) Other outstroke to be fixed by the viewers.
- (h) Lessees allowed minimum of 20 Tens for fire-engines, workmen etc..
- (i) Lessees may lead coals for 1/8 per Ten but if Twizell is laid in then £125 p.a. for 20,000 chaldrons.
- (j) Lessees not allowed any person to lead coals under 2/6 per waggon (Price rings?)

Further outgoings by colliery owners.

	£	s.	d.
Wayleave Pelton Fell to Bishop of Durham.		50	
" for 20,000 Ch's to late Mr. Lambton		500	
" to Sir R. Milbank		218	2
Staith rent		210	
" to Messrs. Lowes (£20) Picktree (£67/10/-)		87	10
		<u>1065</u>	<u>12-0</u>

APPENDIX VIII.

Subject: Leases, Rents and Costs. Reference: Pelton Fell Colliery. Volume: 14 Page: 61.

Shareholders Mr. Lambton 12/24ths.)
Sir S. Meadows 5/24ths.)
Mr. Montague 5/24ths.) Mr. Lambton works the colliery under lease from
Sir T. Liddell 2/24ths.) the other partners of their respective shares.

Rents: Certain to Mr. Montague and others - £250 p.a.
Tentale - Main Coal 18/-
5/4 Coal 13/4 Ten = 418 Bolls.

Statement of wayleave rent in Feb. 1785,

Payee	Commencement of lease	Ending	Term	£	s	d.
W. Lowes Esq. (From year to year & may easily be avoided)				40	-	-
T. Haswell	1/5/1781	1822	41 yrs.	30	-	-
Reps of J. Hutton & others for Picktree	Nov. 1770	1808	38 "	84	-	-
W. Lambton Esq.	24/12/1769	1800	31 "	280	-	-
R. Carr Esq. (Now Milbank)	12/5/1769	1796	21 "	152	2	-
W. Peareth Esq.	24/12/1778	1809	31 "	150	-	-
				<u>742</u>	<u>2</u>	<u>-</u>

Spring 1803 New agreement with Mr. Montague 13/4 per Ten.
For Lime Kiln coals 6/8 " "

In lease for lives the Lambton Family had $\frac{5}{8}$. Montague $\frac{3}{4}$ of $\frac{3}{8}$ Biss and Allen $\frac{1}{4}$ of $\frac{3}{8}$.

SEE P. 448.

APPENDIX IX.

Subject: Leases, Rents etc Reference: Usworth. Volume: 14. Page: 66.

Lessee: Sir H. V. Tempest Bt. (2/3rds.) Lewis Legg (1/3rd)

Rents.: Certain £250 p.a. to Sir W. Scott's estate of 200 acres.
£200 p.a. to Col. Blakeney. These to commence at Xmas. 1802.

The partnership of Sir Henry and Legg broke up. Sir W. Scott took £500 for cancelling the lease. Col. Blakeney asked the same sum (There is no record of whether this one was paid).

APPENDIX X.

Subject: Working Costs. Reference: Harraton

Volume: 14

Page: 70.

Estimate of working Harraton Moor Colliery by the Men on the Sea-Sale Vend of 17,000 chaldrons per annum.
Work from two pits. Allow 1,000 chaldrons p.a. for fire-engine - two machines. Land-sale, potteries etc.

	Per score	s.	d.		S.	d.
Hewing(Main Coal 20 Peck Corf	2	5		Score price = per chaldron	3	8 $\frac{1}{4}$
Putting: Horse-driver = 3/6 per day. 16 horses @ 35				Leading: 4d per men & 6d per horse per ch.		10
Corves per day	1	7		Waggonway: 2 miles @ 2/- per Ten		4
Headways: Holing wall @ 9d. per yd. Bords holed @ 22 yds.			3	Risks to undertaker: £450		
Overmen: 4 @ 12/- per week, & 1 back-deputy @ 4 $\frac{3}{4}$ per week -£2-12/-			8 $\frac{1}{2}$	Binding Pitmen: £150. Pitmen's coal ; £75		9
Oil: 33 lamps @ 1 gill per day 5 days per week & 2/9 per gallon				Suppose more for increase of way and other unforeseen needs		3 $\frac{3}{4}$
Trappers: About 14/2 per week Oiling lamps 5/10				Per chaldron	5	8
Onsetters: 2 men @ 2/6 per day			1 $\frac{1}{4}$			
Lamp-keeper: 1 @ 9/- per week but hews his coal			4			
Stoppings: Bricks, Lime etc			1 $\frac{1}{4}$			
Props, deals, nails			4 $\frac{1}{4}$			
Sledding 4d; Corving 3 $\frac{1}{2}$						
Wailing 1 $\frac{3}{4}$			9 $\frac{1}{4}$			
Smithwork, viewers etc			2			
Smithwork			3			
Drawing by each machine			3			
Coals: Difference between Mr. W's Tenale price and that charged him for coals: £30 p.a. on 8,400 scores			1			
Brakemen: 2 @ 12/- per week			1 $\frac{1}{2}$			
Wear & Tear			2 $\frac{3}{4}$			
Unforeseen charges and expenses			1 $\frac{1}{2}$			
Ropes: 6 pairs a year @ 5			4			
Per Score		8	-			

APPENDIX XI.

Subject: Costs and profits. Referenne: Harraton - Outside. Volume:14 Page 78.

Total Vend: 17805 Chaldrons.

	£	s.	d.	
Wade's Tentale for workings	5495	13	9	
Premium for collecting fitters money				
@ 6d. per Ch. ;.....	445	2	6	
His salary	100	-	-	(Buddle comment - 'For I do not know what'.)
Mr.Stobart's Bills for sundries	1482	5	6	
Rent on $\frac{2}{3}$ paid to the Baronets	1091	14	9	
River duty being 3d. per chaldron	215	17	3	
Allowance to Fitters in lieu of fire coal.....	17	11	-	
	<u>8848</u>	<u>4</u>	<u>9</u>	
A balance to Sir Ralph	4006	14	10 $\frac{1}{2}$	£

 £ Includes £21 interest for the year on 10 keels belonging to Sir Ralph.

Buddle Comment: ' No apparent entry for (a) Fatfield Wayleave and Staith Room rented to Sir Ralph and Mr. Jolliffe, nor $\frac{1}{3}$ colliery rent to Sir Ralph. This would lessen the profits considerably.

Selling Prizes of coals:

Wentworth - Upper Main Coal	15/-	per	Chaldron.
Boundary & Harraton (viz 5/4)	13/-	"	"
Inferior sort	9/-	"	"
Small	7/-	"	"
Skreened	5/-	"	"

Appendix XII.

Subject: I Marketing names. Reference: Harraton Outside. Volume: 14. Page: 91-2.

5/4 Seam is Wentworth Main on the London Coal List.

High Main Coal is Boundary Main " " " "

(Gives details of the coals in the seams and their thickness as at 29/4/1799.

Subject: II Leases etc. Undertakers & rates.

1799 Repeats in summarised form Wades and Stobart's charges.

1802 Wade ceased to work the colliery.

New undertaker: Messrs. Longridge and Co. @ 7/3 per chaldron.

Buddle Observation : It is said The undertakers engaged to give Sir Ra. Millbank 5/- per chaldron for 1,000 chaldrons to be wrought out of the Hutton Seam and others.

1802 Mr. Russell sold his bargain to Sir Ralph for , it is said, profit of £9000

1803 " " completed purchase. Filed Bill in chancery against Sir Ralph to compel the completion of the bargain.

Buddle called to make affidavit on the profits.

Subject: III Production and Profits. Buddle affidavit. 1799.

Vend 17805 Chaldrons.	Profit	£4006-14-10½
	+ Baronets	
	rent 1091-14-9
Unnecessary premium on collecting		
	cash 201-10-4½
	say	<u>5300</u>

Deductions: Interest on stocks 400

Way leave and staith rents

@ Fatfield	£500	900
		<u>4400</u>

Therefore to be calculated thus: Vend in 1802 was	25448 chaldrons
Vend to June 1803 "	12309 "
Supposed vend from 11/11/1801 to and	
with 31/12/1801	2243 "
	<u>40000</u> "

Vend stated at 37,500 chaldrons at 5/6 per chaldron £9375
 Equal to 4/8¼ " " on 40,000.

APPENDIX XII CONTD.

Subject: IV. Colliery Hazards. Reference: Harraton Outside. Volume:14. Page:94.

Memo: 1805 Detailed report of fire in Ingait of High Main Coal in Hall Pit.

Report on methods of dealing with it and fresh outbreaks elsewhere in the
Consequent explosion.

Killed - John Shipley.

APPENDIX XIII.

Subject Leases, Rents. Reference: Killingworth. Volume: 14. Page 97-98.

Lessees: Grand Allies. (Agreement with all but Mrs. Harrison.)

Term: 63 years. Rent: Certain - £ 750 p.a. for 1,000 Tens.

Tentale - 15/- per Ten 22-19 Boll waggons.

Winning free from rent for three years from 1/5/?

Lease can be terminated by 12 months notice any time.

Later agreed that rent was to be paid on leading the first Ten of coals.

N.B. Mr. Bonner and Col. Airey being Tenants in Tail can let only for 21 years, but by renewals can keep up the terms.

Mrs. Harrison's Terms (Which were finally accepted.)

1. Rent 17/6 per Ten for 23 years and 20/- per Ten afterwards.

2. £5,000 to be expended in winning before giving up.

3. Not to place engine or waggon shops within 800 yds. of mansion.

History:

New winning commenced July 1802.

" " completed Midsummer 1805 - depth 115 fathoms.

Engine on moor. Waggon way 5 miles to river.

Allies: 1. Sir Thomas Henry Liddell Bt., Ravensworth Castle.

2. Sir W.A. Cunningham Bt., Richmond, Surrey. (Appointed by High Court for the younger children of Hon. Stewart Wortley -decd.)

3. Rt. Hon. John Bowes, Earl of Strathmore.

APPENDIX XIV

Subject: Wayleaves. Reference: Urpeth. Volume: 14. Page: 103.

Wayleaves: From Urpeth Bounds to Black Fell (J.Humble)	200	£
Across Black Fell (The Bishop)	230	
Black Fell to river (Lawson and Shafto)	525	
Staithroom @ Barnstone (Sir H.V. Tempest)	120	
Part of Oxclose estate (Grand Allies)	3/- per Ten per Mile	
From Humble's pit (Shafto & Lawson)	?	
Over Peareth's way	200 (£250?)	

APPENDIX XV.

Subject: Costs - Working. R#ference: Cowpen. Volume: 14. Page: 108.

Working prices in 1805. Per 20 peck corf.

			S.	D.
Hewing --	Round ----	Per Score.	7 -	1
"	Small	" "	2 -	6
Driving -	from 16d.	per day to	3 -	
Headways	from 1/9	per yard to	2 -	5
Setting on		per day	4	
Craning		" "	2	
Horsekeeper		" week	18	
Hewing e- Double		" score	1	
Filling out small coals		" day	-	8
Wright - for rollies and sleds		" "		$8\frac{3}{4}$
Wet working		" "		4
Rammel		" "		4
Overmen - deputies etc		" "	3 -	
Sawing Fir -	per 100 ft.		3 -	
Sawing Oak -	"		6 -	
Smiths	from 2/8	per day to	3 -	4
"	New work	per lb.		5
"	Owner's iron	" "		$1\frac{1}{2}$
"	for gear, rollies, wedges	per Ten	2 -	
Masons	from 2/6	per day to	3 -	
Corving coals and stones		per score		$7\frac{1}{4}$
Engine wright		per week	21 -	
Plug and Firemen		"	14 -	
Common shifts		each	1 -	6

Appendix XVI.

Subject: Valuation preparatory to sale of share. Reference: Heaton & Baker's Main.
Volume: 14. Page: 111-114.
& 116

Details of proposals to sell 5/8ths of Heaton Colliery and the whole of Baker's Main.
A copy of Mr, Row's estimate.

Heaton. :-

		£
1803	With coals selling at 26/- per chaldron the value -	105,323.
11/11/1805	Coals now selling at 29/- per chaldron, therefore	
	increased profit =	5,000
	New value =	104,000

Then gives details of shares and calculates the price with reference to live and dead stock. (no balance sheet or output figures are given in detail.)

Baker Main. :-

1803	coals selling @ 12/-; 15/-; & 18/- per chaldron valued at	17,560
1805	coals selling @ 14/-; 18/-; & 20/- " "increased profit	1,000 p.a.
	New value .	27,500

Gives valuation of stock on farm and colliery as £8,000 but no detailed figures as to how this was computed.

Terms of lease: For Duke's coal at Lemmington.

£200 p.a. for 21 years from 25/3/1805 for 229 2/9th Tens
6/- per Ten wayleave.

£ 20 p.a. staith rent. Ten= 420 Bolls.

The Tyne Iron works will contract for 10,000 chaldrons of coals p.a. for term of ? years

Mr.Row's 2nd Estimate. 17/6/1805.

	5/8 of Heaton	55,000
	All Baker Main	2,400
	18 Keels	2,500

Letter from Mr.Row to Mr. Fenwick. 19/1/1806.

Recommends Fenwick to sell shares at the rate of £6,000 per 1/16th. and reports that - the colliery has worked 10 years; Buddle thinks that one engine could be laid off saving £2,000 p.a. ; the object of writing was to render the purchase a greater object to a purchaser.

P. 116. Sale of Mr. Row's share of Heaton.. Mr Row offered his share to Messrs. Monkhouse and Co, @ £35,000 + Fittage £3,000.

Messrs. Monkhouse and Co. bid £30,000 + Fittage £2,000. No indication of the outcome of the negotiations is given.

APPENDIX XVII

subject: Boring Account. Reference: Heaton. Volume: 14. Page: 115.

Boring Charges to a depth of 71 Fathoms.

Time of boring: 9 months. Shifts: Single for first 4 months.

Borer's wages to close of 1804 - 2/10 per day.

" " in 1805 - 3/4 " "

Borer's attendance about 21/- per week.

		£	s.	d.
<u>1804</u>	11 days man and rods @ 5/8 per day.	3-	2-	4
	11 " men's work @ 2/10 " "	1-11-		2
	Borer's wages to close of 1804	4-13-		6
<u>1805</u>	352 days man and rods @ 6/8 per day	117-	6-	8
	1056 days men only @ 3/4 " "	176		
		293-	6-	8
	Ropes used boring	5		
	Labour and materials for a brake	2		
	Sharpening the gear	9-	1-	11
	Borer's for attendance etc.	35		
		51-	1-	11
	1 horse employed 57 weeks @ 15/-	42-	15	
		391-	17-	1

APPENDIX XVIII

Subject: Parliamentary Enquiries. Reference: The Paddington Canal - Coal Trade into London. Volume: 14 Page: 117-145.

MR. Dickens in the chair.

I. Mr. Praed gave a return of the number of Tons of coal brought ~~into~~ by craft up the Grand Junction Canal beyond the North-West Park, where it was provided by the Act of 35 Geo:3 C.8 that a stone or post should be fixed beyond which no coal should be brought on the said canal.

Witnesses are called as follows to give evidence of:-

(1) Use of coal as opposed to wood in heating.

(2) Use of Paddington coal as opposed to sea-coal in the City.

(Some facts - most rather vague - on the relative prices and qualities from the consumer's point of view.)

Witnesses: i Mr. Francis Walker - Baker- Upper Mary-le-Bone St..

ii Mr. Dictus Gawdery - " - Chandler St. Grosvenor Sq..

iii Mr. Alexander Davison- " - Essex St. Strand.

23/5/1805 Ordered:

That there be laid before this committee an Act of the Number of Men raised since the commencement of the war for the service of the Navy, distinguishing such as have been raised in the ports of Sunderland and Newcastle.

APPENDIX XVIII CONTD.

Question Proposed: That it is the opinion of this committee that on account of the very great advance in the price of wood fuel for several years past the Bakers within the Bills of Mortality have been induced to make use of coal in preference to wood for baking bread and that from experience they have found the Staffordshire and other inland coal brought by the Grand Junction Canal superior to that purpose to any other coal imported into the Port of London and even preferable to wood.

Amendment: Proposed to leave out from the word bread to the end of the question.

The Main Question so amended was put and agreed to.

Ordered to attend: (1) Mr. Miller - Baker - Carnaby Market.
(2) Mr. Rogers - " - Princes St., Cavendish Sq..
(3) Mr. Anderson- King St., Portman Sq..

Then follows the evidence of the witnesses giving various opinions as to the best coals.

All agree that coal has largely replaced wood and is equally as good.

Witnesses: (a) Mr. Loveland (Aldersgate St.) - who gives qualities of bread and flour.

(b) David Creighton - Baker- 19 Gillmour St., West Smithfield.

(c) Mr. Sadler - Inspector of Chymistry and Member of the Board of Works- who had conducted tests on coal in the laboratory.

He reports that the same weight of Paddington coal - as compared with Newcastle coal - will evaporate more water.

Interesting comments on smoke hindering the access of oxygen to the coal and therefore producing less heat - in the Newcastle coals.

(d) Mr. Alderson - Lead pipe manufacturer.

The report is not continued beyond this adjournment,

APPENDIX XIX.

subject: Costs - Boring. reference: Saltwellside. Volume: 14. Page: 147.

Wake's Boring Account.

	£	s.	d.
1. Sinking, boring for and putting in 1 fathom of large square box @ 30/- per Fathom	2-	5-	
2. Boring and putting in 2nd. course of boxes; 11 fathoms viz. 5 fa. @ 25/-; 5fa. @ 30/-; 1fa. @ 35/-	15-	10-	
3. Boring and putting in 3rd. course of boxes to depth of 16 fathoms viz. 5 @ 20/-; 5 @ 25/-; 5 @ 30/-; 1 @ 35/-.....	20-	10-	
4. Boring and putting in 4th, course of boxes to depth of 25 fathoms viz. 5 @ 15/- and 5/- advance on every 5 fathoms..	31-	5-	
5. Boring and putting 5th, course of iron and copper pipes to depth of 35 fathoms; 5 @ 10/- and 5/- per fathom for every five after.	43-	15-	
6. Boring the inside hole , 49 fathoms at the common price of 5/- and five shillings advance	66-	5-	
7. Boring through three yards of whin - an extra charge.	20-		
	<u>199-</u>	<u>10-</u>	<u>-</u>

County	1806			1807		
	No. of Ch's	Price	Amount	No. of Ch's	Price	Amount
		£ s. d.	£ s. d.		£ s. d.	£ s. d.
Berks.	662	53/3	1762-11-6	533	52/-	1385-16-
Chester	44	24/-	56-16-	44	20/11	46-4
Cornwall	604	55/-	1661-	519	51/6	1336-8-6
Cumberland	40	30/-	60-	41	43/-	88-3-
Devon	5449	45/9	12464-11-9	4949	45/-	11135-5-
Dorset	1006	48/5	2435-7-2	1018	46/1½	2385-18-9
Durham	1184	14/8	868-5-4	1210	13/10½	839-8-9
Essex	10267	39/11	20491-4-5	8864	38/4	16989-6-8
Glocester	11	39/-	21-9	7	39/-	13-13-
Hants.	7469	42/2¾	15770-9-7¾	6589	40/10	13452-10-10
Hunts.	722	46/6	1678-13-	605	43/6	1315-17-6
Isle of Weight	2608	44/11	5857-2-8	2394	42/9	5117-3-6
Kent	15220	46/11	35703-11-3	14409	44/10	32345-4-¾
Lancaster	404	28/-	565-12-	418	22/9	475-9-6
Middlesex	1986	49/10	4948-9-	1924	48/2	4633-12-8
Norfolk	1177	39/11	2349-1-11	1138	38/9¼	2208-8-7½
Northumberland	620	13/10	428-16-8	622	11/3	349-17-6
Nottingham	163	22/6	183-7-6	177	21/11	193-19-3
Northampton	115	45/-	258-15-	100	38/9	193-15-
Somerset	70	44/-	154	72	36/-	129-12-
Suffolk	6505	40/-	13610	6520	38/-	12388-
Surry	809	55/-	2224-15-	749	53/-	1984-17-
Sussex	14221	47/11	34071-2-11	11163	45/8½	25523-14-8¾
Warwick	321	30/10	494-17-6	332	22/6	373-10-
Wilts	70	38/-	133-		21/10	
York	2020	23/-	2323-	2552	39/-	2854-7-6
North Britain.	9404	22/11	10775-8-4	(3323)	26/-	4319-18-
			(6270)	(6270)	21/10	6844-15-
Guernsey 2681)				2722		
Jersey 3636)	6695	63/11	21396-2-1	2739	62/4½	17436-18-7½
Alderney 378)				130		
Totals	89,866		£192143-10-¾	82132		£166361-11-3

Subject: Lowest tender for coal prices in various parts of the country. Volume: 14. P. 148.

Appendix XXI.

Subject: Costs-Capital. Sinking. Reference: Howden. Volume:14. Page: 150.
1808. Howden Pit (Percy Main Colliery)

	£	s.	d.	£	s.	d.
To the amount of fixed stock as at last years valuation				13807	12	8
<u>Expenditure this year</u>						
To casing and scaffolding	25	-	-			
To 20 fathoms of rough cleating @ £6-10/-	130	-	-			
To cash paid -sinkers' wages.	1118	8	-			
" " " - Engine mens' wages	448	12	6			
To wedge wood and workmanship	25	-	-			
To coals and leading	200	-	-			
To sharpening sinkers' gear.	80	-	-			
To wherry hire	50	-	-			
To sinking corves	15	-	-			
To materials from store(i.e, leather, paint, candles, gun-powder, hack-shafts,etc.)	554	19	- 9			
To leading materials to new pit	150	-	-			
To labouring work, making heapstead etc.	350	-	-			
To sinking counterbalance staples, walling heapstead and building tube	100	-	-			
To keeping 6 horses @ £40	240	-	-			
To bricks and lime	50	-	-			
To building 10 double houses @ £75 and 17 single @ £50	1600	-	-	5137	-	- 3
Total amount fixed stock				18944	12	11
Amount of movable stock per inventory 31/12/1808				13687	11	8
				32632	4	5

Appendix XXII

Subject: Marketing. Reference: Requirements of the market. Volume: 14. Page: 151.

Quantity of coals required at the following Naval establishments.

Required: Tanfield Moor, Windsor or Simpson's Pontop, or Adam's Main Coals or any other good strong Newcastle coals.

Centre.	Reqd.in Ch's.	Delivery	Centre.	Reqd. in Ch's.	Delivery
Deptford	680	340 by 24/6/1810	Woolwich	920	300 in April, 300 in Sept
		340 by 29/9/1810			300 in Feb
Chatnam	1059	300 by 20/4/1810	Portsmouth	2590	600 by 31/5, 31/7 & 30/9.
		400 by 31/7/ "			790 by 31/12/1810.
		359 by 30/9/ "	Do.	2500	600 by 31/5, 31/7, 30/9.
Sheerness	861	200 in May	Do. Coked	150	700 by 31/12.
		200 in Aug. 100 in Dec.			50 by 31/7, 30/9, 30/11.
Plymouth	1390	400 by 1/5, 1/7, 1/10.	Navy Office	120	in July.
		190 by 1/12	Total	10270	Chaldrons.

Appendix XXIII

Subject: Labour- Establishments for hewers in Tyne Colls. 1804-5 Volume:14 page: 197

Coll.on-Tyne.	Bound Oct 1804	Bound Oct 1805	Regulated		Bound more than Regulated	Bound short of regulated	Drivers bound for Hewers '04	Offhand work	bound	Dead Run off Left C
			Regulated	more than Regulated						
Flatworth	40	42	40	2	-	-	3	3	-	-
Percy Main	125	108	108	--	-	-	11	5	2	4
Murton	-	49	50	-	1	-	-	-	-	-
Benton	89	67	90	-	23	5	5	21	-	1
Willington	97	94	99	-	5	12	12	10	-	3
Bigges Main	80	77	75	2	-	5	5	8	-	1
Wallsend	110	104	113	-	9	6	6	6	-	7
Walker	110	98	97	1	-	2	2	13	-	12
Heaton	105	93	93	-	-	8	8	8	-	10
Benwell	77	70	65	5	-	-	-	1	-	5
Montague	46	41	41	-	-	1	1	2	-	-
East Kenton	65	57	57	-	-	-	-	4	1	1
Bakers Main	50	38	53	-	15	3	3	4	-	6
Walbottle	51	49	58	-	9	-	-	2	2	2
Holy Well	60	53	59	-	6	5	5	-	4	2
Wylam	90	64	71	-	7	5	5	2	-	13
Crofts Main	51	52	51	1	-	5	5	-	2	3
Whitefield	77	63	63	-	-	2	2	3	6	3
Gairsfield	48	39	40	-	1	2	2	3	1	4
Pontop	75	63	64	-	1	3	3	6	-	3
Temple Main	117	105	109	-	4	4	4	8	-	6
South Moor	41	39	42	--	3	2	2	-	-	3
Low Moor	18	16	15	1	-	-	-	2	-	1
Warley Hill	19	16	15	1	-	3	3	-	-	-
Team	70	65	64	1	-	2	2	4	-	1
Tyne Main	37	32	48	-	16	-	-	1	-	2
Sheriff Hill	67	63	66	-	3	4	4	3	-	4
Brandling	101	74	74	-	-	2	2	5	2	5
Hebburn	118	111	118	-	7	7	7	15	3	19
Tanfield Moor	42	39	39	-	-	4	4	-	-	-
Killingworth	-	75	92	-	17	-	-	8	-	-
Elswick	-	48	46	2	-	-	-	2	-	-
West Kenton	36	32	32	-	-	4	4	-	-	3
Gosforth	-	2	-	-	-	-	-	-	5	-
(Landsale)										
Total	2112	2038	2147	16	127	110	151	28	124	

Appendix XXIV

Subject: Labour - Establishments for hewers in the Blyth Collieries. Volume: 14. Page: 198

Colliery	Bound Oct 1804	Bound Oct 1805	Regulated Number	Bound over Regulation	Bound un- der Reg.	New Hewers	Gone to Off- hand wk	Un- bound	Dead c left Coll.
Plessey	77	71	90	-	19	3	-	-	6
Cowpen	118	90	90	-	-	-	6	1	14
Hartley	121	103	107	-	4	4	8	6	4
Totals	316	264	287	-	23	7	14	7	24

Hewers Allowed on an average of 3yrs. Abating 1/20th.	Short	Over	Hewers Bound Oct. 1804	C Collieries.	Hewers Bound Oct 1805 belonging to Coll.	Died etc from Oct 1804 to Oct. 1805	Engaged to sink etc. at their own coll.	Unbound Oct 1805	Hewers bound away in Oct 1805	Own men bound again Oct. 1805	Last years hewers from different colls. bound 1805	Sundry own men bound to hew Oct. 1805	Total Bound Oct 1805	Offhand men bound away as newers	Hews. bound Wear to Collyne	Hews. bound Fyne to Wear	Hews. bound to landsale	Hews. bound from "	Last years Hews, bound as off-hand men
75	-	-	87	Sir T. Liddell & Ptnrs.	38	4	7	1	37	38	33	2	73	-	13	17	.	.	.
55	-	-	65	Sir J. Eden Bt.	46	6	3	-	10	46	9	-	55	-	2	8	3	-	-
67	10	-	75	Sir R. Millbank Bt.	31	3	7	-	34	31	21	5	57	-	7	5	5	2	-
43	6	-	46	Longridge & Co.	15	-	1	-	30	15	22	-	37	-	6	-	-	-	-
316	-	2	347	Lambton Colls.	255	10	11	5	66	255	49	14	318	6	28	4	-	4	4
56	-	-	53	Pelton Fell	38	4	5	2	4	38	15	3	56	-	1	1	-	-	-
247	-	-	287	Sir H.V. Tempest.	169	23	17	-	78	169	72	6	247	-	32	13	7	-	4
60	-	3	79	Mrs. Lambton	47	12	4	-	16	47	14	2	63	-	1	#	-	-	-
72	-	-	81	Newbottle Coll.	62	1	5	1	12	62	10	-	72	-	9	-	-	-	3
87	4	-	82	J. Hudson Esq.	56	9	5	-	12	56	24	3	83	-	3	4	-	-	-
123	5	-	141	Wm. Russell Esq.	89	10	9	-	33	89	20	9	118	-	16	5	-	-	-
29	9	-	34	W. Peareth. Harrat- on	14	7	-	-	20	14	4	2	20	-	-	-	-	-	-
42	-	11	42	" Leaffield	22	3	3	-	14	22	27	4	53	-	5	1	-	-	1
51	2	-	61	" Urpeth	29	4	6	2	20	29	18	2	49	-	-	5	-	-	-
40	28	-	40	Twizell Coll.	12	-	-	-	28	12	-	-	12	-	-	-	-	-	-
52	3	-	52	Mr. Humble's	12	6	-	1	33	12	35	2	49	-	19	10	-	2	-
30	7	7	17	Ouston Coll.	3	2	-	-	12	3	20	-	23	-	4	15	-	-	-
1443	74	16	1589	Totals	938	97	83	12	459	938	393	54	1385	6	146	88	15	8	12

Collieries	CHALDERONS		CHALDERONS		Total.
	Vend Coastwise	River Vend	Landsale	River Vend	
Baker's Main	3528	270	-	-	3798
Benwell	31238	-	-	-	31238
Benton	21743	3285	808	-	25836
Bigge's Main	30075	782	360	-	31217
Croft's Main	9233	1841	60	-	11134
East Kenton	17475	-	-	-	17475
Elswick	-	-	-	-	-
Felling	27650	3256	717	-	31623
Garesfield	5061	3982	-	-	9043
Flatworth	11199	646	1060	-	12905
Hebburn	42457	1542	149	-	44148
Heaton	32430	1384	327	-	34141
Hollywell & Walbottle	15496	11394	202	-	27092
Low Moor	5508	16	25	-	5549
Marley Hill	6365	-	246	-	6611
Murton	8462	463	438	-	9363
Montague Main	12771	-	-	-	12771
Percy Main	36652	3348	1471	-	41471
Pontop	32288	-	-	-	32288
Team	22003	1537	1464	-	25004
Temple Main	30068	4919	539	-	35526
Tanfield Moor	17159	-	830	-	17989
Wallsend	60132	818	-	-	60950
Walker	37663	-	-	-	37663
Wllington	40362	2040	854	-	43256
Wylam	11049	-	-	-	11049
Sheriff Hill	17061	3610	1655	-	22326
Tyne Main	16434	3100	-	-	19534
South Moor	13954	174	120	-	14248
Whitefield	12796	3936	178	-	16910
West Kenton	8323	846	1120	-	10289
Totals	636635	53189	12623	-	702447

Total.

Subject: Vend from Blyth 1804 Appendix XXVII Volume: 14. Page: 201

Colliery	Sea Vend:	River Sale:	Land Sale:	Total
Cowpen	16393	6	90	16483
Hartley	15986	4613	958	21557
Plessey	?	?	?	?
TOTAL	?	?	?	?

Appendix XXVIII

Subject: Production - Newcastle Vend & London Exports 1661-1806 Vol:14 P.205-7

Year:	Ncle.Vend in Ncle Ch.	London Import in Lnd. Ch.	Year :	Ncle Vend in Ncle Ch's	London Import in London Ch's.
1661	166919		1709	210602	
2	194421		1710	168015	
3	178747		1		
4	198369		2		
5	124124		3		346307
6	84101		4		413723
7	106422		5		387859
8	188420		6		411876
9	175920		7		440345
1670	185100		8		411815
1	189241		9		420363
2	150429		1720		424279
3	156053		1		459145
4	170268		2		459734
5	194268		3	261624	458238
6	194946		4	252858	450851
7	194405		5	266489	471326
8	217782		6	286472	507755
9	194948		7	276117	495815
1680	202262		8	246969	453048
1 2	2169 218942		9	293494	494187
2	190380		1730	276750	454992 ^{1/2}
3	210972		1	311278	475281 ^{1/2}
4	204770		2	269126	450758
5	213659		3	291309	495925 ^{1/2}
6	178265		4	274113	447616 ^{1/2}
7	198528		5	282333	503435 ^{1/2}
8	231265		6	297346	512105 ^{3/4}
9	167663		7	275731	476448
1690	136847		8	270859	491312 ^{1/2}
1	177270		9	288070	441602
2	156299		1740	320847	563491 ^{3/4}
3	179656		1	262987	453400 ^{1/2}
4	160413		2	270736	456727 ^{1/2}
5	170974		3	297771	487823 ^{1/2}
6	151096		4	272959	463472 ^{1/2}
7	181280		5	295179	465258 ^{1/2}
8	211395		6	303355	492378 ^{1/2}
9	221380		7	259077	465087
1700	204739		8	271048	473241 ^{1/2}
1	244756		9	298673	502306 ^{1/2}
2	153439		1750	288088	463069 ^{3/4}
3	170046		1	343352	539395
4	198298		2	307574	507308 ^{3/4}
5	182481		3	301473	508814
6	160000		4	305044	537353 ^{3/4}
7	151243		5	293781	475898 ^{3/4}
8	193471				

Appendix XXVIII Contd.

Year	Newcastle Vend in Ncle Ch's	London Import : in Lond.Ch's:	Year:	Ncle Vend in Ncle.Ch's:	London Imports in Lond. Ch's.
1756	311372	550419	1800	589199	1005353 $\frac{1}{4}$
7	274431	504306 $\frac{3}{4}$	1	501629	859737 $\frac{1}{4}$
8	240252	453606 $\frac{1}{2}$	2	539816	902284 $\frac{1}{4}$
9	301861	545744 $\frac{1}{2}$	3	551258	940470 $\frac{1}{2}$
1760	284665	501678	4	628595	947001 $\frac{3}{4}$
1	327942	507612 $\frac{5}{4}$	5	602879	971263
2	294476	567319 $\frac{1}{4}$	6	633423	987750
3	293618	565011 $\frac{1}{4}$			
4	348647	605439 $\frac{1}{4}$			
5	368729	587754			
6	353762	638835			
7	351486	599018			
8	371043	613842			
9	357645 357645	644872			
1770	356198	613494			
1	387080	677869			
2 2	4119139 4119139	721927 $\frac{1}{4}$			
3	336505	645434			
4	350804	614981			
5	367157	660720			
6	378316	689920			
7	374511	685489			
8	370452	640473			
9	318212	588624			
1780	366260	656175			
1	335440	650691			
2	364164	660846			
3	413411 $\frac{1}{2}$	695329			
4	458622	719120			
5	449997 $\frac{1}{2}$	734826 $\frac{1}{4}$			
6	433209 $\frac{1}{2}$	738572 $\frac{1}{4}$			
7	410547	752880 $\frac{1}{2}$			
8	445865 $\frac{1}{4}$	760302 $\frac{3}{4}$			
9	486630	795421 $\frac{3}{4}$			
1790	408498	747329			
1	431989	824990 $\frac{1}{2}$			
2	490682	841380			
3	456131	800510			
4	426384	788774 $\frac{1}{2}$			
5	505650	887759			
6	476677	858634 $\frac{1}{2}$			
7	486644	864497 $\frac{3}{4}$			
8	433448	786200			
9	483902	862087 $\frac{1}{4}$			

Appendix XXIX

Subject: Coal Prices - comparative costs to shipowners on wear & Tyne Volume:14. P.211

	Tyne £ s. d.	Wear £ s. d.
Usworth Best coals		
Fitters Prices per Ch	1- 1-	19-
Duke of Richmond " "	1-	
Keel dues " "	2- 1½	2- ¾
Town's dues " "	2	
Trimming " "	5½	4½
Custom House	9½	9½
Fittage		3-
BY KEELS	<hr/> 1- 5- 6½	<hr/> 1-5- 5¾
Fitters' Prices per Ch.	1- 1	
Spoutage	6	
Coast duty	1-	
Town's dues-	2	
Trimming	5½	
Custom House	9½	
BY SPOUTS	<hr/> 1- 3-11	

Survey of output from various collieries in 1700

Name.	No. of Pits	Output, Scores per day.
Stella Grand Lease Partners		
Main -	5	105
Top	2	24
Mr. John Clavering	5	104
Do. Biremoor(Shiremoor?)	?	?
Parson's Flatt	1	12
Lord Widdrington's Stella	4	75
Hedley Fell, Beach etc	1	25
Sir W. Blakett - Scotswood	3	50
Do. Barlow Fell	4	40
Sward and Midford Field	4	42
Mr. Owen High Felling	2	16
Alderman White - High Park	?	?
Sir. R. Carr - Wilson's Field	4	55
Bensham Partners	2	42
Petty owners at Gateshead	7	20
Redheugh Partners	2	31
Pape Hill	1	21
Sir H. Liddell - Cox Close	3	48
Blackburn, Partners	?	?
Tanfield Moor	?	?

Subject: (1) Reports (T)
(2) Valuations

Reference: Heaton & Spanish Closes. Volume: 14. Page: 401-12

Queries and replies on the reserves and the manner of working them. - 30/3/1802

(2) Valuations. Estimates of the value of share of 1/46 th. with the present prices
@ 27/- per Ten of 440 Bolls - Detailed calculations are given.

The full value of Mr. Atkinson's shares (1/6th.)	£11,625 -8 -4
" " " " shares to be sold	£ 4,000

Table calculating output and vend of the two collieries from 9/4/1792 - 21/4/1802.

Total	=	349457 Chaldrons - 10 Bolls. Thus:
To sea	-	316417 Chs.
Landsale	-	5605
Main engine drawing		
water	-	485 Ch's p.a.
Pitmen's fire coals		
813 ch's p.a.		8130
Coals consumed by underground		
furnace		1620
Coals consumed by Bigges		
Main machines		226
Coals consumed by pit fires		
and smiths		2500
Coals consumed by winding		
engines		9974
		<u>349322</u>

Table showing number of coal Bolls composing a Ten.

	<u>Tyne</u>		<u>Wear</u>
	Bolls		Bolls
Whitefield	550	Pelton Fell	418
Gaires-field	440	Twizell	440
Pontop Pike	440	Urpeth	440
Tanfield Moor	--	Leefield	440
South Moor	440	Old Washington	440
Crawcrook	--	New "	440
West Denton	440	Lumley Park	420
East "	440	Newbottle	--
Benwell	440	Eden's Main	420
East Kenton	440		
Heaton	440		
Bigge's Main	528		
Willington	--		
Benton	418		
Flatworth	420		
Wallsend	528		
Walker	528		
Lawson's Main	528		
Hebburn	418		
Usworth	440		
Felling	442		
(Dean & Chapter)			
Gateshead Park	418		
Sheriff Hill	418		
Team	440		
St. Anthony's	440		

Subject: Costs-Working. Reference: Winlaton Lordship. Volume : 14. Reference: 436.

Estimate of the expense of laying 5/4 and Stone coal from Gaires Field and Parlow Fell Collieries upon the staith at Derwenthaugh per Chaldron ; based on a vend 14,000 ch's.

	s.	d.
Hewing with a 24 peck corf-per score	3	8
Putting upon a mean "	1	-
Driving,winning headways & holing		
walks	5	
Overmen,candles, oils etc.	5	
Double and wet working & setting		
through troubles under coal height	1	$\frac{1}{2}$
Props,deals,barrow ways,spelkings	2	
nails etc.	6	
Drawing the coals and finding ropes	10	$\frac{1}{4}$
Slidding out the coals	4	
Corving	5	
Waling & shovelling	3	
Smith & wright	2	$\frac{3}{4}$
Sinking & Drifting	2	
	<hr/>	
	8	$6\frac{1}{2}$
8/6 $\frac{1}{2}$ per score is	3	5
per ch.		
Binding pitmen	1	
Workmen's fire coal	1	$\frac{1}{4}$
Colliery rent 7 $\frac{3}{4}$ d. Damage to ground	2	
$\frac{1}{2}$ d.	8	$\frac{1}{4}$
Leading coals to staith with chaldron		
waggon	1	4
Cesses & Taxes $\frac{3}{4}$ d. Office Expenses $\frac{1}{2}$	1	$\frac{1}{4}$
Repairing waggon-way to the joining		
of Simpson's way, ashing the runs,		
coals etc.....	1	$\frac{3}{4}$
Simpson for repairing waggon-way to		
Derwenthaugh	4	
Repairing the waggon 4d. Staith ex-		
penses 2 $\frac{1}{2}$. Leading materials $\frac{3}{4}$. inter-		
est and Capital sunk 2 $\frac{1}{2}$.	9	$\frac{3}{4}$
Unforseen expense.	3	$\frac{3}{4}$
	<hr/>	
	7	6
	<hr/>	

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Page	SUBJECT.	REFERENCE.	DATE	NOTES
1-3	Faults in Iron Castings	Chas. Smith Swansea	17/2/1802	Letter giving: (a) Current practice in England re responsibility of Iron Founders for faults in work. (b) Nature of strengthening pipes.
4	Hay-Purchase	Wilkinson (Boston Lincs)	28/5/1802	Commission to purchase hay and terms of supply. ₤
5	Wire Fencing	Marley (Leeds)	28/5/1802	Letter requesting supply of wire fencing and prices.
5	Hay-Purchase	Wilkinson (Boston)	19/6/1802	Second letter in which he makes final offer £5 per ton and terms.
6-7	New Ropes & Machines (Installation)	Mr. Curr (London)	15/9/1802	Report on work (to possible owner), arrival of machine & delay in delivery of ropes. (b) Prices of Rails and haulage. ₤
8-9	Ropes - Bills & Cartage	John Curr	28/9/1802	(a) Renders A/C for ropes & mentions price paid to ship's Captain for carriage. (b) Matter re introduction of flat ropes supra round.
10-11	Winding Engine & Counting Machine	Boulton & Watt	13/10/1802	(a) Request for tender for Percy Main Winding Engine. (b) Quotes price bill for Counting House Machine.
11-13	Output Maintenance of supply of Main Coal-Washington	M. Russell M.P.	11/5/1803	(a) Hay - stock piling. (b) Supply of coal during sinking of New Pit to Main Coal. (c) Stoppage of coal trade by Navy Impress of Keelmen. (d) Vend figures for Wallsend. ₤
				₤ Good source of economic data.

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
14-16	(a) Trade Stoppage (b) Lay off of Shifts - (c) Precedence (d) Frigates (e) Remaining (f) Stockpiling - hay & oats (g) Advance of prices due to (h) Possible reduction in price of	Impressed Keelmen Limitation of output as result. of Bound men over unbound in laying idle. Captain 's new orders to sail to Nore with Pressed men. keelmen on strike. - preparations to war declared. - " " " " Walker unscreened coal.	18/5/1803	To M. Russell M.P. ⌘
17-19	(a) Percy Main Engine - Discussion on R.P.M's - Very advanced design.	To J.Curr (Sheffield) 24/5/1803		
20	Cowpen Coll.	Sale of 2 Shares (To Mowbray Dhm.) 10/6/1803		
21-22	(a) Bills for Castings. - Wallsend Colliery. (b) Problems & dangers of Stress on Axle/Wheel of Winding Engine-Percy Main. (c) Arrival of Packet with rail roads. (d) Comments on successful working of Flat ropes - working life.	To J.Curr 12/6/1803		
23	(a) - Cowpen Colliery Shares & returns on Capital Investment	To Mowbray (Durham) 22/6/1803		N.B. ⌘
24	Sale of Black Boy Quarries.	To Stobart- Lumley Park- Chester-le-St. 26/6/1803		
24	Do. Wm. Emm Auckland Castle 26/6/1803			
				⌘ Good source of economic data.

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Page	ADDRESSEE	REFERENCE	DATE	NOTES	SUBJECT
25(a)	Thomas Wade (London)		29/6/1803	(a)	Attempts to cope with water while tubbing - Wallsend.
25(b)				(b)	Drill-hole water problem - Crawcrook.
26(a)	J. Curr (Sheffield)		17/7/1803	(a)	Accident to Winding Engine.
				(b)	Order of New Engine from Boulton Watt.
26(b)	W. HALAND (Birmingham)		6/11/1803	(a)	Purchase of rifles
				(b)	Price of rifles Whatever for? VOLUNTEER RIFLE CORP
27	Messrs. Underhill & Dutton (Birmingham)		6/11/1803		Order for officers' and sergeants' uniforms.
28	Messrs. Gibbins & Copper Co.		6/11/1803		Refusal of invitation to visit S. Wales.
29	Mr. Osborne (Birmingham)		17/11/1803		Order for Sabres for officers in Corps. (?)
30	Mr. Harrison (Birmingham)		17/11/1803		Order for Powder-Horns.
30	Mr. Grice & Maniss (Birmingham)		17/11/1803		Order of rifles.
31	Mr. Kittland (Birmingham)		18/11/1803		Order of rifles and pistols.
32	Messrs. Underhill & Dutton (Birmingham)		18/11/1803	" " " "	Accoutrements
33-34	Do.		1/12/1803		Do.
34	Mr. Kitland		1/12/1803		Delivery of rifles.
35	Mr. Harrison		2/12/1803		Sir Wm. W. Ridley's Bill re invoice for Powder Horns.
36	C. Bragge - War Office		4/12/1803		Wallsend Rifle Corps Volunteers - Recommendation for Commission for J. Hogget by C.O. (Buddle).
37	Wall of A. Morpeth (Durham)		4/12/1803		Wall of Quarry.
38	Duke of Northumberland		9/12/1803		Supply of Ammunition for practice of Corps.

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Page	SUBJECT ADDRESSER	REFERENCE.	DATE.	NOTES SUBJECT
39	Mr. Kitland		18/12/1803	Non-arrival of files.
40	Underhill & Dutton		18/12/1803	Accoutrements
41	Mr. Kitland		20/12/1803	Rifle Order. Invoice.
42	Mr. Emm. Auckland Castle		26/12/1803	Legal Case for Coal under Coundon. Bishop v. Lessors & effects on Black Boy Colliery. Leases & Titles.
43	Mr. Kitland		29/12/1803	Rifles - size of bullets & moulds. Invoice.
43	G. Harrison Birmingham		29/12/1803	Powder horns. Invoice.
44	Underhill & Dutton		9/1/1804	Accoutrements.
45	Kitland		23/1/1804	Rifles.
46	Do.			Officers' Coxps.
47-48	J. Curr. Sheffield		27/1/1804	Delivery of 8" pipe . Price quoted.
48	N. St. Paul Jr. Belford		27/1/1804	Leases.
49	E. Inge Esq. Coventry		3/2/1804	Purchase of shares in Wyken Colliery. ⌘
50	Kitland		4/2/1804	Rifles - Invoice & Prices.
	(Pages misnumbered - jumps from 50-60)			
61	H. Osborn (Birmingham)		11/2/1804	Invoice for swords.
62	J. Curr Sheffield		12/2/1804	Wykin Colliery Shares - Prices quoted. ⌘
63	Underhill & Dutton		13/2/1804	Invoice for sashes etc.
64	E. Inge Coventry		17/2/1804	Sale of Wykin Shares. Prevarication.
65	J. Curr Sheffield		27/2/1804	Purchase of shares in Colliery on River Burry (South Wales).
66	Underhill & Dutton		29/2/1804	Account Rendered.
66	Kitland		29/2/1804	Invoice Rifles.
66	H. Morris (Birmingham)		4/3/1804	Order Rifles.
67	J. Curr Sheffield		7/3/1804	(a) Requested tender for winding engine at Durham. (b) Matters re Peareth's engine.

⌘ Good source of economic data.

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Page	ADDRESSEE	REFERENCE	DATE	NOTES	SUBJECT
68	T. Robinson	Belford	7/3/1804		Appointment re Colliery business.
68	R. Thorp	Alnwick	7/3/1804		Re Robinson's Appointment.
69	R. Atkinson	Netherton	7/3/1804		A/C re rail-road.
69	Lieut. Col. Blackeney		15/3/1804		Supply of cartridges.
70	J. Curr		27/3/1804		Shares in Wykin Colliery & Questionnaire (T)
71	Kitland		3/4/1804		Bill for Rifles.
72	Messrs. Salvin	(Durham)	4/4/1804		Bill for Pit Rope.
73	Lieut. Col. Blackeney		4/4/1804		Carts for Transport of Corps' baggage.
74	Sir J. Swinburn (Cowheaton Northumberland)		4/4/1804		Recommendations for: (a) Surgeon (b) Lieutenant in Corps.
74	Curr or Banks & E. Inge		11/4/1804		(a) Wykin Colliery. (b) Wades Account.
75	Morris-Gunmaker		29/4/1804		Bill for Rifles.
76	Kitland (Birmingham)		11/6/1804		Rifles.
77	Do.		7/7/1804		Rifles - Account.
77-78	G. Waldie Kelso		2/8/1804		(a) Shares in Sherif-Hill Colliery. (b) Workings at Percy Main. (c) Attempt to fix price ring at next binding to countermen's 'extravagant' ideas.
78-79	Do.		11/8/1804		(a) Sherriff-Hill Abstraction . <i>Arbitration</i> . (b) Workings and vend at Percy Main.
80	J. Bowlby	Durham	13/8/1804		Request to Dean & Chapter for Owners of Percy Main to work Howden Pans by outstroke.
81	Brig. Gen. Kir	Durham			Inspection of Corps.
82	G. Winn	Lincoln's Inn	28/10/1804		Newburgh Park - Inclusion of Limestone Quarries, in Colliery Lease.
82-84	J. Curr	Sheffield	4/11/1804		Wykin Colliery - water & strata.

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No.	ADDRESS	REFERENCE.	DATE.	NOTES SUBJECT
85	N. Ogle Newcastle	22/11/1804		Building Site Plan on Fowler's Farm.
86	J. Elliott Edinburgh	26/2/1805		Expense A/C re viewing of Newton Colliery. Professional fees. ⌘
87-88	J. Luckie " "	26/2/1805		Estimate for Colliery Wagon-Way Do. Costs of all items.
89	W. Bellasyse Knaresborough	25/3/1805		Interpretations and comment on Boring A/C @ Coxwold.
90-92	J. Elliott Edinburgh	25/3/1805		(a) Comments on legal and practical position re water courses. (b) Summary of legal state pertaining to Glebe lands.
93-94	R. Wilson Lincoln's Inn field	23/4/1805		Comments re sale of building sites in South Shields.
94-96	T. Pix Jr. Lamberhurst Kent.	29/4/1805		Order for corver's rods (+ indication of price) & pit props.
96	Thos. Bowes Darlington	10/5/1805		Wayleave through Benwell Park.
97	Wm. Burrell Alnwick	6/6/1805		Doddington Colliery Estimates (a) New Winning (b) Winding Engines } Buddle's observations on same. ⌘
Insert Paper 1	Mr. Burrell Broompark	May 1805		Doddington Colliery.
98	Wm. Peareth Buxton	4/9/1805		Urpeth Colliery New Sinking (a) Report on Inrush of water & quick sand into shaft. (b) Iron tubing as means of passing quicksand.
99	Mr. J. Urwick London	26/9/1805		Gift of 6doz Claret to Buddle by Mr. Laybourne.
100-101	Col. Wanchope Edinburgh	12/1/1806		Newton Colliery - (a) Lack of profits & possible causes. (b) Suggests letting to Undertaker.
102	Mr. Leith Engineer	12/1/1806		Newton Colliery - Failure of Air Pump.
103	W. Surtees Bath	26/1/1806		Harton Colliery - Possible Sale of Mr. Rows 46/96 Shares. Gives Price of Shares & Colliery Valuation.

⌘ Good source of economic data.

Page	SUBJECT ADDRESSEE	REFERENCE	DATE	NOTES SUBJECT
107	Col. Wanchope Edinburgh		26/1/1806	Newton Colliery - Details re proposed letting N.B. ⌘
(Pages mis numbered - next reads:)				
132	W. Ismay Newcastle		7/2/1806	Elswick Pit - Report on troubles. Killingworth Coals - Market Quality.
134	Mr. Curr Esq.		23/2/1806	Flat Ropes - Survey of Wear & Tear on Wear Collieries. (b) Sale of Timber to Phineas Crowther. (c) Railway Prices. ⌘
137				
138	C. Elliott Edinburgh		3/3/1806	Lease of Newton Colliery.
139	G.P. Burrell Alnwick		22/3/1806	Interest on Investment at Tyne Bank.
140-142	T. Ismay Newcastle		13/4/1806	Elswick - Profits - Effect of water on Output - Prices etc. ⌘
143	H. Salvin		9/5/1806	Elvet Colliery - Danger of working through into Drowned waste.
144	" "		20/5/1806	Elvet Colliery - Directions for extent of future workings.
145	Nicholson S. Shields		27/5/1806	Renting his landing to Mr. Temple for Coal Staith.
146	J. Erskin Esq. Montrose		9/6/1806	Tender for supply of Wallsend Coal, Prices (including freight) etc. N.B.
148	J. Devy Coal Exchange London		22/6/1806	(a) Appointment as London Agent of Hebburn Colliery - Sal £50 p.a. (b) Notification of sailing of vessel with sample of Hebburn Coals. (Worked under River from Walker) (c) Possible reasons for depreciation of Coals on London Market?
150	C. Duncombe Esq. M.P.		1/7/1806	Appointment to visit client.
150	WM. Row Esq.		13/7/1806	Heaton Colliery sale & Half year's dividend due.
151	G. Waldie Kelso		17/8/1806	Percy Main Colliery - Creep - closed. (a) Transfer of Men, boys & horses to Flatworth as consequence. (b) Lending of men and horses and sale of surplus.
153				

⌘ Good source of economic data.

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Pg.	SUBJECT ADDRESSEE	REFERENCE	DATE	NOTES - SUBJECT
154	G. Silvertop Esq.	26/10/	1806	Notification of death of father - application for his post.
155-156	T. Hsmay Newcastle	10/11/	1806	Elswick Colliery - Water - suggestion for more powerful pumping engine and reasons.
157	R. Lambert Newcastle	14/11/	1806	Killingworth Colliery - New claim for outstroke rent.
158-159	M. Laing Edinburgh	23/11/	1806	Supply of Plates for railway. #
159	J. Devy Coal Exchange London	7/12/	1806	Appointment as agent for Walker Coals.
160	G. Ainsley Lancashire	12/11/	1806	Reply following offer of Standish's Colliery.
161-163	Do.	7/12/	1806	Proposed Lease at Stella of Standish land to Mr. Silvertop. #
163	Mr. Silvertop	10/12/	1806	Do. Copy to Mr. Silvertop.
164-165	H. Scott Mertown	7/12/	1806	Supply of Foreman for new brick - works.
166-167	G. Silvertop	18/12/	1806	Lease of ground at Stella #
167	J. Devy London	21/12/	1806	Walker & Hebburn agencies #
168-169	Mr. Ainsley	22/12/	1806	Lease of Ground at Stella #
170	G. Silvertop	21/12/	1806	Do. #
171-172	Mr. Russell M.P.	2/1/	1807	Sale of Mr. Row's shares in Heaton #
173-174	T. Ismay Newcastle	4/1/	1807	Elswick Colliery - matter relative to its unprofitableness. #
175	Mr. Ainsley Raves.	16/1/	1807	Letter re Mr. Silvertop's lease of Hilda Colliery #
176	Mr. Row	13/1/	1807	Heaton Colliery. Matters re profit for 1806 # Profit & vend quoted. (Too small in Buddle's opinion.)
179	Mr. Russell M.P. Brancepeth Castle	14/1/	1807	(a) Heaton Colliery - Reserves of coal. (b) Wallsend Output since 1/1/1807 (c) Price of Carf Rods.
181	Do.	16/1/	1807	Proposed sale of Row's shares in Heaton.
183-184	Mr. Russell & Nicholson Wearmouth			Heaton Colliery Shares. Bargaining with Bainbridge.
185	W. Surtees Bath	22/1/	1807	(a) Benwell Colliery matters - Depressed state of Trade. Profit for 1806 - comparison with previous years. # Attempts to explain fall in profits. (b) Professional scale of fees for viewers.

Good source of economic data.

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188	Mr. Thompson Newcastle		22/1/1807	Letter reporting output from Lumley Colliery for three and a half years ending 30/6/1806. Cf. with Lambton v Reeves.
189	Mr. Russell Brancepeth Castle		25/1/1807	Heaton Colliery share - Sparring with Bank. (b) Wallsend vend to date. (c) Matters re Buddle 'outside jobs'
191	Mr. Ainsley		25/1/1807	Stella lease - Reserved Ground (no developments)
192	J. Dewy London		25/1/1807	Reply to complaints re dirty coal in London Market. (So. Hebburn Colliery)
193-195	W. Surtees Bath		11/2/1807	Burraton Estate - Survey & Report - Terms of Lease.
196-198	W. & D. Smith - Commissioners to Duke of Northumberland		22/2/1807	Shilbottle Colliery - Colliery View & Report.
198	W. Russell		25/2/1807	(a) Opening of New Pit (Wallsend) (b) Short supply of oats & beans. (c) War office grants re clothing of men of Corps. (d) Vend for February & Workings.
201-203	Messrs. Lambton & Co. (Bankers)		9/3/1807	Queries & Answers re-Wooden Railways used in Newcastle Area.
204-206	J. Peele Whitehaven Colliery		19/3/1807	(a) Queries re new Engine at Whitehaven Pit. (b) Underground Iron Railways & Broad Wheels. (c) Colliery Bindings - Owners agreement. (d) Continental Affairs & effect on Trade. (e) Capital Costs of a Miller.
207-209	Mr. Russell London		22/3/1807	(a) Wallsend report of progress to owner. (b) Complaints by Shipmasters about 'Measure' & slowing up of loading. (c) Stobart & his report to Dean & Chapter. (d) local purchase of oats & beans. (e) Shortage of all types of iron. (f) Vend & Workings to date. (g) A/C of Nelson debts. (h) Estimates for clothing Corps.

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210	J. Dewey London Agents		19/4/1807	(a) First shipment of Wartyley Main Coals (Elswick Colliery) (b) Attempt to classify for Market.
211-213	Mr. Russell Bath		22/4/1807	(a) Meeting of Trade re 'Advance' of Best Coals. (Members present listed) Price Rings? (b) Paddington Canal Bill & its effect. Request to Mr. Russell for information. (c) Suggested Reduction in Quantities (i.e. Output) (d) Visit to Bambero.
214-216	Do.		3/5/1807	(a) Report on Trade from Wallsend Colliery. (b) Plans for future. (c) Reserves. (d) A/C of Working for fortnight.
217	J. Devey Coal Exchange London		15/5/1807	Paddington Canal Bill - Request for inform- ation on its effect in Newcastle. Coal Trade. ⌘
218	Duke of Northumberland		17/5/1807	Letter of thanks for £50 re services rendered.
219	Mr. Reay @ Adml. Roddams Belford.		30/5/1807	Report: (a) State of Trade. (b) Vend and Stocks. ⌘ (c) Suggestions re forthcoming meeting of Trade re Freightling & Price Reductions. ⌘
220	W.B. Bovill London		7/6/1807	E. Nelson & Co's A/C. Dispute of payment for non-collection of sacks. ⌘
221-222	W. Peareth Usworth		20/6/1807	Report following viewing of Urpeth 'C' Pit - Technical.
223-224	Mr. Ismay		28/7/1807	Elswick Colliery - Possible Closure - Means of extending its life.
226	Mr. Curr		23/8/1807	(a) Payment of Bill for Plates by Elswick owners. (b) Purchase of Kenton Colliery Ropes. (c) Development of Rope Trade.
225-226	J. Gibson Hexham		25/8/1807	Rent for Coxlodge worked by outstroke from Kenton. (Output figures given)
	⌘ Good source of economic data.			

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Page	SUBJECT ADDRESSEE	REFERENCE	DATE	NOTES SUBJECT
226-228	Mr. Russell M.P. Edinburgh		12/9/1807	(a) Felling Barrier. (b) Byker Hill Colliery trouble. (c) Durham fine - amount to be offered - (Brandling?) → Dean & Chapter. (d) The Ensuing Binding - plans for quota to Trade Meeting. (e) Workings & vend for month.
229-230	Do.		15/9/1807	Policy re Dean & Chapter 'fine' for Glebe land - Good example of Sparring for advantage.
231-232	Do.			Dean & Chapter 'Fine'. Account of first Meeting.
233	Mr. Row		21/9/1807	Request for payment of outstanding debt.
234	Mr. Ismay		30/10/1807	Elswick Colliery - Additional power for winding engine - Cost given N.B.
235				Detailed estimate of same N.B.
236	G. Dodds Whitby		7/11/1807	Outstanding Bill of his father.
237-239	Mr. Russell M.P. Bath		12/12/1807	(a) Felling Bar, - Excessive valuation. (b) Price for Working Blackett's Coals - rise in Price. (c) Discussion on possible viewers to be employed by Blckett. (d) Walker's Clay.
240	Do.		13/12/1807	Heads of letter given only. (a) Estimate of Blckett's Coal. (b) Request whether Colliery to work full rate. (c) Request of several Coal owners to reduce working to establish regulation of Quantities. ⌘ Price fixing. (d) Appointment of Fitters for Washington Coals.
241	Mr. Russell		15/12/1807	Brandling Main Colliery Coal Sparring for (a) Refuse Brandling offer. advantages. (b) Plan to circumvent Brandling. ⌘ Good source of economic data.

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Page	SUBJECT ADDRESSEE	REFERENCE	DATE	NOTES SUBJECT
242-244	?		Dec. 1807	Stella Grand Lease. Reserves & Valuation. It is unfortunate that the addressee is not stated. This letter suggests that there was to be some modification of figures in the event of a sale to the advantage of the addressee.
244-246	Mr. Russell M.P.		24/12/1807	(a) Dean & Chapter gift of Coal to Blackett re Glebe land. (b) Trade Meeting - re Regulation of Quantities - basis average vend 1804-5-6. (c) Composition of sub-Committee.
247-248	Do.		25/12/1807	(a) Felling Barriers. (b) Brandling's plans. (c) The Park Engine. T
249	J. Lawson Esq. Longhurst		28/12/1807	Possible lease of Holy-Stone Farm.
250	Mr. Russell Bath		6/1/1808	Proposed Regulation - Report of Meeting to owner Prior to meeting of Trade. Output & vend recorded - Compares 9 best Collieries with others. (b) Rise in price of coals due to rise in price of oats, timber, Ropes etc. - Proposals of different parties.
252-254	Do.		7/1/1808	(a) Trade Meeting re Regulation - full Report. (b) Blackett's Glebe Coal. (a) Suggestions re viewers. Comments on 'how to land the fish'
254-256	Do.		4/1/1808	Glebe Coal - Gift to Blackett by Dean & Chapter. (Dispute of Title) Review of difficulties & how to form policy.
257-258	Do.		12/1/1808	(a) Glebe Coal - Mr. Williamson's opinion re title. Ruse to Test Dean & Chapter's good faith. (b) Committee of Coal Trade - re Quantities.
259	Mr. Russell M.P. Bath		21/1/1808	(a) Regulation of Vends. (b) Policy for Wallsend. (c) Shipowner's attempts to boycott Coals. with coal prices raised. #
261				(d) Meeting with Blackett.

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Page	SUBJECT ADDRESSEE	REFERENCE	DATE	NOTES SUBJECT
262	Mr. Russell M.P.	Bath	23/1/1808	(a) Glebe land - application to Dean & Chapter to work. (b) Plan to sound Dean & Chapter clerk re their feelings. (c) Three month agreement of Trade. (d) Brandling & Felling Barrier.
270	G. Silvertop		24/1/1808	Stella Grand Lease - value of Mr. Gray's Share. ⌘ Annuity calculation Share value.
272-272	Mr. Gray	London	25/1/1808	Do. Do.
273-274	Mr. Russell Snr.		25/1/1808	(a) Glebe land - lease from Dean & Chapter. (b) Quantities.
275-277	Mr. Russell M.P.		26/1/1808	Trade Meeting. (a) Underhand practices of clerks in Fitting Officers. (b) Resolution of N. & S. Shields Shipowners Clubs. Re coal price increases. (c) General rise in coal prices.
278	Do.		4/2/1808	(a) Results of Trade Meeting re advance in Price. (b) Trade War - plan of campaign. Figures for vend.
280	Do.		7/2/1808	(a) Quantities & Prices. (b) Shipowner's boycott.
<u>End of Correspondence.</u>				
Here to end is personal diary & is simply a record of what was done each day. No data of value.				
⌘ Good source of economic data.				

Tenders for various kinds of work.
With Prices of Colliery Materials.

Volume: 16

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1	Costs.	Shaft Walling Wharton Main Collieries.	Dec. 1802.	Sir H.V.Tempest - Owner. 2 Tenders.
2	"	Kerb Prices. Wharton Main Collieries.		Do.
2	"	Pitmen's Houses. Mason's Prices	1800	Labour Cost.
		Do.	1803	
3	"	Wagon-Way Bridge Handon Howl Pit		(a) Specifications. (b) Tenders.
4	"	Well-Sinking Carrville Kerb Wood Prices Rainton Colliery	Dec. 1804	} Prices.
		19 Bolt Waggon Boring in coal		
5	"	Winding Engine Tender Pensher 'E' Pit		
6	"	(a) Brick Houses Elswick Winning (b) Carpenter's Work Elswick Winning		Cf. of 1805 & 1790 prices.
7-8	"	Pumping Engine Tender Elswick Winning		
9	"	Wallsend Prices 1804 Wood; Plumber; Cast Iron; Wrought Iron Timber.		Tables of Prices per various contractors.
10	"	Engine House Morton Colliery	1800	
11	"	Wallsend Nail Prices. Wallsend Wright workprices Whitefield Staith	1805 1805	Charge: - Details of materials & prices.
		Wright workprices Stella Staith	1789	
12	"	Wright workprices Pitmen's Houses Lambton	1805	Details of materials & prices for building 2 houses.

All Items are useful source of economic data.

Volume: 16

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
13	Costs.	Colliery Prices	1804	-
		West Denton		Rates for all colliery jobs.
14	"	Pitmen's houses		
		Sheriff-Hill Coll.		Wright's rates.
15	"	Carving & Props	1805	
		Lanchester Common;		
		New Washington;		
		Wallsend; Whitefield.		
16	"	Consumable Stock		
		for store		
		Wallsend	1804-1805	Includes prices for Brandy, Rum, Gin
				and Port.
17	"	Measures, Weights etc.		
		Brick Making London		
		Scotch Land Measure		
		London Coal Measure		
		(Cf. with Newcastle).		
18	"	Wood, Cooper, Raff		
		& Iron Prices		
		Wallsend	1805	£
19	"	Miscellaneous		
		Wallsend	1805	£
20-21	"	Trade Rate & Commodity		
		Prices. Lambton	1804	
22	"	Nail Prices: Wallsend	1806	
		(Tender)		
<u>ALL ITEMS ARE USEFUL SOURCE OF ECONOMIC DATA.</u>				

Volume: 17

Lambton Collieries (See Vol. 13) from 1811

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1-13	Costs Working & Output	All Collieries	1811	A/C of Workings & Working Costs)
14-15	Abstract (E)			Abstract of Above and undertakers' charges) (As per Vol 13 P.125-137) X
16-17	Cost(Working) Undertakers Price. (E)	Lambton Coll	1811	Balance Sheet to Martindale & Ramsey (Undertakers) Fenwick As per Vol 13 145-8 X
18-19	Do. (E)	Pelton Flatts	1811	Balance Sheet of Martindale & Ramsey (undertakers) S Vol 13 P.143-4. X
20-25	Costs Working (E)	Trade Rates	1811	Detailed Table Horizontally-colliery by colliery Vertically -trade by trade- rates to show Cost per score. See Vol 13. P.167-172 X X
26	Capital Costs (E)	(Overheads)	1811	Expenditure for dead work. See Vol 13. P.90-2
28	Costs Working & Output	All Collieries	1812) As per Pp. 1-15
42	Abstract (E)			
	X Good source of Economic data.			

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
Insert Paper 1	Boulton & Watts Machine (E)	Minutes per	1795	Costs etc. Wallsend. ⌘
Paper 2	Strata Sections (T)	Lambton Collieries		
3-4	The 'A' or 1st Engine Pit (T) (E)			(1) Report on Shaft + Cost of Tube. (2) Relative costs of 'A' & 'B' Pit. ⌘
5	'B' Pit Engine. (E)	Costs & History		(a) Engine keepers wages. (b) Consumption. ⌘ (c) Repairs.
6	Wage Rates etc. (E)			Various Trade & Pay Rates.
7	'C' or Wallsend Pit. (E)	(a) Account of (b) Pay rates.		Various prices in 1792. ⌘
8	Do. Costs (Working) Do. " Do. (E)	Engine Ropes Putting Do.	1798	Dimension & capacity. Rope replacement 1794. Detailed analysis of Costs ⌘
9	'D' or West Pit Costs (E) " Working	Winning Winning Prices Rates	1792	Various Rates & prices. - Strike. ⌘
10	Engine Costs (E) " (Working) (E)	Dimensions Horsekeeping Putting "	1793 1798 1798	
11-12	'E' Pit (E) Costs (Capital) Sinking Rate (T) Engine (T)	New Sinking Strata. Dimensions	1792	Sinker's Rates
13	Costs (E)	Pay Rates		(a) Under Viewer. (b) Master Blacksmith & others. (c) Horsekeepers. (d) Sawing. (e) Masons rates.

⌘ Good source of economic data.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
14	Costs (E)	Pay Rates		(a) Mason's rates. (b) Mason's Prices. (c) Smith Work.
15	" (E)			(a) Pitmens' offtakes. (b) Penalties. (c) Surgeons Retainer. (d) Compensation rates. (e) Timber prices 1793-4.
16	" (E)	Equipment		(a) Ropes. (b) Corving. (c) Brick Making.
17	" (E)			
	Staith Charges	Analysis		
18	Costs (E)	Freightage Ground Rents.		
19	Costs Capital	Waggonways & Stapples.		
20	Do. "	Do. Sinking 'F' Pit		A/C of costs of same. (Continued on PP. 26.)
21-23	Colliery Bond (E)			Copy of Colliery Bond as signed by all workmen.
24	Bindings		1792	
25	Capital Developments (E)	Waggonway		Proposals for new waggonway 20/10/1792.
26-27	Capital Cost (E)	'F' Pit		Cost of sinking (Continued from P.20.)
27	Capital Cost (E)	Borings		Technical A/C of strata from boring 1779.
28	'B' Pit Engine (T)	Repairs		Memo of work carried out.
29	Waggon-Ways (E) (L)	Agreement		Copy of Agreement between Colliery owners & Waggon-Way Wright (Undertaker).
30	Strata (T)	'F' Pit		A/C of same sent through.
32-33	Drift Levels (T)	'C' Pit (A) Archway Specification (B) Cost		Technical A/C of bringing up 11ft. of level. Costs of materials & Workmen's rates. #

Good source of economic data.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
34	'F' Pit (T)	Strata (Table)	Begun	Jan. 1793.
35	(E)	Specification & Cost		Prices for walling Pit. ₤
36		Specification for Tubbing.		
37	(E)	Costs for Tubbing.		GOOD SOURCE OF COSTS FOR THIS.
38	'D' Pit (T)	Boring A/C Strata	1794	
39	Costs "(E)	Engine		List of Materials used & prices for 'D' Pit Engine. ₤
40	'C' Pit (T)	(a) Driving Levels.		
	(E)	(b) Costs.		Rates for driving from a Sump in 'C' Pit. ₤
41	'F' Pit (E)	Costs of materials (Iron)	1794	A/C of Iron Purchases; weights & prices. Good source of material prices.
42	Prices (E)	(a) Skreen Rails. (b) Wheels.		Diameter & Cost. ₤
43-44	Reserves (E)		31/12/1795	Detailed estimate of reserves in each Pit & calculation of same in whole colliery.
45	Staites. (E)	Capital Costs		Costs of building 2 Staites. (a) 1796 (b) 1804 Good source of earnings by men & interesting comparison of rising costs.
46	Working Costs			
51	(E)		1796	A statement of charges of working Wallsend Colliery. Wage Rates & consumable stock reviewed.
52-53	Viewers Reports (T)	'D' Pit	1796	Report in answer to Questionnaire by outside Viewers: S. Barrass; T. Barnes; T. Fenwick;
54	Capital Costs	'F' Pit Sinking 'C' Pit.		Costs of same.
55-56	" (E)	Boulton & Watts Engine. 'E' Pit.		

₤ Good source of economic data.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
Insert III	Rental Baggage.			List of names and rates due on a stated sum. Difficult to assess what exactly this is.
67-92	Leases (L)(E)	Wallsend	20/11/1799	Full copy of the lease, giving the usual economic data e.g. Rents, certain and tentage.
93-99	Indemnity (L)	Wallsend	"	Copy of a bond given by Wm. Russell to Dean and Chapter for indemnification against any claims that may be made by the curates of Wallsend for working coal under the Glebe land. *
100	Costs (E)	Wages	1804.	Hewing prices for the year in 'C', 'E' & 'F' Pits. *
101	Costs-Working (E)	Oil & Tallow.	1804	Table giving consumption in relation to output in scores and calculated costs on a score.*
102	"	Ropes	"	Gives numbers bound and total of expenses.*
103	"	Binding Charges	" & 1805	
104	"	Ropes	1805	
105	"	Oil & Tallow.	"	*
106	Production (E)	Output and Vend	1805	Table giving production figures and markets for coal. (RECORDS deficiency of 1510 Chs.)*
106	Costs-Maintenance (E)	Waggon-way	1797 1805	Comparative table of costs for the two years. *
107	Costs-Working	Wage Rates	1806	Various trade and workmen's rates in 'E', 'C' and 'F' pits. * Comparative efficiency of three different types of engine quoted
123	Technical data	Waggon-way Bridge		Specification for bridge over Burn.
124	Costs-Capital (E)	"		Costs for building bridge. *

Volume: 18. Part II. Matter relating to New Washington VColliery.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
3-7	Binding (L)(E)	Copy of Bond	1791	Gives numbers bound and various wage rates in the different seams
1	Rents (E)	Wayleaves		Rents to Tyne; Rents to Wear. Calculated costs per annum and per Ten. *
8	Costs-Working (E)	Undertaker's rates	1794-7	(a) Engines;(b)Waggon-way;(c) Blacksmiths.*
9	Technical data Costs-Working (E)	'A' or Engine Pit.	1795-7	Gives undertaker's rates and costs of replacement of parts. *
10	Costs-Working	Undertaker's rates	1797 1799 1800 1804	Engine wright. " " " "
11	Technical data Costs (E)	'B' Pit. Extent of Pit	1805-6	Survey of pit and method of working to make pony-ways. *
12-14		Barrowmen's rates Coal Sections Further workings		Detailed sections of all seams. Survey of extent of workings and nature of seams.
16		New rift		Gives extent of workings and cost of sinking*
35	Costs-Capital (E)	'D' Pit New Sinking	1794	Gives cost of sinking to Hutton Seam from High Main.
36	Working	Haulage		Experimant in haulage costs. *
47	Tech.Data & Costs-Capital	'E' Pit. New Headway New Sinking Coal Sections	1792	Depth of Pit. To Hutton Seam } Gives estimates of work -no great detail.
49-51 58		Winding Engine		Detailed estimate of cost of building machine (This is a list of labour charges only.)
59	Tech, Data.	'F' Pit Specifications Coal Sections		} Technical survey.

Volume: 18 Part II.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
71	Tech, Data. Costs-Capital (E)	'G' Pit. Specifications Coal Strata Tenders		Details & costs of sinking. Mason's work } Specifications of work and Mill Wrights } costs to undertakers. *
73				
83	Tech, Data Costs-Capital (E)	'H' Pit. Sinking		Tenders for sinking and costs of stoneheads to coal *
89-90	Agreements (L)(E)	Waggon-Bond		Copy of waggon-bond- details of duties and charges thereby. *
91	Costs-Working	Binding-Waggon		Calculations to ascertain binding charges to waggon-men. Quotes prices of oats etc..*
	"	" "	1793	Advance of pay. <u>Calculations of rise in pay due to rise in prices of grains</u> *
93-94	Agreements (L)(E)	Waggon-way Maintenance		Copy of agreement by undertaker for keeping in repair the waggon-way. accompanied by a statement of costs. *
95	Costs-Working (E)	Allowances and for various trades.	1793	(a) Allowances of materials and implements to workmen + rates. (e.g. candles.) (b) Dimensions of chaldron waggon. *
97-98	Costs-Working (E)	Bindings	1792	Rates paid for binding and wage-rates for year
98		"	1795-6	"
99		Corving	1795	Conditions of letting and prices given in Tender
100		Waggon-way	1797	Estimate for letting the waggonways and waggons by the week.
101-102		Binding costs and rates	1801-1802	Details of wages in each seam.
103		Undertakers {	1800	Engine-wright } Duties and wages. Mason }
104-5		Binding Rates	1802-3	Costs and rates for each seam.
106	Haulage	Leading	1804	Prices to Wear and Tyne.
107	Working	Binding	1804-5	Relative costs - quotes numbers bound.
113		Pitmens Houses		(Masons Prices } Gives rates of each differ- (Carpenter's Prices } ent job. Good source of (} prices of parts of house. (}
115-117	Capital	Staith House. Staith Building		((Particulars and costs for enlarging staith opposite to Cox Green.

* Good source of economic data.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
18	Tech. Data	Staith Frame		Drawing and Specifications.
19	Costs-Capital (E)	" "		Estimate of expense of work *
138	Boring Account (T)	Strata		Table of strata of Washington New Colliery
139	Rents (E)	Washington Township		Lists of freeholders, lessors and rents. *

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1-2	Coll. Reports. (T)	Holywell (Nr. Hartley)	29/6/ 1820	Survey of reserves.
2-4	" (E) (E)	Hartley & Holywell	1 27/7/ 1820	Survey of reserves of Hartley coal adjacent to Holywell for purposes of comparison and assessment of Holywell's worth.
4-6	Coll. Valuations (E)	Holywell	9/8/ 1820	Proposal to advertise coal to let or to sell. Calculations of possible estimated rent.
7	Rents (E)	"	8/9/ 1820	Proposed rent and calculated income therefrom. *
8	"	"	12/8/ 1821	
9-12	Coll. Reports (T)	Newton-in-the-Moor Coll.	4/7/ 1820	Proposed improved technical methods of working.
13-16	"	Walker Coll. Barriers.	Aug. 1820	Correspondence and reports on request of Walker colliery owners to Newcastle Corporation to thin barriers - beyond was drowned waste - and the report by Buddle and other viewers.
13-16 17-22	Coll. Valuations (E)	Wallsend	Aug. 1820	(a) Establishing principle of valuation (B) Valuation. Very detailed calculation of all colliery stock.
17-22 22-5	Leases and Valuations (E)	Barnes Estate		Do.
26-28	Coll. Reports (T) (E)	Reserves. "albottle Coll.	11/6/ 1821	Detailed calculation of area and thickness of seams.
29-30	"	Walboote- Proposed new winning	9/7/ 1821	Data and speculations re engine and pumping for new pit.
32-34	"	Lanchester Common (Pontop Pike)	27/5/ 1822	Detailed calculations for estimated reserves of Coll.
35-39	Leases (L) (E)	"	30/5/ 1822	Details of lease and proposed rents *
40-43	Coll. Valuations	" (Interest	1/1/ 1823	Valuation of lessors interest in Pontop Co. Good source of material re Capital investment required and total valuation of coll.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
44-46	Coll. Valuations (E)	Lanchester Common (Pontop Pike) Dead Stock.	1/1/1823	Good source of data on permanent stock in use and current valuation.
46-48	"	Sinking Pit	"	"
48-49	"	Damage to Ground	"	"
THIS IS A VERY DETAILED VALUATION OF ALL PARTS OF A COLLIERY, RESERVES; STOCK; DEVELOPMENTS ETC..				
50-54	Valuations (E)	Garesfield Lessees interest	1/1/1823	Summarises under appropriate headings the various valuations of stock etc., based on a recorded vend from 1816-1822, and estimates the present value. * N.B.
55-60	Survey & Valuation (E)	Pelton	26/4/1823	Detailed report on estate of John Davidson By the use of boring accounts attempt to value the coal deposits.
61-62	Valuations (E)	Pontop Supplementary Report	10/1/1824	Report and valuations of Pontop Colliery if renewal of lease is refused. *
63-70	Leases (E)	Urpeth & Whitehall Common	Jan. 1791	} These are headed <u>as lease for lives</u> i.e. with the lifetime of the lessors.
71-72	"	Hall's Coll.		
73-80	"	Chester South Moor		Lease for years Review of the history of the lease. Remarks appended for 1797, 1802, 1804, 1811, 1820.
81-82	" & Report	Urpeth & Whitehall Common	26/2/1825	Terms and conditions of lease. *
83-84	"	North Elswick Estate	26/2/1824	
85	Valuations (E)	"		Valuation of the Low Main Coal in the estate. by Geo. Hill.
86-87	"	"		Buddle's comments on the same. *
88-95	Coll. Reports (T)	Hetton Coll.	31/1/1828	Buddle's report to the Hetton Coal Co. on the working of the pillars in the East distri
	"	"	Apl.-May 1828.	Matter arising from report. Sketch

* Good source of economic data.

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Pgo.	SUBJECT.	REFERENCE.	DATE.	NOTES
88-95	<u>Contd.</u> Coll. Report (T)	Hetton Coll. Pumping Waste	May-June 1828	(a) Request for report on the pumping out of the waste. (b) Buddle's report.
100 101	"	Tanfield Moor Coll.	17/3/ 1829	(a) Request to Buddle for opinions on coal beyond dyke. (b) Report
102	Coll. Reports (T)	Sauchie Coll. Fire	11/9/ 1829	Report on fire in mine and proposals for combating. Sketches.
110-115	Coll. Valuations (E)	Upper Lintz state	27/10/ 1829	Estimate of coal reserves in estate. *
116-126	Coll. Reports (T)(E)	Black Boy Coll.	9/11/ 1829	Gives records of wages and expenses and refers to railroad company rates. *
127-128	Leases-Wayleaves. (E)	Newbottle Coll.	3/4/ 1830	Suggested reasonable terms of lease over Grindon Farm. *
129-136	Coll. Reports (T)	Hetton Coll. Ventilation.		
139-146	Coll. Reports (T)	Sauchie Coll. Fire	10/3/ 1830	Buddle Report and map of colliery
147-155	"	"		<u>Appendix I</u> Mode of securing new engine. <u>II</u> View notes.
156-159	"	South Hetton	8/7/ 1833	Report accompanied by plan of workings and sections of seams.
160-169	"	Springwell Coll. Explosion.	9/5/ 1833.	Matter pertaining to Fire-damp explosions (47 men and boys killed) and resultant underground fire. Attempts to control fire and recover bodies.
171-174	"	Lumley Coll. Castle found- ations.	Sep. 1833.	Plans for amount of coal to be left in Hutton Seam for support of Lumley Castle
175-190	Route Surveys	Railway, Newcastle Carlisle	Jan.-Mar. 1833.	Proposed route of line. Survey by J. Buddle and others.
192-193	Revenue (E)	"		Detailed table (based on information derived from Toll-keepers in the various districts to be traversed) giving the actual and estimated traffic of the line. *

* Good source of economic data.

Page	SUBJECT.	REFERENCE.	DATE.	NOTES
270-283	Reports(T)(E)	Sydney Coll. Cape Breton Island	1/7/1834.	(a) Report on present state of workings (b) Suggested methods of future working (c) Suggested methods of payment of hewer for round coals instead of 'cubic' payment. (d) Estimated output. Mainly technical but some data available, <u>Appendix</u> Diagrams and plans of workings.
284-293	"	"	"	"
294-305	Reports(T)(E)	Dowlais Coal & Ironstone Mines	28/10/1834.	Report on the mines and reserves for consultations on the expediency of re-newing lease. Good data on: (a) Rents; (b) Royalties; (c) Reserve Deposits; (d) Estimated life.
306-311	"	Rothwell Haigh Coll.	28/2/ 1835	Report following investigations into the breach of covenant by the lessees - i.e. working of barriers.
312-315	"	"	"	Private letter from Buddle to Lord Sturton (owner) in addition to the report in which he makes observations (hypothetical) based on hearsay and, if true, suggests future plans for inspection. Danger of water.
316-319	"	North Biddick & Pensher	25/9/ 1835	(a) Request to view maps and workings under the site of proposed bridge. (b) Report of J. Buddle, N. Wood and T. Morrison on the state of the workings and proposals for the safety of the proposed railway bridge
320-325	"	Bridge memoranda	"	Facts and figures on the strength of the pillars of coal in the workings and counter effects to reckoned in the construction of the bridge.
326-329	"	Sauchie Coll. Fire	5/19/ 1835.	Questionnaire by Lord Mansfield and Buddle's replies on the 1829 fire.
330-335	" (E)	Charlaw Sacriston (Acorn Close)	24/12/1835	Estimated expense of a new winning to work both royalties. Data on: (a) Wages; (b) Establishment; (c) Capital investment - live and dead stock.

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
336-338	Reports (T)	Downs Pit, 7 Hetton Coll.	29/1/ 1836	Investigations and report on causes of explosion in pit.
339-341	Valuations (E)	Secremerston	13/12/ 1831.	Valuation by J, Watson and T. Forster. Good data on capital investment and reserve deposits value.
342-344 344 345	Reports (E) " "	Hetton Coll. Management. "	24/7/ 1832.	Report of Messrs. Donkin, Dunn and Burrell concerning a proposed charter of management. Findings of a committee meeting which calls for another opinion on the report by Messrs. Buddle, Hill, and Johnson. Buddle's comments.
346-347	Valuations (E)	North Hetton	16/4/ 1834	Valuation by Morris and Hall. Not very detailed but does quote rents and vend.
348-349	Reports, Costs-Capital (E)	Cowpen Coll.	27/12/ 1835.	Estimated economies from the sinking of the Engine Pit. Report to Sir M.W. Ridley Bt. from J. Buddle, Itemised totals for shaft and wages.
350-355 356-357 358-359	Valuations (E)	Hetton Coll.	23/2/ 1835	Forster and Robson's valuation of stock, reserves and colliery. Abstract Good figures for Capital, depreciation, Stock, etc.. Buddle's revised valuation for Mrs. Jane D Darnell (Shareholder). Example of differences of interpretation of data for valuation purposes.
361-362	"	Gateshead Rectory	8/7/ 1836	Estimated deposits in Low Main Seam under Rectory (Buddle) *
363-364	"	Seaton Burn Estate	19/3/ 1826	Valuation of lessors interest of coal under estate. (Buddle) *
365-366	"	"	25/7/ 1836	Buddle's valuation of main coal seam. *

* Good source of economic data.

Page	SUBJECT.	REFERENCE.	DATE.	NOTES
367-371	Coll. Reports (T)	Cleaton Coll.	18/7/1836	Buddle's report on the possibility of reopening the mines - now dormant and largely drowned. Sketches. Memoranda relative to the mines.
377-378	"	Gateshead Park Coll.	2/2/1836.	Report by Buddle and Johnson following upon request of Committee of Tyne on review of deposits left (including pillars).
379-381	"	Wallsend	9/6/1835	Request from Buddle to other viewers to re-report on possible causes of explosion 18/6/1835.
382-385			8/7/1835	Report by outside viewers on possibility of reopening Bensham seam for work once more.
386-387			9/8/1835.	Further reports on developments.
388-390				"
397-401	"	Sauchie Coll.	23/1/1837	Reports following upon the fire on possible measures to reopen the colliery and certain expenses that will be involved. *
402	Costs-Working (E)	Lanchester Common Coll.	18/10/1836	Estimate of present powers of working coll. Some data but largely technical.
403-405	Reports (T)	Wylam Coll. New Winning	15/12/1836.	Review of seams.
406-407	Railway Development (T)(E)	Durham Junction line Extensions.	Mar. 1837	(a) Query to Buddle about the possible outlay of £10,000 for the extension of a line to tap the vends of Moorsley & Hetton Collieries. (B) Buddle's reply- possible market does not justify outlay. Map accompanies letters.
409-417	Coll. Reports (T)(E)	Cowpen Coll.	31/10/1837	Very detailed report of local conditions (e.g. soluble stone) and their effect on the working of the colliery. Estimates of: (a) Capital investment necessary to increase output; (b) Possible output; (c) Calculations of rate of redemption of capital; (d) life of colliery.

* economic data.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
418-426	Coll. Reports (T)	Deanery Coll.	18/10/ 1837	Technical review of methods to be adopted for a colliery which is (a) cramped for pit room, (b) in a saturated strata.
427-432	"	St. Helen's, Auckland	7/12/ 1837	Request and report on the working of the p pillars.
433	"	Nettlesworth	21/2/ 1838	Memoranda relative to colliery. Estimates: (a) Deposits; (b) Length of life; (C) Annual rent; (d) Railway link to Waldrige.
434-436	Surveys (T)	Haltwhistle Manor	28/4/ 1838	Survey of probable deposits and wayleaves; recommendation concerning the opening of the colliery.
437-446	Reports (T)(E)	Oakwood, Avon Valley	27/10/ 1838	(a) Technical survey of deposits. (b) Calculations of future capital expenditure in i. labour; ii. materials. (c) Output. Good source of comparative costs in another coalfield.
446	Surveys (Estate) (T)(E)	Wm. Russell Estates, Brancepeth.		Memo giving extent of freehold coal property in (a) Brancepeth, (b) Stockley, (c) Brandon, (d) Hedley Hope.
447	Coll. Report (T)	Framwellgate Moor. Sinking	Apr. 1839	Report on the shaft and the success of the methods of sinking through land-wash.
	" (E)	Fallow-field Coll.	4/2/ 1839	Report to estimate the annual value to be let on a fixed and fother rent. Good figures for the estimation of the detail of the lease, e.g. term, rent, output etc.. Plans accompany the report.
455	Reports (T)	Hilda Pit Manor Wallsend	5/7/ 1839	Report by Buddle, Johnson and Nicholas Wood following upon explosion.
456-471	Surveys (Estate)	Sir E. Blackett's lands		Report on reserves and state of coal to be found in the various royalties.

Views made for the BISHOP OF DURHAM from 1792 -1838.

J.Buddle senior was appointed viewer to the Bishop on 14/10/1792

and was succeeded by his son on his death.

Page	SUBJECT.	REFERENCE.	DATE.	NOTES
1	Appointment of Buddle		14/10/ 1792	Letter from Bishop's legal secretary appointing Buddle as viewer. Request to view Lanchester Colliery.
1	Report (T)	Lanchester Common		Report on inefficient mining methods.
2	"	" Lessees's reply	12/1/ 1793	Letter from S.Smith concerning Buddle's views on progress.
3	"	"	7/2/ 1793	Letter from Mr. Emm (Bishop's Secretary) choosing Buddle to submit a report and thus enable the Bishop to decide on the renewal of the Earl of Sefton's lease.
3	"	" Lessors meeting		Details of meeting and the resultant discussion with the sub-lessors.
4	Production (E)	" & Pontop	1792	Figures for the year.
5	Leases	Lanchester Colls.	24/1/ 1789	Copy of the lease of the Earl of Sefton.
6-7	Rents & Production	"	1792	Statement of Tentative Rents owing by Earl of Sefton for 1792. * These figures give a good review of the reasons why this annual statement should not be taken as average.
8	Report	Pontop	3/12/ 1792	Copy of Viewers' Report on methods of working.
9	Request Report (T)	Stella. Auckland	13/3/ 1793	Original letter from W. Emm asking Buddle to view (a) Stella (b) Collieries in the Auckland area.
10-11	Leases (E)	Greenfield Coll. (Cockfield)	1.27/2/ 1786.	Copy of lease to G.J.Raylton on behalf of late G.Dixon. Quotes terms and rents.
12	Rents and Profits (E)	Grewburn & Lynesack Colls.	1786	Copy of statement of rents (per output) for years 1786-1792. Good statement of source of income from small Fell mines.
13-14	Reports & Leases. (T) (E)	Blackburn Coll. Chester-le Street	28/11/ 1789.	Copy of report by R.Edington. A 'life' lease from 1747. Quotes rents and way-leaves. Terms for renewal of lease on the death of 'Lives'.

* Economic data.

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
15	Production (E)	Lanchester Common	1792-	1801. Table giving output (+distribution to owners) for these years. References to (a) Open trade, (b) Regulations, in the remarks column.
16	Rents (E)	"	1793-	1797. Statement of the rents received by the Earl of Sefton from colliery. Gives output figures and cash value.
17-	18 Production & Leases (T) (E)	Charlaw Coll.		(a) Application by Mr. Taylor for the lease of the colliery - John Smith's representatives do not wish to renew.
	"	Framwellgate, Brasside & Frankland Colls.		(b) Output 1788-1795. (c) Comparative observations on Elvet Coll.
	"	Sunderland		(d) Request to renew lease dated 1778. Quotes rents and profits.
	"	Middridge		(e) Renewal of lease of waste ground on Sunderland. (f) Renewal of lease of limestone quarries.
19	Reports (T)	Coxhoe.	29/6/	Review of seams.
20-	22 Leases & Rents (E)	Bedlington Coll.	1792-1795	(a) <u>Calculation of fine</u> (b) Copy of Mr. Mowbray's report. (c) Weight in Tons, cwts, qtrs. of Newcastle Chaldron as compared with London chaldron. (d) Map of district. (e) Buddle's observations on and confirmation of the report.
INSERT I	Weights & Measures			
23-	26 Rents (E)	Whickam Manor	1791-1795	Detailed account sheets of rents including analysis of way-leaves. Quotes rent of lease. Calculations on reversionary interest on last page.
	27 Production & Rents (E)	Birtley Common		Calculations to establish the value of the Fine to be charged to Grand Allies. Quotes output and rent etc..

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
28-30	Report (T)(E)	Coxhoe Coll.	July-Aug. 1797	(a) Review of deposits and reserves. (b) Output. (c) Calculated income. (d) " rent. (e) Report on future plans and proposals necessary to the working of the colliery. *
31-32	"	Pelton Fell, Flatts Coll.	22/1/ 1797	Memo on state of coals and position of the colliery in its working conditions on (a) Urpeth; (b) Beamish; (c) Edmondsley; (d) Chester West Moor.
33-35	Rents (E)	Manor of Gateshead (Esp. Gateshead Park Coll.)	1796	Land rentals for the year ending Michaelmas 1796. Good source of information of income from all types of property.
36-38	Leases (E)	Renewals	1797	(a) Gen. Lambton - Findon Hill. (b) " - Plawsworth. (c) " - Urpeth Common. (d) " - Wayleaves over Chester Waste. Quotes suggested renewal rents. (e) George Brooks- Blackboy Colliery. (f) " - Whitburn. (g) H. Wilkinson. - Whitburn and Bowden. Quotes rents and renewal terms
39-45	"	"	1798	(a) Sir J. Eden - Wayleave over Pelton Fell. (b) Miss J. Simpson- Tanfield Lieth Coal (Quotes survey of 1715) <u>Rents etc.</u> *
40-44 & 47-48	Boring Account (E)	Bedlingtonshire	April 1798- Sep. 1799.	Very detailed account of boring charges month by month.
49	Rents (E)	Lanchester Coals.	1798-1804.	Earl of Sefton's rents. See P16. *
INSERT II	Production (E)	Leadings	1804	(a) Pontop Pike - Miss Simpson. (b) Lanchester Common - Sir T.H. Liddell & Partners. (c) Pontop to Staith - Marquis of Bute & Hertfords Coll.
	* Good source of economic data.			

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
51-55	Production & Rents (E)	Manor. of Gateshead	1795	1802. Gateshead Park Coll. Output per land & sea sale " 1803 Sheriff Hill Colliery. " " Prices stated.
56-61	Leases (E) Rents (E)	" "	1802 "	Copy of lease - quotes rent etc. Rentals due for the year - Details of all income from property. *
64	Leases (E)	Glebe Lands		Copy of the Bshop's confirmation of leases of coal mines under the Glebe lands let by the incumbents in the County of Durham.
65-83	Reports and Valuations (E) Production	Etherley	Dec. 1837.	Report to determine the Fine for the renewal of a life in the lease. (a) Brusselton; (b) Bitchburn; (c) Etherley. (I) Technical data on reserves and deposits. (II) Factors effecting their value. (III) Estimate of value. (IV) Map tracing. (V) Boring account-Brusselton (VI) Section of Etherley Colliery. (VII) Output from Old Etherley and Railey Hill. THIS IS A VALUABLE SOURCE OF MATERIAL ON 1827 - 1837 VALUATIONS, NOT BY CALCULATING THEIR WORTH IN £.S.D., BUT BY FACTORS OF LOCATION WHICH INFLUENCE THE VALUE.
84-87	Reports (T) (E)	Birtley Common & Ayton Moor.	2/1/ 1838.	Estimates the deposits and refers to the bad mining methods which are the cause of the loss of over 50% of the deposits. Gives reserves in (a) whole coal. (b) Pillars in each seam of the two collieries. Detailed calculation of the probable output from the two collieries. *
87		View Notes		
93-94	"	Whickam Manor	3/1/ 1838	Speculative account (due to the absence of historical data on the old workings) of the reserves possibly remaining. Quotes rent*

FROM HERE THERE IS A GAP, AND THEN NOTES CONTINUE AT END OF VOLUME.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
95-96	Leases (L)(E) (Endorsements)	Haver Close	4/1/ 1786	Two endorsements to the lease of Byers Green (See p. 97) re Daniel Dew and George Brooks to George J. Forster.
97-105	"	Byers Green & Coundon Grange	15/5/ 1783	} Blackboy Collieries. Copy of lease and demise demise. Quotes rents, terms etc..
105	Leases & Indentures (E)	Newbottle Chester-le-Street	13/1/ 1788 12/5/ 1747.	Bishop of Durham to C. Fawcett. (Newcastle) " to Sir H. Liddell (Ravensworth Castle) and Nicholas Fenwick (Newcastle)

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1	Reports (T)	Walker Coll.	17/10/1795.	(a) Request to view on the working of the walls. (b) Report by Buddle, Easton, J. & W. Smith
4-5	"	Bigges Main	23/10/1795	Ditto on Bigges Main by Barnes, W. Smith, Easton and Buddle.
6	"	Walker (Henry Pit)	11/5/1796	Report on the system of working the wall for (a) The lessors - Newcastle Corporation. (b) The lessees.
7-9	"	Flatworth & Low Willington		Queries and replies on the possibilities of a new winning.
10-12	"	Lumley Coll.	21/12/1796	Queries and accompanying replies.
13-14	"	New Washington	1/3/1797	Queries and report on methods of working
15-16	"	Rainton & Pensher	28/6/1797	Do.
17	"	St. Anthony's	9/8/1798	Report on the state of the colliery following an outbreak of fire - not yet extinguished - in the seams and methods of combating it.
18-26	" & (E)	Heaton Coll.	3/6/1796	I. Report on (a) extent of workings (b) estimated reserves.
20	Costs			II. Extract from Colliery Accounts - from. Based on output there are listed the bills costs to be set against it for the period 1794 - 25/5/1796.
				III. Estimates of the cost of coal production very detailed calculations and a good source on production costs.
24	Report-Financial			IV. Detailed report on the financial account and the economic state of the colliery.
28-29	Reports (T)	Flatworth	26/1/1799	Suggestions for effecting a new winning.
30	"	Murton	23/1/1799	Do.
31-34	"	Throckley & Heddon.	26/3/1799	Do. This includes estimate of expenditure - capital and working costs- to effect the winning.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
35	Costs & Valuation	Throckley		Detailed profit and loss account of the working costs and estimated annual profit. Good source of data with total costs in each sphere of activity.
36-41	Reports (T)(E)	East Denton	Mar. 1796	Report on the working of the colliery. Valuation of Mr. Archdeacon's share in the royalties Estimate based on expected output and current prices.
42	Boring Account (E)	Helm	1800	Details of Thos. Rawlings first charge for boring.
43-46	Report (E) Costs-Working	Cowpen	16/5/1797	Estimated annual cost for working the colliery. Compare costs in two seams and detail all trade rates etc..
47-48	Report & Valuation (E)	Benwell	2/9/1801	Detailed analysis of valuation based on output and prices in the two previous years. In report makes reference to economic costs of a social nature e.g. provision of corn.
49-50	Do.	Crawcrook	Nov. 1801	Estimated valuation of colliery preparator to its sale. Offer to purchase based on the valuation. N.B. for approach to business contract.
51	Reports (T)	Flatworth	13/12/1800	Methods of working off in Orphan Pit and Murton Wastes.
53-54	"	Sheriff Hill	25/3/1800	Methods of working.
55-56	"	"	15/4/1799	Fire in the workings. Isabella Pit.
56-59	"	Hebburn	19/5/1801	Possible progress and effects of Creep.
60	"	Jarrow	15/6/1801	Memo: Data of colliery.
61-63	"	Team	1/7/1799	Methods of working colliery.
63	"	St. Anthony's	9/8/1798	Controlling a fire - still in progress.
64	"	Urpeeth	17/8/1801	Possible site of new winning.
65-66	"	South Hebburn	31/8/1801	Possibilities of winning this coal from Walker.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
67	Reports (T)	Wallisend	1799	Measures to be taken to safeguard the colliery from creep and water following the Walker Colliery owners' intention to reduce their barrier.
68-71	"	Custon & Fat-Field	14/11/1764	Copy of report by W. Brown - gives extent of colliery.
72	"	Walker	26/4/1802.	Advisability of working Low-Main Coal.
73-74	Costs-Working (E)	East Kenton	14/3/1804.	Detailed analysis of cost per chaldron based on output.
75-77	Valuation (Stock)	"		Costs analysed at each stage and for each rate. <u>Quotes all prices for the period</u> e.g. single-horse cart £5.
78	"(Coal)	"		Lists both live and dead stock. Estimate of value of the deposits based on survey of reserves and current prices. *
79	Costs-Capital (E)	Coxlodge	Mar, 1804.	Estimate includes cost of sinking and machinery required; waggon ways; horses; interest etc..
80	Valuation (E)	" New Winning		
81-83	Report (T)(E)	" "		Estimates expenditure and output in all workings of old winning; duration; ways of effecting a new winning; and market value of share interest. *
84	Colliery Data (T)(E)	St. Anthony's	1803	Specifications given in reply to and advertisement for the lease of the colliery i.e. extent and possible reserves.
85-87	Valuation (E)	East Denton	28/3/1804	Detailed analysis of Mr. Hayton's interest *
88-90	Report (T)	Buck's Nook & Lintz	19/12/1790	Review of past attempts to work the coal and extent of workings - obtained from old workmen - and an assessment of whether the colliery would now be an economic proposition. *
91-92	Valuations (E)	Jarrow	20/5/1804	Assessment of value of one moiety in the lease of 31 years. Quotes reserves now (1804) and then (when lease was first drawn up); output; market prices.

* Good source of economic data.

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Page	SUBJECT.	REFERENCE.	DATE.	NOTES
93-95	Costs-Working (E)	Stahley & Twizell.	1805	(a) Working charges -Stahley. (b) Estimate of cost of laying coals at bank. (c) Additional overhead costs to be added to assess the market price. *
97-105	Report (E) Agreements.	Harraton Outside	31/12/1805.	Estimation of fair undertaker's prices. <u>Copy of undertaker's agreement</u> (Similar to lease e.g. workmen to be given coals etc.) Useful data on agreements.
106	Costs-Capital	Elswick	13/2/1805	Costs of engine and engine house. Detailed. *
107-114	Reports (T)	Tyne Main	16/3/1803	Methods of working colliery more economically, especially by the removal of the drowned waste.
115-117	"	Swindon C.	23/7/1804	Working methods.
118-119	Valuations (E)	Baker's Main	17/1/1805	Covering letter explaining methods adopted Valuation based on coal reserves rather than capital stock. *
120-123	"	Berrington	14/3/1804	Detailed valuation accompanied by 'eye-sketch' of colliery.
124-129	Reports (T)	Woodhead	24/3/1805	Old workings and new district. <u>Estimated probable output.</u>
130-133	"	Swindon		Detailed report on the <u>failure</u> of the workings <u>due to incompetent management.</u>
134	Costs-Capital & Working (E)	Gosforth		Detailed analysis of the costs of working the colliery (a) Labour rates; (b) Equipment and material rates. Agood source of prices.
139-142	Reports (T)	Mr. Losh's Queries.		Reply to Mr. Losh's queries giving technical data on working methods, barriers, strata, etc.. Losh gives no indication as to which colliery it is.
143-154	" Costs-Capital	Wyken "	30/4/1804	(a) Technical report on economic methods of working and pumping. (b) Estimated costs of additional engines (c) Estimate of nett profits.

* Good source of data

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
155	Balance Sheets (E)	Sheriff Hill	1804	Balance sheet for profits for the years 1804. Gives total figures but quotes selling prices in various markets.
156-61	Reports (T)	Killingworth New Coll.	19/12/1805	State of colliery and suggested improvements.
161-64	"	Bigges Main	29/6/1807	Technical report which includes an assessment of the profits deposits.
164-175	"	Shilbottle	28/2/1807	(a) Technical- reserves, extent of colliery creep etc.. (b) Attempts to assess causes of recent accident.
	Costs-Capital & Profits (E)	"		(c) Estimates expenditure and proposed improvements with an attempt to assess income from new methods and new markets *
176	Reports (T)	East Denton	5/6/1807	View of Low Main coal and estimate of <u>Tentative Rent</u> *
177-183	Reports (T)	Ravensworth & Eighton Banks	16/7/1803	(I) Report by Buddle and Watkin- working Method (II) " " Ramsey (This viewer engaged by Burdon, the lessee, on matters arising out of report No. I effecting his manner of working.
185				(III) Report on methods by Steel & Ramsey. DISPUTE AND CONFLICTS OF OPINION OVER METHODS.
188	Reports (T)	Elswick	24/2/1808	Problems of water in the colliery and methods of combating.
188-190	Leases (E)	Burradon		Proposed lease of colliery giving expenditure and rent. *
191-200	Reports (T)	Heaton	13/7/1808	Working of Pillars.
201-204	"	Shiremoor	21/9/1808	Poaching by outstroke.
205-212	"	Felling	10/2/1806	Methods of working and safeguards against flooding.
213-219	"	Harraton Outside Hall Pit.	13/10/1808	Report following explosion. Includes plan of the ventilation.

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Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
220-226	Reports (T) Costs-Capital	Benwell	29/10/1808.	Report on each pit in the colliery and estimated future capital expenditure necessary in places *
228-237	Balance Sheet (E)	Felling	1805	Detailed balance sheet undertaken Pit by Pit. Good source of working costs and prices.
228-237	Valuations(E)	North Elswick	1805	Detailed estimate of lessors interest in the colliery based on supposed annual vend. *
239-243	Leases (T)(E)	Seaton Bourn	4/1/1809	Proposed lease of colliery. Buddle's observations on the lease.
243-247	Reports	Hebburn	10/4/1809	Seams and manner of working barriers et
248-251	"	Denton	19/4/1809	Report on water in the workings and the estimated capital expenditure necessary to combat it.
251-255	"	Kenton		Sketch and technical report.
256-261	Report & Valuation(E)	Stella Grand Lease		Valuation to determine the value of the share of Wm. Gray i.e. 1/24th. and 1/60th. <u>N.B.</u> Lists principles by which this is done and annotates the heading for it.
261	Reports (T) Ancient Workings	Backworth, Shire moor & Murton	26/7/1809	Report on the view of ancient workings.
INSERT I	Production(E)	Twizell.	1792-1804	Paper giving prices and vend. *
		* Good source of data.		

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
				<p>This volume consists mainly of letters, most of which are addressed to Mr. Pitt who was the absentee owner of Tanfield Moor Colliery and others in the district.</p> <p>Buddle was his official viewer and reported regularly from 1822-1836. This correspondence is concerned with his official functions. The earliest letters discuss various intricate colliery and wayleave proposals, but after 1829 they are in reply to letters which are obviously calling for more profits - as it is apparent that in this period the colliery is running at a loss generally. Buddle makes many explanations and many shifts, but chiefly blames the free-trade coal vend of 1829. Buddle hoped to save the colliery by the advent of a railway bringing cheaper leading charges in 1835. Matters being desperate, however, and the railway not providing an immediate return, the colliery was sold in 1836 and Buddle's connection apparently broken.</p>

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Pge.	SUBJECT.	ADDRESS.	DATE.	NOTES
1-3	Tanfield Moor Mines.	W. M. Pitt M.P. Kingston Dorset	11/9/1822	Reply to Colliery owner on certain features of Colliery from general terms and no details.
4-7	Wayleave (Fenwick's) Labour Troubles	Do.	6/10/1822	(a) Report on discussion with Pontop Colliery management of revision of their wayleave agreements over Tanfield Moor (Mr. Pitt's) ground. (b) Labour troubles - strike of Keelmen
8-11	Wayleaves (Fenwick Waterwastes)	Do.	7/10/1822	Report of Conversation with Fenwick on (a) Wayleaves. (b) Watercourse - common to both. (c) Agreements on exchange of freehold of existing pillars for watercourse rights.
12-13	Labour Troubles	Do.	14/10/1822	(a) Strike of Keelmen - attempt to control size of ships using spouts below bridge - Restrictive practices.
14-17	Watercourse at Pontop & Tanfield Capital Costs Working "	N. Clayton from T. Fenwick 19/8/1818		Request for extension of freehold for water feeders to be tapped. (a) Cost of Pumping engine N.B. (b) Annual working cost N.B.
17-19	Proposed Railway Tantobie to Tyne.	Wm. Pitt M.P.	29/10/1822	Review of possibilities and policy for Railway to Tyne to be used in common by number of Collieries.
20-22	Labour Strike - Keelmen & Sailors.	Wm. Pitt M.P.	27/10/1822	(a) Progress of Keelmen's strike. # (b) Sympathy of sailors - attack Spout ships. Riots - imprisonments. # (c) Tenure of farms. #
23-24	First letter for viewing authority Colliery Reports	" Tanfield Moor	28/7/1822 17/11/1791	Copy of Technical Report by Thos. Barnes.

Good source of economic data.

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Page.	SUBJECT.	ADDRESS.	DATE.	NOTES
23-24	Colliery Reports (E)	Tanfield Moor	3/7/1801	(a) Technical Review. (b) Report of wage-rates and duties. £ Author not indicated.
37-40	Legal Agreement (L)	"	28/6/1800	Legal Copy of Agreement where W.M. Pitt appoints N. Clayton (Newcastle) agent for Collieries.
41-45	Memoranda (T)	"		Various memoranda pertaining to Tanfield Moor Collieries.
46-48	Costs Shipping (E)	"		A/C showing particulars of all charges for loading coals on board a ship. Good analysis of costs involved in freightage by sea.
49-51	Costs - Working (E)	"		A/C of cost of Drawing coals at Willy Pit Tanfield Moor.
52-53	Memoranda (E)	Tanfield Moor		Lease. - Rentals & conditions.
54-56	Letter to Pitt	- unsigned		Comments on poor trade and effect on Tanfield Moor and neighbouring Collieries. Excessive demands for new way-leave rent.
57-63	Wayleaves			Draft of course of Wayleaves and suggested rents.
64-65	Leases (E) Labour Trouble. (S) (E) (Keel Railway Strike)	W.M. Pitt M.P.	4/11/1822	(a) Lease of Westerleigh Farm. (b) Attempt to break strike with naval and military force. £ (c) Developments in Railways and partners.
66-67	Keel Strike (S) (E)	W.M. Pitt	10/11/1822	(a) Failure of break through - not protected on return and money gained injured. Review of set-up.
68-72	Wayleave Railway (E) Lease of Easterleigh Farm (E) Lease of Bushblades Pillars (E) Railway Project	"	17/11/1822)) Review of current position.)))

£ Good source of prices.

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Page	SUBJECT.	ADDRESSEE.	DATE.	NOTES
73-74	Keelmen's Strike (S)(E)	W.M. Pitt	21/11/1822	(a) Blames coalowners and Fitters for weakness and failure to prosecute and futility of discussion in their meetings. (b) Wayleaves for new line.
75-77	Financial Plans due to Strike (E) (E)	"	24/11/1822	(a) Financial plan re Clayton due to continuance of Strike. (b) Striker's dismissal. (c) Bushblades Lease. (d) Keel Strike.
	<u>ADDRESSEE</u>		<u>DATE</u>	<u>SUBJECT</u>
78-80	W.M. Pitt M.P.		10/12/1822	(a) Advance by Ridley's Bank (E) (b) Appointment of Agent in London (E)
81	"		13/12/1822	(a) Fitting Arrangements.
82-84	"		22/12/1822	(a) Fittage Rates (E) - quotes prices ⌘ (b) Proposed Bond - re Clayton. ⌘ (c) Cancellation of London agency. ⌘ (d) Townclerkship of Newcastle - worth £3000 p.a. ⌘
85-90	"		30/12/1822	(a) Pit holidays - why 3 weeks in January ? (b) Establishment of auxiliary fund. ⌘ (c) Proposed Terms of management - Enumerated list of duties and authority vested in Buddle as agent - including extent of authority in financial matters. (d) Fittage and Waggon costs. (e) Bushblades Colliery offer. (f) Petition by one Gardner - Compensation ? (g) Various officials sals. and Rate charges. ⌘
91-92	"		4/1/1823	(a) Completion of Bond. ⌘ (b) Bankers orders for Buddle to cash cheques. ⌘ (c) Claytons balance - i.e. amount due to Fitters. agents. ⌘ (d) Dispensation of London agent. ⌘

⌘ Good source of prices.

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Pgs.	SUBJECT ADDRESSEE	REFERENCE.	DATE.	NOTES SUBJECT
93-96	W.M. Pitt M.P.		12/1/1823	(a) Banker's Bond. £ (b) Clayton's Fittage charges. £ (c) Moody's Quay affair & Lt. Ravensworth's new railway. (d) Drifting into Bushblades waste.
97-98	"		31/12/1822	Clayton's account. £
99-100	"		15/1/1823	(a) Clayton's - account. - London agency. £ (b) Waggonmen's Binding. - system adopted.
101-103	"		17/1/1823	(a) Clayton's Fittage Charge. (b) Waggonmen's Binding date. (c) Proposed methods of Fitters payment for coals ^{on a monthly} annually A/C. (d) Legal proceedings by Keelmen - Mr. Brougham employed as their Legal Counsel. Buddle retains Clayton as Counsel. £ Case Wallsend Colliery v. Keelmen. (e) Expense incurred because of Keelmen's strike by Coal Trade - £2000.
103-108	Buddle from Armstrong	Undated		(a) Tantobie Colliery - bad management responsible for much of the trouble. - quite a long Technical report. (b) Arkles ssa salary - trouble resulting from shop opened by his daughter - Workmen seemed to resent this as a Tommy Shop - perhaps it was.
108-109				Accounts for (a) Bushblades Farm acreage. (b) Bushblades Hay & Corn.
110-112	W.M. Pitt M.P.		20/1/1823	(a) Bushblades Freehold (L) (b) Tanfield Moor Report (T) (c) Tanfield Financial arrangements for bills. (d) Comment on Armstrong's letter.
113-114	"		21/1/1823	Bushblade's Colliery. Technical data.
114-115	"		28/1/1823	Waggon-men binding - Prices, no. of waggons-free coals etc.

£ Good source of prices.

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116-117	W.M. Pitt M.P.		28/1/1823	Waggonmen's binding and dinner of interested parties.
120-122	Mr. Clayton		10/2/1823	(a) Fittage Rates - scheme of operation by some Fitters. (b) Donation to Keelmen's Hosp. as charge on coal cost.
123-125	Mr. Pitt		15/2/1823	(a) Fittage charges - difference of opinion between Clayton & Buddle. (b) London agency. (c) Bushblade's coal.
26-128	Capital Costs (E)	March	1822	Balance sheet showing expense of proposed railway from Jarrow to Collieries on Stanley area.
129	Working Costs (E)	"	"	Balance sheet showing expense of leading 30,000 ch of coals p.a. from Stanley Colls. to Mount Moor.
130	Do. (E)			Do. from Stanley to Jarrow Quay.
131	Do. (E)			Expenses incurred as result of leading to Jarrow.
132	Do. (E)			Expense of laying Ch. of ship coals on Dunston Staith from Pontop Colliery on vend of 19,000 Ch. p.a.
133		19/12/	1820	Colliery Reports (T) Request to view. Report by T. Fenwick. (E) Relative costs of underground horse-haulage and machine haulage. £ Good source of economic data on working costs.
147-152	Mr. Pitt		22/2/1823	(a) Progress on Clayton's fittage charge - nil. Gives costs of Keel - rentage & explains methods of working out his (Buddle's) estimate. (b) Expected demand and production. (c) Bushblade's Barrier Drift. (d) Mr. Pitt's share as 1 of Lords of Winlaton in Garesfield Colliery. Estimates value.

(E) Detailed source of costs & estimates.

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153-155	Mr. Pitt		26/10/1823	(a) Debts arising from Tradesman's Bills presented. (b) Strike of Keelmen re binding to escape from Press gang. (c) Outspoken renunciation of keelmen. ⌘
157-159	"		6/3/1823	(a) Settlement with Clayton. (b) Payment of Londerry's fitters @ Sunderland. (c) Coastal duty on coals - abolition - effect adverse effect on trade by canal coals. ⌘ Reform of Customs and Excise duties effecting coal trade. (d) February vend. ⌘
160-163	"		8/3/1823	(a) Victory for Clayton re charges - 1/9 Per charge. (b) Table of Assessed Taxes. (c) Weather affecting Trade. (d) Bushblade's Drift.
164-166	Mr. Pitt		22/3/1823	(a) Clayton fittage and future plans. (b) Riding Horse Tax. (c) Other Tax reduction sought. (d) Bushblade's drift. (e) Coalowners' petition.
167-168			24/3/1823	(a) Binding of Pitmen 1823. (b) Technical memoranda.
170-171	"		2/8/1823	(a) Income and profits for June. (b) Bushblade's Waste Drainage. (c) Pontop Colliery Heir.
172-173	"		31/8/1823	(a) Bushblade's Waste. (b) Various accounts rendered by Trades.
174-175	"		16/9/1823	(a) Suggestions re method of working Colliery accounts - e.g. ⌘ (b) State of Bank A/C Tantobie view. (c) Insurance of Hay Stocks. ⌘

⌘ Good source of prices.

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176-178	Mr. Pitt		25/1/1824	(a) Payment of main Colliery accounts e.g. Waggon bills, Wayleaves etc. (b) State of Bank A/C - quotes balance on given date. (c) Marquis of Bute and Wayleave.
179-185	"		31/5/1823	(a) Report on Bushblade's Colliery - hardness of coal - extra pay to hewers. (b) Suggestions re A/C books. (c) Establishment of horses.
186-187	"		18/10/1824	(a) Payment of £1,000 to Messrs. Farrers. (b) Terrific loss of colliers (estimates 100) in Storm at Sea. (c) Return of assessed Taxes.
188-189			11/10/1824	Colliery Reports - Willie Pit (T)
190-191			6/7/1825	Colliery A/C - Tanfield Moor - Estimates profit for year. Quotes vend.
193-196				Pit Diary - 1824-1825. Quotes: details of strata. details of binding. nature of coal. Working day of engines and consumption.
197	Mr. G. Johnson		2/7/1825	Renewal of Mr. Pitt's Wayleave lease from Lord Ravensworth.
198-203			1825	Pitt's Diary August - September 1825. (a) Terms of Renewal of Wayleave Lease. (b) Assessed Tax entry. (c) Technical reports of progress. (d) Additional way-leave rent. (e) Stocks of hay. (f) Complement of Willie Pit. (g) Tanfield Moor Wayleave data.
204-205			15/11/1825	Report on Willie Pit (T)

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206-207			20/2/1820	(a) Remittance from Newcastle to London Bankers. £ LOSS OF CONFIDENCE IN BANKER'S NOTES. RUN ON BANK. Quotes £200,000 as issue of gold saw ^{works} Newcastle Banks since Dec. (b) Overdraft. (c) Jottings on Northumberland election - estimated cost to each candidate £25,000.	
209-216			1826		Pit Diary 1826. Quotes rates of pay and establishment for bankmen.
217-220	Mr. Pitt		14/2/1827	(a) Final competition of coal Trade Regulations (No details of what they are). States principle. (b) Quotes Tanfield Moor as 18,000 ch. for the year. 'More than could be vended' Buddle states. £ (c) Heavy burden of increased Wayleave rent. (d) Comments on profits - fall of. £ (e) Repair of damaged Staith. (f) Insurance of dead-Stock. (g) Loss of custom Whitbread Breweries to Marquis of Bute.	
220-230					Pit Diary 1826. (a) Notes on Output - price of Cargo of coals to Calcutta. (b) T. Report of Workings. (c) Estimate of Cost of keeping a Wagon horse. £ (d) Expected life remaining to Colliery.
231-233	Mr. Pitt		19/6/1827	(a) Overdraft of Bank A/C - quotes balance and figures. (b) Poor state of trade. (c) Duration of life of present workings. (d) Suggests opening up 'Busty' Seam. (e) Good crops in ground.	

£ Good source of prices.

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234-236	Mr. Pitt		10/10/1827	(a) Visit of Duke of Wellington to North. (b) Poor state of Trade. (c) Vend for year to date 12653 ch. £ (d) Balance at Bank. £ (e) Inability to finalise Wayleave business. (f) Lord Ravensworth's affairs. (a) Possible relaxation of Wayleave rent. (b) Letting on laying in their South Moor Colliery. £ (g) Costliness of working Bushblade's coal.
237-238	"		9/11/1827	(a) Remittance of £1000 to London Bankers. £ (b) Staithmere Wayleaves. £ (c) Technical report.
239-241	"		26/1/1828	(a) Profits for year - approx. £5890/13/11. (b) Vend. An important financial statement.
242-262				Pit Diary 1827-1828-1829. Mainly Technical. (a) Quotes Wagon Binding and leading charges. (b) Wayleave Rents. (c) Establishment bound. - Working Costs. Quotes monthly bills throughout Diary. (d) Expense of keeping Wagon horse.
263-264	Mr. Pitt		20/6/1830	(a) Use of Tanfield Engine to Marquis of Bute's Westerleigh Coal. (b) Poor state of trade - failure of inducements to force it. (c) Overdraft £1500. (d) Proposal for removing Fittage from Clayton's hands. (e) Proposal for overtures re lowering of Wayleave rents.
265-267	"		28/11/1830	(a) Dismissal of Mr. Clayton. - Difficulties re apprentice. (b) Valuation of keels. £ (c) Vend for 1829-1830. £ (d) Warnings against middle-class reformers £ Political action needed to avert revolution.

£ Good source of prices.

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268-270	Mr. Pitt.		11/12/1830	(a) Bad state of Trade - Coals sent to London market as freight charge i.e. at collieries own risk of sale. (b) No profit. (c) Blames Free-Trade year of 1829. Quotes prices in Newcastle and London. (d) Proposal to enter coastal trade - i.e. through brokers. (e) Coastal duties ^{OTHER} quotes relative possibilities in the directions that this money would achieve.	
271-274	"		30/1/1830	(a) Estimate of Profits 1830. A/C 1829 £ (b) After loss of London market again suggests coastal trade. (c) South Moor Railway. (d) Possible labour unrest and need for political intervention.	
275-277			15/5/1831	(a) Formation of 'Miners Union' and resultant Strike - now 6 weeks ^{old} over - complete lock-out. (b) Mr. Pitt's collieries worked for 3 weeks and then were forced to join strikers by force. £ (c) Improvement in financial position as result of holding out longer.	
278	Working Costs (E)		1831	Working and leading charges - Tanfield Moor - 1831. £ Good A/C showing analysis of all costs. £	
279			1831	Wayleave rents paid 1831. £	
	Output		1792-1832	Vend. Shows output and price per Newcastle Chaldron. N.B. £ Good source of data.	
281	Market Costs and Profits.		1832	Proceeds on 6 cargoes freighted at market risk. N.B. Good table of data. £	
282				Pit Diary 1830-1831-1832. (a) Leading charges. (b) Technical report.	

£ Good source of prices.

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301	Working Costs		29/5/1833		Cost of leading coals from Tanfield Moor Colliery to Dunston Staith. Detailed analytical table. ₤
302-306	Stanhope Railway				Proposals to link up with new Stanhope Railway Company's line to S. Shields and freight coal. Quotes relative costs and estimated saving.
307-310	Mr. Pitt		26/10/1833		(a) Fixed - prices for coals - standard to trade. Quotes prices. (b) Quotes vend and attempts to account for fall in trade. (c) Negotiations with Stanhope Railway Co. (d) Rival proposals by Carlisle Railway.
311	Farrers to Buddle		27/11/1833		Letter from Pitt's London Bankers enquiring into his affairs due to state of his balance.
311-312	Buddle to Farrer		24/11/1833		Puts case of loss of income and pins hopes on saving in costs effected by new railway.
313-314	Mr. Pitt		30/11/1833		(a) A/C of Trade and estimated vend. ₤ (b) Overdraft at bank. ₤
315-316	"		20/1/1834		(a) Full A/C of changed methods of marketing ₤ (b) Bad debts. ₤ (c) Blames mild winter for loss of trade. ₤
317-318	Open letter		21/2/1834		(a) Signed by N.Wood for Lord Ravensworth & Partners. " J.Buddle for W.M.Pitt. " J.Gray for Tanfield Lea Owners. on Wayleave arbitration. (b) G. Hill's (arbitrator) findings.
319-321	Mr. Pitt		12/3/1834		(a) A/C of coal owners Regulation of Trade ₤ (b) Vend for 1833. ₤ (c) Calculates loss for 1833 and quotes total overdraft. ₤

₤ Good source of prices.

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322-323	Mr. Pitt		21/6/1834	(a) Effect of Trade Regulations improving position. (b) Tenders of 2 Railway CO's. ⌘	
324-325	"		9/7/1834	(a) Inability to remit anything to owner ⌘ (b) Plans re opening of railway.	
326-328	"		16/8/1834	(a) Laying of Branch line from Colliery to Stanhope Railway. (b) Effects on carriages m in removal of employment. (c) Monthly vend. ⌘ (d) Future hopes to offset overdraft. ⌘	
328-330	"		7/11/1834	(a) Successful 1st shipment of coals to South Shields. (b) Cost of stocking line with Wagons. (c) Advance in price of coals. (d) Request for remittance from Farrers.	
330-331	Mr. Greenwell		15/11/1834	(a) Termination of Mr. Huntley's Wayleave.	
331-332	Mr. Pitt		16/12/1834	(a) Reasons for fall in November vend. (b) Legal wrangle over term of notice of Wayleave Rents.	
333	"		6/5/1835	(a) Reasons for lack of income over past few months. (b) Quotes selling prices in London.	
333-335	"		5/6/1835	(a) Methods of freighting and selling. (b) Quotes Prices 1829-1834. - Important source of prices. (c) Blames increase in new collieries for present troubles.	
336-339	"		12/6/1835	(a) Report of freighting state of Colliery. This is a covering letter to enclosures giving statistics. These statistics are not available in this letter. Quotes 1829 as black year which brought coal trade to its knees. (b) Reference to giving evidence on Mr. Pease Committee of Enquiry into Accidents in coal Mines.	

⌘ Good source of prices.

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340-341	Mr. Pitt		18/7/1835	(a) Quotes selling prices in May. (b) Accident at Wallsend Colliery - Distress Fund.
342	"		8/8/1835	(a) Market Price for June. (b) Overdraft at 31/7/1835.
343-353				Pit Diary 1833-1834. Mainly Technical Reviews. Because of State of Trade no binding - Men agreed to work unbound - Complement quoted. Trade rates quoted. Quotes Stanhope Railway Offer. Vend for 1834.
345				
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354	Mr. Pitt		12/9/1835	(a) Further losses. (b) Increase in Colls. on Public Railways
355	"		28/11/1835	(a) Comments on poor Trade. (b) Bank overdraft now cleared.
356-359			1835	Pit Diary 1835. (a) Plans to improve cleaning of coals. (b) Increase to hewers for hardness of coal.
359-360	"		12/10/1835	(a) Market at a standstill. (b) References to Lord Eldon's property.
360-361	"		11/1/1836	(a) Vend for 1835. (b) Willie Pit engine gives out - 38 years services. (c) Price of new engine.
362-364	Messrs. Farrers		1/2/1836	(a) Review of state of collieries Trade and money prospects for future. (b) Estimates value of colliery. £
365	"		7/2/1836	(a) Covering letter for vend. (b) No sale for coals on London Market.
366	Mr. Pitt		20/2/1836	(a) Colliery laid - off for month due to glut of coals.

£ Good source of prices.

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667	Mr. J. Parkinson		1/8/1836	(a) Proposed Sale of Colliery. (b) Proposed Draft of advert.
669	J. Parkinson		7/8/1836	Comments on Fenwick's valuation. ⌘ And arguements for different valuation. ⌘
	⌘ Good source of prices.			
			<u>END.</u>	

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1-5	Mr. M. Russell		14/2/1808		Coal Trade Regulations - re Advance. A/C of meeting.
6-8	"		21/2/1808		(a) Possible Attitude of Shipping interests following advance. (b) Further difficulties over advance. (c) Table of coals vendored 'from best collieries in Jan. 1808.
9	Messrs. Ord. & Ewbank		26/2/1808		Personal bills with Trader.
10-12	Mr. Russell		9/3/1808		(a) Advance of Prices on Wear. (b) Prices of Wear and Tyne coals in London market - examples of Wear costing.
13-15	"		12/3/1808		(a) Resolutions at Meeting of Coal Trade re Regulation of vends (Advance) (b) Various suggested prices quoted.
16-19	"		16/3/1808		(a) Report on affairs of Colliery - quotes prices of various materials. (b) Bad mining practices. (c) Meeting of Ship-owners re advance in coal prices.
20-24	"		25/3/1808		(a) Report of Committee meeting of Coal Trade - Trouble with Murton people over advance and Mr. Bell.
24-25	Mr. W. Ogle London		23/4/1808		Leases - Burradon Colliery.
25-26	C. Smith Esq. Swansea		27/4/1808		(a) Injurious effects of Newport coal on West Country Coal Trade. (b) Taxation of Coal Trade. ⌘
27-28	Mr. Ogle		28/4/1808		(T) Lease-Burradon.
30-32	Mr. Russell		21/5/1808		(a) Working of Barrier by Mr. Brandling. (b) Lease of Byker-Hill Waste - Rent quoted. (c) Sale of Urpeth and associate collieries.
33-36	"		29/5/1808		Brandling's Barrier - suggested financial solution re rents.
36-37	Mr. Reay London		29/5/1808		Proposed valuation of Walker Colliery.
	⌘ Good source of prices.				

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38-39	M. Russell	Deposits & Valuations	10/6/1808	Wallsend Glebe	Report of Discussion with Mr. Blackett (incumbent) re purchase of Glebe Coal. Quotes extent & possible valuation.
40-43	Wm. Surtees Esq.	Colliery Report (T)	15/7/1808	Benwell Colliery	(a) Report of Buddle's position as shareholder of Coll. & Coll. viewer in relation to attitude of Jopling the resident viewer & effects on economy of Coll. (b) Reasons for loss of profits. (c) Output figures 1803-7 & comments on same showing profits. (d) Proposed lease of Coll. on Tentale Rent.
44	Mr. G. Silvertop	Capital Investment	27/8/1808	Wayleave Rents & Profits	Quotes Total capital investment on Tyne & % profit on investment 1807.
45-46	Mr. Boncer Grimsby	Corn Prices	9/9/1808		Introductory letter to corn merchant re prices. Quotes himself as flour miller.
46-47	Mr. Bowlby Durham	Leases (L)	8/11/1808	Wallsend Colliery	- Omission of Glebe.
47	Sir Ra. Millbank Seaham	Colliery Report (T)	16/10/1808	Harraton Outside Fire	Report on viewing Colliery after explosion - re opening up seams again.
48	Wm. Vezie Esq.	Thames Archway	2/11/1808		- Declines advisory post in London. Y
49	Mr. Mounsey Carlisle	Colliery Rents	30/10/1808	New Washington	Adjustment of error in calculation of rent to credit Mr. Musgrave & debit Sir W. Lawson's reps. Figures given for 1/2 yr. ending Dec. 1807.
50-52	Mr. Russell	(a) Regulation (b) Leases	13/11/1808	Coal Trade Wallsend	Meeting of Coal Trade to regulate Best Coals. Draft of new lease.

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53	T. Calvert Durham	Colliery Reports	26/11/1808	Denton	(a) Wayleaves (b) Denton Engine
54-55	The Butterley Iron Co. Derbyshire	Colliery Engine	17/1/1809	Benwell Colliery	(a) Order for rotative engine - haulage. Technical data to be incorporated. (b) Request for iron rail.
56-57	"	(a) " (b) " (c) Iron rails	3/2/1809	" Elswick	Request for credit on proposed purchase. Freightage cost query.
58-63	Mr. N. Ellison	Regulation Brandlings Barrier History	10/2/1809	Coal Trade	Advance achieved. Dismission with Russell on same.
63	Butterley Iron Co.	Benwell Engine Rails	14/3/1809		Price & credit terms.
64-66	Wm. Ord M.P.	Regulation Advance	20/3 /1809	Shipping Owners	(a) Report of findings of Shipping owners following advance in price. (b) State of the Trade.
67-71	Wm. Ord	(a) Regulation Advance (b) Weekly Vend. ⌘	26/3/1809	Shippers v. Colliers	Review of position of tension between Shipowners and Coll. owners.
71-72	Butterley Iron Co.	Rails	31/3/1809	Acceptance of Tender	- Conditions of sale.
73-74	"	"	7/4/1809	Benwell Rails	- Letter giving pattern of rail & Stock for order.
75-76	"	Engine	21/4/1809	Condensing Cistern	
77-81	Mr. Ellison	Coal Owner v. Shipping Colliery Report	21/4/1809	(a) Hebburn	(a) Counter-insurance club of Coal owners proposed. (b) Bad viewers. (c) Advance and compromise with Ship owners.
	⌘ Good source of prices.				

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81-83	H. U. Reay London	Reg. Advance Shippers	24/4/1809	Walker Colliery	Effects on policy & profits of Colliery. Shipowners club beginning to weaken & meet Coll. owners.
83-85	Butterley Iron Co.	Rails	3/5/1809		Discussion on specifications.
85-86	Wm. Ord M.P.	Tyne Loadings	8/5/1809		A/C of loadings & sailings from Tyne.
87-93	N. Ellison	Coalowner Coll. Report	15/5/1809	v. Shipping Hebburn	- Victory for coal owners. Account of state of Trade.
94-95	G. Silvertop	Leases	28/5/1809	Grand Lease	Discussion on renewal in Landships of Winlaton.
97-98	Russell M.P.	Rents. N.B. Price rings maintenance	25/7/1809 N.B.	Walker	Terms of lease. A secret agreement amongst certain collieries to lease Walker from Newcastle Corporation.
99-100	Mr. Silvertop	Coll. Sales	27/12/1809	Crawcrook	Offer to sell and terms of sale Rents quoted.
101-102	N. Ellison	Outstroke	10/1/1810	Hebburn	Means of working coal and estimate of fair rent.
103-105		Memo to present to Dean & Chapter			
106-107	Butterley Iron Co.	Rails	17/5/1810	Tender & Specification	Quotes terms & specification. Asks for prices.
107-108	Owners of Backworth Colliery	Rails	24/5/1810 Y	Offer to sell	- Prices quoted.
109-110	Butterley Iron Co.	"	26/5/1810	Confirmation of order	
110-111	"	Engine Purchase	6/7/1810		
112	Mr. Milton Chatham	Coal Contract to supply	28/3/1810	Tender to Naval yards	
113-114	Butterley Iron Co.	Winding Engine	21/7/1810		Complaints about pedestals. Suggested improvements in design
115	"	Order for rails	15/8/1810		

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LL6-117	Mr. Milton Chatham	Navy Order	19/8/1810	Cost of coals	Useful source of prices.
118	"	"	9/9/1810	Delivery Bates	

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1	Costs-Capital (E)	Chaldron Waggon	1805	Detailed analysis of all material and labour costs. *
2	"	Underground Rolley	"	" " " "
2	"	Underground Sledge	sides	" " " "
	"	Bank	"	" " " "
	"	Rolley	"	" " " "
	"	Moul shafts	"	" " " "
	"	Heamsticks	"	" " " "
3-4	Costs-Working (E)	Engine oils - Wallsend	1804	Quotes prices of all types of oil used for all engines. *
5	"	Do. -Percy Main	1804	Do. States type, quantity and price. *
7	Costs-Capital	Boiler carriage	1804	Costs of all materials & labour *
8	" (E)	Coop cart	"	" " " "
9-14	" (E)	Winding Engine- Percy Main Coll.	"	Detailed financial account of all material and labour costs. *
15-16	"	Winding Engine Tender	"	Copy of estimate by Tirton, Murray and Wood of Leeds. *
17-19	"	Gin- Percy Main	1805	Cost of a 20ft, Gin - quotes all labour and material costs. *
20	"	Ballast Waggon	"	Labour and materials.
21-22	"	Sundries	"	Underground Craine; 33 gall. Tub; Kettle Tub; Underground Sledge; Wheelbarrow; Fram; Tub for leading water. All material and labour costs. *
24	Costs-Capital	Engines	1805	Prices of engines delivered at Hull and made by Murray and Wood(Leeds) . Lists all engines made in the range 10 - 100 horsepower*
25-27	"	Boring Charges	1804- 1805	At Heaton Coll. by Geo. Rawling. *
28	"	Bricks-Wallsend	1805	Costing of Brick manufacture *
29-31	Costs-Working	Engine oils	"	As per pp.3-4. *
31	Costs-Cpital	Portable engine Percy Main Coll.	"	" " " "
32	"	Winding Engine	"	Tender for engine at Elswick-detailed-by Fenton, Murray and Co. Leeds. *

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57-58	Costs-Capital " (E)	Pumping Engine "	1830 1831	Tender to Jesmond Coll. By Crowther and Smith. " " Hawthorn's (Newcastle) *
61-62	Costs-Working " & (E) Capital	Winding Engine Railway Engines	1830 1832	Holywell - includes all materials except firing Rainton and Pittington. Rainton.
63-64	" " "	Winding "	" "	Rainton.
65-66	Costs-Working (E)	Labour Prices	1833.	Fixed at binding- all trades quoted at Back- woth; Marsden; and Holywell.*
67	Costs-Capital (E)	Chaldron Waggon	1834	Bought in Newcastle for Cape Breton. *
68	Technical data	Weights & Measures		Iron work weights, specifications in chaldron waggon.
69	Costs-Working (E)	Main Engine	1833	Resolution Pit - labour and material costs.*
71-72	Costs-Capital (E)	Chaldron Waggon Hardware Prices	1838	by Taylor and Rayner - price only-no details. Per Charlton Bros. Birmingham. *
73	Costs-Working (E)	Main Engine -	1838	Meadows Main, Rainton. *
74	Technical Data	Engines	1840	Pensher Main.
75-76	Costs-Capital (E)	Foundry Work Wooden Tub	1839 "	Newcastle Foundry
77	" Maintenance	Engine Repairs	1840	Washington Coll.
78-79	" (E)	Pump materials	"	& prices. *
80	Costs-Working (E)	New Engine- Howden	1840	Working costs, including firing, for one month. *
81	Costs-Capital (E)	Boring Materials	1840	*
Insert I	Production (E)	Iron	1829-1840	Figures for Wales for the period. (Newspaper cutting.) *
83	Costs-Capital (E)	Iron work prices	1841	Per South Shields Foundry. *
Insert II	Costs-Capital	Waggon Prices		Tender by R. Rayne, Newcastle. *
Insert III	Coll. Report	Wallsend	-	

* Good source of economic data

Extracts from an old view book belonging to E. Bonkin of
COWPEN Colliery and supposedly from that of Will. Dryden.

Volume: 25. PART I.

Pgs.	SUBJECT.	REFERENCE.	DATE.	NOTES
1 - 4	Coll. Report (T)	Byker Coll.	1751, 1744, 1746, 1748.	Very brief report on the satisfactory working of the colliery.
4	Weights andd Prices(E)	Peck Corf - Byker	1745, 1749	(a) Dimensions and weights of Byker waggon. (b) Weight of 16 Peck Corf of coals + price of same. (c) Dimension of corfs at Ousburn 1713.
5 6	Coll. Report(T) "	Heaton Heaton & Byker	1744. 1745.	Quotes annual costs of running pumps.
8 9 9 10	" " " "	Long Benton Spanish Close Heaton & Byker Long Benton.	1746 ? 1745	Report on winning of colliery.
11	Parliamentary Enquiries(E)	Data from Byker & Heaton	1739	Quotes cost of sinking and price of engines.
12-13 13-15	Coll. Reports(T) "	Heaton "	1736 1759	Paper by A. Barnes (dated dated 11/3/1759) describing Heaton when 'layed in' in 1745.
17-18 18-21	" "Reserves Costs-Working (E)	Jesmond Coll. " "	1737 1745	Quotes working costs of engines.(Two)
22	Coll. Reports(T)	Bushblades		Colliery data.
25	Boring Account (T)	Bushblades		Strata
26	"	Tanfield Moor Edge		"
27	Coll. Reports	Mr. Ward's Pit	1747	Leases Coll (?).
28	Costs-Working	Leases Coll.		Expense of working a Boll Corf - quotes labour and material costs.
29-30	Boring Account (T)	Chester South Burn	1746	Strata account of three borings.
31	Costs-Working (E)	Tanfield Moor	1749	Detailed analysis of costs of working 1 Ten. *

* Good source of economic data.

Volume: 25, Part I.

Page	SUBJECT.	REFERENCE.	DATE.	NOTES
32-33	Technical Data	Tanfield Moor	1746	
34-36	Agreements (L)	Byker Coll - Pillars	1748.	Agreement on the working of the pillars. *
37	Weights & Measures (T) (E)	Tanfield Moor	1749	Size of Corves. *
38	Boring Account (E)	"	1743	Balance sheet of costs. *
39	"	"	1745	" *
40	Weights & Measures (T) (E)	Ouseburn Coll. (E)	1713	Sizes of carts.
41	Boring Account (T)	Bushblades	1728	Strata account.
42	"	"	1729	"
43	Costs-Working (E)	Jesmond Coll.	1730	XXXX Analysis of cost per Ten exclusive of sinking charges. *
44	Boring Account (T)	Bensham Coll.		Strata.
45-48	Coll. Report (T)	Kenton	1732	Survey.
49	Costs-Working (E)	Jesmond Coll.	1732	Cost per Ten *
50-51	Coll. Survey (T)	Blackburn Edge		
52	"	Coppeaton Coll.	1734	
53	"	Byker	1767	Working of pillars.
57-59	Boring Account	Mason Lordship	1729	Strata Account.
60	Costs-Capital (E)	Walker Pit	1713	Costs of new sinking *
61	Coll. Survey (T)	Bensham Coll.		Report off seams.

* Useful source of economic data.

Volume: 25, Part II.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
Insert I	Leases	Coxlodge Coll.	1794	Riddell to Liddell Quotes Rents etc..
1	HALFWAY THROUGH THE BOOK THE PAGES ARE NUMBERED FROM 1 AGAIN. Price disputes Boring Charges (E)	1788. A. Wake (Borer) V. Ayrshire Coal Co.		Includes evidence of C. Bedlington. (a) Boring account of strata. (b) " " " costs *
Insert II		<u>MEMORANDA ON COAL TRADE BY J. BUDDLE.</u>		
	Production (E)	Tyne Colls.		
	THIS TABLE IS ONE OF THE MOST VALUABLE ANALYSIS IN THE COLLECTION. BEING COMPREHENSIVE IN ALL WAYS.		1828	A detailed analysis of all collieries in table form, giving the following data:- Colliery technical data Distance to staith Mode of shipment (e.g. Keel or spout) Daily output Daily possible output Type of coal Market price.
1-2	Colliery Ownership and Management (E)		1828.	A survey of the Tyne and Wear collieries indicating owner; proprietor, if not worked by owner; nature of lease etc.
3	"	" Duke of Northumberland	1828.	A list of his collieries in work at the time. *
4-15	Colliery Data (E)	North bank of Tyne South " " " North " " Wear South " " "	1828.	A detailed table with the following headings:- Name of Colliery Proprietor and Lessee Lessee and sub-lessee Depth of pit; Seams working; Distance from pit to place of shipment; Craft delivered into; Coal name on London market.

Volume: 25 Part II.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
16	Capital & Interest (E)	<u>N.B.</u>	1828	Calculation showing the time required to redeem on a capital investment of £400,000 being the sum expended in purchasing the proceeds of the RICHMOND SHILLING according to the respective amount of duties from the year 1799-1828 inclusive, with the accumulation of money since the period of liquidation at the rates of 4% and 5% respectively.
17	Weights & Measures(E)	Relative amounts		
Insert III	<u>Costs</u> - (E)	<u>Capital, Labour & Working</u> N.B.		<p>A table of 35 Tyne collieries giving the following data. Capital embarked; Amount per chaldron paid to lessor; amount per chaldron paid in way-leave rents; <u>number employed and wages</u>;- Underground { men { boys Aboveground { men { boys; Casualties; Engines { Pumping { winding { leading Fixed expenses of laying in by one year.</p> <p>This is one of the most useful and comprehensive sources of data in the collection. A detailed abstract providing a wide survey.</p>

Volume: 26.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1	Boring Charges (E)		1795&1801.	Prices for boring in these years.
	Boring Account	Strata.		The whole volume is a collection of Boring Accounts giving a detailed technical account of the strata. Index to places in the book.

Volume: 27.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
	Boring Accounts -	The second	of two	volumes giving a collection of technical accounts of the strata. Index to places in volume.

Volume: 28. Report on the Earl of Durham's Collieries i.e. Lambton Colls.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
	This whole volume is a financial report and balance sheet assessing the CAPITAL and WORKING costs, valuation etc. of the collieries of the group for the first half of 1835.			
1	Coll. Report (E)	Newbottle Lumley Cocken Littleton Sherburn		(a) Vend (b) A general review of the collieries in which, in general terms, he speaks of their profitableness or otherwise and gives reasons. (c) Rearrangement of the vend regulations on an internal basis -transferring from pits about to close to those just won - without reference to Coal Trade Office (d) " Cost of production has been ascertained from the dissection for of the <u>actual charges</u> on those collieries which are in full operation".
<u>Appendix.</u>				
9 - 11	(a) Profit	Individual Pits		Stated colliery by colliery for the half year. By the whole group.
12	(b) "	Collective		
14 - 31	(c) 1. Production and Costs			The working charges of the several pits. Includes depreciation rates and the running costs of live and dead stock. Calculated pit by pit.
32- 35	2. Haulage Costs.			Costs of working and shipping coals from various collieries, Rates listed trade by trade.
36- 44	3. Tradesmen's Wages			Expense of maintaining railway. Oils, grease etc..
46	4. Rents and rates			
47	5. Maintenance Costs -			Expense of maintaining railway. Oils, grease etc..
48-49	Haulage.			
51	6. Horsekeeping.			
52	7. Railway Ropes Charges			
53	8. Wayleave Rents.			
54	9. COSTS FROM LUMLEY & COCKEN TO BURN MOOR.			
	10. Costs from Philadelphia to Sunderland.			
	11. General Charges.			
61- 68	12. Estimate of costs of output and cost per chaldron.			
69	(d) Production for the first half of 1835.			
70- 71	(e) Valuation of Stock on the Collieries.			

Volume: 28 Contd.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
73-	86	(f) Approximate estimate of valuation of Collieries.		
	89	(g) Approximate value of all collieries.		
	91	(h) List of certain annual rents for DORMANT COLLIERIES.		(Could this be a clear case of dead rents?)

Volume: 29. Being matter concerned with the Lambton group of collieries.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
	THIS VOLUME IS ENTIRELY CONCERNED WITH PRODUCTION AND COSTS, AND GIVES A COMPLETE ANALYSIS FOR THE YEARS 1801 - 1805.			
1 - 11	Production & Costs ..	(a) Fortnightly Accounts (b) Leading Charges.		- Output and charges. 13/8/1800 - 31/12/1800
13 - 38	"	"	"	1801.
Entry 3	"	"	"	1802
4	"	"	"	1803.
5	"	"	"	1804.
6	"	"	"	1805.
		+Undertaker's Charges		

This is a very valuable source of data from one of the larger collieries.

This volume is largely in diary form and is a record of colliery accidents and their causes. As such it is a useful form for recreating working conditions and the hazards of the trade as they faced the underground worker. These diary entries are interspersed with sundry other items as listed.

Volume: 30.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1	Technical data (T)	Gunpowder		Notes relative to the use and power of gunpowder.
3-17	Accidents (T) (S)	Various colls.	1814	ff. Gives the nature of the accident and the names and trade of those involved. Some are accompanied by diagrams.
17	Bank Failures		1815	Account of run on banks.
18	Technical data	Weights and Measures		Air and water.
19-22	Balloon ascent		1/9/1815	Description of local ascent with certain technical data.
23	Accidents (T) (S)		1815.	
24	Technical data	Coke-Glasgow		Weight of coke from coal.
25	Balloon Ascent	Paper cutting		Account from local paper.
26-28	Accidents	Paper cutting Liege, Belgium	1814.	Very detailed account of accident in Belgian mine.
29	"			
30	Seamen's strike			
31	Archduke of Austria's visit.			
34	Accidents			
37 39	Great Tyne Flood Accidents		29/12/1815 .	
41	Coll. Strikes.			
43	Collapse of Banks			Closure of many local banks.
42-46	Accidents Safety Measures	Sir H. Davey		Presentation to him for his invention of the safety lamp.
47-50	Technical data	Thermometrical Observations		Temperatures at various levels in mines.
51	Accidents			

Volume: 30

Page	SUBJECT.	REFERENCE.	DATE.	NOTES
72 - 74	Safety Measures (E)	Invention of Safety Lamp.		<u>Dispute over invention. Davey v. Stephenson.</u>
75 - 77	Weights & Measures (T) (E)			
84 - 85	79 Accidents. Archduke's visits.			Another royal persons visit of inspection, followed by certain professors.
86 - 90	Accidents			
	90 Consumption (E)	England & Wales		Estimated figures for the country.
91 - 92	Archdukes Visit.			Yet another visitor
	92 Accidents			
	94 Haulage (E)	Underground Wooden Waggon Way	1776	References and data on this at St. Anthony's Colliery
95 - 101	Accidents			
102 - 104	Stone Quarries	Portland	1823	Various data (T)
105 - 106	Technical data (E)	Burning qualities of coals		Table giving burning time of given weight of various types of coal, and ash residue remaining.
107	Rotherhithe Tunnel (T)		1825	Account of a visit to the work of Brunell's company engaged in the digging of the tunnel.

Volume:31. /*

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
	Coal Seams	Sections		Data of the seams at various collieries. Index to places at the end of the book.

Volume: 32.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
	Working Diary.	Heaton Coll.		This is comprised of three separately bound volumes.
	<u>Vol. I</u>	1807 - 1812.		This book is mainly technical reviewing the various activities of the colliery and quoting the fortnightly production figures; and pay figures for the period 22/4/1807 - 13/10/1812.
13	Coll. Report (T)			Copy of request and viewers report.
37	Binding (E)			Details of numbers bound in all trades.
90-91	Profits (E)	Balance sheet	1807	A copy of the annual balance sheet (Not Detailed.).
92-95	Production and Profits (E)		1807	Summary of income and costs as extracted from sheets for each pay day.
101	Rents	Reduction	1807	Letter of application for a reduction in the annual rent.
115.	Binding	Pit establishment		
188-191	Production and profits		1809	Summary of income and costs for the year 1809.
	<u>Vol. II</u>	21/10/1812 - 11/1/1816.		This volume covers the great disaster of 3/5/1815. A full account is given of the later pumping, operations to clear the pit.
	<u>Vol III.</u>	14/1/1816 - 31/12/1821.		when Buddle sold his interest in the colliery. This volume begins with the sequel to the 1815 disaster and the discovery of the bodies of the victims when the pit was reopened.
EACH OF THESE VOLUMES CONTAINS AN INDEX OF REFERENCE.				

Volume: 33.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
	Work Diary	Wallsend Coll.		<p>This is comprised of four volumes, the first of which is missing. In the main it is technical data with economic scraps interspersed throughout.</p> <p>Each volume has its own index inside the cover</p>
	Vol. I	Missing.		
	II	1806 - 1808.		
	III	1808 - 1812.		
	IV	1812 - 1816.		

Volume: 34.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
	Work Diary	Lambton Coll.		This is comprised of two volumes of routine observations.
	Vol. I	1806 - 1808.		
	II	1809 - 1814.		

Volume: 35.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
	Work Diary	Washington New Colliery.		This is comprised of three volumes, volume I of which is missing. Most of the information is technical, and economic data is scanty and widely scattered.
	Vol. I II III	Missing 1803 - 1807. 1807 - 1814.		

Volume: 36.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
	Work Diary	Jarrow Colliery		This is comprised of five volumes of the routine accounts of the colliery working life. Most of it is technical, and economic data is widely scattered and brief.
	Vol. I	1811 -	1814.	
	II	1814 -	1817.	
	III	1817 -	1822.	
	IV	1822 -	1829.	This includes information on the strike and explosion of 1825.
	V	1830 -	1833.	This includes material on the strike of 1831.
		Volumes I - III		have indexes and marginal headings are also given.

Volume: 37.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
	<p>Volume 37 of the Buddle collection is comprised of <u>five volumes</u> of <u>ACCOUNT BOOKS FOR TANFIELD MOOR COLLIERY.</u></p>			
	<p>The books are printed account books and a genuine source of the system of bookkeeping at this colliery. The data contained is most useful for output, vend and income.</p>			
Vol. 1	Monthly accounts		1823	
2	"	"	1825	
3	"	"	1826	
4	"	"	1827	
5	"	"	1828.	

Volume: 38.

ENTRY	Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
		Costs- (E) Maintenance	Derwenthaugh Staithe	1780-	1. Total charge of repairs and asesment of current valuation.
		Hereon matter concerned with <u>BUSHBLADES COLL.</u>			
	1	Costs -Working (E)		1781	Total charges in undertakers, Waggoners, landlords rents and pay.
	2	"		1782	"
	3	"		1783	"
	4	"		1784	"
	5	"		1785	"
	6	"		1786	"
	7	"		1787	"
	8	"		1788	"
	9	"		1789	"
	10	Production (E)	Leadings	1781	- 1790 Analysis of production for each year.
	11	Rents (E)	Due to lessors	1781	- 1790 analysis for each year.
		AN IMPORTANT SOURCE OF DETAILED DATA			

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1-17	Coll. Report. (T)(E)	Sydney Coll. Cape Breton	1/7/ 1834	A comprehensive report on the methods of working and the production achieved. Appendix contains plans and diagrams.
18	Agreements (T)(L)	Erection of Engine at Walls end	1/3/ 1796	Copy of a business agreement between (a) Messrs. Boulton and Watts and (b) Mr. Russell and Pters. Appendix contains plans, diagrams and elevations Very detailed source of drawings for Technical Historian.
INSERT Paper I	Boring Account (T)	Seaton Delaval		Strata A/c.
ENTRY	3 Costs- Capital (E)	Steam Engine	6/5/ 1822	Specifications and costs of a Boulton and Watt Engine.
4	Technical Data	Engine Specif- ication. Tyne- Main Coll.	17/6/ 1841.	
5	Coll. Valuations (E)	Cramlington	27/7/ 1840	A copy of the agreement and memoranda relative to the valuation of Mr. Thos. Barnes share of Cramlington Coll. A good source of working and capital costs - live and dead stock.
6	Coll. Report (T)(E)	Prudhoe Main & Wylam	Feb. 1840	Accounts for 1839. Gives a detailed statement accompanied by a report on finances and production. First report by Atkinson, this is accompanied by those of other assessors.
7	Technical Data	Colliery Drops	1839	Diagrams of drops at Seaham Harbour and Rainton.
8	Railway Develop- ment.	Blackboy Coll.	18/1/ 1842	(a) Correspondence from Stockton and Darlington Railway re proposed developments. (b) Report. (c) Detailed Costing of haulage. (d) Detailed analysis of production and market of Blackboy coals.

Volume: 39.

ENTRY	Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
	9	Technical Data	Geology		A very detailed report on the Geology of the Newcastle Coal Field.
	10	Coll. Reports (E) N.B.	Northern Coal Mining Co. Colls	26/8/ 1841.	(a) Report. (b) Memoranda relative to the foregoing report by F. Foster. on following collieries. Cogwood and Stoney Lodge; Willington; Whitelea; Old Roddymoor; Greencroft; Crookhall and Hounes; Andrew's House; Framwellgate Moor. A very good source of data including the cost of royalties.

Volume: 40.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
	Work Diary	Hebburn Coll.	1809 - 1813.	<p>This is a diary of the working life of the col liery and as such is mainly technical. It does contain scattered data on rents, profits, costs etc..</p> <p>Index in volume.</p>

Volume: 41.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
	Work Diary	Hebburn Coll.	1813 - 1827.	<p>This is a diary of the working life of the colliery and as such is mainly technical. It does contain scattered data on rents, profits, costs etc..</p> <p>Index in volume.</p> <p>INCLUDES DATA ON THE 1826 STRIKE.</p>

Volume: 42. Being matter concerned with the Hetton Collieries.

ENTRY	Pge.	SUBJECT.	REFERENCE.	DATE.	NOTES
1		Output (E) (a) (b) Mend and Consumption (c) Tentale rents payable	Tentale Account	1834	(a) An account of coals wrought and drawn to bank from Lyons Coll. 16/11/1833-8/11/1834. (b) Do. Elemore Coll. (c) " Eppleton Coll. (a) Account of coals vended and consumed at Lyons Coll. for the same period. (b) Do. Eppleton. Abstract of Tentale rents due from all three collieries to F.Mascall.
2		Do (E) (a) (b) (c)	Do " "	1835	As in entry one for period 8/11/1834-7/11/1835. Tentale rents due to E.Shipperdson, F.Mascall, Fox and Crofton.
3		" (E)	"	1836	
4		Agreements & Leases (L) (E)	Mr. Fox	1830	Abstract of agreement between Mr. Fox and the owners of the Hetton Collieries for an additional claim for a water course.
5		See 1 " " " " " "	See 1 " " " " " "	1837 1838 1839 1840 1841 1842	

INSERT
Paper I
II

A MOST USEFUL SOURCE OF DATA FOR THE PERIOD 1834-1842. IT GIVES A COMPLETE SET OF FIGURES ON THE RECORD OF PRODUCTION, MARKET AND TENTALE RENTS DUE, ETC..

Volume: 43.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
	' <u>The Great Fault in the Forest of Dean Coalfield</u> ' by J. Buddle.			Published paper originally read to the Natural History Society in 1840.

Volume: 44.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1	Pneumatics - (T)	(T)		Various notes.
21	Geology etc. (T)			Extracts from Humboldt's narrative re Geology Hydrology etc..
Entry 3	Iron Stone Mine (T)	Specifications.	1841.	

Volume: 45.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
	Sinking and Boring Accounts. (T) Strata.			by S. Wormald. Index in Volume.

Volume: 46.

Being material concerned with BACKWORTH COLLIERY.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
	<u>Vol I</u>			
1	Boring account(T)	Strata.		
2.	Work Diary (T)		1813-1827.	Technical record of the life of the colliery. Contains a scanty index. No economic data of any consequence.
	<u>Vol II.</u>			
	Work Diary		1827-1831.	

Volume: 117.

ENTR	Page	SUBJECT.	REFERENCE.	DATE.	NOTES
	1	Coll. Report. (T)(E)	Urpeth Coll.	6/3/ 1815	<u>Estimates costs of production</u> *
	2	Coll. Valuation. (E)	East Sleek- burn Coll.		Production, reserves and stock estimate.
	3	Coll. Report (T)	Hart Estate	27/12/ 1818	
	4	Estate Valua- tions(E)	Hawthorn Moor, Easington.		Estimated valuation of coal reserves. *
	5	Coll. Report (T)(E)	Sherburn Area a		Report on the coal field in this area under lands belonging to the Earl of Durham. * <u>Estimates reserves.</u>
	6.	Costs-Capital (E)	Seaton Delaval	18/8/ 1843	Tender for sinking. *
	7.	Coll. Report (T)	Felling	4/5/1814.	Report in reply to queries following the explosion.
	8.	"	Sauchie Coll.	11/9/ 1829.	Report on fire - supported by diagrams.
	9.	"	"	1836	"
	10	"	Black Boy	9/11/ 1829.	Contains plans.
	11	"	Harraton Coll.		Extracts from accounts of the colliery in 17 Century sunk by Col. John Lilburn.
	12	"	Sydney Coll. Cape Breton		

* Good source of economic data.

Volume: 48.

It is presumed that all matter in this volume concerns Crawcrook.

ENTR	Page	SUBJECT.	REFERENCE.	DATE.	NOTES
1.		Boring Account (T)	Crawcrook Coll.	23/5/ 1821	Strata details.
2.		Costs- Capital & Working	"	1821	A series of monthly accounts for pay made during the sinking and winning of the mine.
3.		" " (E)	"	1822	Ditto for 1822. *
4.		Costs-Capital (E)	"		Money expended for various items. Dead Stock. *
5.		"	"		
			Outstanding Debts.	1823.	*
6.		Colliery Valuations (E)		Dec. 1822.	*
Paper	1	Bills outstanding		Aug. 1825.)	}
	2	"		June 1825.)	
	3	"		Jan. 1823.)	
	4	"		Jan. 1823.)	
	5	Costs-Working (E)	Coll. Pay Abstract	March 1823.	*
	6	Bills Outstanding (E)		Jan 1823.	*
	7	Costs-Working	Sinkers' Wages		
	8	Costs-Capital & Valuations			

* GOOD SOURCE OF ECONOMIC DATA.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1	Technical Data	- An extract	of memoranda	on the colliery.
2	Working Diary		1820-1828.	Scattered data on production, costs, depreciation etc..

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
1 - 46	Coll. Valuation	Hetton Coll.		This is a very detailed and critical financial analysis and is a valuable source of data on all aspects of the finances of mining.
47	Coll. Reports (E)	Do. Do.	6/9/ 1823.	Based on the valuation.
50-60	Coll. Valuation (E)	Killingworth, Willington & Heaton.	1824.	Good source of data, but not as detailed as above.
71-73	Costs- Capital and working (E)	Jarrow Coll.		Estimate for a Stone Drift. *
75	Coll. Reports (T) (E)	Seghill Coll.	6/9/1824.	Gives data on output and income *
81-82	Costs-Capital	Winding Engine	23/2/1819.	*
83-84	Costs-Working	Adlington Col.		*
85-86	Costs-Haulage	Hauxley Coll.		*
87-89	Coll. Reports (T) (E)	New Washington Coll.		Report prior to the renewal of the lease. Estimates fair rent. *
91-113	Costs-Working	Hetton Coll. N.B.	Apr. 1823.	Calculations of expenses based on a vend of 100,000 chaldrons p.a.. A very detailed analysis of costs in all sections.
115-116	Weights & Measures (T) (E)	Pecks, Corfs & chaldrons..		Relative sizes and weights.
117-120	Do.	Methods of estimating		the contents of the seams of coal.
122-124	Coll. Reports. (T)	Plessey Coll.	21/3/1810	
125	Do.	Waldridge "		
125-128	"	Ouston "		

Volume: 51.

Page.	SUBJECT.	REFERENCE.	DATE.	NOTES
129-130	Parliamentary Petitions (E)	Remission of Coal Duties.	1794.	A petition from the coal owners, Fitters and shippers of the port of Sunderland for the remission of coal duties on coals shipped on the coastal trade. Quotes prices and vend.
131.	Coll. Reports (T)	Manor Wallsend	4/1/ 1811	
135-139	"	Cowpen.	1/3/1813.	
140	Costs-Working (E)	Ravensworth & Eighton Moor		Not very detailed *
142-144	Coll. Report (T)	Rothwell Haigh Coll.	1810(?)	
145-149	Leases - Life (L)	Etherley	1824	Renewal of a life in the lease of the colliery.
150-153	Estate - Survey and Report (T)	Macclesfield	1824.	Report of a search for coal on an estate near Macclesfield. Quotes standard rate of boring charges in the North-East. *
154-159	Coll. Valuation	Newbottle.	15/11/1815.	*
160-165	"	Harraton Coll	1799	*
166-167	Estate Reports (T)	Brinsip, Lands		
168-169	Geological data	Comparison of	various coal seams in Rivers Tyne and Wear collieries.	
170-181	Coll. Report (T) (E)	Etherley, Railway Fell, Bitchburn Colls.		Very detailed source of costs.
182-184	London Prices	Canal coals.	6/3/1824.	Estimate of prices of canal coals in London. *
185-186	Vend	Blyth, Tyne & Wear	1800-1823.	Table of coastwise and foreign traffic from each port for each year. *

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187-207	Vend Regulations. Appointing of Judges. (E)		12/1/1827	(a) Correspondence from Coal Trade Offices & basis of Wear Regulations+Vend (N.B.) * (b) Deals with the vend for each colliery separately. (c) Evidence of various viewers. *
209-215	Bond-Miners (L)	Copy of Legal Agreement		ant called the Bond which was entered into each year. *
216-233	Harbour Improvement (E)	Hartlepool	1795	Report by R.Dodd on the Costs and possible total capital expenditure needed to bring the port up to standard to compete with others in the coal trade. *
234-238	Costs - Road maintenance (E)	Turn-pikes	1824	The comparative expense for the upkeep of turn-pikes in various countries. Some of the data copied from the Monthly Magazine Vol.59.P.486. Very detailed table. *
239-244	Miscellaneous Data.	(a) List of highest (b) " " "		edifices in the world. mountains " " "
245-246	Coll. Report (T)	Rothwell Haigh Coll.	1827	
247-248	Coll. Memo. (T)	Ouston.		
249	Vend (E)	River Wear	Jan. 1829	June . Amount of vend and comparative wends since 1824. *
250-253	Costs-working (E)	Landore(Nr. Swansea.)		Estimate of pumping and haulage costs for new winning. *
254-258	Leases (E)	Coxlodge	1818	Terms of renewal *
260-312	Colliery Taxation	Forest of Dean		Buddle's evidence on the Government proposals to establish taxation at the pit head in the Forest of Dean Collieries. N.B. Contains a complete survey of every colliery in the coalfield. *

* Sources of economic data.

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321-323	Vend (E)		1661-1806	A table giving an account of the amount of coals vended from Newcastle and the amount imported into London in this period. N.B. Discrepancy in the two figures, showing imports from other sources than North-East.
325	Costs-Haulage (E)	Tanfield Lee Coll.	1832.	Estimates based on production of cost per Chaldron. *
326-328	Costs-Capital-Railways (E)	Jarrow -Stanley	1822.	A detailed table of costs involved and the capital required for the opening of a new line. *
329-330	Costs-Working Haulage	Stanley to Mount Moor	1822	*
331-334	" (E)	Mount Moor to Jarrow.		*
335	Vends & Prices (E)	Tanfield Moor	1792-1832	*
336	Costs-Working & Haulage (E)	Tanfield Moor	1831	<u>Detailed analysis of all charges</u> *
337	Rents-Wayleave (E)	"	1831	*
338	Costs- Shipping & Profits (E)	South Moor Coal.	1832	*
339	Costs -Working (E)	Pontop Coll.		Analysis of costs based on a vend of 19,000 chaldrons p.a.. *
340-341	Costs-Haulage (E)	Tanfield Moor		*
342-343	Costs-Working (E)	Whitley Pit		*
344-345	Costs-Capital (E)	Pumping Engine Westerleigh Coll.		*
346-347	Costs-Haulage (E)	Tanfield Moor		*

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	This volume contains a number of contemporary newspaper cuttings.			
1	Coal Trade	Report of Lord's Committee	9/10/1830.	Quotes shipping figures. (Extract from Durham Chronicle.)
2.	Church Reform	Income of the clergy from Tythes.	20/9/1830.	A printed letter speaking out against the incumbent of Stanhope (in absentia) receiving £4,000 p.a. from the living whilst accepting appointment as Bishop of Exeter.
3	Coal Trade.	House of Commons Committee.		Report on evidence and findings.
4.	Newcastle Natural History Society			- report of meeting.

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	A copy of an agreement for the erection of a steam engine at Wallsend Colliery.	The book contains drawings and detailed specifications.	1796	