

NEIMME-East-10b

[NEIMME-East10b-001 and 002 are missing]

[NEIMME-East10b-003]

3

[Undecipherable]			
at the Engines	6240		
	6526½	=124.20.0	1407.8.
Short Coals this year			63.10.15½

Note there is 1 Ten. 15 W's [one ton, fifteen hundredweight] of Fire Coals short charg'd [charged] w'ch [which] must be account'd [accounted] for next year.

The Lessees of Longbenton Coll'ry [Colliery] Dr. [draft]

	Tens	W's		£	s	d
For Coals Led to the Staith	1245	03				
Vended by Lansdale as above	37	07				
	1228	10	at 15d pp Ten	965	16	9¼

[NEIMME-East-10b-004]

4

Tanfield Moor Thursday Jan'ry [January] 15th 1767

The main Coal Drift is now ab't [about] 340 yards Westw'd [westward] from the Fourth Staple and is now Boring the 5th and 6th Staples and then will outset the water at the Machine by putt'd [putting] in a Dam at the 5th Stable ab't [about] 2 feet from the Thill [floor] of the Coal, w'ch [which] will leave a sufficient Air Course or Communication between these two Staples; Int'd [intended] not have Sunk the Fifth Staple so near the Fourth on Acco't [account] of the Air Courses and to outset the Machine Water. The Pitts got to Coalwork yesterday but the Owners will be at great expence [expense] of shoveling Snow. I ord'd [ordered] Geo. [Gorge] Emmerson to get forw'd [forward] w'th [with] the Flatt Pit as fast as possible, so that the Brook may be Laid off.

Tanfield Moor edge same day

Is getting forward w'th [with] repairing the Old Boiler and examining the Regulat'g [regulating] Chains and working gear, is also New Timbering the Engine pit w'ch [which] will not be finished in less than two weeks' time. The Duke pit is not yet got to work.

Friday Jan'ry [January] 16th 1767. Shifting to Newcastle.

Chirton Monday Jan'ry [January] 19th 1767

Went and Valued all the Materials belonging to this Colliery. I find the North Headways has got a Dyke and upcast and there are only 9 Bords w'ch [which] havd ab't [about] 40 yards to go. I ord'd

[ordered] that one of these Bords may be hold [holed] and a Headways to be won out for places to the Luckey pit.

[NEIMME-East-10b-005]

5

Tynemouth Moor Jan'ry [January] 19th 1767

Takeing [taking] a valuation of the Stock at this Colliery. In the Chance pit is working the Pillars and has sett [set] that part in Thrusting and bruise'd [bruised] the Remaining part – so is oblig'd [obliged] to sett [set] the men to the Fanney and Ester pitts.

Tanfield Moor Tuesday Jan'ry [January] 20th 1767

[?] the Sixth and Fifth Staples have got the Borhole [borehole] but Emmerson has neglected and drove the Drift to the Fifth Staple 21 yards about and to the Sixth Staple 28 yards about notwithstanding I gave him the Course and Distance to each. Is working the Brook pit and Edge pit in the Hutton Seam. The Dayhole advances very slowly forw'd [forward].

[NEIMME-East-10b-006]

6

said Main Coal Seam ord'd [ordered] that an East Drift may be drove within 10 yards of North Biddick Bound'ry [boundary] and Levels drove to Lay the Coal dry at the face and also to Continue the North Head's [headways] by Boring and also to sett [set] away a East Bord at ab't [about] 50 yards South from the Shaft and then drive Southward till gets the Engine pit Dyke if the drown'd [drowned] waiste [waste] does not interfere. I find there are several things omit'd [omitted] w'ch [which] should be in the Valuation, therefore Mr Hunter and I took that Acco't -account].

Newcastle Saturday Jan'ry [January] 24th 1767

Had a drau't [draught] of a Lease int'd [intended] to be drawn between Messrs Waid and Brown & Sir Ra: [Ralph] Millbank Baro't [baronet] relating the working of Fatfield Colliery and went w'th [with] them to Mr Gibson's Office to get it engross'd [final form of an agreement].

[NEIMME-East-10b-006a]

6a

Wednesday Jan'ry [January] 21st 1767 at Newcastle making remarks relating Sundrie Collierys [sic].

Fatfield Jan'ry [January] 22nd and 23rd 1767

The Rush pit is Idle today on Acco't [account] of a small Accident w'ch [which] happen'd [happened] last week by a fall in one of the NW Bords got a feeder of foul Air. The North Headways is hold [holed] at the New pit Borhole [borehole] but drown'd [drowned] at the face. The Level will be 223 yards to drive and I agreed w'th [with] Rich'd [Richard] Brown to drive it for 15d pp [per] yard. There are seven Bords to work in and the other workmen I ord'd [ordered] to go to the Plain and Chance pitts. In the Chance pit I examin'd [examined] all the Main Coal Waiste [waste] to the SW and the NW. Waiste [waste] in the Goodspeed pit w'ch [which] is very sore fallen, had some thoughts to work the Pillars but when I came to examine the Situation thinks the ridding [clearing and removing of loose material] will be so expensive renders it impracticable. Garden pit in

[NEIMME-East-10b-006b]

6b

Lemington Monday Jan'ry [January] 26th 1767

The Ice in the River is broke up and made a Stoppage of the water between Stella and Lemington occasioned such a Curentcy [current or flow] of water thro' [through] the ongate etc. at Lemington it has wash'd [washed] the foundation not less than 9 feet ppend'r [perpendicular] lower than the Original [original] one & also taken away the Timber in the W. Ongate H. offgate and W. offgate and done a good deal of damage to the NW Corner of the Staith wall notwithstanding there was not much Water in the River.

Wm. [William] Puncheon and Nich's [Nicholas] Toward came w'th [with] their Bill from Tanfield Moor edge in w'ch [which] there was Many Mistakes & Overcharges. I ord'd [ordered] Toward to go to Byker to Make a New Boiler.

[NEIMME-East-10b-007]

7

Lemington Tuesday Jan'ry [January] 27th 1767

Set a great many Carpenters to Lay a Branch of Way and make a Spout at Humbles old Key [quay] to get on the Waggons again but the worse is there is no Room [working place] for the small Coals at the pitts therefore they must Be vended as they are wrought. There are people collecting The Old Timber together down the water then when the Quantity is Ascertained will know better what New Timber Will be Wanted.

At the Old Bridge it is advancing pretty Well forward and hopes in a weeks time to get the Waggons Along. The Betty pit is Idle to day on Acco't [account] of the pelley wheels being broke, James Moffett is very Slow w'th [with] the Catt pit Gin has got very Little forw'd [forward] at the new Engine as the carpenters time are so much taken up at the Catt pit and I find there must be some ruff Cleading pit in the Shaft before the pumps Can be sett [set].

John Christeys proposal to find wood and Workmanship for Do. [ditto] Way, Ballasting, gate keeping mind the Runs & etc. The Owners to find Ballast waggons run The Resgue [?rescue?] of all Damages in the Bridges & batterys And Snow Shovelling for 9 years @ 14s [shillings] pp [per] Ten. Accounting 21 Waggons to a Ten.

A proposal from Cuth't [Cuthbert] Atkinson to Keep in Repair the Waggons at Risemoor and Mickley Moor to find wood and workmanship for the Term of Seven years. The Owners to allow 4 waggons of Fire Coals yearly, the wheel to be wore down to 28 Ins [inches] Diam'r [diameter] for 4s 10d [four shillings and tenpence] pp [per] Ten. Accounting 22 Waggons to a Ten.

Do. [ditto] for building new waggons at 10s [shillings] each workmanship.

[NEIMME-East-10b-010]

10

West Aukland Tuesday Feb'ry [February] 3rd 1767

The Engine pit is new [now] Sunk 16 Fathoms and in A Soft Blue Stone w'ch [which] will not stand without Timber, there are several Cribs putt not Less than 5 feet dist'ce [distance] from each other

w'ch [which] I think three feet Center and Center is far enough & the Cleading deals [planks] or putt ruff on w'ch [which] should have been joint'd [jointed]. I measured some of the cribs in the engine pit Inside of the Cleading deals to 7 Feet 6 Ins Diam'r [diameter] & I understood they should be 8 Feet Diam'r [diameter] The first coal pit is Sunk 8 Fatho's [fathoms] and bor'd [bored] to the Coal but nothing can be done in her till a Drift be at her. I find there is no Timber got for the new Gin to sett [set] on the Coal pit, ord'd [ordered] Barney to make Troughs to lay in the offtake Drift thro' the House for the water is weshing [washing] thro' the wall into the Ash hole and may damage the foundation of the House.

Rob't [Robert] Cargoes Acco't [account] for Sinking - (viz.) –

		£.s.d
Engine pit	11½ Fatho's @ £5.5s pp	60.7.6
Coal pit	8 Do [ditto] @ 32s pp	12.16
		73.3.6
Boring the Coal pit		
Do [ditto] Rec'd on Acco't for the Engine pit		33.0.0

Bar's Brought Acco't [account] for finding Leather, Oyle, Candles & Attendance & etc. at the Engine - (viz.) –

		£.s.d
The Engine pit Sunk on the Acco't	7 Fatho's @ £3.3s pp	22.1.0
Do [ditto] Rec'd on that Acco't		9.9.0
	Balance	12.12.0

Want'd [wanted] for this Colliery

4 Fath's [fathoms] of pumps 16 Ins [inches] Diam'r [diameter]

A Coil of Rattling Line and a Coil of Spun Yarn

An Injection Cock

Some Fearnought

2 Bends of Leather from Mr Smith

[NEIMME-East-10b-011]

Witton Castle Wednesday Feb'ry [February] 4th 1767

This Colliery is new [now] Got to Coal work and the present Coal pit is Situated between two Dykes both a Downcast to the Westward, and there is only ab't [about] 110 yards in breadth of Coal between these Dykes. The Last one that is Got is ab't [about] 80 yards Westward from the s'd [said] Coal pit & is a downcast that way of 12 feet, has try'd [tried] a drift forward thro' the s'd [said] Dyke 24 yd's [yards] & left it off is drifting in a little coal w'ch [which] lies ab't [about] 6 Fathoms above the Thill [floor] of the main Coal Seam...

	Fa's	Yd's	feet	Ins
--	------	------	------	-----

...and has Bor'd [bored] a hole from the s'd [said] Drift to the Thill [floor] of the main Coal Seam	5	0	2	0
the Drift has risen from the s'd [said] Dyke to D'o ditto Borhole [borehole]			16	6
Level to be got for going 68 yd's [yards] backw'd [backward]			5	6
Height of the Main Coal			5	0
	4	1	0	0
The drift will be above the main Coal seam at the dyke if the level was brought up to borhole [borehole]	0	1	2	0
	£	S	d	
Suppose 68 yards of Level cost £5 pp y'd	17	10		
10 d'o [ditto] in Stone and Coal @ 5s pp	2	10		
70 yd's of London pumps for water Course @ 3s pp	10	10		
	50	10		

I recommend that the Level be brought up and the above Scheme enter'd [entered] into w'ch [which] will win most of the Coal in that part of the Estate, as it is most certain ther eis either some Considerable upcast Dyke between the last ment'd [mentioned] dyke & the 26 Fathom Borhole [borehole] or some irregular rise of Colliery but there is no saying how far a Drift may go before it gets the s'd [said] Dyke, the whole distance from the face of the Drift, in the Little Coal to the 26 Fath'm [fathom] borhole [borehole] is ab't [about] 220 yd's [yards]. That drift is drove in the little coal & Stone 18 yd's [yards] over the s'd [said] Downcast Dyke and rises to the west'd [westward] at the rate of ab't [about] one y'd [yard] in 15 & in all probability the Main Coal may rise at the same rate. There is a north head's [headways] at ab't [about] 25 yd's [yards] west from the said Coal pit and New [now] about 110 yd's [yards] in & Bords drove both East & West & all the coal that comes out of the s'd [said] east'd [eastward] must certainly be put about & these East'd [eastward] dips & is troublesome w'th [with] water, if the even on north head's [headways] had been set away w'd [would] have sa'd [said] the extra'y [extraordinary] putt'g [putting] and keep'g [keeping] the water in these eastw'd [eastwards] w'ch [which] will be to do if that part of the Colliery be wrought at all.

[NEIMME-East-10b-012]

Tanfield Moor Thursday Feb'ry [February] 5th 1767

The Flatt pit has got to Coal in the Hutton Seam. I ord'd [ordered] that an East'd [eastward] to the South from the Shaft may be drove double and a Winning Headways set away to the Southward at 20 yards East for the even on South head's [headways] has got a Dyke at 12 yards from the Shaft, the north head's [headways] is new [now] 20 yards in. In the Edge pit I set out some walls to be wrought to the NW from the Shaft and there will be some Levels to drive w'ch [which] Mr Newton's people objects driving. I ord'd [ordered] a north head's [headways] may be set away to the SW from the s'd [said] Edge pit shaft to work some Melty Coal there w'ch [which] they inten'd [intended] Leaving. The 5th and Sixth Staples, are not sunk to the Main Coal yet. The East pit is new [now] 25 Fath's [fathoms] Sunk. The Dayhole in the Cape pit Still continues in a Strong Stone and gets Slowly on.

Tanfield Moor edge Thursday Feb'ry [February] 5th 1767

The Engine has got to work again & lowers the water & every material ab't [about] her is new [now] in pretty good Repair. Is working the Duke pit in the brass Thill Seam and 16 Score pp [per] day w'th

a 20 peck Corf. The north head's [headways] is Standing for want of Air, for Mr Newton has ord'd [ordered] the Air Boxes to be taken & Eastw'd [eastward] turn'd [turned]. I ord'd [ordered] them to be put in again and the Headways drove w'th [with] Six men she is new ab't [about] 190 yards from the Mgate [mothergate]. The South Headways is new [now] 50 yards in and dips moderately. I find several of the Bords drove one yard further Then [than] Directed and is at the Boundary of Busblades Colliery.

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Newcastle Friday Feb'ry [February] 6th 1767

Making Tanfield Moor edge Bills and went to My Ridleys office w'th [with] Wm. {William} Armstrong to get the Cash, also went and Laid Sundry materials for West Aukland & Witton Castle Colliery.

Saturday Feb'ry [February] 7th 1767

Attended at the Coffee house of Walker Colliery and fixe'd [fixed] w'th him to go to Rise Moor on Tuesday first.

Throckley Monday Feb'ry [February] 9th 1767

The Bridge cross Walbottle Dean is new [now] so far finished as the Waggons can come Down to the Staith. There are 9 pairs of Geers set up at the ongate at Lemington & these [those] to be sett [set] in the Gutt will be ab't [about] 28 feet Length. At the Delight pit is pull'g [pulling] in some Ruff cleading and taking the water into a Rit [channel] & there to Cutt [cut] a Bunton [girder or beam in a shaft] Hole for the 30 Fath: [fathoms] of pumps to Stand on there are Several pipes Come from the foundry (viz.) the Injection pipes but Cannot fix them for want of a Cock. The feed pipes are also come but will Have much to do to get them to Answer for in one of them the Spiddick end will not go into the fauc't [faucet] end and the Receiver Laid will not fit therefore will have a new one to cast over, ord'd [ordered] that the working plugg may be hung, Buckett and Clagk pluggs made the Hotwell and Sink pipes fix'd [fixed] & as soon as the Shaft is finished to get the pumps set, I don't Think the Flanges of the pumps are Strong enough they are only one inch thick where the Bolts go there.

[NEIMME-East-10b-014]

14

Rise moor Tuesday Feb'ry [February] 10th 1767

Went w'th [with] Mr Watson to Stella and made an agreement w'th [with] Step' [Stephen] Chambers & part'rs [partners] to make 9 Coal Waggons at 10s each, he to take the old waggons apieces [apart] Carefully & use the wood that sufficient in making the New ones. Went to the Colliery at the Prosperous pit is Working Coals the North Headways is now 10 yd's [yards] in in the Mgate [mothergate] Eastw'd [eastward] is 11 yards in and they cost in each place 3s pp y'd [three shillings per yard] & no Acco't [account] made to the men for their Coals ord'd [ordered] 3 yd's [yards] of Level to be taken out of the Shaft and drove to the full dip of Colliery till it cuts the Coal. The Colliery seems to rise at the rate of one yard in 6 to the Northward, height of the seam is 5 feet 5 ins Clean Coal she works very wet and in all probability will Continue so till The waiste [waste] water be let off.

Walker Wednesday Feb'ry [February] 11th 1767

I find there are 15 pumps now set in the west Engine pit. I try'd [tried] the Centre and the pits to be room'd [roomed (preparation of a working place)] down in some places not less than 8 Inches back for the Low Set of pumps to stand in agreed w'th [with] weatherbourn & henwricks to do that & room [prepare a working place] it down where necessary for £3/3s [three pounds, three shillings]. In the West pit the East workings are now ab't [about] 350 yd's [yards] from the Shaft and these Coals are now putt to the Ann pit till the West pit be got ready to draw Coals at, the SW Dyke is Going pretty well forw'd [forward] to lay off the West pump and then Means to lay off the Ann pit west pump, I am afraid there will not be sufficient room for Air at the West pit after the pumps are putt in therefore I have some thoughts to make the East Engine pit a Downcast and stop up the west by Trap Doors round the Shaft. In the Ann pit the North headways below the 13 feet Dyke is new [now] 200 yards in but the Cover or Roof is very bad in her.

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Makes these places very troublesome as soon as gets the walls hold [holed] ord'd [ordered] the props may be immediatly [?drown?] So by that means $\frac{3}{4}$ h's [three-fourths] part of the props are sav'd [saved] w'ch [which] w'd [would] otherways [otherwise] be Lost besides the planks & Deals [planks] for Lofting [packing for roof supports]. Works ab't [about] 32 Score pp [per] day & night at this pit w'th [with] a 20 peck Corf.

Newcastle Thursday Feb'ry [February] 12th 1767

Makin mem'dm [memorandum] of Sundrie Collierys etc. etc.

Throckley Friday Feb'ry [February] 13th 1767

Went first to Lemington & finds the Carpenters are Busie [busy] making foals & Crowntreis [cross-piece used as support] for the ongate. Mr Bell is of opinion that the Geers will stand in the Gutt without Laying afframe & so far is we have try'd [tried] the foundation I daresay when the weight of the waggons comes to go upon them, they will certainly sink Lower therefore w'd [would] do Nothing more till Mr Brown's Directions be given at The Colliery. Moffit has done very little at the Delight pit Engine since last Monday I was there, only the Hotwell Sink pipe & receiver joint made sufficient the work'g [working] plugg is not hung Nor anything done in the pit. I attended there all day and got the Buntons [a beam placed horizontally across a shaft to act as a support] on that the pumps have to stand on had the Crabrope to change & sev'l [several] more things to seek not very ready & the buntons were not ready to put down, got the windbore [bottom pipe] piece Down to the Length of the Crabrope & had some to splice to it. I went thro' the Ann pit work'gs [workings] and to loose the Swelley [short dip in the coal seam] the method the Annex'd plan will better shew [show].

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16

Throckley Saturday Feb'ry [February] 14th 1767

Lind [lined] from the Ann pit Shaft in the Engine seam From East Side of Shaft

[Seam]	[° [degrees]]	Ch Lin [Chains.Links]
1 st	N14W	1.51
2	S83½W	2.06

3	N88W	.73
4	S71W	3.18
5	S75W	.45
6	S70½W	2.15
		At 1.16 Ch Lin begins a dip Swelley
7	S80W	0.83 to a North Head's & 75 yd's South to wat'l off't to the North
	N17W	3.75 to the face of the Headways
8	S72W	4.20 and 17 yards more to the face
9	S11½E	1.57 and at 72 Lin begins same Swelley
10	S4W	.35
11	S17E	1.67 to the low side of the water Level Bord

	Feet.Ins	Feet.Ins
Levelled from the said waterlevel to the M.gate [mothergate] when the dip Headways goes away and is rise of Colliery		13.11
Dip of Level at the M.gate	5.2½	
Do [ditto] more to face of the Head's kept by a pump	2.11½	
		8.2
The Engine Level is below the face of Do [ditto] Head's at the face		5.9
Note the s'd pump will loose 14 Inches more		

I recommend a Coal Drift may be drove from the face of the waterlevel NW till it gets the Crown of the Swelley w'ch [which] may be ab't [about] 60 yd's [yards] and take up the level if any lost, and then Drive NE water Level & forecutt the face of the places.

At the Delight pit I attended there all day & got the Windbore [bottom pipe], horizontal piece & Clacktree & work'g [working] bar'l [barrel] In which seems to Answer pretty well.

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Throckley Monday Feb'ry [February] 16th 1767

Met Nr Brown at the Engine & stay'd [stayed] there till ab't [about] 9 o'Clock then went to the Staith and try'd [tried] the foundation for the ongate Geers & Mr Brown ord'd [ordered] they May be set on a Frame, has some thoughts of bring'g [bringing] the Offgate another way but Mr Brown fix'd [fixed] of nothing till a further Consideration. Went to west aukland Same day.

West aukland Tuesday Feb'ry [February] 17th 1767

The Engine pit is now 18 fathoms Sunk and got a very large feeder of water ab't [about] 7 feet above the bottom w'ch [which] has abated very little, tho [though] in all probability it will drain off as the Old waiste [waste] to the NW falls and rises as the water does in the Engine pit. I got a Line down one of the Old pits 11 Fa's [fathoms] & there is 4 Fa's [fathoms] of water in her. Went to Greenfield Colliery to view a piece of Ground in dispute between Mr Pierce and Sir John Eden Baro't w'ch [which] the Annex'd [annexed] plan will Shew [show].

[NEIMME-East-10b-018]

Witton Castle Tuesday Feb'ry [February] 17th 1767

There is nothing particular [particular] since my last Acco't [account] of this Colliery, only Mr Cuthbert has ord'd [ordered] the Drift to be drove in the Little Coal w'ch [which] I think is wrong therefore if he takes upon himself to direct the Colliery affairs their [there] is no occasion for Viewers.

Byker Wednesday Feb'ry [February] 18th 1767

Went w'th [with] Mr Brown to this Colliery and finds she in a very bad State for want of Coal and the borhole [borehole] in St. Anthoney's [sic] gets very badly forward, the Stone drift wants now 11 yards to the s'd [said] Borhole [borehole] but still continues in a Strong stone, so ord'd [ordered] that the Barrier left between the old Thrust the present workings may be wrought except except ab't [about] 10 yards to prevent the Colliery Thrusting.

Tanfield Moor Thursday Feb'ry [February] 19th 1767

I find the Sixth Staple is Sink [sunk] from the Hutton s'm [seam] to the main Cola and is 6.1.0.0 Fa. yd.feet.Ins [fathoms, yards, feet, inches] deep, and so is the Fifth Staple and is 6.1.0.0 Fa. yd.feet.Ins [fathoms, yards, feet, inches]. I find from the Hobson's pit to the NE and fix'd [fixed] on a place for the seventh Staple w'ch [which] is ab't [about] 200 yards from the Sixth Staple. I agreed w'th [with] Thos [Thomas] Holiday And part'n [partner] to drive 100 yards of the s'd [said] drift for 2/9 s/d pp yd [two shillings and nine pence per yard] he to Cutt [cut] the Rill [shallow channel].

Lin'd [lined] from the Hobson's pit in The Hutton seam

[Seam]	[° [degrees]]	Ch Lin [Chains.Links]
1 st	N78½E	5.14
2	N10W	1.73 To the Seventh Staple
From the Sixth Staple to the Hobson's pit is		
	S61¾W	15.48
		50 Lin – 300 To a Deal Cabin
Course the Drift has to go is		
	S62W	
From the Seventh Staple to the Spencer's pit is		
	N34W	12.77

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Tanfield Moor Cont'd

The east pit is now Sunk ab't [about] 25 Fathoms forw'd [forward] as soon as she has got the Coal to take the gin off & ridd out [clearing and removing of loose material] the Hobson's pit. The Flatt pit works very good Coal. The edge pit is working the pillars to the NW.

Tanfield Moor edge Thursday Feb'ry [February] 19th 1767

The Headways going to win the Dyke pit Mr Newton will get to work again in two or three days time, must Set on the Success pit in the Brass Thill Seam for Engine Coals soon, as the hard coals are most brunt. The water is only 9 Inches lower in the Engine Shaft since last Start'g [starting] and I am told it

lowers none in Busblades waiste [waste], therefore there must be some Stopage [stoppage] in the Drown'd [drowned] Drift, Puncheon has reduced the Stroke of the Engine to 6 feet and I am sure She can stroke 7 feet very well. I made up the Colliery Bill and sign'd [signed] them as usual the waggons have not yet got on & there are a great many coals rest'g [resting] at the Dyke pit.

Plessey Friday Feb'ry [February] 20th 1767

The Rose pit is now Sunk within three Fathoms of the under main Coal Seam and expects to have hir [her] down in three weeks time, is now working the main coal pillars to the NWard [northward] and NE in the Stady pit & driv'g [driving] the M, gate [mothergate] west'd [westward] to Bounder out a piece of whole coal next to the drown'd [drowned] Waiste [waste], is also working the pillars in the Spring pit to the NW adjoining the Bounder pit workings I ord'd [ordered] that the pillars may be divided & at an equal distance between the Steady rose & Spring pitts, is also working the Spring pit in the under Seam to the NW a dip drift is also going into Hartford Estate & means to fix a pump to draw the water which will win ab't [about] 50 yards in breadth of Coal in Hartford Estate, but the Level from the Engine if truely [truly] drove up will Lay that pump off. That

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Piece of Coal the pillars of the main Coal and what Coal will be got in the rose pit will probably last at the present rate of working two years.

	Fa's	Yd's	feet	Ins
Spring pit in depth to the main Coal Seam	25		2	
Bounder in ditto	27			

Hartford pit in depth from the Surface to the Thill [floor] of the 5 Qua'r Coal Seam	16	1	1	
Dip of Colliery more to the water Level		1		
Bank Level or Desc't of Ground from the Bound'r pit to Hartford pit		1	2	
	18	0	0	0

Bounder pit depth from the Sattle Bords to the Thill [floor] of the 5 Qua'r Coal Seam	15	1		
Rise of Colliery from Hartford Staple at the water Level to the Bound'r pit in the 5 Qua'r Coal s'm	2	1		
Level'd from the s'd Bound'r pit to a Staple near the river and is Desc't of Ground			84	5
Depth of Staple to the top of the dead water in the old waiste			23	5
			108	
=	18	0	0	0

Note the Surface of the dead water is 15½ feet lower than a Certain point known in at the same place is the s'd [said] Bourn and the s'd [said] Bourn is 15½ feet higher than the water level Near Hartford Staple, in order to win Hartford Colliery in the main Coal Seam I recommend that the water in Plessey Colliery that is drawn by the present Fire Engine and the woater that comes from the Old Work'gs [workings], be apply'd [applied] to turn a wheel to be fixed in the 5 Qua'r Coal seam near hard'f [Hartford] Pit w'ch [which] may be got one 18 feet Diam'r [diameter] if chooses and if there is

not water Sufficient to draw the Quantity of water dred [bred] in the s'd [said] Colliery may at a very small Expence [expense] apply the wat'r [water] In the River upon the s'd [said] Wheel.

[NEIMME-East-10b-021]

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Saturday Feb'ry [February] 21st 1767

At Newcastle with the Owners of Walker Colliery etc. and considered about sundrie [sundry] matters.

Walker Monday Feb'ry [February] 23rd 1767

Went and Lin'd [lined] all the remain'g [remaining] part of the workings. From the last Lining marks I find the SW Dyke gets slowly forw'd [forward]. Has got the windbore [bottom pipe] piece and Working Barrall [barrel] in the second Set of pumps in & finds Not many of the pumps will fit, is oblig'd [obliged] to Stand till gets new ones cast. Charlotte pit is now Sunk 20 Fathoms to the top of the Box and Bor'd [bored] 55 Fathoms.

Newcastle Tuesday Feb'ry [February] 24th 1767

Went in the morning to Skinner Bourn and finds there is not much done at Walker pumps, went to the high Craine to see if any pumps were there for Sir John Eden Baro't for his Colliery at West Aulkand, also got some Leather and sent to that Colliery in the afternoon. Making remarks of sundrie Coll'rys [collieries].

Walker Wednesday Feb'ry [February] 25th 1767

The North Head's [headways] in the Ann pit is now [] Yards from the Mothergate West'd [westward] below the 13 feet Dyke and now standing at an upcast of 5 feet to the Northward ord'd [ordered] her to be sett [set] over and the Headways's [sic] to be drove forw'd [forward]. The Eastw'ds [eastwards] goes only 20 yards until they get another trouble and are laid off, in the SW side the westw'ds [westwards] are going against and upcast trouble, The South Head's [headways] has got an upcast dyke to the South w'ch [which] I am going to sett [set] over to lay off the pump. The West Drifts from the Bush pit are now 60 yards in

[NEIMME-East-10b-022]

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and looks pretty well. In the west pit the workings are all to the top of the water level and the M.gate [mothergate] East'd [eastward] is now 270 yards below the said Level and five pumps are fix'd [fixed] to draw the water and is from the West pit Shaft 22 yards North & NE 390 yards to the face of the s'd [said] M.gate [mothergate] East'd has 17 East Bords going to the Southward and the west'd [westward] Dykes at ab't [about] 35 yards from a wining [winning] Head's [headways]. The s'd [said] Head's [headways] is now Standing at an upcast Dyke but how far is not yet known at 250 yards South Head's [headways] Course from the s'd [said] M.gate [mothergate]; works ab't [about] 33 Score pp [per] day to s'd [said] ann pit and one half is wrought o the dip od the s'd [said] Engine. The Charlotte pit is Sunk 20 Fathoms & Bor'd [bored] 55 Fath's [fathoms]. The Low sett [set] of Pumps in the Eat pit is compleat'd [completed] and has got 6 pumps into the Cistern in the Middle Set.

Tanfield Moor Thursday Feb'ry [February] 26th 1767

The east pit is now 26 Fathoms Sunk and in a very strong post, the main Coal Drift is now 10 yards in from the Sixth Staple she dips so is Oblig'd [obliged] to bring up Level, is now working the Flatt pit and edge pit in the Hutton Seam at 24 Score pp [per] day with a 24 Peck Corf.

Tanfield Moor Edge Feb'ry [February] 26th 1767

The Engine lowers the water and she is now in very good order but Still rises in Busblades waiste [waste] therefore there must be some Stopage [stoppage] in the Drown'd [drowned] Drift. The duke pit is working in the Brass Thill Seam and the North Head's [headways] wants now ab't [about] 80 Yards to th es'd [said] Duke pit. I agreed with Thos. {Thomas} Leck to drive her for 20d pp [per] Yard w'th [with] Six Men they to Cutt [cut] the Ritt [channel or cutting] and keep her Constantly going.

[NEIMME-East-10b-023]

Halliwell reans Friday Feb'ry [February] 27th 1767

An Acco't [account] of Fire Coals from Newbiggen Colliery from Decem'r [December] 31st 1760 to and w'th Decem'r [December] 31st 1766.

[NOTE ACROSS TABLE] ** Not a right Acco't ** [NOTE ACROSS TABLE]

	W's	Fothers	Tens	W's	Bolls
In 1761	77	395			
1762	40	131½			
1763					
1764	13	92			
1765	72	832			
1766	114	1218½			
	316	2669			
Ded't for Coals got by my L'ds Ten'ts in 1765 & 1766 for w'ch no Rent is paid					
		312			
	316	2357 =	59	10	08

There are four Engines kept going at this Coll'y [colliery] and has never got the water out since last flood. The Ann pit works ab't [about] 36 XX [Score] pp [per] day and the [] pit works 24 Score pp [per] day with a 16 peck Corf. The ann pit works very well next Brunton Estate.

Saturday Feb'ry [February] 28th 1767

At Newcastle making sundrie Acco'ts [sundry accounts] and went to Mr Jen: [Jenison] Ormston to agree w'th [with] him to take the direct'n [direction] of Gateside fell Coll'y [colliery].

Sunday March 1st 1767

Went w'th [with] Mr Brown to this Colliery and find the first sett [set] of pumps (as said before) ar Completed [completed] and is now taking off the Tub work for the high sett [set] of pumps to Stand in. the Charlotte pit is now Bor'd [bored] and Sunk ab't [about] 78 Fa/s [fathoms] in a Strong Stone. The workings in General are going pretty well forward.

[NEIMME-East-10b-024]

Byker Monday March 2nd 1767

The stone Drift going to the first Cola pit in St Anthony's Colliery wants now ab't [about] 15 yd's [yards] & is in a good workable Stone, costs £1/10s pp y'd [one pound, ten shillings per yard]. The East Drift In At Anthony's has got downcast trouble t the SE of 5 feet & is now Setting her through. In the delight is working a part in the pillars to the SE from the Shaft & the other work'gs [workings] are in the barrier left between the present work'gs [workings] and the Old Thrust w'ch [which] will be of Short duration.

Gateside Low Fell Tuesday March 3rd 1767

The Engine pit is Sunk 8 Fathoms and at the Coal w'ch [which] has been wrought in WCoal [?whole coal?] and pillars in a great Many places on the Fell and as these works may probably intercept many funders [?feeders?] of water. I have ord'd [ordered] her to be close Clead to the Yard Coal seam, is also Sinking a Coal at ab't [about] yards to the East from the s'd [said] Engine pit, I try'd [tried] the waggon way from the s'd [said] Coal pit to the place where it does into Bensham Estate & finds it will be w'th [with] some difficultie {sic} to make a single Horse pull. I also design'd [designed] the waggon way thro' [through] Bensham Estate and made some alterations of it where it has been Stak'd [staked] out/ I also Level'd [levelled] from the SE Corner of a pasture field to the Staith to 149.0½ feet.ins Desc't [descent] of Ground

Feet	Ins [inches]	
4	2	Fall of ongate
24	0	Hight [height] of the Staith
28	2	
120	10½	& the distance is 540 yards to come on the West end of the staith so that the fall will be ab't 4.11¼ feet.ins in every 22 yd's

I ord'd [ordered] that a Gutter may be Cast on the Top of the pot House Bank and two Cond'ts [conduits] made thro' [through] the waggon way to make the Bank as dry as may be.

[NEIMME-East-10b-025]

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Beamish Wednesday March 4th 1767

Went w'th [with] Mr Davison, Mr Brown and Mr Wilkinson to View the Situation of the Ground where the waggon way is intended to be laid to the River Wear & thinks if Lowses Moss Close can be come at upon Reasonable terms w'd [would] Bring the way down there. Mr Brown has some thoughts to bring the water from Beamish Corn mill to apply it to win the Low Seams of Coal near the Skin Mill. Went to Tanfield and finds the Rodds not yet got in Harraton Outside pit. Ord'd [ordered] that Rich'd [Richard] Brown may go and try for them. The Offtake Drift going to the Garden pit is now 12 yards in and is now working the Garden pit in the Main Coal Seam to the NE.

Tanfield Moor Thursday March 5th 1767

The Flatt pit is working in the Hutton Seam & in the whole Coal ab't [about] 12 Score pp [per] day and the edge pit 10 Score pp [per] day in the pillars. The Main Coal Drift is now 40 yd's [yards] from the Sixth Staple & dips so will be oblig'd [obliged] to fix a pump. I agreed w'th [with] Matt'w [Matthew] Robinson & part'rs [partners] to ridd out [clearing and removing of loose material] the

Hobson's pit for 8s [eight shillings] pp [per] Fathom from the Surface to the Hutton Seam. The east pit wants ab't [about] a Fathom to Sink to the Coal.

Tanfield Moor edge Thursday March 5th 1767

The duke pit is working in the Brass Thill Seam to the SW & NW. The Engine is in very good order and lowers the water there but still rises in busblades waiste [waste].

[NEIMME-East-10b-026]

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Friday March 6th 1767 at Newcastle making Sundry Accot's [accounts].

Heworth Saturday March 7th 1767

In the Old Engine pit the M.gate [mothergate] Eastw'd [eastward] is a Considerable way below the Level of the Engine in the upper Main Coal Seam and is now working by Verture [virtue] of pumps but very Little water is bred there ord'd [ordered] that the NW side may be sett [set] on and work a piece of whole Coal next to the 26 Fathom Dyke w'ch [which] may probably afford 500 Tenss. In the Second pit she is Sunk to the Mettle Coal Seam and a Drift and a Drift drove in Coal to the 10 fathom Dyke and then in Stone ab't [about] 40 yards thro [through] the s'd [said] Dyke. The Main Coal in the dip side of the 10 Fathom Dyke ai ab't [about] 3 Fathoms Lower than the Mettle Coal on the rise side thereof and had it been Exactly known before any Stone Drifting had been made on a Drifting might have Serv'd [served] the purpose of a Barroway & Consequently sav'd [saved] a good deal of money. The distance to putt the Coals for the first Corf will be ab't [about] 108 yards but I an afraid there will not be Coals to last till the new way be Completed [completed].

Gateside Low Fell Monday march9th 1767

Met Mr Brown, Mr John Legg, Mr Edw'd {Edward} Smith, Mr Gill, Mr Newton, Mr Hall and others and view'd [viewed] p.pike {Pontop Pike} water Course thro [through] apart of the Colliery Estate. In respect of an Expected additional Rent for the Liberty thereof There appears to be ab't [about] 400 Hog'ds [?hogsheads?] pp [per] Hour of water in p.pike {Pontop Pike} Colliery, recommended By Mr Brown that 40 yd's [yards] of pillars be Sett [set] on the west Side

[NEIMME-East-10b-027]

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of the said Drift & all the pillars on the East Side to Support the s'd [said] water Course and also a piece of whole Coal in the Stable pit adjoining pontoppike Bound'ry [Pontop Pike boundary].

	A	R	P		Tenss
To	1	3	0	of whole Coal	217
	10			of pillars	450
				Total	667

Tanfield Moor Monday March 9th 1767

Agreed w'th [with] Tho. {Thomas} Salton & Partn'rs [partners] to drive a Coal drift from the Ease pit water level one Hund'd [100] Yards for 2s/6d pp yd [two shillings and sixpence per yard] thet to Drive the Ritt [channel or cutting], clead her, hang on the Coals etc. to drive 30 yd's [yards] of north

Head's [headways] and 12 yards of Bords for £3.0.0 [three pounds]. The drift to be 3 feet wide and 4½ feet in Height.

Beamish Tuesday March 10th 1767

	Feet	Ins.
Level'd [levelled] from Beamish Corn Mill at the Tailbrace, to the Surface of the water in the Skin Mill Dam. Desc't [descent]	38	-
from the Surface of the water in the Skin Mill Dan to the Stone Drift end	13	3
Desc't [descent] Total	51	3

	Fath. [fathoms]	Yd [yards]	Feet	Ins.
From the s'd [said] Stone Drift end to the Brass Thill Seam on the banke is Asc.t [ascent]	9	1	0	0
From the s'd [said] Brass Thill Seam to a place int'd [intended] for an Engine	9	1	2	0
From Do. [ditto] place to near the Cock pit	18	1	2	6
From near the s'd [said] Cock pit to the Apple pit	5		1	
From the Apple pit to the Contre pit	12			
From the Contre pit to the Edge pit	4			
Tot. [total]	59	0	2	6

Turn over

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	Fath. [fathoms]	Yd [yards]	Feet	Ins.
From Beamish Corn Mill to the Skin Mill by way the Int'd [intended] race may be Cutt		1250		
The Apple pit in depth from the Sattle Boards to the Thill [floor] of the Shieldro Seam	6	1	0	0

Recommends that the Brass thill water Course may be rided out [clearing and removing of loose material] and to search the Old waiste [waste] near the place where an Engine may probably be fix'd [fixed].

Walker Wednesday march 11th 1767

Measur'd [measured] the Headways's [sic] and walls as usual. The Bunton [girder or beam in a shaft] is now be fix'd [fixed] for the upper Sett [set] of pumps to Stand on the Cistern hole will be Compleat [complete] in a days time, has got the Head's [headways] in the SW Way hold [holed] to Lay off the west pump. There are Nothing more particular in the work's [workings] since my Account on Feb'ry 25th. The Charlotte pit boring gets very Slowley [slowly] forwards on Acco't [account] of the Hard Stone.

Throckley Thursday March 12th 1767

Making his Grace the Duke of Northumberland Acco'ts [accounts] for Lady day Aud't [audit] 1767 and went to Mr John Beaumonts to get an Acco't [account] of the Fire Coals deliv'd [delivered] from Newbiggen Coll'ry [colliery] since Xtmas [Christmas] 1760.

Turn over

[NEIMME-East-10b-029]

[LEFT-HAND SIDE OF PAGE IN LANDSCAPE FORMAT]

Dr. [draft] Newbiggen Colliery Acco't [account]

	Coals led to the Sta [staith]:			Vend'd by Lundale:			Tot'l [total]		
	Tenns	W's	B's	Tenns	W's	B's	Tenns	W's	B's
In 1761 From X'tmas 1760	299	20		78	1		377	21	
1762	288	18		4	17	5	293	13	05
1763	125	06					125	6	
1764	155	0		2	7	14	157	15	14
1765	656	8		16	4	12	672	12	12
1766 to and w'th Sep'r 24th	814	9		25	11	7	839	20	07
	2340	03		126	20		2467	1	
NB The Fire Coals are include'g to Xtmas 1766							1867	17	10
Surplus Leadings							598	5	9

Tenns	W's	Bolls		
598	5	06	at 15c pp Tenn	£448.13.8¾
Half a Year's Certain Rent due Michl's [Michaelmas] 1766				100
				£548.13.8¾

[RIGHT-HAND SIDE OF PAGE IN LANDSCAPE FORMAT]

Contra

	Tenns	W's	B's	Tenns	W's	B's
By Short Coals at Christ's 1760 accounting the Certain Rent to Michl's [Michaelmas] 1760 by Mr Newton's acco't [account]	268	17	10			
By Coals for six Years Certain Rent due Michl's [Michaelmas] 1766	1600					
				1868	17	10

[NEIMME-East-10b-030]

Fatfield Friday March 13th 1767

The Offtake Drift going to the Garden pit is now 242 yards in and is walling her w'th [with] Brik [brick], has got the Borrods in Harraton Outside pit, made the pay and went to Ouston paid the pit

men singly [singly]. There seems to me to be great necessity to have the waggons measur'd [measured] and at Ouston will be in great wants of Coal if Lowes's is not purchac's [purchased].

Saturday [March 14th 1767] at Newcastle Making Mr Beaum'ts [Beaumont's] Acco'ts [accounts] and making a plan of Walker Colliery.

Walker Monday March 16th 1767

The Ann pit is Idle and the pit men are Sticking for the Money that I ord'd [ordered] to be kept off the Drivers for Riding on the Sledges in the west pit Eastway. The Engine water Is rising so that care must be taking [taken] to open the Doors fix'd [fixed] on the delivery and Mr Brown Shew'd [showed] Renwick how to Support the Old Cistern. The Charlotte Borhole [borehole] get very Slowley [slowly] forw'd [forward] on Acco't [account] of the Hard Stone.

Byker Monday March 16th 1767

The Stone Drift wants now ab't [about] 8 yards to the first Coal pit in St Anthony's Colliery and the 5 feet downc't [downcast] trouble to the Eastward has got her Set over and at 4 yd's [yards] further has got another Downcast to the SE of 7 feet. The Delight pit is working a part in the Barrier, left between the Old waiste [waste] and the present workings and also is working a part in the Pillars to the SE.

[NEIMME-East-10b-031]

Throckley Tuesday Mar. [March] 17th 1767

Making a plan of Byker for Wm [William] Peareth Esq. showing a piece of Coal that lies between the Thistle and Jane pit Dyke in Walker Estate and Cont's [continues] ab't [about] 36 acres. Also the Barrier left in Walker Estate ag'st [against] Heaton Boundry [boundary].

Beamish Wednesday March 18th 1767

Went w'th [with] Mr Brown, Mr Baker and others to set out the waggon way to the River Wear but it came on so much Snow, were stop't [stopped] from doing any thing. The [there] is Noth'g [nothing] done in the Apple pit Hard Coal Seam Yet, went into the Brass Thill Seam in the Bankside and finds the Coal wrought 4 yards to the wining [winning], the Bords two Yards wide and pillars two yards thick.

Tanfield Moor edge Thursday Mar. [March] 19th 1767

The Engine is in very good Condition but Lowers the water Slowley [slowly], is now oblig'd [obliged] to Lead the Coals from the Fortune pit, that the Engine bourns, thinks it w'd [would] be right to set on the Success pit in the Brass Thill Seam to Supply the Engine for a months time, and then can Lead the Small Coals from the Dyke pit when the way's [sic] are better. Is now working 16 Score pp [per] day in the Dyke pit Brass Thill Seam. I Lin'd [lined] the workings to the NW. From the Dyke pit Shaft took west Rope.

[Seam]	[° [degrees]]	Ch Lin [Chains.Links]
1 st	S80½W	0.90
2	S45½W	.24
3	S81W	1.09 To a Mark offset To the North
1 st	N¼W	3.29

2	N8W	2.91
3	N9½W	2.61
4	N8W	0.71 To face of Headways
Set 4	S82½W	1.46 and 21½ Yards more to face and at Boundry

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[Seam]	[° [degrees]]	Ch Lin [Chains.Links]
5	N12½W	1.62
		at 50 Lin a west'd 21½ yards and at Bound'ry
		96 a Do. [ditto] 21¾ Do. [ditto] Do. [ditto]
		135 a Do. [ditto] 22 Do. [ditto] Do. [ditto]
6	N17½W	1.33
		at 20 Lin a west'd 22½ yards and at Bound'ry
		54 a Do. [ditto] 23½ Do. [ditto] Do. [ditto]
		107 a Do. [ditto] 19½ Do. [ditto] & short of Do. [ditto] 2 yd's
7	N10½W	1.18
		at 15 Lin a west'd 18½ yards and at Bound'ry 5½ yd's
		65 a Do. [ditto] 25 Do. [ditto] 2 yd's
		112 a Do. [ditto] 25 Do. [ditto] Do. [ditto] 8
8	N2E	0.75 To a Mark
		at 33 Lin a west'd 11½ yards and sho' o Bound'ry 22 yd's
		80 a Do. [ditto] 11½ Do. [ditto] Do. [ditto] 29

Tanfield Moor Thursday Mar. [March] 19th 1767

Level'd [levelled] from the Fourth Borhole [borehole] on Tanfield Moor to the East pit (Viz)

	Fath. [fathoms]	Yd [yards]	Feet	Ins.
Fourth Borhole to the Hard Coal Seam	32			
East pit to the Hutton Seam	28	1		7
Bank Level or Descent from the Fourth Borhole to the East pit	1		1	6
Dip of Colliery from the East pit to the Water level Drift			2	9
	30	0	1	10
The Hard Coal Under level of the Hutton Seam on the dip side of the Dyke	1	1	1	2

The Water level Drift is ab't [about] 25 yd's [yards] East from East pit and is now beginning to drive her forw'd [forward] towards the 50 Fathom Dyke. The South Headw's [headways] Course rises and I am afraid it will Continue so until it comes to the s'd [said] dyke, therefore to win the Hard Coal Seam will be a M [moment] of Consideration. The Main Coal Drift goes very well forward and they are now ab't [about] 120 Yards from the Sixth Staple and rises Moderately, is working the Slatt and Edge pitt's [sic] but

[NEIMME-East-10b-033]

I am thinking to lay off the Edge pit until next Season, and begin to work the Brook.

Friday Mar. [March] 20th 1767

Gateshead fell Colliery Mar. [March] 20th 1767

At the Staith is taking some Rubbish off the Key [quay] for the Erection of the Timber's [sic]. I agreed wth [with] And^w [Andrew] Forster and partn^{rs} [partners] to remove a pavel for £5-6 [five pounds, six shillings] to the dimension's [sic] mark'd [marked] out. I mark'd [marked] out a part of the waggon way and had Nich's [Nicholas] Chancer at the s^d [said] Key [quay] to make a proposal for taking down a part & building it up again for 3s-d pp [three shillings, zero pence per] yard. Superficial, he to cut a part of the Ground to sett [set] the s^d [said] Key [quay] further back than the pres^t [present] one. I find there is a runing [running] Sand in the Bank near the Ongate which will be very difficult to Secure. The Engine pit is now 13 Fath's [fathoms] Sunk & in a Strong post, the Coal pit is now 15 Fath's [fathoms] Sunk and has ab^t [about] 11 man Tubs of water pp [per] Hour.

Saturday Mar. [March] 21st 1767 at Newcastle making sundrie [sundry] Acco^{ts} [accounts].

Monday Mar. [March] 23rd 1767 at Newcastle wrighting [writing] sundrie [sundry] Acco^{ts} [accounts] all Day.

Walker Tuesday [March] 24th 1767

Measur'd [measured] the Headways's [headways(s)] & walls as usual. There is nothing particular since my last Acco^t [account] only is forwarding the NE Dyke, to sett [set] over and is also driving two Bords to, for an Air Course for a piece of Coal to the South from the Even on South Head's [headways] in the west pit

[NEIMME-East-10b-034]

has tried a Dyke to the So East from the west pit but not got the Coal on the Rise side of her so I ord'd [ordered] that she may be Stop^t [stopped] as there are no likelihood of her being set over being such a long distance to put the Coals; works 32 Score pp [per] day of 20 peck Corves in the Ann pit. The west pit Engine will be on all probability be ready in two weeks time. Shew'd [showed] Renwick how to fix the Jackhead Cystern and pumps & to secure the Shaft where the Old one still Stands. The Charlotte pit Still continues in a Strong post.

Beamish Wednesday March25th 1767

Went and set out the Intend'd [intended] waggon way from South moor and Beamish Collierys [sic], to the Moss Close House and also try'd [tried] the way from a Certain point, thro' [through] Pelton Town to 76.50 Ch.Lin [chains, links] to the joining of Ouston waggon way at ab^t [about] 200 yards Eastw'd [eastward] from the Corner pit also try'd [tried] another way to the same place by way of going thro' [through] a part of a Close belonging to Mr Lambton to 76 Cha [chains].

Gateside Fell Thursday March26th 1767

	Fa's. [fathoms]	Yd [yards]	Feet	Ins.
Level'd [levelled] from the Engine pit on Gateside Fell to the View pit to Asc ^t [ascent] of Ground	29		2	

the View pit in depth from the Settle bords to the Thill [floor] of the Hard Coal Seam	55			
---	----	--	--	--

The Engine pit is now 17 Fath's [fathoms] Sunk and in a Strong whin Stone [hard, dark-coloured rock] and the Coal pit is now 18 Fath's [fathoms] Sunk & has ab't [about] 11 man Tubs of water pp [per] Hour. The waggon way gets pretty well forward & is removing some Rubbish near the pothouse Key [quay] for the Staith.

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Fatfield Friday March 27th 1767

Went to the pay and examin'd [examined] the Bills as usual. The Offtake Drift going to the Garden pit is now ab't [about] 30 yd's [yards] in. Is working the Chance pit in the Main Coal Seam & the rusk [small slack, the next grade above dust or dead small] and plain pits in the Five Quarter Coal Seam, there is very poor trade in this River. The Lane pit is now 38½ Fa's [fathoms] Sunk and the New pit in Harraton outside is 24 Fathoms Sunk.

Set out The New Engine House in the Garden pit.

Saturday March 28th 1767 at Newcastle all day.

Fatfield Monday March 30th 1767

Went w'th [with] Mr brown to this Colliery and meas'd [measured] a part of the waggon way int'd [intended] for So.[South] Moor Colliery, first from a known place in Harraton Grounds to a Gitt[?gin pit?] near the Garden pit By way of the North side of Mr Waid's House, to 43 Cha's [chains] and from the s'd [said] place by way of the Chance pit to the same place is 46 Cha's [chains]. The garden pit is working in the main Coal Sm. [seam] to the NE and SE towards North Biddick Bound'ry [boundary] and is tak'g [taking] up 5 feet of Level out of the Garden pit and driving tow'ds [towards] the s'd [said] Bound'ry [boundary] the Chance pit is now working in the s'd [said] Main Coal Seam to the NW between two Dykes and may probably last until the Lane pit be Sunk to the Main Coal Seam, there appears to be some alteration's [sic] of the waggon's [sic] and the sooner they are try'd [tried] the better.

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Beamish Tuesday March 31st 1767

Went and mark'd [marked] out the Engine House on the Banke side near the Brass thill [floor] Drift end, and agreed w'th [with] John Johnson to Cutt the foundation of the s'd [said] House for 2d [two pence] pp [per] Cub: [cubic] yard also greed [agreed] w'th [with] Johnson to make all Cutts and Battery's [sic] from the first Coal pit to the Moss Close House (viz) for a stone Cutt'g [cutting] near the Cobblers House to have 3d pp y'd [three pence per yard] & to be oblig'd [obliged] to make a Batt'y [battery] w'th [with] the Mettle that comes out of this Cutt without any pay ment [meant] for the Battery that the s'd [said] Mettle makes, and all other Cutts to be pain 2d pp y'd [two pence per yard] & Battery's 2d½ pp y'd [two and a halfpenny per yard] except such as does not exceed 2 feet in height or 2 feet depth to be paid 20d [twenty pence] pp [per]rood. Marked out the said way to a Hill

Eastward from the Moss House also agreed wth [with] the 'd [said] Johnson to make Barrows wth [with] boxes for 2s [two shillings] each.

[FOLLOWING PAGE IS OUT OF SEQUENCE]

and may probably go 100 yards further it be compleated [completed] to win the Hard Coal Seam. I had a proposal from Geo. [George] Humble & part's [partners] to drive 30 yards of the s^d [said] Drift for 31s.6 pp yard [thirty one shillings and sixpence-per yard].

Tanfield moor edge Monday 7th March 1768

The pumps in the venture pit and Slydes [slides, upright rails] from the Engine is now finished and I had a tryal [try] w^{ch} [which] answered very well. The Air Brattice is also putt in but not join'd [joined] at top into the Stone Drift where the water is delivered. I ord'd [ordered] the meetings to be made sufficient and shew'd [showed] Wm. {William} Daghish in what manner to do them, and also to lay a suff't [sufficient] Scaffold. There are some boards fallen and also the Headways to the North w^{ch} [which] must be ridded before any Coal work can be got to; went down the Success pit in the Hard Coal Seam and marked out some Pillars to be wrought until proper room [working place] can be made in the venture Pit.

[NEIMME-East-10b-036a]

36a

Tinmouth Moor Tuesday March 8th 1768

Went wth [with] My Brown to Whittle point Staith and from there went down the Good intent pit at Preston and find the West Drift in the walls in hol'd [holed] into the Luckey pit we now Headw's [headways] at ab't [about] 80 yards North from the Luckey pit Shaft, has got the innermost North Headw's [headways] in the Good intent pit ridded 100 yards and wants ab't [about] 40 yards more to the Dyke is now work'g [working] the pillars. I ord'd [ordered] as soon as the Headw's [headways] is compleated [completed] to begin in the extreme NW corner. The Bottom part of the Coal is sore crush'd [crushed] but the top part is not much alter'd [altered]. I am strongly of the opinion that not above one Fifth part of the Whole will be lost.

At Tinmouth moor the New Engine pit is now Sunk 28 Fathoms. The water is very troublesome gets slowly formed until the New Boiler be Putt in and in the meantime to get the Shaft wall'd [walled] wth [with] Brick becomes necessary.

The First pit is now Sinking and is now ab't [about] 20 Fathoms below the Hard Coal Seam. The Shieldraw Seam or upper main Coal lies at 7.0.2.3 Fa's, Y's, F, In [Fathoms, yards, feet, inches] and the hard Coal Seam lies at ab't [about] 19.0.2.4 Fa's, Y's, F, In [Fathoms, yards, feet, inches] from the Settle boards. I went down the Solley pit and finds there is a ritt [channel or cutting] in the shaft for receiving boxes to convey the water from the rings] and Boxes taken from the Stonehead down to the hard Coal Seam, they being so much fail'd [failed] will be oblig'd [obliged] to draw them and pull new ones in w^{ch} [which] are at 16 Fathoms.

Monday & Tuesday March 14th & 15th 1768

At Newcastle on Monday waiting on Mr Waters to go to Rise Moor but he did not come, on Tuesday the weather so bad staid [stayed] in Town the forenoon & afternoon went to Gateside fell, there is nothing going forw'd [forward] there but the Sinking of the Engine pit and Ann pitt [pit].

[NEIMME-East-10b-036b]

Gateside fell Wednesday March 9th 1768

Ord'd [ordered] that a New Boiler be push'd [pushed] w'th [with] all speed as there are more feeders of water advancing. I find the water is gone from the Ann pit apating w'ch [which]] lies ab't [about] 4 Fathoms above the Six Quart'r [quarter] Coal Seam. I [?] Renwick draw the Boring Scaffold and also the Boring Boxes and begin to [?] immediately; that pit wants ab't [about] 18 Fathoms to the Thill [floor] of the Five Quart'r [quarter] Coal. The Engine pit is now Sunk 40 fathoms & 2 feet and in a strong post.

Newcastle Thursday March 10th 1768

Making a plan of the workings of St Anthony's Colliery and Mr Brown a Copy.

Beamish March 11th 1768

The Engine pit is now 32 fathoms to the Top of the Black Stone and 2 Fathoms in the Black Stone w'ch [which] is now ab't [about] 29 Fathoms below the Main Coal in the Edge pit a Boring there are ab't [about] 30 Fathoms difference between the Thill [floor] of the main Coal and Tanfield moor Hutton Seam w'ch [which] makes me suppose she is near [?].

[ORIGINAL PAGE SEQUENCE RESTORED – 1767 ENTRIES]]

Walker Wednesday April 1st 1767

The pumps are now sett [set] in the west pit and is beginning to put in the Spears [ridged guide rails]. I ord'd [ordered] that the meetings may be made 8 Yards Long (Viz.) 2 Yards in the outlay 4 Yards in the Womb & 2 Yards on the income, expects to get the Engine ready to work in two or three days time.

Byker Wednesday April 1st 1767

Level'd [levelled] to try the depth of the New Coal pit in St Anthony's Colliery, the SE Headways is now setting her over the Dyke and Cutting a Barroway for the Coal on the SE side of it.

[NEIMME-East-10b-037]

Tanfield Moor Thursday April 2nd 1767

The water level Drift in the Hutton Seam is now 25 Yards from the East pit Shaft and now going a little to the East from Headways Course & going towards the red raw. Let her to Tho's {Thomas} to drive for 2s 6d pp [per] yard. I measur'd [measured] the Branch from the Flatt pit to the joining of the Edge pit Branch. The Dayhole still continues very Strong and very Small progress is made of her. I have some thoughts to try other fourhands [one of a pair of headings which is maintained a short distance ahead of the other]. The Main Coal drift advances very well forw'd [forward] is now 150 yd's [yards] from the Sixth Staple she dips and is now ab't [about] 1 foot 6 in [inches] under level so is oblig'd [obliged] to keep the water by Laves. The Hobson's pit is Sunk to the Hard Coal Seam & can get no further for water ord'd [ordered] Emmerson to make a Tryel [try] of an Old Drift to loose her but not be at much Expencc [expense] of making the s'd [said] Tryel [try], then probably some other scheme may be us'd [used]. I have long made Complaint of Mr Newt's [Newton's] Neglect of not employing a sufficient Number of Wailers [boys employed in the wagons or at the pit head to pick

out any stone or pyrites that had passed through the screens] but is to no purpose so is oblig'd [obliged] to set on some wailers and may be deduct'd [deducted] out of the Tentail rent [tonnage rent upon coals drawn]. Is now working the Brook and Flatt pitts [pits].

Tanfield Moor edge April 2nd 1767

The Engine is now in very good Condition but has only Lower'd [lowered] the water ab't [about] 15 Inches for ab't [about] 4 Months past so its very plain the feeders of water increases and in all probability partly is from the Venture pit. The North Head's [headways] wants now ab't [about] 70 Yards To hole into the Dyke pit work'gs [workings] in the Brass Thill Seam, is now work'g [working] three Bords to the SW at ab't [about] 80 Yrads from the Shaft and the other Bords to the NW tow'ds [towards] Busblades Boundary there are a great many Hirvings [holing or wedge-shaped excavation made at the bottom of the coal by the hewer] cast and the Coals are as good as I ever saw them in that Seam.

[NEIMME-East-10b-038]

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Whittlepoint Friday April 3rd 1767

Measu'd [measured] the Carpenter Work at the Staith for Cha's {Charles} How and part'rs [partners].

Wm [William] Gibson Esq. & part'rs [partners] To Cha's {Charles} How & part'rs [partners]. Dr

	£	s	d
For making an Ongate 4 Keelbirths 24 Feet at [] pp	10	17	7
Staith 2 Keelbirths 21 Feet at 37 pp	4	11	3
Horse Offgate 1 Keelbirths 15 Feet at 25 pp	1	13	4
To 500 feet of Oak wood sawing for the offgate @2/1 s/d pp H'd		10	5
Roofing in the fore side of the Staith w'th Oak 61½ yd's @2d pp		10	3
33 yd's of Floor'g with Fir @ 1½d pp yard		4	1½
Cladding the Backside of the Staith & fix'g two parts 18 Sq yd's @1/6 s/d pp	1	7	
Cap'g the rails with beach 87 yd's @ 1½d pp		10	10½
Do. Sawing 87 yards @ 3d pp Hund'd		2	2
8 Shutts @ 2/8 s/d	1	0	4
5 Trap doors making @ 8d each		3	4
One Main Spout		10	
One turn Tail		10	
On gate & Offgate gate mending & changing	2		
A Ladder & handrailing	2	6	
38 Fenders @18d pp	2	17	
Caping on foreside of Staith 30½ @ 4d pp		10	2¾
Pailing round the Staith yard, 92 days @ 20d pp	7	13	4
Fixing two Stobs in the Staith		1	6
Making a Little House		5	
Taking down the Old ongate	1	10	
400 feet of plank'g Sawing for flooring @2/1 s/d pp Hund'd		8	4
Sawing 74 Deals for weather bording @2d pp		12	4
Making & hanging two Gates		5	
To putting on the Earzen Boards		10	

Cutting dodds for the Staith wall		10	
	Total £	87	8 2¾

[NEIMME-East-10b-039]

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Rise Moor Monday April 6th 1767

The Prosperous pit is now working Coals in the Low Main Coal Seam at ab't [about] 20 Score pp [per] day w'th [with] a 10 peck Corf. The M.Gate [mothergate] west'd [westward] is now 36 yards in and looks extremely well and when 40 yards to Sett [set] away a North Headways & work the places west tow'ds [towards] the s'd [said] Shaft, has also turn'd [turned] off a west'd [westward] Bord ab't [about] 10 yd's [yards] South from the said Shaft and drive west until the 9 feet of Level be eat out. And then means to drive South Headways Course by Verture [virtue] of pumps until gets as much Level as to lay the Coal Dry at the Dogg pit, has also sett [set] away a North Head's [headways] at ab't [about] 40 yd's [yards] east'd [eastward] from the s'd [said] Prosperous pit & is working Coals there.

I Examin'd [examined] the Stone Drift from Teazel's Staple ab't [about] 70 yards Nort'd [northward] w'ch [which] I agreed w'th [with] Ja. Soulsby & partn'rs [partners] to Sludge and Timber properly, also agreed w'th [with] Soulsby to Sludge the Drift from the Venture pit to the Staple at the Prosperous to putt in Boxes from the Main Coal Seam to the Stone Drift and Drive ab't [about] 10 yards of Level round the s'd [said] Shaft to Collect all the water into the s'd [said] Boxes.

Beamish South Moor Tuesday April 7th 1767

In the forenoon busy making sundry Acco'ts [accounts] and afternoon went w'th [with] Mt Brown to this Colliery. I find there is a great part of the Engine foundation Cutt out, and is beginning to wall the First Coal pit near John Smith's House. Agreed w'th [with] John Watson to drive a Stone Drift from Orpeth bourn to the intend'd [intended] Engine pit to Follow a Strata of Stone

[NEIMME-East-10b-040]

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at ab't [about] 3 yards above the Level of the said Bourn for 10/6 s/d [ten shillings and sixpence] pp [per] yard, alsI agreed w'th [with] the s'd [said] Watson to room [prepare a working place] a pit intended for a Coal pit to be 7 feet Diam'r [diameter] within all Timber he to room [prepare a working place] her to thill [floor] of the Hard Coal fir 19s pp [shillings per] Fathom. Also agreed w'th [with] John Kell to make a 30 feet Gin and sett [set] the same up for £10. Is now getting forward with the Engine House foundation and the waggon way.

Walker Wednesday April 8th 1767

The Stone Levels going to loose the west Pump is not yet Compleated [completed] and will not be in less than one Month's time. I measu'd [measured] the Headways's [sic] and walls etc. as usual. The NE Dyke is making a Barroway but has got a Feeder of water w'ch [which] Makes it very troublesome the west Engine is Compleated [completed] and got to work and is now Rooming [prepare a working place] the Meetings to admit of a 16 peck Corf ord'd [ordered] her to be made 4 Fathoms long and 10 Quar's [quarters] wide in the Womb from the foreside of the Collouring of the pumps [collaring

buntons in a shaft for steadying the pumps and taking the vibration]. Expects to have the Charlotte pit Borhole [borehole] down to the Coal in ab't [about] a Month's time.

Byker Wednesday April 8th 1767

The SE Headways is now got over the troubles and the Coal appears very well. Means to drive East ab't [about] 4 yards and North to hole into another Drift for better Air Course into the Said Headways. The Headways thro' [through] the Old Thrust is very bad and there is no Making Stopings suff't [sufficient] thinks it wou'd [would] be right to putt a Bratice thro' [through] the said Head's [headways] and Stop the Success pit and Engine pit off By themselves and the Delight and Endeavour pitts. The Stone Drift going to the first Coal pit in St Anthony's wants now ab't [about] 8 yd's [yards]
[NEIMME-East-10b-041]

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and in a very Strong Stone w'ch [which] costs ab't [about] £4.10s [four pounds ten shillings] pp [per] yard.

Ouston Thursday April 9th 1767

I have condid'd [considered] the Difference of working this coll'y [colliery] And a piece of Coal that lays near the corner pit belonging to Mr Lowes, and finds by the under Estimate if Lowes's Coal can Become upon Reasonable Terms it may be Prudent enough for Sir Ra. [Ralph] Millbanke to Purchase that off Lowes's, the Difference to work Lowes's will be £80 less that to work Sir Ra's [Ralph's] own therefore I don't think it's worth more to any Purchaser than £40 to run Risque [risk] of Dykes and Troubles.

Corner Pit

Putting costs at present 20d pp Score & Suppose 1400 XX to worth this year	£116.13.4
Lowes's Coal putting upon a Mn 8d pp Score	[£] 46.13.4
	£70
Barroway Deals 240 yards at 16d pp	[£] 6
Setting over the Dyke and making a Barroway	[£] 4
Tot.	£80

Gateside Fell same day

Went w'th [with] Mr Liddle and Mr Ormston first to the Intended Staith near the Pothouse and Stik'd out the s'd [said] Staith to be 24 feet high at the Turn rail and 60 feet in breadth gtom The Front of the Staith Dyke to the backside of the Staith, also fix'x [fixed] on the byway near the s'd [said] Staith went up the Intended waggon way to the Colliery and finds the Smith's Shop the North Gavel is come Down and the other part is not sufficiently built therefore I ord'd [ordered] the payment of the money may be Stopt [stopped]

[NEIMME-East-10b-042]

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until judg'd [judged] upon by some Indifferent [independent] person. The Engine pit Sunk to the Yard Coal Seam and the first Coal pit is within 3 Fathoms of the s'd [said] Seam, is Still continuing work'g [working] Coals at the View Pit in the Yard Coal Seam at about 12 XX {score} pp [per] day.

Friday & Saturday at Newcastle making Sundry Acco'ts [accounts].

Tinmouth Moor Monday April 13th 1737

I find the Stone Drift going tow'ds [towards] the Slide pit is now drove 62 yards in the Downcast Dyke and 4½ yards and wants now ab't [about] 15½ yards to the Int'd [intended] Slide pit. Is working the Fanny pit, the waterlevel drift runs ab't [about] NW course and is ab't [about] 100 yards before the other places thinks it would be right to lay off all the Bords and keep the s'd [said] waterlevel going double, and a Headways to the South from the Shaft to be drove eastw'd [eastward] also to keep going the Bord next the waterlevel to hole occasionally for an Air Course and the Headways from the Grace pit to be kept constantly going. She is now 43 yards in and in very bad Danty Coal, thinks it Necessary to Drive her ab't [about] 4 feet high and 4 feet wide and can open her at pleasure.

Lin'd [lined] from the Betty pit to the face of the Stone Drift going to the Slide pit.

[Seam]	[° [degrees]]	Ch Lin [Chains.Links]
1 st	N15W	0.98
2	N8½E	2.33
3	N83W	2.32
4	N75W	1.10
5	N82W	0.76
6	N60W	0.62
7	N84W	0.40
8	N77W	0.68 Into the Engine waterlevel
9	N32W	1.11 to the beginning of the Stone Drift

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	[° [degrees]]	Ch Lin [Chains.Links]
10 th	N70W	0.44
11	N62W	1.11
12	N71W	0.77
13	N85W	0.43
14	N77W	0.67
15	N81½W	0.17 and 9 Lin. more to the face
16		0.22 and wants ab't 15½ yd's to the Intend'd Slide pit the East side of the Shaft

Lin'd [lined] from the Dolley pit Shaft tow'ds [towards] the SEast Boundry.

[Seam]	[° [degrees]]	Ch Lin [Chains.Links]
1 st	S89E	0.50
2	S9E	1.25
3	S10¼E	3.84
4	S14E	1.46
5	S18½E	1.03 To the face and wants 2.10 Cha.Lin. to the Boundry
Course of the boundry Westw'd is west		
Do. Eastward is	S89E	4.51

2 nd	S16E	
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Byker Tuesday April 14th 1767

Level'd [levelled] as under

	Fa's. [fathoms]	Yd [yards]	Feet	Ins.
Success pit in Diph [depth or dip] from the Settle Boards to the bottom w'ch [which] is about the top of the Main Coal Seam	71	0	1	6
Ascent of Ground from the Success to the Venture pit			1	3
Dip of Colliery from the Success [?] to the face of the Stone Drift			1	4
			2	7
	71	1	1	1
Diph [depth or dip] of the Venture pit from the Settle bords to the thill [floor] of the Main Coal Seam	70		2	3
The face of the Stone Drift underlevel of the Main Coal Seam at the Venture pit	1		1	10

The Jane Dyke was always said to be an upcast to the SWest in Old Byker of 5 Fathoms Nut is proved in A Stone Drift and By boring the Venture pit to be an Upcast to The SW of about 8 feet therefore it is Demonstrable

[NEIMME-East-10b-044]

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The Late accounts given of old Byker differ very much from the tryal [try] now made it decreases the Dyke very much to the NE side of it is ab't [about] 45 yards in breadth of bad danty Coal w'ch [which] will not burn. There is nothing more done at the Engine Sump to Lower the waiste [waste] to water in the Old thrusten works is Standing about 10 feet ppend'r [perpendicular] from the thill [floor] of the main Coal Seam at the said Engine pit.

Fatfield Wednesday April 16th 1767

Went w'th [with] Mr Brown to this Colliery and design'd [designed] the waggon way from Harraton outside Estate to go past the Lane pit which will Lay off a long branch of waggon way from the Rush pit and also when the Plain Pit is finished may Level than branch the Garden pit is still working in the Main Coal Seam to the NE and SE and the 5 feet of Level taken out of the Shaft just Lays the Main Coal Seam Dry at the Boundry w'ch [which] is now finished. The Intended offtake Drift to the s'd [said] Garden pit is also compleat'd [completed], but as the Situation of the Trade is upon a poor footing and Coals Sets so slow at Merkett [market] Mr Brown has considered not to enter into that Expençe [expense] a'ch [which] might probably be £2000. To make more standage for the water at the present Engine Mr Brown has Some thoughts of Setting the Low Set of pumps upon a Bunton & to Bolt a Wind bore piece to them to go ab't [about] a Fathom below the thill [floor] of the present levels.

[NEIMME-East-10b-045]

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Tanfield moor edge Thursday April 16th 1767

Is still working the Dyke pit in the brass thill Seam to the NW and SW. The Drift wants now about 20 yards to go to hole into the Dyke pit workings to the SE from the Dyke pit. Is also working the Success pit in the said brass thill Seam and the small part is meant to Supply the Engine I ord'd [ordered] that the round may be Laid on the front of the heap for London Merkett [market] the Engine is in very good Condition but does not beat the water anything. The Communication between the North pit and the [space] pit is stop't [stopped] so is oblig'd [obliged] to Lay off the [space] pit for want of Air but may put a Brattice from the Hard Coal Seam if choose. Mr Ridley has none of the Hutton Seam now and it does not avail Mr Ridley the Engine going as it does not advantage him or Mr Silvertop.

Tanfield Moor Thursday April 16th 1767

In the Old open cast & Hard Coal Seam Water level course has made a tryal [try] to open her & finds there are close Boxes Laid in the s'd [said] drift but where the Stoppage is has not yet come at. I Laid off the workmen until Mr Brown's directions be given How to proceed the New Dayhole in Cleugh Deen advances very slowly forw'd [forward] and I am pretty well assur'd [assured] is neglected and as soon as gets good hand provided I mean to discharge the Men that is now in her. Is working the Flatt and Brook pitts [pits] in the Hutton Seam.

[NEIMME-East-10b-046]

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Newcastle Friday April 17th 1767

Making Tanfield Moor Contingent Note & Sundry remarks etc

Halliewell reans Monday April 20th 1767

The Ann pit is Idle on Account of fan Accident which Happen'd [happened] three or four days ago to Brust [burst] the Boiler therefore I could not View the Situation of this pit. I find there is a Drift drove from the SE most Engine pit o a pit Sunk in Brunton Estate in the Greys Seam is very much in perfection in the East part of this Estate and may probably Continue good in Brunton but the Low Seam is reduc'd [reduced] very much of its height and very course so in all probably will continue worse the further East w'ch [which] Shews [shows] a very bad prospect.

In Brunton in the Main Coal Seam, there are four Engines Kept going and works about 10 Keels of Coal pp [per] day at present, is now working in the Union pit to the SW & I find there is a Swelley at ab't [about] 100 yards West from the s'd [said] pit w'ch [which] obliges the Lessees to bring up ab't [about] 5 feet of Level to lay the greatest Concave panel dry the westw'ds [westwards] on the South Side have got the Irregular dip and Standing therefore must of Necessity win out these Bords in the said Swelley the Coals in this part are wrought very well But on the SE side of the Said Shaft they are wrought dry the winings [winnings] are pretty regular at 8 yards each, the Bords in General 3½ yards and 4 yards wide. Is also work'g [working] the [BLANK] pit in the s'd [said] Main Coal w'ch [which] begun only about 3 weeks ago and quite a New pit, there appears to be Some pitts [pits] to the Westw'd [westward] bit Whether they are Main Coal pitts [pits] or not I cannot say.

[NEIMME-East-10b-047]

47

Byker Tuesday April 21st 1767

I find there is nothing more done in the Success pit to Lower the waiste [waste] water and the Stone Drift want now ab't [about] 7 yards to the Venture pit Borhole [borehole] ord'd [ordered] that the Drift may rise at the rate of ab't [about] one yard in going 5 yards w'ch [which] will Cutt the Thill [floor] of the Main Coal Seam at the s'd [said] Borhole [borehole], then at pleasure may widen the Stone Drift and work Coals on the rise Side of the Said Dyke. The Delight pit is working a part in the Barrier Left to Support the Old Thrusten works and a part in the pillars to the SW.

Walker Wednesday April 22nd 1767

The Stone Levels to loose the West pumps in the Ann pit is not yet Compleated [completed], has now Let a part of them to The Hall to drive for 2s pp yard [two shillings per yard]. The North Headways on the west side of the west Dyke is now ab't [about] 280 yards in and is using all means that can be done to get a Sufficient Number of places on a front to keep all the Men at work w'ch [which] has never been the case since this Colliery begun and is mostly owing to metting [meeting] with so many Dykes and troubles could not get the Headways's [sic] won out. In the NE side in the ann pit these workings are laid off until the Charlotte or Bush pits be Sunk w'ch [which] will probably cause a better Supply of Fresh Air in the Colliery then can work that part of the Colliery to the Charlotte if Choose In the west pit to the SE. The Coals are drawn at the Ann pit Shaft these workings are now ab't [about] 500 yards distance from the Shaft and all to the Dip of Colliery w'ch [which] makes the putting come very Expensive, from one of the SE Bords and to the dip of the Engine Levels is Driving two Bords until they come

[NEIMME-East-10b-048]

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South Headway's Course from the west pit Shaft and intends to make a Barroway over Double Dykes to Shorten the putt'g [putting] the Coals. The NE Dyke is not yet Compleated [completed]. I have stopt [stopped] the place on the East Side of the Barroway where water was got and ord'd [ordered] to be Sett [set] away ab't 10 yards west and to go North for an Air Course. Agreed w'th Wm [William] Swarley and part'rs [partners] to drive her to the Dyke for 3s [three shillings] pp [per] Yard, Sink a Staple at the s'd [said] Dyke at 10s [ten shillings] pp [per] Fathom, fix a jackroll and Make ready the place for 4s [four shillings] and Drive a Drift 10 yd's [yards] north Headways course below the Said Dyke for 4/6 s/d [four shillings and sixpence] pp [[per] yard. Is now begun to Sink the Bush pit, the water that comes down from that Borhole [borehole] is much abated, it is very evident there must Be Some open Gullety parting [a fissure in the strata allowing amounts of water or gas into the pit] in the Stone for Reason a good Deal of Inflamable [flammable] Air Comes Down it and in East'y [easterly] Wind is so heavy upon the upcast pit makes it Very hazardous and I am afraid in Hot weather will be almost Impacticable until More pits be Sunk. There are Nothing more Done at the West pit for the 16 peck Corf to go, the Charlotte pit Boring Goes Slowley [slowly] on, on Acc't [account] of the Hard Stone.

[NEIMME-East-10b-049]

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Tanfield Moor Thursday April 23rd 1767

The Ridding [the clearing and removing of loose material after a heavy roof-fall] in the Hobson's pit is Still Stopt [stopped] until Mr Brown gives Directions how to proceed (and the Sooner the Better). She is now Standing at a Hard Coal Drift w'ch [which] has formerly been drove to take off the top feeders. The Main Coal Drift is Stopt [stopped] and a hole Bor'd [bored] at the face of the said Drift

from the Hutton Seam therefore does not think it advisable to do Anything more there till the Hobson's pit be ridded out. The face of the s'd [said] Main Coal Drift and Seventh Borhole [borehole] where a Staple probably may be Sunk is East Bordways Course 113 yards and North Head's [headways] Course 38 yards from the s'd [said] Hobson's pit, it would Certainly be Necessary to have an Exact plan for the workings in this Colliery to demonstrate what Quantity of Whole Coal and pillars are yet to work in the NE side of the Main Dyke. In the East pit the water Level Drift in the Hutton Seam is now ab't [about] 110 yards from the twin at ab't [about] 44 yd's [yards] NE from the s'd [said] East pit and now points ab't [about] 10 yards East from the red Raw. The Dayhole is now 52½ yards drove from the working in the Cape pit and now in a tolerable good working Stone But I am very well assur'd [assured] She in Neglect'd [neglected]. The Fratt pit is work'g [working] to the NW, NW and SW; and the Brook pit to NW and ab't [about] 250 yd's [yards] Distance from the s'd [said] Brook pit Shaft.

Tanfield Moor edge April 23rd 1767

The Brass Thill drift want now ab't [about] 9 yd's [yards] to hole into the Dyke pit workings and as soon as gets this Drift Hol'd [holed] ord'd [ordered] that the Dyke pit may go to Coal work in the s'd [said] Brass Thill Seam and the Duke and Success pits be laid off. The engine goes very well but Does not Lower the water much.

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Newcastle Friday and Saturday April 24th & 25th 1767

In the forenoon making remarks of Haliwell Reans, Byker & Walker collierys and Afternoon Went to Gateside Fell Colliery and fix'd [fixed] on the Height to rase [raise] the Staith Dyke and Stik'd [staked] out a part of the Waggon way and offgate near the Intend'd [intended] Staith. Areed [agreed] with Mr Hen'y {Henry} Digance at Aloingbourn near Chichester in Sussex to deliver on the pothouse Key [quay] on or ab't [about] 1100 Yards of Beach rails at 5d [five pence] pp [per] yard. Digance to be at all Expençe [expense] and pay all Dues. At the Colliery fix'd [fixed] on the Jackhead Staple and offtake Drift and agreed w'th [with] Geo: [George] Harrison to do them, also fix'd [fixed] on the Engine House and gave Harrison a plan. The Engine pit is now sunk ab't [about] 2 Fathoms Below the Yard Coal Seam and is ab't [about] 25 Fa's [fathoms] to the Yard Coal w'ch [which] makes in all 27 Fathoms. There is ab't [about] 6 Tubs of water pp [per] Hour in the Engine pit. The Coal pit is now Sunk to the s'd [said] Yard Coal Seam and I ord'd [ordered] a Clay Dam may be put in her to Stop a small feeder of water.

Pelton Common Monday April 27th 1767

I have View'd [viewed] and examin'd [examined] the workings in this Colliery and finds they are Carried on in much the same plan as Mentioned in a View made the 16th of August 1766. The Water Level Drift is now ab't [about] 440 yards to the Southward from the A pit at the face is very good Coal, but a bad Roof at 350 yards from the s'd [said] A pit. I find there is a Waiste [waste] Drift Drove out 66 yards where a pit is intend'd [intended] to be Sunk But the workings are advanc'd [advanced] with'n [within] 100 yards of the Said Inten'd [intended] pit, there is a tryall [try] made to work the Coal in the Dip Side of the Water level and a East Bord drove about 25 yards over the s'd [said] Level at ab't [about] 140 yards from

[NEIMME-East-10b-051]

the s'd [said] A pit as the Water Level Drift is about 11 yards to the Eastw'd [eastward] from the s'd [said] A pit a tryal [try] might as well been made there which would been shorter putting ab't [about] 130 yards and Consequently got as much Coal, there is some pillars wrought to the SW from the A pit. I recomm'd [recommended] that none be wrought within 50 yards of the Water Level Drift and a Horse way must be Left open for the remaining part of the Colliery to the SW. I strongly Recommend it may be near the water Level otheways [otherwise] it will be a very precarious one when the pillars come to be wrought on each Side. There are great heaps of Coal Resting at the pitts. The walls are generally hold [holed] at ab't [about] 40 yards to pillar and Measured 17 Bords or winings [winnings] to 143 yards to the SW & NW from the B pit w'ch [which] is Scarce 8½ yards to a wining [winning] w'ch [which] I think is too Little. I Lind [lined] all the workings in this part of the Colliery to the South and SW w'ch [which] the Annex'd [annexed] plan will shew [show].

Wylam Tuesday April 28th 1767

The Engine House foundation is nearly Completed [completed] So will in a Short time got to build the New House. I met Mr Coulson, Mr Baker & Mr Brown at the Colliery to Consider ab't [about] Sund'y [sundry] matters & particularly to make the Coals Rounder. I went Down High Haugh pit in the five Qua'r [quarter] Coal Seam and finds She will not be of long duration, the North workings and Hold [holed] Into the Lane pit workings and the NE workings will in a Short Time Hole into the Elliot pit workings the NW and SW will get the Main Dyke and as there are no more 5 Qua'r [quarter] Coal pits Ready recommends to make some preparation soon, above the Said Five Qua'r [quarter] Coal Seam Lies the Three Qua'r [quarter] Coal which Has a Communication to River Tyne & in High floods the workings in the s'd [said] ¾ [three-quarter] Coal in Drown'd [drowned] with water therefore it will not be advisable to work any pillars in the s'd [said] 5/4 [five-quarter] Coal Seam under where the ¾ [three-quarter] Coal is wrought & I think 8 yd's [yards] is sufficient

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Wining [winning] where the pillars cannot be wrought To throw under Ground in the s'd [said] 5/4 [five-quarter] Coal Seam 3 Corves in every Score will reduce the Quantity of Small Coals vey much but I find there is a probability of Vend'g [vending] a good deal by Land sale w'ch [which] must be well consid'd [considered]. Is also working Wheat and Hedge pits in the Six Qua'r [quarter] Coal Seam. The 6 Qua'r [quarter] Coal level runs about 60 yards to the dip of the s'd [said] Hedge pit and is now Stand'g [standing] & the Bords are now ab't [about] 20 yards Before her w'ch [which] shou'd [should] not be the Case. I ord'd [ordered] She may be got on & to keep her Constantly ab't [about] 30 or 40 yards before the Comon [common] workings w'ch [which] will probably Drain them they now work very wet. The Cover is very bad to the SE and NE and if tho't [thought] necessary to cast any Throing [Throwing] Coals [breaking out the spurns from the cuttings and knocking out the nogs from the under-cut ready to bring down the main body of coal] there the Quantity could not be ascertained. The New waggon way to the pasture pit the Levelling is nearly finish'd [finished].

Newcastle Wednesday April 29th 1767

Making a plan of the Lineing of Pelton Comon [common].

Washington Thursday April 30th 1767

The Sinking of the Engine pit has been stopt [stopped] Sometime to fix the sett [set] of pumps in the middle Cystem & has been drawing the Low Set or Sinking Sett [set] it is very probable there may be Some Sunk below the Cystem by Horse Tuns as there are no feeders of water in the bottom at present. I find Bolass has got nothing Done with the Ventilators to Serve the Engine pit with Air. Mr Brown agreed with Renwicks and Bolass to Sink the Engine pit find Carpenters make and fix Ventilators, find Plugg men Fire men Sinkers Leather Sun yarn Cord Line paint paper, Make and put in all Brattices Air Boxes Cleading Deals [planks] in good and workmanlike Manner, To Sink her

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from the Low Cystem to the Thill [floor] of the Main Coal Seam for £15 pp [per] Fathom. The Engine pit is Now Sunk Fa's Y'd Feet Ins 52-1-1-6 [Fathoms, Yards, Feet, Inches].

Fatfield Thursday April 30th 1767

Mr Brown & I Sett [set] out the Intended waggon way from the Blake pit in Harraton outside Colliery to join Allensway to the North from the Brick garth and gave Ld. Turner the Heights of the Battries [sic] and depth of the Cutts level'd [levelled] from the present Engine pit to take off the Lift of water and finds if a Drift were Drove from near the waggon way it would Reduce the Lift 4 Fathoms and 2 feet. I ord'd [ordered] That Lan'd Turner Turner may Sett [set] it and get it done as fast as possible. There is a very poor Coal trade in the river therefore is oblig'd [obliged] to reduce the workings.

	feet
Measu'd [measured] The Breadth of Staith in a Mean	72
Height at the west Turn rail	16
Length from Do. Turn rail to west end of the Staith	81
From the Front of the Dyke to the turn rail	29
From Do. Turn Rail to the Back Do.	21

Gateside Fell Friday May 1st 1767

I find the offtake Drift is begun to be walled and is preparing the foundation for the Engine House, ord'd [ordered] that the Smiths Shop may be finish'd [finished] as soon as possible and the Smiths got to work and likewise to get some Boiler Plates for the Boilers.

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Ouston May 1st 1767

Went with Mr Brown to this colliery and Met Mr Wilson to Consult about Mr Lowes's Coal; there is as Much coal is Sir Ra's [Sir Ralph Millbank's] own Estate that can be wrought this year to the High [?Slack y'd?] & Corner pitts [sic] shich will probably be as Long as that Coll'ry [colliery] may work & to Sink a pit to the Southward from the Corner pit may Serve the demands for Land Sale upwards of 20 yards, therefore Does not think Lowes's worth Sir Ra's [Sir Ralph Millbank's] notice.

Beamish May 1st 1767

The foundation for the Engine House is not yet Compleated [completed] for the Masons to begin, sett [set] out a Smiths Shop to make the Engine Materials at, the waggon way advances pretty well

forw'd [forward] agreed with Laws and Fish to Make a Battery Near Handon Howl for 3d pp [three pence per] yard to measure the place where the Mettle is taken out and not the Battery. The first Coal pit is Sunk 7 Fa's [fathoms] 1 y'd [yard] To a Scaffold & as soon as got the Scaffold the Sinkers were Laid of [off] with water. Recommends to drive a Drift in the Brass Thill Seam from the Banks near the Leather Mill and Bore a Hole upon the s'd [said] drift then can sink to the s'd [said] Brass Thill Seam.

Lin'd [lined] from the Drift mouth near the Intend'd [intended] Engine in the Brass Thill Seam.

[Seam]	[° [degrees]]	Ch Lin [Chains.Links]
1 st	N55½ W	0.52
2	N26W	.13
3	N85W	.16
4	N13½W	.15
5	S77½W	1.07 at 20 Lin and South Headways
6	S6½W	.14
7	S64W	.73
8	S80W	.31
9	S68½W	.47 & 21 yd's more to face
10	N14¾W	.25
11	S77W	.46 and 81 Lin more to face
12	N15W	.26 at 26 Lin a west'd 81 Lin; then So: 30 Lin and W 60 Lin to the face of another Bord

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Beamish cont'd [continued]

Measu'd [measured] the foundation of the Engine house

£-s-d

to 581 yards at 2d [two pence] pp [per] 4-16-10 [4 pounds, 16 shillings and 10 pence].

Tanfield Moor May 1st 1767

Is now working the Brook and Flatt pitts [pits] in the Hutton Seam. The Flatt pit North Headways has taken a dip that way and the Westwards is going against the Dyke To drive the Mothergate west'd [westward] Bord from the Brook pit wou'd [would] loose the South Coal from the Flatt pit but cannot get Mr Newton to Consent to it. The South water Level Drift is 113 yd's [yards] from the East pit ord'd [ordered] that She be Stopt [stopped] and Set away another Drift from the East pit Shaft to go S32W.

Lin'd [lined] from the East pit Shaft to the face of the waterlev'l [water level] Drift.

[Seam]	[° [degrees]]	Ch Lin [Chains.Links]
1 st	N71E	0.06
2	N15E	1.45
3	N40E	.50 into the drift
4	N88E	.25
5	S45E	.30
6	S34½E	2.85

7	S14½E	1.73 and S44W 14 Cha: 20 Lin: to the fourth Borhole bear Wm Armstrong's House
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From the end of the 7th Sett [set] Course the Southmost Borhole [borehole] near Tanfield Leigh is S10½W 16 Cha: 56 Lin:

Tanfield Moor edge same Day

The Duke pit is Laid work in the Brass Thill Seam and has now sett [set] on the Dyke pit in the Same Seam w'ch [which] works much better Coals than the Duke, has on 14 XX [score] pp [per] Day, the coals come very foul and no pains are taken to Wail [the process of picking out stone from the coal by hand] them. The Engine is still in very good Condition.

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Gateside Fell Friday May 1st 1767

The p'ticular [particular] Mentioned on the other side.

Saturday at Newcastle all Day and afternoon attended on Mr Brown etc. at the Exchange & Walker Owners at the Coffee House.

Gateside Fell Monday May 4th 1767

At the Staith agreed with Andrew Forster to remove 443 yd's [yards] of rubbish at 3½ d pp [three and a ha'penny per] Yard. of [off] the Key [quay] and Lay it in a Convenient place for the waggons to take it to the w.way [waggon way] for Ballast. I also agreed with Nich's [Nicholas] Chancer to raise the Staith Dyke w'th [with] Stones and pull down a part of the S'd [said] Key [quay] for 3s pp [three shillings per] cubic yard Workmanship. There are Nothing Else going forward at the Staith, the Breast wall is Compleated [completed], and is advancing pretty well Forward with the waggon way. I Level'd [levelled] a part of the waggon way thro' [through] Shipcoats fields and gave A. Forster the Heights etc. at the Colliery; the Engine pit is Sunk now ab't [about] 27 Fathoms and has ab't [about] 8 Mantubs pp [per] Hour, gave Sundry Directions ab't [about] the Engine to Geo. [George] Harrison & J. Weatherbourn (Viz.) to make the floor of the dwelling House 5 feet p'pender [perpendicular] above the Bottom of the ash hole and to make the Height of the rooms [working places] 7 feet inside, also to make the Cylender Floor 2 feet p'pender [perpendicular] below the top of the Boiler and 14 feet p'pender [perpendicular] above the ash hole, the Coal pit is now Sunk about 26 Fathoms.

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Tanfield Moor May 5th 1767

In the Hobson's pit I ord'd [ordered] that she may be got forw'd [forward] and a Dam [.] and I agreed w'th [with] Matt'w {Matthew} Robinson & part's [partners] to putt in a Dam [.] and ride the Drift in the upper Seam for £1. I find the Drift In the Hutton Seam going to win [.] the Hard Coal Seam on the Dip Side of the main Dyke is now 16 yd's [yards]in but they have drove her the point I ord'd [ordered]. I find the Dayhole gets Slowly forw'd [forward] therefore I mean to Set some other hands to her, the Brook pit is work'g [working] to the NW and 14 XX {Score} pp [per] day and the Flatt pit to the NE and SE and 16 XX {Score} pp [per] day with a 24 peck Corf.

Tanfield Moor edge May 5th 1767

This Colliery is in much the Same State as mentioned in my Last, is now working the Dyke pit in the Brass thill Seam to the NW and SW and 15 XX {Score} pp [per] day, the water in the Engine falls Slowly and it Continues rising in Busblades therefore it is vey plain that the water Course in the Hutton Seam between these two Collierys [sic] is Stop't [stopped] and Mr Ridley will get none of the Hutton Seam from Mr Silvertop but I think the Brass thill Seam in the Dyke pit is near as good as any Hutton Seam.

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58

Walker Wednesday May 6th 1767

The Levels to Lay of the west pump is not yet completed, is now bringing up 5 feet of Level from the west pump in the Ann pit. The workings are in the Ann pit to the North westward and is now continuing the Headways's [sic] with all speed to get a Sufficient number places on a Front. I mean to set the M.gate [mothergate] West'd [westward] forw'd [forward] w'ch [which] is now Standing at a Downcast Dyke of ab't [about] 6 feet to the SW and also the bord on the South Side of the M.gate [mothergate] to try that part of the Colliery which will probably Cutt the Feeders of Foul Air. In the West pit is Setting over the NE dyke to win [.] a piece of Coal that lies between the s'd [said] Dyke and the water level Drift which will Shorten the putting the Coals Considerably, there are two west Drifts driving from the East Side of the west pit westward and wants now ab't [about] 60 yards to go until they come South Headways course from the s'd [said] west pit Shaft, is now Setting over Double Dykes to make a Barroway to a piece of Coal there which may be in all likelihood [likelihood] afford ab't [about] 400 Tens of Coals. The West pit is not ready for Coal work ord'd [ordered] Renwicks to get Some Waist [waste] Boxes in and the meetings comleated [completed]. The Charlotte pit Borhole [borehole] wants now ab't [about] 5 Fathoms to the main Coal Seam and the Borhole [borehole] pit is now ab't [about] 27 Fathoms down.

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59

Tanfield Moor Thursday May 7th 1767

Matt'w [Matthew] Robinson who I agreed with to put in the Dam to Stop the Top feeders of water in the Hobson's pit is neglecting very much & I am told has agreed w'th [with] Mr Newton to Sink a pit at Tanfield Town head which employs his time therefore my expectation of getting this pit to work before the Binding the waggon men I am afraid will fall Short, but if Mr Newton makes a Comon [common] practice of encouraging these people after punctual agreem'ts [agreements] are made some means must be of necessary be us'd [used] to prevent it, the Coals at the Coll'y [colliery] in the Flatt and Brook pit comes exceeding small to Bank therefore if the workmen does not take more pains to Hirve [cut] their Bords properly I told the Overmen I would complain to Mt Colpits and Mr Brown who wou'd [would] Certainly Stop the payment of the Cash. I turned off the Dayhole men for Their neglect and has stopt [stopped] the payment of the Money until Mr Brown settles the Acco't [account].

Tanfield Moor edge May 7th 1767

Is still working in the Dyke pit and the Brass thill Seam to the NW and SW, several of the workmen has fallen Short of the Stepulated [stipulated] Hirvings [holing or wedge-shaped excavation made at

the bottom of the coal by the hewer] w'ch [which] makes the Coals Smaller than they ought to be. I ord'd [ordered] that these men may be punish'd [punished] and that Outsider may be more stricter for the future. As the Engine is of no service to this Coll'y [colliery] or Busblades it may be Considered to Let the water rise to the Brass thill Seam or not.

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60

Tinmouth Moor May 8th 1767

Went to this Colliery w'th [with] Mr Brown and examin'd [examined] the work'gs [workings] in the Fanney pit. First we find the stone Drift advances but Slowley [slowly] forward for has only got her ab't [about] 10 yd's [yards] over the Downcast Dyke and now wants ab't [about] 10½ yd's [yards] to the Intended Slide pit ord'd [ordered] that She may be Constantly kept going mark'd [marked] out a pit to be Sunk upon the s'd [said] Drift we Suppose the s'd [said] Drift will be ab't [about] 7 Fathoms above the top of the Coal, the waterlevel Drift from the west work'gs [workings] in the Fanney pit is now got the Slide pit Dyke at [] yards distance from the Shaft w'ch [which] is a downcast to the Northward not yet try'd [tried] how far, has drove her a little to the rise of Colliery before comes at the s'd [said] Dyke and Lost ab't [about] 5 feet of Level, ord'd [ordered] that it may be taken up to the s'd [said] Dyke to try to get the Top of the Coal, in the Fanney pit ord'd [ordered] that the East Head's [headways] may be Drove w'th [with] all speed from the Southmost work'gs [workings] and west'd [westward] Bords turn'd [turned] out of her to try to work the Coal dry. I find the East Drift to Mr Humbles Slide pit and finds She wants 3 yd's [yards] to Hole into the s'd [said] pit when hold [holed] can Lett [let] off the waiste [waste] water at pleasure w'ch [which] may probably drain the Coal at present they work they work very wett [wet]. In the Dolley pit ord'd [ordered] that a East Head's [headways] may be Set away out of the M.gate [mothergate] East'd [eastward] until it comes to the Old waiste [waste] and that bord be turn'd [turned] there and above Northw'd [northward] to work the Coals dry and that a Barrier of 20 yards be left next to the Bound'ry [boundary] to the Southward to prevent any Communication to be made between this Colliery and that Colliery adjoining to the Southward.

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61

Newcastle Saturday May 9th 1767

Making Sundry Acc'ts [accounts] in the Morning and attended at the Coffee House & Exchange.

West Aukland Monday May 11th 1767

The Engine pit is Sunk to the Coal and a Drift drove to the First Coal pit the water Was above the roof of the drift therefore I could not examine what Sort of Coal She is. I find the Coal pit is Sunk 16½ Fath's [fathoms] and now in a tolerable good work'g [working] Stone and if the Engine FeePs [?feeds?] the water hopes She will be down to the Coal in 5 weeks time. To make some Standage for the Engine water I have ord'd [ordered] a Dip drift may be drove to the Southward and take Level out of the Engine Sump and also to drive two water Level drifts East and west each 10 yards from the end of the s'd [said] Level and also to putt the Engine pit 3 feet ppend'r [perpendicular] below the thill [floor] of the main Coal Seam, agreed w'th [with] Ro: [Robert] Cargoe to putt down the Engine Sump 3 feet for £2-10 [two pounds, 10 shillings] also agreed w'th [with] Ra: [Ralph] Soulsby to drive the Drift to the dip and two Water Level Bords each 10 yd's [yards] and 3 yd's [yards] wide

for 5s pp yd [five shillings per yard], when the Sump is putt down must of necessity drive Levels to Lay the Coal dry at the s'd [said] Coal pit but will not be of any certainty until another Rise pit be Sunk to raise a quantity of Coals. I find Cargoe has been neglecting very much and Stopt [stopped] the Sinking of the Coal pit.

	Fa's. [fathoms]	Yd's [yards]	Feet	Ins. [inches]
The Engine pit in depth from the Surface to the Thill [floor] of the main Coal Seam	24		2	8
Bank Level or Asc't [ascent of Ground from the Engine to the Coal pit		1	1	0
Dip of Colliery from the Success [?] to the face of the Stone Drift			1	4
	25	0	0	8
Coal pit in diph [depth] to Do' [ditto] Seam	25	0	0	0
Engine pit under Level of first Coal pit				2

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62

Witton Castle May 11th 1767

The directions given to L Curry I find is not observ'd [observed] for is now drifting in the Little Coal towards the 26 Fathom boreholes in expectation of Meeting with some Upcast Dyke but how far to Drift in that Seam it is Uncertain it is very evident there is some Considerable Dyke in the way or else some irregular rise of Colliery the s'd [said] Drift is drove in the Little Coal and Stone now 52 yd's [yards] and it Costs at the rate of 8s pp [eight shillings per] Yard therefore if Mr Cuthbert's chooses to Continue this scheme he may. Mostly all the Coal is wrought to the NW tow'ds [towards] this downcast Dyke to the Wset and I ord'd [ordered] that the NE Coal may be wrought and a piece amd a piece to the SW and SE adjoining the Boundry [boundary] w'ch [which] will not be of Long duration. There is a Large Stock of Coals at the pit and Not much trade yet. I find that Curry has not begun with the Levels which Mr Brown ord'd [ordered].

Gateside Fell Tuesday May 12th 1767

Has begun to Lay the woodwork in the waggon way near the pothouse and is preparing room for the Staith, the Raising of the Key [quay] and repairing it is pretty well advanced forward and expects to have it completed in a Month's time, at the Colliery the Ann pit is Sunk now ab't [about] 28½ Fathoms and has not meet [met] with much water, the Engine pit is Sunk now 27½ Fathoms & Laid off by reason of ab't [about] 30 Horse Tubs of water pp [per] Hour. The Engine House advances but Slowley [slowly] forward on Account of the bad weather. The Regulating Beam and Cylander Beams are mostly completed, Door's and Door's Frames & etc.

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63

Measur'd [measured] the Mason work of a Smith's Shop

	£	[s]	[d]
--	---	-----	-----

Walling 195 Yards finding Stones Leading and workmanship at 11d pp yard	8	18	9
Two Chimneys and Harths at 7s/6d each		15	
Laying on 1396 pantyles at 15s pp Thous'd	1		11¼
Building an Office Chimney workmanship		3	9
Allowance for Gavels 24 yd's at 5d pp yard		10	
	11	8	5¼

Carpenter Work at D'o [ditto] Shop

	£	[s]	[d]
Roofing 9 Squares 32 Feet at 3d pp	1	7	11½
3 doors and Door frames at 2s/6d pp		7	6
Mak'g 4 windows and window Shutts @ 18d pp		6	
Two Office windows at 2s/6d pp		5	
Flooring & Joysting 52 yd's @ 5d pp	1	1	8
Raglings for Sealing {Sawing include'g} 3½ S'qs at 3d pp		10	6
For weather bording above doors and windows		2	
Making and fixing one Close Door		2	
Exa'd	4	2	7½

For Mason work pp Geo. Harrison

Cr.

(Viz.) Harrison finding Lime: wining Stones Lead'g & workmanship.

	£	[s]	[d]
Building a drift from the Cube 28 feet Long at 18d pp y'd		14	
To building a 5 Inch Arch s½ y'ds Long @ 5d pp		1	½
Building an offtake drift w'th 20 In: Arch 7½ y'ds Long at 6s/1d pp & walls 2½ feet thick	2	5	7½
Do [ditto] w'th a 10 In: Arch walls 2 feet thick 9 yd's at 2s/7½d pp	1	3	7½
Do [ditto] w'th a 5 In: Arch walls 2 feet thick 26 yd's at 2s/2½d pp	2	17	5
Walling a Jackhead Staple 9¼ y'ds @ 2s/6d pp	1	3	1½
Build a Cube finding Lime, Stones & Leading pp Barg'n	2	10	
Dr. [draft]	10	14	10
For 35 Fothers of Stones @ 6d pp		17	6
Exa'd	9	17	4

[NEIMME-East-10b-064]

Tanfield Moor edge May 13th 1767

The duke pit is working in the Brass Thill Seam and 14 Score pp [per] day w'th [with] a 20 peck corf, the Coals comes much rounder and better than they did since the last time I was at this Colliery and I gave Outerside p'ticular [particular] directions about them. Mr Brown has some thoughts of Laying off the Engine as She is of no service to Mr Ridley or Mr Silvertop and (Quere [query]) whether or

not the water wou'd [would] rise to Lay off the duke pit in the Brass Thill Seam during Mt Ridley' Lease of that Colliery, we find by Levelling that the Surface of the water (admitting the Engine to Stand) would be 7:0:0:10 Fa's:Yd's: feet:In [fathoms:yards:feet:inches] below the delivery at the Engine when at the Thill [floor] of the Brass Thill Seam.

Levelled from the duke pit	Fa's. [fathoms]	Yd's [yards]	Feet	Ins. [inches]
To the Venture pit and is ascent of Ground	1	0	0	6
From the Venture pit to the Engine pit				
1 st Sett Descent	11	0	0	0
2 To the Surface of the water in the pond Do'		1	0	6
3'dly [thirdly] To the Settle bords	3	0	2	2
	14	1	2	8
From the Settle Bords to the Engine deliv'y Depth	6			
	20	1	2	8
Ded't [deduct] Ascent from the duke pit to the venture pit as above	1			6
The Engine delivery Lower than the Settle Bords at duke pit	19	1	2	2
Duke pit in depth from the Settle Bords to the Thill [floor] of the Brass Thill Seam	27	0	0	0
Level as above	19	1	2	2
The Brass Thill Seam in the duke pit Shaft under level of the Engine Delivery	1	0	0	10

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Beamish May 13th 1767

I find the Mettle in the Cutts and Battery's [sic] advanced very fast. The Foundation for the Engine House is about Compleated [completed], mark'd [marked] in the place for the Engine pit to be Sunk 8 feet Diam'r [diameter]. Agreed w'th [with] Ra: [Ralph] Brown & p'ts [partners] to drive a Coal Drift in the Brass Thill Seam from the Old work'gs [workings] in the Grove near the Intend'd [intended] Engine one Hund'd [hundred] yd's [yards] for 18d pp yd [18 pence per yard] they to drive Cut and Clead her for the above price.

	Fa's. [fathoms]	Yd's [yards]	Feet	Ins. [inches]
Level'd [levelled from the Quarry pit to the Grove Mouth near the Engine House and finds it to be Descent of Ground	29	0	2	4

Washington Thursday May 14th 1767

The Engine pit is now Sunk 2:0:1 Fa's:Yd's:feet [fathoms:yards:feet] below the underside of the Low Bunton w'ch [which] makes her in all from the Settle Bords 54:1:2:6 Fa's:Yd's: feet:In [fathoms:yards:feet:inches]. She is now in a very good working Stone and very Little water below the s'd [said] Cystern ord'd [ordered] that more speed may be made w'th [with] the Ventilators and get

them fix'd [fixed], the Coal pit gets Slowley [slowly] forward for reason of Not Sinking with Lights and in a Hard Stone.

Fatfield Thursday May 14th 1767

Went with Mt Brown to the Staith's [sic] and finds all the pitts at work, the Blade pit wants about 10 feet to Sunk to the 5/4 Coal head and the Lane pit is now Sunk 2 Fathoms below the Five Quarter Coal Seam. The Upcast from the Engine Offtake is got within 27 yards of the Engine pit and now beginning in close Drift ord'd [ordered] that another upcast may be drove to take in the Bourn water. The Coals comes most Shamefully dirty to Bank

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And I ord'd [ordered] that Wilson may Sett [set] on hands to wall them better. The main Coal Drift wants now ab't [about] 60 yards to the Lane pit w'ch [which] will probably be up before the pit be sunk.

Rise moor May 15th 1767

In the Prosperous pit in the water Level Drift going tow'ds [towards] the Dogg pit is now 18 yards in Mr Brown ord'd [ordered]. Some time since a East Water Level may be drove Eastward ab't [about] 18 yd's [yards] and drove ab't [about] 18 yd's [yards] in a course to meet the Stone Drift and to Sink a Staple ag'st [against] the Stone Drift be advanc'd [advanced] that far, the present workings are NW but will not last Long at the present Rate of workings ord'd [ordered] that a Westward may be drove towards the workings of the Hill pit and Bore before the Drift. Agreed w'th [with] Amb'se [Ambrose] Anthey and part'rs [partners] to drive the Main Stone drift [] yards for [] s pp [per] yard [missing length and rate] they to Lay the Barroway and Slugde the s'd [said] Drift in Consideration of w'ch [which] I promi'd [promised] to pay them one pound one Shilling, there wants against Tuesday first 10 Keels [vessel used to carry coals from the staiths to the ships] of Coals to Load a ship for London Market. I ord'd [ordered] that the dry places be sett [set] on Double to work them as good as possible,

Measu'd [measured] a Turnop field near Chapple House farm's [farmed] by Mr Marshall

	A [acres]	R roods]	P [poles]
A part on the west side of the W.way	7	2	03
D'o [ditto] on the east side of d'o [ditto]	6	2	24
Total	14	0	27

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Newcastle Saturday May 16th 1767

Beamish Monday May 18th 1767

The Brass thill Drift going to Loose the Quarry pit in that Seam is now 11 yards in and hold [holed] into the face of a bord, the directions I gave them is not follow'd [followed], therefore I was of necessity to give then another point tow'ds [towards] the s'd [said] pit, ord'd [ordered] that a Staple may be Sunk near the bank side at a place where I mark'd [marked] out and a drift drove out of the

Old work'gs [workings] to hole into the s'd [said] Staple for a better Air Course for w'ch [which] I agreed to pay 12d pp yd [twelve pence per yard] has not begun the Engine pit nor yet is the foundation for the House compleated [completed], the Centure [centre] of the Engine pit is to be 12 feet from the Front of the House the Cutts and battery's [sic] advances pritty [pretty] well forward but no Directions is yet given about the Cond'd [considered] at Handonhowl.

Byker Tuesday May 19th 1767

View'd [viewed] this Colliery and considered the Boundries [boundaries] between Old Heaton, Byker and Walker and finds there is a Barrier of whole Coal of 60 yards on breadth Left next to Walker NW Boundry [boundary] in request of which Mr Ridley w'd [would] work it to the Endeavour pit in Walker estate providing Liberty could be granted of the Corporation of Newcastle, we are of Opinion if that s'd [said] Barrier was to be wrought it would not endanger the remaining part of Walker Colliery, we are inform'd [informed] and believes from many Curcumstane's [circumstances] point'd [pointed] out for us there is Dyke in Walker Estate Lead North & South called the Thistle pit Dyke w'ch [which] is a Downcast to the Eastward of ab't [about] 25 Fa's [fathoms] and we recommend that a

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Barrier of 30 yd's [yards] may be Left to the future on the rise side of the said Dyke but we are told that further to the Northward from the present Engine and Eastward from the Endeavour pit the s'd [said] Dyke is bor'd [bored] and in that part where it is bor'd [bored] we recommend that a Barrier of 20 yd's [yards] may be Left on the dip side of the s'd [said] Dyke when Walker Colliery working extends that far, it would certainly be wrong if the Corporation does not grant Liberty to Mr Ridley to work such Barrier for as Heaton is whole in the NE side whenever she happens to wrought will oblige the Lessees of that Colliery to leave a Barrier of equal Bulk against Walker if such Liberty be granted to work the s'd [said] Barrier, on the Contrary the Lessees of Heaton Colliery may work their Boundry [boundary] at pleasure.

Walker Wednesday May 20th 1767

The NE Dyke is now compleated [completed] in the West pit and I ord'd [ordered] the North Headways's {sic} to be drove with all Speed to get some places won out there which will Shorten the putting the Coals, is widening the South Head's [headways] from the West pit thro' [through] Double Dykes and intends to make a Barroway thro' [through] that Dyke to work a piece of Coal which Lies to the SE from the s'd [said] Dyke, the two West Drifts driving from the SE to the dip of the s'd [said] Waterlevel wants now ab't [about] 50 yards to be straight Headways Course from the west pit S Headways. There is two Shifts wrought at the Ann pit one Shift to the NW from the said pit at ab't [about] 400 yards distance upon a Mean and the other Shift is also drawn at the Ann pit and wrought to the Eastw'd [eastward] from the West pit and Considerably under Level of the Engine, but meeting with so many Dykes & troubles is oblig'd [obliged] to have two different Barroways which is attend'd [attended] with great expence [expense]. The Bush pit borhole [borehole] will scarce

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Vend the feeders of water which is a Great Stop to the Sinking, the Borhole [borehole] is now 12 Inches to the SE from the Center [centre] of the Shaft. I ord'd [ordered] Renwicks to get the waiste [waste] boxes putt in the west pit and the meetings made ready for Coal work.

Heworth May 21st 1767

At this Colliery wee [we] View'd [viewed] the workings in the Main Coal Seam first in the old Engine pit and find the present workings are to the NE and SE (viz) from the s'd [said] Shaft Eastbords Course 125 yards and South Headw'ys [headways] Course 30 yards to the end of the engine Levels which has won 100 yards in the breadth of Coal below the old Headw'ys [headways] drove North and South and 125 yards below all the Old workings. From the end of the s'd [said] Level there are 13 Bords to the Northward and the Headw'ys [headways] is in many troubles and bad Coals. Then from the End of the s'd [said] Level we find there is a South Headw'ys [headways] drove 96 yards (and a dam putt in that Headw'ys [headways] to prevent the Engine water for Drowning the Dip workings} then a East Bird is drove Venture of pumps 47 yards to the East a near the 10 Fathom Dyke then North Headw'ys [headways] Course 24 yards (to leave the s'd [said] Dyke) and East 49yd's [yards] further to the face to drive a wining [winning] Headw'ys [headways] from the face of this East'd [eastward] will win ab't [about] 100 yd's [yards] below the Level of the Engine. There are 9 bords on the South Side of the s'd [said] Old Engine pit w'ch [which] will cut of Shortly by the Old work'gs [workings] we find there are very Little regard kept to the Air course and the pillars are ab't [about] 40, 50 & 60 yards Long in several places and the Barroways are not kept in good order. There are ab't [about] 6 Acres of Coal on the NW from this pit and a Barroway made thro' [through] the thrust to the whole Coal I recommend that a North Headw'ys [headways] may be drove in that piece Coal until it gets the 25 Fathom

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Dyke and these places will be a reception for the workmen if any Accident Should Happen the Engine to drown the Eastway. The Second pit is Sunk to the Mettle Coal Seam and a Barroway cutt thro' [cut through] the 10 Fathom Dyke to the South w'ch [which] is 97 yards from the s'd [said] pit & got the Main Coal in the dip side of the s'd [said] Dyke, ord'd [ordered] that the Meetings for that Depth may be Made and the pit got to Cola work as soon as possible. I find there has been a great deal more Stone Drifting to Sett [set] over this dyke than need to have been if the Level from the Second pit in the Mettle Coal had been taken to the Main Coal Seam below the s'd [said] Fathom Dyke, finds the whole Expence [expense] of Drifting thro' [through] the s'd [said] Dyke to have cost ab't 100£ [about one hundred pounds] and Sinking the pit from the Main Coal Seam to the Mettle Coal Seam and putting in a Tub Dam to have Cost about 65£ -sixty-five pounds] exclusive of Banksmen and Horses to draw the Stones & etc.

Newton Moor Friday May 22nd 1767

Examin'd [examined] this Colliery first in the workings of the Apple pit w'ch [which] is ab't [about] [] Fathoms Deep to the Thill [floor] of the Main Coal Seam the workings are (first) to the west 6 bords and 19 bords to the Eastwards at 100 yd's [yards] North from the said Shaft w'ch [which] works very dry Coals but a bad Cover obliges the Lessees to leave a binding of Coal to Support the roof, at 80 yards North and 240 yd's [yards] East has met with a trouble w'ch [which] runs NE and SW w'ch [which] prevents their working any further that way. I find there is 120 yards of whole Coal Left between the Dip work'gs [workings] and the Engine waterlevel intend to be wrought to the plumbe

pit. Is working the Bent pit in the Main Coal Seam w'ch [which] is 52 Fa's [fathoms] 1½ yd [yards] deep. There is no Coals wr't [wrought] on the South side of the Shaft being so much entangled

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in troubles and bad Coal the present workings are to the NW at ab't [about] 200 yards from the Shaft and to the SE the greatest extreme South 100 yards and Easy 180 yd's [yards]. These places are very much in troubles and the Seam is often reduced 4 feet 4½ feet & 5 feet Thick and the Coals work very wett [wet]. The Choice pit is won by a East Headways Drift from the Bent pit and at 60 yd's [yards] South from the s'd [said] Choice pit has drove a Headw'ys [headways] Eastwards 140 yards which works very wett [wet] Coals and Much in troubles from those Circumstances the rise part of this Colliery will mostly be subject to troubles and work wett [wet] Coals

	Fat. [fathoms]
Quence pit is Sunk	46
Plumbe pit ditto	52

Gateside Fell Saturday May 23rd 1767

Sett [set] out a part of the waggon way near the Ann pit and gave And'w [Andrew] Foraster the Heights and depths of the Cutts. The Engine pit is Standing Yett [closed or idle] but I ord'd [ordered] that She may be Sett [set] to work again, there appears to be about 25 Horse Tubs of water pp [per] Hour, my Intention is to Sink below the feeders of water if can, & collect that water into a Cystern which the Top Sett [set] of pumps will Stand in. In the afternoon Sett [set] out for Nuthall near Nottingham.

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Nuthall Colliery may 25th 1767

Wee [we] have this day View'd [viewed] and Considered the State of this Colliery, wee [we] find from the Engine pit a water'l [waterlevel] Drift has been drove SEward [south-eastward] ab't [about] 230 yards and in that distance the said Drift has mett [met] with two Small faults (running NE and SW and near parallel to each other) that has been very troublesome and Expensive and at a Small Distance beyond these other Fault has been mett [met] with running NE and SW is an upcast to the NE of dip of Coll'y [colliery] about; The Waterlevel Drift has been Continued along the side of the Last Fault until it comes near the Harris's pit & then turned up to the said pit and is Continued no further. We don't think it advisable that it should be Continued ant further (at least for some time) as wee [we] understand there is a Great Fault wins a Little to the SE from the said Harris's pit SWard [south-westward] and very near the Burdett pit and is a riser to the SE at that pit about 6 yards to the SE and increases to the Eastward, that her height at the East pit is uncertain but appears to be more and more that way, and if a Stone Drift had been drove to the NE from the place where the Fault running from the dip was Got it would have answered no good purpose but would run against the Great SW and NE Fault and perhaps w'd [would] not draw Coal to defray the Expence [expense] of driving it. The Fire in these workings wee [we] are told and has reason to believe that the waterlevel Drift 'twixt [between] the Engine and East pit is very much fallen, wee [we] recommend that, that Drift may be Cleaned out and made secure as to admit of a Air Course to the said pit to

serve the purpose both of working Coals and drifting, also it will be necessary to make a better Air Course 'twixt [between] the first pit and Burdett pit either by the immediate way 'twixt [between] these pits or any other way More Convenient, wee[we] also find a waterlevel

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has been drove from the Engine N'ward [northward] ab't [about] 240 yards & a pit now Sink'g [sinking] near the face of it, and is already Sunk ab't [about] 60 yards w'ch [which] drift and pit wee [we] think properly design'd [designed], wee [we] find the SW part of the first pit and the NW part of the Burdett pit are mostly wrought and also a part of the NE Coal from th es'd [said] Burdett pit and se Coal from the first pit is already wrought, wee [we] are told that near the two Small Faults the gobbens [waste] or Rubbish to the SE from the first pit is on Fire and tho' [though] it may not much endanger the other parts of the Colliery as to real Loss, yet the Smoak [smoke] and Styth [afterdamp or chokedamp] that it produces is very suffocating and renders the workings difficult. Therefore wee [we] recommend that a Headw's [headways] above the Fault in Burd't [Burdett] Pit be drove w'th [with] all speed Eastward and also that the said Fault be sett [set] up in the Harris's pit and Bordways Drift be drove to the Southward until it meet the Headw's [headways] coming from s'd [said] Burdett pit and when those two workings meets a Compleat [complete] Air Course will be obtain'd [obtained] and the Coal above the Fault on both those pits (w'ch [which] is very Considerable) will also be got and in that time the water may be allow'd [allowed] to rise in the Engine pit and Burdett pit work'gs [workings] so high as to drown out the Fire in these workings at all times it will be proper to take care and secure the Air courses and water courses as well as the Shafts for the safety of both the Colliery and people concern'd [concerned] & working it. Depend thereon it will be right at all times (when it can be done) to have an additional pit ready with proper Headings to work an Additional Quantity or to be prepar'd [prepared] against an Accident. The Annex'd [annexed] Plan will better show the workings Faults & etc. in this Colliery

The Seam of coal beginning at the Thill [floor]	Inches	Feet	Inches
Coal hard	34		
Rifter or Scud [inferior coal]	14		
Top Soft	14		
[subtotal]		5	2
For the roof			
Dunn's Stone	5		
Soft Coal	17		
Dunn's Stone	4		
Soft Coal	14		
[subtotal]		3	4
[total]		8	6

[NEIMME-East-10b-074]

Nutthall Colliery

	s [shillings]	d [pence]
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The Coals are Sold by the Ton Accounting 20 Cwt. [hundredweight] to a Ton at Cynder Hill pp [per] Ton	6	8
Costs		
Hewing holeing Hammermen Loaders men to remove the Gibins & etc. Bratticing the Small coals two Lads to drive each Horse, a Botker man, a Striker tow men to Stick and Load the waggons two Gin drivers finding Candles & etc. pp Ton	2	0
Leading to Cynder Hills at 3 Tons pp waggon and 9 Gates pp day costs ab't pp Ton	2	0

Beamish Thursday May 28th 1767

Went w'th [with] Mr Brown from Newcastle and call'd [called] at Ouston to See the Regulating Beam intend'd [intended] for Beamish So: {South} Moor Colliery. Then went to Handon Howl and finds that Battery advances pretty well forw'd [forward] gave the necessary directions there about the Mettle work and also resol'v'd [resolved] to make a Circular Cond'd went to the Ciolliery and finds Adamson has begun to Sink the Engine pit ord'd [ordered] that She may ne Sunk 10 feet Diam'r [diameter] to the Stone Head and then to be wall'd [walled] w'th [with] Stone. I find the Brass Thill Drift going to the Quarry pit w'ch [which] is going pretty straight, mark'd [marked] out the Engine house for the Mason work and ord'd [ordered] that it may begin as soon as possible etc. etc.

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Friday May 29th 1767

Making a Plan of Nuthall Colliery

Saturday May 30th 1767

At Newcastle

Tanfield Moor June 1st 1767

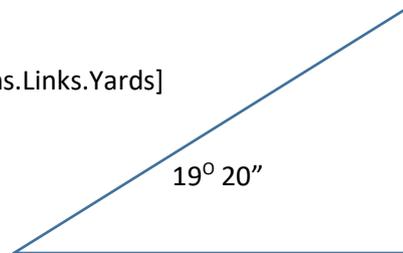
I examin'd [examined] the workings] in this Colliery in the Brook pit and finds them at present to the SW and very irregular, some of the Bords are drove 40, 50 & 60 Yards to the holing and the walls from 10 yards to 2 yards thick, the SW side of this Shaft the Coal works wett [wet] therefore it must be wrought at present. The Flatt pit is working to the NE and SE at about 100 yards distance from the Shaft, there is very Little regard paid to working the Coals for the Hirvings [holing or wedge-shaped excavation made at the bottom of the coal by the hewer] are made 3 feet and 3 feet 3 In [inches] in height w'ch [which] makes more Small Coals than ought to do and the workmen cast's their Coals for four or five Day's work w'ch [which] makes them very foul and dirty whey they come to be fill'd [filled] out. I have often discharg'd [discharged] them but not yet observ'd [observed] The West'ds [westwards] in this pit is dyk'd [dyked] on both North and South sides I recommend that Dyke may be try'd [tried] on the West side.

From the Cape pit Shaft Into the new Dayhole

[Seam]	[° [degrees]]	Ch Lin [Chains.Links]
1 st	N68½E	0.21
2	S76½E	1.59
3	S87E	1.35

4	N79E	1.58 and 13 yards more to the wall from the Brook pit
5	N12½W	2.45 to the dayhole mouth
Course up the Dayhole is		
	N70½E	2.51

2.51.55 ¼ Ch Lin yds [Chains.Links.Yards]



Rise of Dayhole

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	Fa's. [fathoms]	Yd's [yards]	Feet	Ins. [inches]
Depth of the Cape pit	3	5	0	10
Dip of Colliery from the Cape pit to the dayhole mouth underground	2			5
	37	0	1	5
Bank Level or Descent of Ground from the Cape pit to the beginning of the dayhole	19	0	1	6
The Dayhole drove from Cliugh Deen 22 yards 11 yards in 3 dip	3	1	1	0
Do. [ditto] drove undergr'd [underground] 55¼ yd's and rises	9	0	0	3
	31	1	2	9
The Dayhole has ab't [about] [] yards to drive and wants to rise	5	0	1	8

Agreed w'th [with] Thos. Salton & part's [partners] to drive a SW Drift from the East pit 100 yards at 1s 10d pp [one shilling 10 pence per] yards & to make a Deal ritt [channel or cutting from planks].

Walker Tuesday Jube 2nd 1767

The workings in the Ann pit to the NW is now ab't [about] 500 yards from the Shaft and pretty clear of troubles has got 20 bords on a from Northw'd [northward] from the M.gate [mothergate] which Reduces the Trapers [trappers - ventilation door operators] and Barroway Lights. This pit works Double Shift and 35 Score, the other Shift is wrought in the West pit Eastward workings. The North Headways between the 16 feet Dip Dyke to the Northw'd [northward] & the NE waterlevel is now 20 yards over the said Dyke and the Coal Looks very well, she will go ab't [about] 75 yards further to the water level Drift, ord'd [ordered] that She may be push'd [pushed] w'th [with] all Speed and the Bords turn'd [turned] off both East and West the East work'gs [workings] are much in troubles and very expensive putting the Coals, as soon as Getts [get] place won out below the 16 feet Dyke will Lay off the East way and Drown these workings. I agreed w'th [with] Chas. Bainbridge & part's [partners] to sett [set] over Double Dykes South from the West pit for

[NEIMME-East-10b-077]

7s pp [seven shillings per] yard and Cutt [cut] a Barroway. The Bush pit Borhole [borehole] is stop't [stoppes] & I oed'd [ordered] Renwick to putt [put] the Rodds [guide rod] in, to try to Loose her until further Considerations about her. There is nothing more done at the west pit the Engines can scarce manage the water for Neglect in the Night time.

Plessey Wednesday June 3rd 1767

Met Mr Brown at this Colliery and consid'd [considered] ab't [about] Wining [winning] the Main Coal Seam in Hartford Estate we find by Levelling the 20th of Feb'ry [February] Last there is Level from a Certain point ot place in the Bourn (westward from Hartford Bridge) to the end of the present Drift so high as to turn a feet of 18 Feet Diam'r [diameter] to be fix't [fixed] near the said Drift mouth and apply the water to the Bourn to turn it and not to fix a wheel in Hartford Staple (as ment'd [mentioned] in my Last) The Old Colliery water may be Apply'd [applied] to the s'd [said] wheel w'ch [which] will always keep open the rase in Frosts and consequently be an additionally Quantity the whole cost exclusive of Sinking the Engine pit may probably cost £400. The rose pit is Sunk to the Low seam and not got to Coal work the Gin intended to be sett [set] on her is now on the Steady pit, recommends to work it off before the Gin be shifted, is now Sinking the Spring pit in the Low Seam & the South pit in the Main Coal Seam apart in the pillars and is Bounding out a piece of whole Coal to the Westward from the said South pit.

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Heworth Thursday June 4th 1767

Has sett [set] away a winning Headw's [headways] South in the dip side of the 10 Fathom Dyke in the second pit & going to win out place there. The new Gin inted'd [intended] for that pit advances very slowley [slowly] forw'd [forward] and has made the rim w'th [with] Jump Joynts w'ch [which] should be half Lap'd [lapped]. The old Engine pit is working 18 Score pp [per] day w'th [with] a 20 peck Corf.

Washington June 4th 1767

The Engine pit is now advancing pretty well forward and is now Sunk

	Fa's. [fathoms]	Yd's [yards]	Feet	Ins. [inches]
To the delivery	6	0	0	0
To the first Cystem	32		2	0
To the low Cystem	52	1	1	6
To the Bottom more	6	1	1	0
The Coal pit is now Sunk	44	1	1	8

I try'd [tried] the Centre in both these pitts [pits]. The Engine pit is very well in centre, and the Coal pit wants to be shear'd [sheared] down ab't [about] 7 feet height in one Quarter and 3 Inches. The Ventilators are not ready has not done one of the Cylenders [cylinders], but is not well hoop'd [hooped]. I ord'd [ordered] that the Hopps may be taken off and putt [put] better on.

Fatfield June 4th 1767

Taken a Survey of the Staiths for Mr Hartley.

Beamish Friday June 5th 1767

The foundation for the House is now Laid and the fire place Begun. Mr Brown gave the necessary directions to Lish how to proceed w'th [with] the building, went to the Brass thill Drift going to the Quarry pit which is very straight, ord'd [ordered] that a wall may be hol'd [holed] for the convenience of Stowage for the Coals.

[NEIMME-East-10b-079]

Fatfield same day

The cond's [conditions] made in the Blake pit Battery & near the pit is about 6 yards over Long. Mr Brown ord'd [ordered] that no money may be paid for it. The Blake pit is Sunk to the Five Quar'r [quarter] Coal seam and is now boring a Slope hole and casting a Ring sett [set] out the Branches and also the Branches to the Line pit, the Lane pit wants ab't [about] 15 feet to Sink to the top of the Main Coal Seam and the Drift wants now ab't [about] 20 yards to the said pit, is now working the Garden pit and Chance pit in the Main Coal Seam and the Rush & plain pit in the Five Quar'r [quarter] Coal. The Offtake Drift wants ab't [about] to Completed [complete] to the Engine pit but I find the Stone will not Stand without Timber o walling it.

Saturday June 6th 1767 went to Walker w'th [with] Mr Brown and finds the Regulating Beam for the East Engine pit is not yet finished, is Sinking the Charlotte pit and the Bush pit is Idle on Account of the hole not vend'g [vending] the water. Mr Brown ord'd [ordered] that Rawling may make a try to get the Boxes out in that part where Broke.

Tinmouth Moor June 8th 1767

The Stone Drift going to the westward to the Intend'd [intended] Slide pit wants now 7 yards and in a very hard Stone. The East Headways from the Grace pit is hold [holed] into the Humbles Slide pit and has now Lett [let] off that waiste [waste] and the Downcast Dyke to the Northw'd [northward] is 57 yards from the Humbles Old Coal pit. The North Drift from the grace pit is 14 yards in and in a Downcast trouble therefore it is much to be feared it will continue so to the Main Drift. The Fanney pit is now Idle today. Easter pit is work'g [working] 10 XX [Score] & the Dolley pit 10 XX [Score] [?.15?]

[NEIMME-East-10b-080]

	Fa's. [fathoms]	Yd's [yards]	Feet	Ins. [inches]
The Engine pit in Leve of the Slide pit Stone Drift in depth	27	0	0	0
Ascent of Ground from Do. [ditto] to the Hannak pit	1	0	0	2
	28	0	0	2
Hannak pit now Sunk and bor'd [bored]	25	1	0	0

The Good int't [intent] pit near Chirton is working 8 XX [score] pp [per] day w'th [with] a 16 peck Corf. I find the Coal now working at this pit is 70 yards nearer the Luckey pit, therefore I recommend that the Luckey pit may be got ready for Coal work and to lay off the Good int't [intent] ord'd [ordered] that 16 XX [score] pp [per] day may be wrought until further directions.

Shildon Tuesday June 9th 1767

The Engine is now Sunk to the Coal and 21 Fa's [fathoms] 1½ yd [yards] deep and the seam is 19 Inches thick Clean Coal, ord'd [ordered] that a Drift may be drove to the first Coal pit as soon as possible. The Engine manages the water very well. The Sinkers have neglected very much for I find that the pit has only been kept going in the Night, and that the Coal pit may be secured at the Little seam w'th [with] all Convenient speed.

	Fa's. [fathoms]	Yd's [yards]	Feet	Ins. [inches]
To the delivery	6	1	0	0
From the delivery to the Little seam	9	1	1	0
From the Little seam to the thill [floor] of the Low Seam	5	1	0	5
Total	21	1	1	5

Went to Hedley Fell and met t [met] Mr Brown to Consider about the division of the Coll'y [colliery] in Hedley Fell Town Fields.

[NEIMME-East-10b-081]

Birtley Wednesday June 10th 1767

In the Friendship pit in the Dip side of the Main Drift she is Sunk 7 Fathoms below the Main Coal seam and we find by tryall [trial/trying] she bread [breeds] about 60 Gallons of water in 1 Hour 20 Mins wee [we] View'd [viewed] the workings in the Dayhole pit and Broom pitt in the Hutton seam and p'ticularly [particularly] in the Broom pit workings, where the dead water has been and wee [we] find to the NE from the Broom pit Shaft and apparently to us, there is fall since the water was last drawn down 12 yards Long and 20 In [inches] thick, and in workings to the west from the Goodspeed pit a new Fall 60 yards Long and 14 Inches thick in a Headways, wee [we] are told that on the 26th of Jan'ry [January] the Lessees started to draw the waiste [waste] water in the Goodspeed pit and the water has fallen since that time [.] 160 yards of the South Headways taile water and is now within 8 yards of the Broom pit Shaft and wee [we] measured the Surface of the water to be 3 Feet 5 In [inches] under the roof of the said Seam of Coal at the said Broom pit Shaft & on the 26th of Jan'ry [January] last the water was f Fa's [fathoms] 1 yd [yard] up the Broom pit Shaft and 6 Fathoms up the Goodspeed.

	Fa's. [fathoms]	Yd's [yards]	Feet	Ins. [inches]
Friendship pit is depth to the 5/4 Coal	23	0	0	0
Do. [ditto] from the Main coal Seam	11	0	2	
Sunk 7 Fathoms further	34		2	
Fortune pit in depth to the Surface of the Dead water	36	1		

Bank Level or desc't [descent] of Ground from the Fortune pit to Rickleton Engine pit				1
Carried Forw'd	36	0	2	11

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	Fa's. [fathoms]	Yd's [yards]	Feet	Ins. [inches]
Brought over	36	0	2	11
Rickleton Engine pit in depth to the Surface of the dead water	40			9
Difference w'ch must be occasioned by some stoppage in Rickleton waiste	3	1	0	10
Depth of the goodspeed pit to the thill [floor] of the Hutton seam	60	0	0	0
Do. [ditto] Dayhole pit to Do. [ditto] Hutton seam	52			
View pit Do. [ditto]	65			
Brown Do. [ditto]	58	1		
Rickleton engine pit to main coal seam	51	1		
Fortune pit to Do. [ditto] seam	42			

NB – The View pit Dyke runs east & west is known to be 5 Feet upcast to the Northward at the view pit & we saw the s'd [said] Dyke ab't [about 20 Yards southw'd [southward] from the dayhole pit w'ch [which] is an upcast to the Northw'd [northward] of 3 Yards and the said Dyke runs quite out near the Town of Birtley. The Prosperous pit Dyke runs NE and SW is an upcast to the Westward at the Prosperous pit ab't [about 5 Yards. The Main Dyke runs near E & W and is a downcast to the South through [trough] sett [set] in the Fortune pit 28 Fa's [fathoms 1 yd [yard].

Beamish Thursday June 11th 1767

The Engine House is advancing pretty well forw'd [forward] and the Engine pit is Sunk 5 fathoms. Soward has begun the Boiler. The Carpenter work is great forwardness. The Brass thill Drift going to the Quarry wants Air l ord'd [ordered] Morallee to gett [get] a Tunnel sett [set] on the Staple near the Cond'd [considered] mouth and hang a Lamp for a Better Communication.

[NEIMME-East-10b-083]

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Fatfield Friday June 12th 1767

Went to the Staiths and examin'd [examined] the Bills as usual, is advancing pretty w'th [with] the Level'g [levelling] the Waggon way to the Blake pit. The Garden pit shaft is very much fail'd [failed] in the Timber work w'ch [which] must be mended as soon as possible. The Jackhead Bunton [beam] is laid for the Jackhead pumps to stand in.

Newcastle Saturday June 13th 1767

Throckley Monday June 15th 1767

Begun to Survey Throckley Estate and got the Inclosed [enclosed] grounds Survey'd [surveyed] on the North side of the Turnpike road.

Gateside Fell Tuesday June 16th 1767

At the Colliery has made a Tyral [try] to Sink the Engine pit bit is Laid off wth [with] about 40 Horse Tub's of water pp [per] hour, gave the necessary directions ab^t [about] the Engine House, to make the Underside of the Cylend'r [cylinder] Beam 6 Feet 8 In [inches] from the Cylender floor and the Cylender Beam holes 3 Feet 8 In [inches] width. As the Engine pit is now stop't [stopped] wth [with] the additional Quantity of water I marked out another Coal pit to be Sunk about 250 yards East from the Ann pit in View of getting her Sunk to the 5 & 6 Quart'r [quarter] Coal against the Engine pit be down to the Main Coal Seam to Moderate the Leading of the

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Coals.

	Fa's. [fathoms]	Yd's [yards]	Feet	Ins. [inches]
The Borhole [borehole] pit near the Society house in depth to the thill [floor] of the Yard Coal seam	37	1	0	0
Level'd from the Ann pit to the s'd Borhole and is Ascent of Ground	14	0	0	4
Ann pit in depth to the Yard Coal seam	25	1		
	39	1	0	4
Rise of Colliery from the Ann pit to the s'd Borhole in the Yard Coal seam	2			4

Walker June 17th 1767

The State of this Colliery is much the same as Mentioned in my last & no alterations made wth [with] the Method of working. I have long propos'd [proposed] of getting the West pit to Coal work but still is no likelihood. I measur'd [measured] the Bywork [any kind of miners' work other than actual coal getting and transport] as usual I agreed with Cha; [Charles] Bainbridge to pull down some in the Ann pit M:gate [mothergate] Westw'd [westward] to raise the Barroway for £2 12s 6d [two pounds, twelve shillings and sixpence]. I ord'd [ordered] that the Engines may be putt [put] into good order before the West pit South Headways be hold [holed] and that the New Beam may be putt [put] into the SE Engine pit to prevent the Water from drowning the dip workings. The Sink'g [sinking] in the Bush pit is stop't [stopped] & the Charlotte pit getts [gets] very well forward.

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Throckley Thursday June 18th 1767

Surveying this Estate in View of making a plan of the Colliery.

Tinmouth Moor Friday June 19th 1767

Went w'th [with] Mr Brown to this Colliery and finds the Stone Drift going to the Slide pit wants now to drove ab't [about] 4 yards and is in a very Strong working Stone, the M:gate [mothergate] Westw'd [westward] from the Grace pit still continues in bad Coal, ord'd [ordered] that the M:gate [mothergate] Eastw'd [eastward] in the grace pit may be drove until it comes to the Fanney pit Headways and the Fanney pit Headways be continued to win out places there w'ch [which] will certainly work dry Coals, is Boring a hole to try the Main Dyke a downcast to the Northward is now bor'd [bored] ab't [about] 9 feet and has not gott [got] the Tops of the Coal [the uppermost division of a thick seam].

Saturday June 20th 1767 at Newcastle.

Throckley Monday June 22nd 1767

Surveying the Estate in the Haughs.

Gateside Fell Tuesday June 23rd 1767

Setting out a part of the Waggonway near Ship Coal Lane. The Engine House advances pretty well forward, marked out some Cond'ts [conduits] to be made Near the Ann pit and one Near a red house on the side of the Fell, at the Staith measur'd [measured] the Mason work at the Key [quay].

(viz.)

Turn Over

[NEIMME-East-10b-086]

W. Jona: [Jonathan] Ormston & Co:

To Nich's [Nicholas] Chancer Dr. [draft]

For mason work at the pothouse Staith Key [quay]

	£	[s]	[d]
To 106½ yards @ 3s pp workmanship	15	19	6
To raising the 101¾ yards @ 2s 3d pp	11	9	6
To Building a Breast wall 57½ y'ds Long @ 2s 6d pp	7	3	9
	34	12	9

Tanfield Moor edge Wednesday June 24th

The Dyke pit is working in the brass thill Seam & 14 Score pp [per] day, the East'ds [eastwards] now dips very sore w'ch [which] makes me think they are near the Main Dyke, the Hirving] Coals [coal from an excavation made at the bottom of the coal by the hewer] are not taken so much care on is Ought for upon An Average there will not be above 1½ Corves cast in the Score and the Workmen are paid for Cast'g [casting] 3 Corves in the Score w'ch [which] makes the Coals come very small to bank and very bad Wailers [boys employed in the wagons or at the pit head to pick out any stone or pyrites that had passed through the screens] are there to clean them.

Fatfield Thursday June 25th 1767

Went w'th [with] Mr Brown to this Colliery & finds the Blake pit is Sunk to the Five Quart'r [quarter] Coal and is 44½ Fathoms deep, is now Boring a Slope hole from the Lowring to take the water in the back side of the Shaft, and also Sludging out the Levels tow'ds [towards] the Rush pit. There is

nothing more done at the Garden pit Shaft ord'd [ordered] that the waggon way may be got forward w'th [with] all speed to the B;ake and the new Gin sett [set] on her [.] sett [Set] out a New pit called the Theorld pit and is ab't [about] 400 yards West Bordw's [bordways] Course from the Blake pit, agreed w'th [with] Rich'd [Richard] Brown to Sink her from the Surface to the Stone head for 25s pp Fathom [twenty-five shillings per fathom] and from the Stone head to the 5/4 Coal S'm [seam] for 48s pp Fathom [twenty-five shillings per fathom]. Brown to make proper meetings and a bottom ring and Sink w'th [with] 6 Men until there be four man

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Tubs of water pp [per] hour, the same to be 8½ feet Diam'r [diameter] to the Stone head and 6½ feet Diam'r [diameter] within all Timber from the Stone head to the thill [floor] of the Five Quart'r [quarter] Coal Seam & if it is required to sink her with Twelve Men, Brown to be paid 12 [shillings] pp [per] Fathom over and above from the time he begins w'th [with] 12 Men, to bore the said pit at 3s 6d [three shillings and six pence] pp [per] Fathom & to increase 3s 6d [three shillings and six pence] pp [per] Fathom after the first 10 Fathoms and 3s 6d [three shillings and six pence] pp [per] Fathom increase for every 5 Fathoms afterwards. Brown to pay for Sharping [fine grained sandstone], candles etc.

Fatfield Friday June 26th 1767

The pay day examin'd [examined] the Bills find a great may extravagant charges p'ticularly [particularly] in the Smith Bills and Labouring. I find there is 7-2-8 £-s-d [seven pounds, two shillings and eight pence] charg'd [charged] for Labouring day for cutting out the Blake pit Branches and only 35 roods w'ch [which] is commonly done at 16d [sixteen pence] pp [per] rood. In the Bush pit workings and in Fatfield Estate there is holing some Walls and turning of Bords without any direction from Mr Brown and these Coals mix't [mixed] w'th [with] the Coal draw [drawn] at same pit and wrought out of Harraton outside Estate.

Saturday June 27th 1767 at Sunderland exam'g [examining] Mr Morrison's Acco'ts [accounts] of the Cash and finds several Fitters [coal brokers] are Dr. [?drawn or drafted?] to Sir Ra: [Ralph] near to £2000 Total and to this time is near 10,000 Chald'n [chaldrons] & there rest'g [resting] on Bank ab't [about] 5,000 Chald'n [chaldrons].

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Walker Monday June 29th 1767

Went with Thos [Thomas] Gibson & Lin'd [lined] all the Working in the Ann & West pitts in order to Lay upon the Colliery plan.

Walker Tuesday June 30th 1767

Went w'th [with] Mr Brown to this Colliery and Consider'd [considered] ab't [about] the future proceeding in this Colliery First that the Bush pit may be bor'd [bored] again a'th [with] all convenient Speed; the Charlotte pit to continue Sinking; the NE water Level back to Drift to be widen'd [widened] from the Trap Door in the Ann pit M:gate [mothergate] East'd [eastward] to the Charlotte pit Shaft and two Drifts to be drove N ab't 30 W to the Bill pit Dyke and first to be drove in the Levels until they be ab't [about] 9 feet deep and then in Stone Drift to the s'd [said] Dyke and as

soon as gets the Coal in the dip side of the s'd [said] Drift then to forw'd [forward] a Drift to the bush pit and a Water level Drift into the Colliery to the NEward [north-eastward], all this may probably be done against the Bush pit be Sunk to the Level of the intend'd [intended] drift in the dip side of the s'd [said] Dyke, the s'd [said] Dyke is supposed to be a downcast of ab't [about] 5 Fathoms to the Northward but Never try'd [tried] only by Boring the Bill pit. The West pit is now ready for Coal work, in the Shaft wants some cleading, deals [planks] putt on in the foreside of the pumps.

Walker Wednesday July 1st 1767

Measur'd [measured] the Drifts etc. as usual and gave the Necessary directions ab't [about] the widening the water level etc. for the Wining [winning] of the Bush pit.

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Gateside Fell Thursday July 2nd 1767

At the Staith the ongate Is nearly finish'd [finished] and eight pair of Gears sett [set] up in the Staith sett [set] out the Back wall of the Staith; at the Colliery the Engine house advances very Slowly forward, gave the Necessary Directions about the Materials wanted there.

Friday July 3rd 1767 at Newcastle making a plan of Tanfield Leigh Freehold Estate for Mr Brown.

Saturday at Newcastle

Gateside Fell Monday July 6th 1767

At the Staith measured a rubbish hill and agreed w'th [with] Thos [Thomas] Harrison to remove it which contains 50 yards @ 3½d [threepence-ha'penny] pp [per] yard [totalling] £7.6.1½ [seven pounds, six shillings and three ha'pence].

Agreed w'th [with] Geo: [George] Harrison to build a Cond't [conduit] near the red house at Halls Field and arch the same w'th [with] Brick & half to be 30 Inch walls 30 Inch in height find time for the Arch & the top course of Stones, the Owners to pay 4s 6d [four shillings and six pence] pp [per] yd [yard] for every yard in length and 4d [four pence] pp [per] Further for what Stones are wanted, also agreed to build a Wall near the s'd [said] Cond't [conduit] to be 3 feet thick at bottom and two at top, to find Stones, Leading & workmanship for 1s 6d [one shilling and sixpence] pp [per] yard more for what Lime is us'd [used].

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Plessey Tuesday July 7th 1767

Is now working the Spring pit in the Low Seam to the NW at ab't [about] 300 yards from the Shaft and 18 Score pp [per] day, she is out of Renk [the degree of coalification or maturity of the coal upon which a standard price was paid] w'ch [which] must cost Mr Ridley and additional Tentail rent. The South pit is working in the Main Seam and 20 XX [score] pp [per] day in a peace [piece] of whole Coal next to the old Drown'd [drowned] waiste [waste] to the West w'ch [which] is now bounding out by drifts & Boring and a partition in the pillars of the seam by Jenking [driving a roadway through a pillar to split it into two smaller pillars] some and others by taking a Jud'd [working a pillar by undercutting] of one yard of each wall. This Colliery is won by a Drift from the River in the Hartford

Estate & drove in Stone to the first Staple w'ch [which] Staple is Sunk ab't [about] 8 Fathoms below the Levels of the s'd [said] bourn & got the 5 Quat'r [quarter] Coal Seam. The Drifted in the s'd [said] Seam Westward to the Engine pit & in the Mean time kept the water until the Rise of Colliery come to be Equal w'th [with] the top of the s'd [said] Staple, then in Order to win the low Seam & Main Coal Seam Erected a Fire Engine for that purpose. By the present wining [winning] and in Plessey Estate there is mostly all the Main Coal wrought and a s Mr Ridley has purchased Hartford Colliery must very soon be consid'd [considered] the Wining [winning] the Main Coal Seam there either by a Fire Engine or some other Machinery.

Newcastle Wednesday July 8th 1767

Laying down sev'l [several] Lineings [linings] of Tanfield Moor & Copying Tanfield Moor Bills.

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Tanfield Moor Thursday July 9th 1767

The Day hole is advancing pretty well forward and is now fix'd [fixed] of Setting over the main Dyke to win the Hard Coal Seam in the dip side of her I agreed w'th [with] Thos [Thomas] Sealton & part'rs [partners] to drive Levels in her until they be 6 feet Deep for 5s [five shillings] pp [per] yard, the Hobsons pit still remains in the same State as ever until the Gin be set on her to draw the water, the workings are still carried on in the same form as Mentioned in my Last & the workings will scarce keep the Waggons going.

Tanfield Moor edge July 9th 1767

Is now working the Dyke pit in the Brass Thill seam & 14 XX [score] pp [per] day there are no Coals on bank at this pit the Waggons cannon [cannot] be Costantly [constantly] Supply'd [supplied]. Mr Newton has ord'd [ordered] some men away to Tanfield Town head Colliery and Bedlington, these men that are bound to Tanfield Moor edge. The Eastw'ds [eastwards] dips very sore w'ch [which] makes me believe the Dyke is not far off.

Fatfield Friday July 9th 1767

The Lane pi is now Sunk to the Main Coal Seam and the Dyke hol'd [holed], the Coals look very bad & in a trouble ord'd [ordered] that the Air may be alter'd [altered] and the lane pit and Chance pit may Communicate together and the pres't [present] Engine pit & Goodspeed & the Garden pit to be downcast to the Five Qua'r [quarter] Coal Seam when that is done may w'th [with] safety push the water Level drift tow'ds [towards] Harraton outside Coll'y [colliery] but in the Mean time to drive the s'd [said] Drift & Lead the Coals to the Chance pit the Garden pit shaft is very much fail'd [failed] in the Clay work. I find the Jackhead Bunton is Laid for the Cystern to Stand on, examin'd [examined] the Bills as susal.

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Byker Saturday July 11th 1767

Went down the Success pit and finds the West Drift from the new pit Borhole [borehole] is now 38 yards in and got an upcast above seam heigh [height] ord'd [ordered] that it may be try'd [tried] to get over her. In the Engine Sump and Levels has now got to the bottom and got out two pumps w'ch

[which] Laid for the Water course, this Colliery of St Anthony's seems to be a very troublesome one, is now widening the Borhole [borehole] in the new pit to putt [put] in a Box for a runing [running] place.

Tanfield Moor Monday July 13th 1767

Begun to make a Survey of the Moor & Colliery

Tuesday July 14th 1767 at Tanfield Moor at Do [ditto] Surveying.

Agreed wth [with] Wm [William] Seymour & part'rs [partners] to drive a part of the New day hole at Tanfield Moor from the end of Do [ditto] in Cleughdeen until the same meet the s^d [said] Dayhole Drift to be of the same dimentions [dimensions] as form'y [formerly] for 40s [forty shillings] pp [per] yard to continue the same until there be 10 Man Tubs of Water pp [per] hour, the s^d Seymour to find Cand's [candles] Gunpowder hand all the Air Boxes draw the dead water.

Washington Wednesday July 15th 1767

The Ventulators [ventilators] are now finish'd [finished] for the Conveying of Air into the engine pit but finds the Flaps or doors in the Cylanders are not putt right on therefore it does very little service. Mr Brown ord'd [ordered] them to be Alter'd [altered] wth [with] all speed and to get to Sink again.

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Heworth Wednesday July 15th 1767

The Second pit is now got to Coal work in the dip side of the 10 fathom dyke ord'd [ordered] that the South Headw's [headways] in her may be sett [set] forw'd [forward] wth [with] all speed and the East Dyke be open'd [opened] to the waterlevel & waterlevel Drift be drove Sothw'd [southward]. In the Old Engine pit is work'g [working] to the dip of the Engine & at a very great expence [expense], the piece of Coal w^{ch} [which] Lies to the NW. The Barroway is not made ready in it neither is a Headways drove for places.

Fatfield Wednesday July 15th 1767

The directions Mr brown gave I find is not executed; the Waterlevel Drift intend'd [intended] to win Harraton outside Coll'ry [colliery] is not yet begun since the Lane pit got down ord'd [ordered] that the waggon way may be finished with all speed to the Blake pit and that pit sett [set] to Coal work. The Theorid pit is now Sunk ab't [about] 5 Fathoms, gave Wilson p'ticular [particular] directions to get [get] the Main Coal waterlevel Drift sett [set] on, the Blake pit to be got to Coal work, and to Lay in the Plain and also the Rush pitts.

Thursday & Friday July 16th & 17th 1767 at Newcastle not well.

Rise Moor Monday July 20th 1767

Mett [met] Mr Waters at Bradeley and went first to Mickley Colliery and finds the New intend'd [intended] Coal pit to be sunk 21 Fathoms and is got clear of the meetings there are no Coals wrought at Mickley and the Heaps are very large. At Rise Moor the waterlevel is not ab't [about]

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60 yards from the Dogg pit and the Coal is very good is now working 12 Score pp [per] day at her w'th [with] a 20 peck Corf the Stone Drift wants about 9 yards to the Prosperous pit Staple and that Staple will in all probability be sunk ag'st [against] the Drift be drove; is working 15 Score pp [per] day in the Prosperous pit.

Tinmouth Moor Tuesday July 21st 1767

Went and sett [set] out the New Engine House near Green's Gate and Mr Brown agreed w'th [with] Nich's [Nicholas] Chance to build her to win and walling w'th [with] Stones 13d [thirteen pence] pp [per] yard accounting 18 Feet to a yard, for setting Boilers 3.13.6 £.s.d [three pounds, thirteen shillings and sixpence] each. For building two main Chimneys 42s [forty-two shillings] workmanship only. Also Agreed w'th [with] Thos [Thomas] Jameson & part'rs [partners] to Sink the Engine pit to be 10 Feet Diam'r [diameter] withing all Tim'r [timber] to the Stonehead or until there be five man Tubs of water pp [per] Hour and to have a Gin sett [set] on her, and sink the s'd [said] pit until there be 5 Single Horse Tubs of water pp [per] Hour. Jameson to find Candles, Sharping [fine grained sandstone] etc. for £4 pp [per] Fathom.

Also agreed to drive an Offtake Drift first in opencast for 3d [threepence] pp [per] Cub [cubic] yard. Jameson to lay the bottom w'th [with] Deals [planks] and the Carpenters to cut [cut] them proper length and to find Candles.

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Stella Wednesday July 22nd 1767

Measu'd [measured] the Mason work at a New House in the Runhead (viz.)

	£	[s]	[d]
To 8 Chimneys at 8s each	3	4	0
Plastering 607¾ yards @ 2d pp	5	1	2¾
Flooring w'th Flatt Brick 163 yards @ 2d pp	1	7	2
Partitions 75½ yards @ 5d pp	1	11	5½
Ditto 65 yards @ 2½d pp		13	6½
Allowance for Hips & Valleys on 2800 Pantyles lay'd on the Sraith at 16s 6d pp Thous'd	2	6	2¼
	14	3	7

Came to Benwell and got the Boiler tow'ds [towards] the water side for Gateside Fell Colliery.

Plessey Thursday July 23rd 1767

Finds the Stone Drift intended to be drove to the wheel hole is not much done to, has got s'd [said] Drift cleaned up from the River to the Staple in the Bank side where the water comes up, ord'd [ordered] that a Stone Drift may be drove from the s'd [said] Staple to the wheel hole to take off the water which is meant to be apply'd [applied] to the wheel, eamin'd [examined] the race from the dam head as far as it is finished and finds in several places may be fill'd [filled] up again, measu'd [measured] the mettle [metal] work cutt [cut] for the wheel and finds it to contain 527¾ yards at 2½d [twopence-ha'penny] pp [per] yard = £5.9.11¼ [five pounds, nine shillings, eleven pence and a farthing] and shew'd [showed] Gibson where to cutt [cut] some more. Agreed w'th [with] John Gibson & part'rs [partners] to Sink the new Intend'd [intended] Engine pit from the Surface until

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there be 3 Man Tubs of water pp [per] Hour, Gibson to find Sharping [fine grained sandstone] and uphold the Geer, Candles Gunpowder etc. & Sink with Six men until there be Three Tubs of water pp [per] Hour as said before, for 52s [shillings] per Fathom, the same to be 7 Feet Diam'r [diameter] within all Timber.

Washington Friday July 24th 1767

The Wining [winning] of this Colliery will at the rate of going on will be endless for is now Got the Coal pit Sunk to the Low Drift and hold [holed], but the Engine pit is not sinking any; ord'd [ordered] that that the Ventulators [ventilators] may be apply'd [applied] for the use of Sinking the Engine pit and that all other Communications be stopt [stopped] up, and if that does not answer a good purpose to open the Low Drift and fix a Lamp in the Coal pit Shaft.

Fatfield July 24th 1767

Attended the pay as usual. I find the Lane pit is not got ready to sett [set] the Headways's [sic] to try the Coal, ord'd ordered Wilson may gett [get] the Jackhead Bunton laid in Engine Shaft and to compleat [complete] it for the Sett [set] of Pumps to Stand on, but I find the alteration of these pumps cannot be made until the garden pit be laid off for the water runs into these dip works when the Engine stands 24 Hours. The Main Coal waterlevel Drift has not gone any this there or four months notwithstanding the great necessity to get into Harraton Outside for a better supply of good Coals. Mr Brown gave p'ticular [particular] directions to Wilson & Ro: [Robert] Brown to forw'd [forward] that Drift and that the Coals may be drawn at the Chance pit until the Lane pit be got ready. The garden pit works very good Coals in the Main Coal [Seam]

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but will not be of long duration perhaps eight or Ten weeks. The Blake pit is Harraton Outside is down to the Five Quat'r [quarter] Coal Seam and beginning to work Coals.

Saturday July 25th 1767 at Newcastle.

Pelton Comon [Common] Monday July 27th 1767

At the request of Morton Davison Esq. Mr Jennison & part'rs [partners] I have Viewed in Handon Howl pit and fix't [fixed] on some pillars to be wro't [wrought] to the s'd [said] pit during the time that is Suppos'd [supposed] Mr Davison will be of Leading Coals to the River w'ch [which] will probably be in 50 weeks at w'ch [which] time Mr Jennison & part'rs [partners] must desist from Lead'g [leading] from that pit. I ord'd [ordered] that three walls may be left on the North side og the M.gate [mothergate] to prevent the thrust from damaging the Air Courses or water Courses for the remaining part of of the Colliery to the West and that no walls may be wrought on the South side of the s'd [said] M.gate [mothergate] Bord the pillars already fix't [fixed] on may probably afford 450 Tenns of Coals. [Ten, a measure of coal, usually consisting of 440 bolls of 8 pecks each, the weight of the ten of 440 bolls is 51.76428 tons. Sometimes it was fixed at 50 tons]

Gateside Fell Tuesday July 28th 1767

The Staith at the pothouse is advancing pretty well forw'd [forward] and the Engine House is got to the height of the Beamhole [.] Sett [set] out the wagonway through Parkin's and Smiths Fields. I ord'd [ordered] that things may be got ready to begin the Engine pit to Cutt the Cystern hole for the first sett [set] of pumps to stand in, ord'd [ordered] that the Cylender may be

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got lead to the Colliery to be ready, went to Mr Peareth to asl leave to lead the Boiler up the Felton Waggon way w'ch [which] he granted.

Walker Wednesday July 29th 1767

The workings in the Ann pit advances very sore to the westward and is now a great distance from the Shaft. The North Headways in the dip side of the 13 feet dyke has got a dyke w'ch [which] I suppose to be the same as got at the Bill pit and if proves so, that Headways will be at a stand, in the West pit workings the N [North] Headways below the Ann pit Dyke is so near the waterlevel Drift has stop't [stopped] her and is twining [twinning] boards there is setting over Double Dykes South from the Shaft for a nearer Barroway to the Coal w'ch [which] lies between the s'd [said] Double Dykes and a Dyke to the South untry'd [untried]. The Charlotte pit is now Sunk 29 Fathoms and in a pretty strong Stone & the Bill pit is Bor'd [bored] 32 Fathoms & Sunk to the Scaffold 20 Fathoms w'ch [which] makes in all 52 Fathoms Sunk & Bor'd [bored]. I had a tryall [trial] of the Corses [courses] in the West pit Shaft and they seem to answer very well but has not yett [yet] compleatly [completely] finish'd [finished] the Cleading.

Washington Thursday July 30th 1767

I find the Sinkers is stoping [stopping] for want of Air in the Engine pit the Coal Drift is hold [holed] and a stopping made up in the s'd [said] Drift and no communication between the two pits. I made the stoping [stopping] be taken out and that the Ventulators [ventilators]

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be apply'd [applied] to sink the Engine pit and to have an open communication to the Coalpit, if that does not answer the intended purpose, to fix a Lamp in the Coalpit Shaft at the [] Coal. I try'd [tried] a Candle down the Engine below the delivery Cystern and made it be drawn up again.

Byker Friday July 31st 1767

Examin'd [examined] the workings in the Delight and Endeavour Pitts and finds all the whole Coal is wrought in the Endeavour pit & is now making a beginning to work the Pillars by taking a Jud [a depth of coal in the face that will fall after being undercut] off each of one yard thick, this method I approve of and each pillar Length of Coal may probably afford of 20 yd's [yards] in Length about 40 Fothers of Coals and to work the Walls by this means wee [we] are of opinion will not damage that Colliery of St. Anthony's by any Thrusts w'ch [which] may happen from this method of working the Pillars. In the Success pit the Drift going Southward into St. Anthony's Colliery is still in many troubles and bad Coal, has got the upcast Dyke sett [set] over to the SW and mett [met] with a downcast that way of 8 feet.

Gateside Fell Saturday August 1st 1767

Went to the Staith and gave the necessary directions there about the Carpenter work etc. and went and sett [set] out the breast wall for the Offgate, went up the waggon way to Shipcoat Lane and then return'd [returned] again.

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Walker Monday Aug'st [August] 3rd 1767

The West pit Shaft is now compleated [completed] and the cleading putt [put] on ready for Coal work had a further tryal [trial] of the Corves w'ch [which] I think will answer the Intended purpose of both an Engine and Coal pit. The Ann pit is working double Shift and 35 Scores of twenty peck Corves.

Plessey Aug'st [August] 4th 1767

The mettles [metal] work is not yet finished for the wheel hole. Mr Brown marked out the place to be cutt [cut] to the Rock. There is very little done to the Stone Drift w'ch [which] is to be drove to the wheel hole on Acco't [account] of the water being so high in the River ord'd [ordered] that it may be forwarded with all speed. The Engine pit is Sunk about 3 feet and in a very strong Stone and has about 3 Tubs of water pp [per] hour. The damhead is done and about 200 yards of race is now at a place where the Colliery has been wrought and I ord'd [ordered] a wall to be built on the North side of the race and well beat with Clay, showed J. Reed and Gibson how to lay the troughs. Mr Ridley has been observing to leave the small Coals underground providing they cost much money drawing and other expences [expenses] upon them as there is no probability of vending them & I find the Small Coals in the upper seam costs £1.4.9 [one pound. four shillings and ninepence] pp [per] Ten and the Low Seam £1.8.5 [one pound. eight shillings and fivepence] pp [per] Ten therefore if they cannot be vended at all it will be the most elligable [eligible] Scheme to leave them underground. The Rose pit is Sunk to the Low Seam, and to prevent

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the floods from drowning the Low Seam ord'd [ordered] that a Tub dam may be putt [put] in at the upper Seam.

Washington Wednesday Aug'st [August] 5th 1767

Went with Mr Brown to this Colliery and finds the Sinking of the Engine pit is now upon a fair footing went to Barmston Estate belonging to the Earl of Halifax to consider upon a proper place to begin to win the Colliery at & to make Borings, upon considering the depth of Washington and North Biddick and the situation of the Colliery wee [we] find the Colliery at the West Boundry [boundary] in Barmston will not be less than 100 Fathoms deep to the Main Coal Seam & to go 600 yd's [yards] Eastward to begin to Bore will probably be ab't [about] 715 Fatho's [fathoms] deep.

Tanfield Moor Thursday Aug'st [August] 6th 1767

I examin'd [examined] the Drift and Levels drove from the Brook pit to the East pit and I find there is a good deal of Level lost made Elliot begin to take it up. The Dayhole advances pretty well forw'd [forward] and if continued will get her finished in two months time. The workings in the Brook and Flatt pitts is in much the same way as before ment'd [mentioned]. I Lett the Stone Drift in the East pit to be drove 20 yards for 15s [fifteen shillings] pp [per] yard to be 3 feet wide and 3 Feet 4 In

[inches] high, the undertakers to hang on the Stones once every week and find a Banksman to Sledd [carrying coal by flat wooden vehicle] them out, they also agree to putt [put] in the Air Boxes and find Candles, Sharping [fine grained sandstone] and Gunpowder and uphold the Geer.

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Tanfield Moor edge Aug'st [August] 6th 1767

The Ait Boxes is putt [put] in the Fortune pit to go down to tap the Dam putt [put] in the Coal Drift between the said Fortune pit and the New pit in the dip side of the 20 Fathom Dyke is sawing the Spears [ridged guide rails] for the Slides from the Engine intend'd [intended] to win the Hard Coal Seam in the said New pit w'ch [which] Mr Brown agreed to give Wm. [William] Puncheon 35£ [thirty-five pounds] to take out the s'd [said] Dam, Saw the Slide Spears [ridged guide rails] and make them draw the Low Sett [set] of pumps in the Old Engine pit, putt [put] in the Sinking Sett [set] of pumps in the New pit & in short fix all the materials ready to go to work. The Dyke pit is still working in the Brass Thill Seam and 14 Score pp [per] day.

Fatfield Friday Aug'st [August] 7th 1767

The main Coal Drift is going tow'ds [towards] the Rush pit is now standing, Mr Wilson says for reason of a dangerous bad roof to the Chance pit. I ord'd [ordered] My Wilson to get that way secured & to sett [set] that Drift on with all speed if possible and also to gett [get] the Lane pit ready ord'd [ordered] that two West Drifts may be drove out of the Lane pit over a dip trouble near the Shaft, the Coal seems to be very bad on the East side of the s'd [said] trouble and is a likewise in the NW workings in the Chance pit on the East side of the same trouble. The Blake pit is working Coal work in the Five Qua'r [quarter] Coal in Harraton outside, has sett [set] away a Drift tow'ds [towards] the Sheorld pit in order to be at that pit ag'st [against] she be Sunk to the Five Qua'r [quarter] Seam, if the Main Coal Sm [seam] in the Lane pit does not twin out good to the West of

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this trouble, will then require some consideration how to proceed to get Main Coal to answer the vend next year, examin'd [examined] the bills as usual.

Newcastle Saturday August 8th 1767

Made an Agreement w'th [with] John Reed to Build a Water wheel and fix her of 30 Feet Diam'r [diameter] fix a sett [set] of pumps in the New Int'd [intended] Engine pit at Plessey Colliery make Spears and putt [put] in the Spears [ridged guide rails], make and fix the Bobs etc. for £20. Also agreed w'th [with] Reed to make trougs [troughs] for the Conveying of Water upon the s'd [said] wheel for 4d [four pence] pp [per] yard to be 3½ feet wide and 12 Inches high inside.

Byker Monday August 10th 1767

In the Success pit has got the 8 feet Dyke aett [set] over as Mentioned in my last Acc't [account] and many more Small troubles has been mett [met] with since and at the face is a upcast to the SW above Seam height. I shew'd [showed] Donkin what Method to take to try her & if does not prove well there is an end to all our expectations in that part of St. Anthony's. The Endeavour pit is now working in the pillars by judd'g [judding, working a pillar by undercutting] one yard for each wall which seems to answer Very well.

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Plessey Monday Augu't [August] 10th 1767

I find the mettle [metal] work is nearly Completed [completed] in that part where the wheel hole has to be cutt [cut] and it seems necessary for Mr Brown to be Over to fix the hole to be cutt [cut]. The Engine pit is now Sunk ab't [about] 2 Fathoms and in a very strong Stone. There are no Troughs fix'd [fixed] yet and the race has advanced very little sinc my last Acc't [account] and the fourth of Aug'st [August] last. Told Gibson to get [get] forw'd [forward] with the Tub at the Main Coal Seam in the Rose pit to prevent any floods from drown'g [drowning] the present Colliery and to get wood for that purpose. The small Coals is now left underground.

Tuesday Aug't [August] 11th 1767 at Newcastle all day.

Walker Wednesday Aug't [August] 12th 1767

The NW workings in the Ann pit is still very promising and continues clear of troubles and in manyu of the Bords the roof is very good. The North Headways is Standing since got the last trouble or Dyke therefore I cannot give any further Acc't [account] ab't [about] her. The water level Drift from the Engine NEward [north-eastward] is widening the Back Drift for a Barroway from the Charlotte which will be completed [completed] in a weeks time to hat pit showed Pollock where to sett [set] away the North Headw's [headways] from the s'd [said] pit. I agreed w'th [with] Morrow & part'rs [partners] to drive her for 12d pp yd [twelve pence per yard] 200 yd's [yards] in length & to follow her w'th [with] six men Constantly. In the west pit is setting over Double Dykes to the South to Shorten the putting the Coals. The west pit is now ready for coal work and to go

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with a 16 peck Corf. The work'gs [workings] are in much the same State as Mentioned in my last Acc't [account].

Thursday Aug'st [August] 13th 1767 at Newcastle wrighting [writing] sundry Acc'ts [accounts].

Plessey August 14th 1767

The Crib wood in [is] not got ready for the Tub at the Rose pit. Ord'd [ordered] that some planks may be got for the Cleading, sett [set] out the wheel hole to be 8 feet wide in the wheel way 11 feet deep to the Axel tree [an axle made of wood] 34 feet long, and 16 deep from the Centre to the Level of the Brown [bourn] w'ch [which] will allow one foot water way, at the underside of the wheel, told Gibson to get in proposals from different hands to cutt [cut] it by the Cub: [cubic] Yard w'ch [which] may probably cost 5s [five shillings] pp [per] yard & I find there are about 110 yards = £55. The Engine pit is sunk ab't [about] 3 Fathoms and in a very strong Stone. The Coals comes very good and a Special good Trade is now working the Spring pit in the under seam and the Steady pit in the Main Coal all in the pillars. I find Gibson has gone too low with the race at the Road near Hartford Bridge w'ch [which] will be ab't [about] 12 Feet deep and only design'd [designed] for 9 feet deep.

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Newcastle Saturday Aug't [August] 15th 1767

In the forenoon was to Gateside Fell Staith and gave the Necessary directions there.

Tinmouth Moor Monday Aug't [August] 17th 1767

[REMAINDER OF PAGE IS BLANK]

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Byker Tuesday Aug't [August] 18th 1767

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Wylam Wednesday Aug't [August] 20th [19th] 1767

Is beginning to cut out the Cystern hole in the Chapple pit for the Top sett [set] of pumps to stand in, the Boiler is not yet compleated [completed] marked out the Crib way & shew'd [showed] Dryden how to fix the Crib [segments of timber, iron or concrete, encircling a shaft to form a foundation for the walling or tubbing]. Took a look of situation of the Grounds and fix'd [fixed] on a place for a New Coal pit Eastward from the Engine. Mr Baker & Mr Coulson has some thoughts to work the Splent [splint] Coal [hard grey coal with a slaty structure and uneven cross-fracture that burns away to a powdery ash without caking; utilised in steam engines] in the Haugh w'ch [which] lies ab't [about] 5 Fathoms deep and Consequently below the Level of the River and as there is so many open partings in that seam of Coal and Such free communication from the River the water will be troublesome and in a short time will get better splent [coal] in the common course of work'g [working] thinks it advisable not to enter into any further expence [expense].

[Signed by initials] W:B, C:B

Rise Moor Wednesday Aug't [August] 20th [19th] 1767

The West water level Drift ahs got the 8 Fathom Downcast Dyke to

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the Westward at ab't [about] [BLANK] yards from the Dogg pit took the Course of the s'd [said] Dyke and considered other circumstances relating to the future proceedings and thinks it elibable [eligible] to to Sink a New pit 60 yards over the said Dyke at right angles, and to drive a Drift in Stone to the said Intended New pit w'ch [which] will win the upper Main Coal Seam. This pit will Likewise be an under seam pit when Won by the Low Stone Drift putt [put] a stob [wedge] at a place to run the Main Stone Drift to w'ch [which] will want ab't [about] 168 yd's [yards] from a Staple in the

Prosperous put work'g [working] the s'd [said] 8 Fathom Dyke. Mickley Moor pit is Sunk 30 Fathoms & 3 Inches.

Tanfield Moor Thursday Aug't [August] 20th 1767

The Stone Drift going to win the Hard Coal Seam in the dip side of Main Dyke is now in Levels ab't [about] 60 yards and Close Drift 15 yd's [yards] and is drove for 15s [fifteen shillings] pp [per] yard. The Dayhole advances very well forw'd [forward] and now wants ab't [about] 22 yards to be finished. The working in the Brook & Flatt ai carried on in the same unregular manner as ever.

Tanfield Moor edge Thursday Aug't [August] 20th 1767

Puncheon has got the Frame Dam taken out in the Stone Drift between the Fortune & Venture pit Shafts so that water is now Standing at the Level of the s'd [said] Drift, mostly all the Spears [ridged guide rails] are sawn foe the Slydes [slides, upright rails] to be fix'd [fixed] from the Engine to win the Hard Coal Sm [seam] at the s'd [said] Venture pit. The segments for the slydes [slides, upright rails] is not yet come from Wylam, therefore cannot begin to sink until that one be fix'd [fixed] next the Shaft. The Dyke pit still work'g [working] in the Brass thill Seam and 15 XX [score] pp [per] day.

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Fatfield Friday August 21st 1767

The Pitmen are Sticking, they say, for the Corves being too large notwithstanding they Confess them to be the size mentioned in the Bond but larger than have been formerly & as their reason is not just means to let them stick as long as they choose & now at this time when there are little demand for Coals [.] made the pay as usual. There has been many Complaints made My Rogers to Mr Rob't [Robert] Green agent Lance't [Lancelot] Turner using means to stop Mr Davison from Getting Timber unload'd [unloaded] at the Staith w'ch [which] I think is without foundation; Turner has complained of Rogers not bring'g [bringing] the People's days to Mr Davison's Acc't [account] when at his Assistance & paid by Sir Ra: [Ralph] Millbank. The Main Coal water level Drift is begun again and got 10 yd's [yards] from the Bord's [Bordways] Drift that was drove to the lane pit. There is very little more done tow'ds [towards] getting forw'd [forward] w'th [with] the Lane pit to get over the Troubles.

Newcastle Saturday August 22nd 1767

Agreed w'th [with] John Reed to lay a part of Beamish W.way [wagonway] from Handon howl to the road leading from Pelton to Urpeth for Sleepering & laying w'th [with] Fir railing 3d [three pence] pp [per] yd [yard], Oak Rail'g [railing] at bottom & Beach [beech] rail at top 3½d [three-ha'pence] pp [per] yd [yard], Single False railing 2d [two pence] pp [per] yd [yard], Double False rail'g [railing] 3d [three pence] pp [per] yd [yard], to make Gutter's [sic] in the Cutt and fill Sleeper height.

John Christy's proposal the same from the Coblers Batt'y [battery] to Handon howl Batt'y [battery] & to the road w'ch [which] leads from Pelton Town to Urpeth

Sildon Monday Aug't [August] 24th 1767

The Engine pit is down to the low seam & a Drift drove to the first Coal pit w'ch [which] is ab't [about] 40 yd's [yards] in Length, wee [we] find when the water is drawn down in the present Engine pit it lays a pit dry in Mr Harrison's Bound'ry [boundary] w'ch [which] pit is sunk to the s'd [said] Seam of

Coal and is 15:0:0:6 Fa:yds:feet:Ins [fathoms:yards:feet:inches] and I faind the s'd [said] pit is only 36 yd's [yards]

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from the North Bound'ry [boundary]. I marked out a New pit at 150 yd's [yards] to the rise from the present Engine w'ch [which] pit I Suppose to be ab't [about] 11 Fath's [fathoms] deep to the s'd [said] seam, therefore if the water in the present Engine pit be allow'd [allowed] to rise it will drown the Coal in Harrison's pit before it comes near the Coal in the Intend'd [intended] one as there appears to be such open Communication in the Coal for the Water.

Leveld from the Engine pit Harrison's pit [Fathoms, yards, feet, inches]					To the Thill [floor] of Coal			
	Fa's.	Yd's	Feet	In	Fa's.	Yd's	Feet	In
(Viz) Engine pit to the top of the water	13	1	1	9	22	1		
Asc't of Ground from Do' to Harrison's pit				9				9
	13	1	2	6	22			9
Depth of Harrison's pit to top of water	12		1	To Coal	15			6
The water in the Engine pit is lower than the water in Harrison's pit	1	1	1	6				
The thill [floor] of the Coal in Do' underlevel of the Coal in Do' pit					7			3

Tanfield Moor Tuesday Aug't [August] 25th 1767

Leve'd [levelled] the Dayhole from the Cape pit both below & above Ground and finds there wants ab't [about] 19 yd's [yards] to go and to rise at the rate of one yd [yard] in three will just answer the Level; The Stone Drift in the East pit goes very well forw'd [forward] is still work'g [working] the Brook & flatt pitts & they Cannot supply the waggons with Coal.

Tanfield Moor edge Tuesday Aug't [August] 25th 1767

The Dyke pit is still work'g [working] in the Brass Thill seam & 14 Score pp [per] day w'th [with] a 20 peck Corf. The waggons cannot be kept constantly going for want of Coals, there is very little more done tow'ds [towards] wining [winning] the Hard Coal seam in the dip side of the 20 Fathom Dyke being that Puncheon si so much employ'd [employed] at Mr Silvertop's.

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Walker Wednesday August 26th 1767

The Charlotte pit is now Sunk 32 Fathoms, and in a very Strong Stone the Sinkers has thought proper to take of [off] the Top of the Brattice and to make no Communication to the Cube. The Borhole [borehole] is about one foot out of Centre and I am doubtful will not keep in the Shaft until the pit be Sunk to the top of the Main post. The Bill pit Borhole [borehole] getts slowley forw'd [gets slowly forward] and will be ab't [about] Martinmas [November 11th] before getts [gets] the Coal. There are no alterations in the work'gs [workings] since my last acc't [account]

Fatfield Thursday August 27th 1767

At this Colliery matters are now in a tollerable [tolerably] good situation, the Main Coal Drift is going forw'd [forward]. I ord'd [ordered] Wilson to drive her to a certain point until there be 18 Ins [inches] thickness of Level or 18 Ins [inches] under level, also to Continue the Drift in a direct Line tow'd [towards] the Theorld pit she is now 50 yards in. I find the pitts have run considerably short and is mostly owing [owing] to the Corves being too small.

Gateside Fell Friday Aug't [August] 28th 1767

Most of the day Leveling a part of the Waggon way thro' [through] Cha's [Charles] Stewards Fields and at afternoon went to the Colliery and got up the Regulating Beam

Newcastle Saturday Aud't [August] 29th 1767

In the morn'g [morning] went w'th [with] Mr Brown t the Foundary & finds Lee's direct's [directions] not executed for Mr Davison and Mr Wylam. I gave directions for a Buck't and Clack for a 12 Inch Bore etc.

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Wylam Monday Aug't [August] 31st 1767

In the Chapple pit and Six Quart'r [quarter] Coal seam is cutting out the Cystern hole for the top sett [set] of pumps to stand in and got a large feeder of water can scarce keep it w'th [with] the Brake pump. The Regulating Beam and Cylander is kept but want the bottom part of the Cylander on, ord'd [ordered] that all convenient speed may be made to gett [get] the Boiler in and to hasten with the Cystern hole etc.

Rise moor Monday Aug't [August] 31st 1767

Is now Drifting thro' [through] the 8 Fathom Downcast Drift to the west & is 3 yards in. I agreed with Ja: Soulsby & part'rs [partners] 5 yd's [yards] for 21s pp [twenty-one shillings per] yard. The main Stone Drift is 3 yd's [yards] past the staple in the Prosperous pit work'gs [workings] and is now in Softer Stone than ever, and a point is given to a Stob [wedge] on the Fell where it is supposed, the course of the 8 Fathom Dyke downcast to the west, has broke the New pit & is now ab't [about] 3 Fathoms Sunk and has ab't [about] 3 Tubs of water pp [per] hour. The Prosperous pit is work'g [working] Coals and 10 Score pp [per] day to the SE from the shaft and is very clear from Troubles, a water Level Drift from the tail of the Levels (taken out of the last Sunk Staple in the Prosperous pit work'gs [workings]) to the Thrust Eastw'ds [eastwards] & has Crossed Humbles Old Drift therefore all the Coals to the North of the s'd [said] Drift & South from the late work'gs [workings] is all whole Coal. The Dogg pit is work'g [working] the NW an 15 XX {score} pp [per] day all w'th [with] a 20 peck Corf. The Coals to the NW is not so good as in the NE side being near to the 8 Fathom Dyke.

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Benwell September 1st 1767

Went to gett [get] the Boiler w'ch [which] Stood in the West side to the water side for the use of Gateside Fell Colliery (viz) a 17 foot Boiler agreed to pay £210.

Chirton otherwise Preston Wednesday Sep'r [September] 2nd 1767

In the Luckey pit is working a piece of whole Coal to the NW next to the Main Dyke. I ord'd [ordered] Jobling to work at 18 yards to the wining [winning] in that quarter. I also fix'd [fixed] on four walls to be wrought to the said pit to make a Sufficient Number of places for the pitmen at the present rate of working may probably last 16 months in the whole Coal and pillars.

Thursday September 3rd 1767

Went to Morpeth to Meet Mr Graham and Mr Dodds on their return from the North ab't [about] some business of consequence.

Fatfield Friday Septem'r [September] 4th 1767

The Theorld pit is now Sunk 13 Fathoms and has about 3 Tubbs of water pp [per] hour. The Drift going from the Blake pit tow'ds [towards] the said Theorld pit in the Five Quarter Coal seam is about 60 yards in and tak'g [taking] a dip of the face. The Main Coal waterlevel Drift getts [gets] but slowley [solely] forward.

Byker Saturday Sep'r [September] 5th 1767

The Face of the SW Headways is now standing in good coal and has now begun to drive a back Drift for an Air course which will probably take six or seven weeks before it be completed [completed]. The New pit in St Anthonys is now Sunk

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34 Fathoms and is still oblig'd [obliged] to Timber her.

Throckley Monday Septem'r [September] 7th 1767

The Owners of Throckley Colliery

To Mr Geo: [George] Harrison Dr. [draft]

	[£]	[s]	[d]
For Mason work of an Engine House			
For workmanship & win'g Stones for Engine House 1507½ yds @ 15d pp	94	4	4½
To laying on 2434 Pantyls & pointing @ 10s:6d pp Thous'd	1	15	8
Do. 960/2400 Do. of Dwelling house			
Building two Shop Chimneys & harths & find'g Stones @9s pp			
Do. Two Do. for a Deal Shop & find'g Stones			
Plastering @ 1½d pp	1	17	6
Six Small Chimneys @7s:6d pp	2	5	
Two Main Chimneys @ 21s pp	2	2	
Gavels allowed Square Measure 73½ yards @ 9½d pp	2	18	2¼
Carried forw'd	105	2	8¾
Brought forw'd	105	2	8¾
Two Jackhed Staples 34½ Fat in depth & 4 Fat 6 Ins Diam'r @12d pp Fa'm win'g & walling	3	9	
For win'g 318 Fother the Stones setting the Boilers & mak'g the Boiler Seats	12		
Making the Delivery Drift			
Length 5 yds		10	10

Thickness 3 feet	@2s 2d			
Height 3½ Do.	pp			
Tyne Level Drift				
Length 26⅔ yds	@18d	2		
Thickness 3 feet	pp			
Height 1:6 feet				
Allowed for Boring the Quarry & Agreement		4		
	£	127	2	6¾
For Building a Smith Shop at Throckley				
Win'g & Wall'g ½ yards @12d pp	£	6	10	6
Workmanship for Gavels 10 yards @ 12d pp			5	
Win'g Stones for two harths & building them & two Chimneys			18	
Do. for two Do. building formerly			18	
Laying on 1110 Tubs & pointing them @ 10s pp			11	1
A piece of wall on west end of houses 37½ yds @ 12d pp		1	17	6

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Benwell Monday Septem'r [September] 7th 1767

The Owners of Benwell Colliery

To Mr Geo: [George] Harrison Dr. [draft]

	£	s	d
For build'g an Engine House win'g Stones Lead'g find'g Lime & workmanship pp Agreem't	200		
Building a Cube find'g Lime Leading & workmanship 9 yds @ 1s:1d pp		16	6
Brickwork in Do. an Arch 6¼ yds @ 1s:11½d pp of 10 inch work find'g Brick etc.		12	2¾
Do. for 5 inch work in Do. 20¼ yds @12d pp	1	0	9
	2	9	5¾
Air course Drift, of stone win'g leading & workmanship 25yds in lin @13d pp	1	7	4
Build'g a Wall on the East End of the Houses & a Wall on West end of Do. find'g Stones 32½ yds @ 1s:1d pp	2	19	7
Plastering in eight rooms & find'g Lime & hair 436 yds @ 5d pp	9	1	8
Carried forw'd	216	8	0¾
Brought forw'd	216	8	0¾
Jackhead Staple Sunk [] feet paid formerly [] feet run'g [] feet @ 3s pp foot			
In Do. houses 6 pair of Hudstones & 6 Slabs win'g & workmanship etc.	2	2	
A Dwelling House near Engine			
Plastering find'g lime etc. 87½ yds @ 5d pp	1	16	5½
Laying Low floor w'th flatt Bricks& find'g them 26½ yds @ 6d pp		13	3
One pair of Hudstones & one slab workmanship find'g Stones etc.		6	
One pair of D. Sett with Bricks and finding them		2	

A Smith Chimney & harth for a Deal Shop find'g Bricks Stones Lime leading & workmanship		15	
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[NEIMME-East-10b-119]

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Tinmouth Moor Tuesday Septem'r [September] 8th 1767

The New Engine House near Greens Gate is to the height of Cylender Floor. Mr Brown shew'd [showed] the Carpenters how to proceed w'th [with] lay'g [laying] on the Beams etc. The Boilers are advancing very well forw'd [forward] and so is the Engine pit, Sunk ab't [about] 16 Fathoms. Went down to Preston Moor and finds the Luckey pit is working in the pillars shew'd [showed] the overmen how to proceed with working them apart of the Men are work'g [working] next to the Main Dyke but the North Headw's [headways] has got the s'd [said] Dyke therefore the Coal will not be of long duration.

Gateside Fell Wednesday Septem'r [September] 9th 1767

The Boiler is fix'd [fixed] and the Regulating Beam and also the Cylender therefore will get very fast forward. I have Mr Lee dimentions [dimensions] for the Injection pipes Mettle Sheeves Bucketts, Clacks etc. and if getts [gets] them in time will probably gett [get] the Engine to work in a Months time.

I went to Fatfield and mett [met] Mr Brown there, he gave directions to make a Quantity of Bricks for the Theorld pit to answer the Circle of the Shaft, measured from the Staiths to the A pit on Pelton Comon [common] otherwise Whitehall Comon [common] to 6 miles 528 yards.

Walker Thursday Septem'r [September] 10th 1767

I find the Charlotte pit is Sunk 38 Fathoms. I examin'd [examined] the Brattice in the Shaft and I find in mant places very bad ordered that it may be mended which may be done at a very light expence [expense] & to close the top part of the Brattice and make use of the Cube. The pitts [pits] are all at work.

[NEIMME-East-10b-120]

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Fatfield Friday September 11th 1767

This day the Bond expired for Last Year and called a Binding, after reading over the Bond and explaining the Conditions, their objections were to have 2d pp [per] Score advance a Guinee each Binding money and to be Bound to a Corf hold 20 pecks or in proportion to any size; it was granted to them the Corf but no binding money only one Shilling earnest; got ab't [about] 40 Men & Lads bound.

Newcastle Saturday September 13th 1767

Sunday September 14th 1767 at Throckley mak'g [making] up his Grace the Duke of Northumberland's Acco't [account] for Lady day Augit [audit?] 1767.

Foulforth Thursday September 17th 1767

I find there is a Level begun in the Low Grounds & drove ab't [about] 300 yards and has now ab't [about] 21 feet of Level in driving the s'd [said] Opencast has gone thro' [through] a good deal of Quick Sands and at the face it appears to be worse than ever. I ord'd [ordered] she may be sett [set] in close Drift and to bote a hole ab't [about] 10 yards before the face to try the Mettle. I find there is 4 Feet 4 Ins [inches] of Level lost in driv'g [driving] up the s'd [said] upcast it wants now ab't [about] 80 yards to drive in close Drift w'ch [which] may cost ab't [about] 8s pp yd [eight shillings per yard]. I also find that if the Level was truely drove it w'd [would] be under the Coal at the First Coal pit 4:2:2 Yds ft In [yards, feet, inches]. The Coal at the First Coal pit is 11.2.72 Yds ft In [yards, feet, inches] deep, but as said there is 4.4 Feet Ins [inches] of Level Lost therefore the Drift if truely drove from where it now stands will only go 3:0:10 Yds ft In [yards, feet, inches] under the Coal of the s'd [said] pit.

[NEIMME-East-10b-122]

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North Biddick Friday Septem'r [September] 18th 1767

Surveying the Estate in that part below the 5 Fathom Dyke and made a plan.

Saturday Septem'r [September] 19th 1767 attended at Mr Hudson's all day on Mr Jen: Shafto, Mr Ro: Shafto, Mr Carr, Mr Inman, Mr Brown, Mr New: Hudson etc.

Gateside Fell Monday Septem'r [September] 21st 1767

The Engine house is compleated [completed] and the Cylender, Boiler Regulating Beam is up. I mark'd [marked] out a place for the Reservoir to communicate to the Jackhead Cystern. The Best pit is room'd [roomed (preparation of working place)] down ab't [about] 7½ Fathoms and to the Level of a Clay Dam putt [put] in at the upper main Coal Seam I made the Dam be tap'd [tapped] and the water went down into the yard Coal Seam. I Level'd [levelled] from the outburst of the Upper Main Coal Seam of the Reservoir to the Best pit. Viz.

	Fa's. [fathoms]	Yd's [yards]	Feet	Ins. [inches]
Ascent of Ground	9	0	2	
Depth of the Best pit to the Thill [floor] of the Upper Main Coal Seam	8	1	1	
Rise of Colliery in Do. Seam from the Reservoir to Do. pit	0	1	1	0

Walker Tuesday Sept'r [September] 22nd 1767

Mett [met] the Owners at the Colliery & orders was given to make the Brattice in the Charlotte pit communicate w'th [with] the Cube there are many places in the Brattice not Sufficient therefore must be made suff't [sufficient] before Clos'd [closed]. The North Headways from the Charlotte pit is ord'd [ordered] to be push'd [pushed] w'th [with] all speed.

[NEIMME-East-10b-123]

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Walker Wednesday Sep'r [September] 23rd 1767

In the Wes pit has sett [set] over double Dyke to the So: [South] from the Engine and has now begun the South Heads's {headways(s)} & the roof appears to be very bad, in a short time will probably get out places there which will shorten the putting considerably, the East places groes [grows] very troublesome on Acco't [account] of Meet'g [meeting] with the Feeder of water in one of the Bords w'ch [which] is to Lead to the pumps. The workings in the NE side from the Shaft & to the dip pf the Ann pit Dyke keeps pretty Clear of Troubles and has very little water in them. In the Ann pitt [pit] the workings are all to the NW at a great distance from the Shaft. The Waterlevel back Drift to the Charlotte pit is widen'd [widened] for Horses. I ord'd [ordered] the Overmen to turn off Bords to the East as the Headw's [headways] advanced for one pillars Length to stow the Stones in that comes out of the Level & Stone Drift intend'd [intended] to be drove to the Bill pit Dyke w'ch [which] Dyke is suppos'd [supposed] to be downcast to the Northw'd [northward] of ab't [about] 5 Fathoms and the distance is suppos'd [supposed] to be ab't [about] 230 yards.

Tanfield Moor Colliery Tuesday Sep'r [September] 24th 1767

I find the Dayhole wants ab't [about] 4 yards to be hold [holed] w'ch [which] may probably be finish'd [finished] in a Weeks time, set out some places to be wrought to the East in the Brook pit and on the East side of the Waterlevel Drift, and I gave positive Directions to Emmerson to leave a Barrier of whole Coal of 10 yards in breadth on each side of the Waterlevel to prevent Thrusts from damaging it. The Stone pit in the East pit going to win the Hard Coal Seam in the So: [south] side of the Main Dyke is now 25 yards in and in a tollerable [tolerably] good working Stone.

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Tanfield Moor edge Tuesday Sep'r [September] 24th 1767

The Dyke pit is still working in the Brass Thill Seam & 15 XX [score] pp [per] day. I gave direct'ns [directions] to Set on the Success pit in the hard Coal Seam to work a part of the pillars to the NW from the Shaft & also a piece of whole Coal to the SE from the s'd [said] Shaft & near the Engine pit. I had a proposal from Anth'y [Anthony] Richardson & part'rs [partners] to Sink the Venture pit ar Tan'd [Tanfield] Moor edge from the Shieldraw Seam to the Hard Coal Sm [seam] for £6 pp [per] Fathom & to be Continued until there be 10 Single horse Tubs of water pp [per] hour but I did not agree to it. I marked the Centre for the Shaft and also the place for the pumps to Stand in. Punceon has got the Slydes [slides, upright rails] sawn and is now Jointing them. I ord'd [ordered] him get the Segment fix't [fixed] at the Staith & to proceed w'th [with] the spears [ridged guide rails], the Boiler is mostly finished.

[NEIMME-East-10b-125]

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Beamish Tuesday Septem'r [September] 29th 1767

Mett [met] Mr Brown and Mr Davison at the Colliery & considered ab't [about] getting Forward to work Coal at the Borhole [borehole] pit in the Upper Main Coal Seam & directions were given to J: Morabe for that purpose; is now Sinking the Engine pit w'th [with] ab't [about] 30 Single Horse tubs of water pp [per] Hour w'ch [which] is quite Needless to proceed any further until the Engine be ready ord'd [ordered] the Engine Wrights how to deliver the water in the Offtake Drift & to sett [set] the Jackhead pumps, is beginning to Cutt [cut] a Reservoir for the filling of the Boiler and to Communicate w'th [with] the Jackhead Cystern.

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Fatfield Wednesday Sep'r [September] 30th 1767

The Rush pit is now Sinking her to the Main Coal Seam and is now ab't [about] 17 Feet Sunk below the Thill [floor] of the five Quarter Coal & in a very strong Stone. I try'd [tried] the Centres w'ch [which] answers very well, examin'd [examined] the Main Coal Drift in the lane pit going tow'd [towards] the Rush pit & I find by Leveling [levelling] there is 14 Inches lost & she is now pointing at ab't 600 td's [yards] Eastw'd [eastward] from the s'd [said] Rush pit. I ready ord'd [ordered] Wilson to point her at 200 yd's [yards] Eastw'd [eastward] from the s'd [said] Rush pit to run her that Course until the Rise of Colliery comes to be 3 feet and then some alterations may probably be made she is now 60 yards in from the end of the lane pit Drift & only ab't [about] 20 yards nearer the Intended place. I went down the Rush pit in the Five Quat'r [quarter] Coal Seam and finds the North Headw's [headways] 120 yards and the Eastw'd [eastward] and westw'd [westward] turn'd [turned] the Eastw'd [eastward] rises w'ch [which] is contrary to the Comon [common] rise of Colliery. The M:gate [mothergate] Eastw'd [eastward] is ab't [about] 70 yards in the Coal is very strong. The The M:gate [mothergate] Westw'd [westward] is now 90 yards in and dips very sore, is now bring'g [bringing] up levels to lay her dry & then to continue her South Headw's [headways] Course until she be right Bordways course from the Theorld pit this Drift has always said to run in a direct line to the Theorld pit but upon Tryal [trial] finds she runs 70 yd's [yards] to the North from the s'd [said] Lane pit.

Tanfield Moor Tuesday [Thursday] Octo'r [October] 1st 1767

The Dayhole from Claudun [Coundon] is now hold [holed] and the Level answers very well. I measured her off and agreed w'th [with] Thos. Carr and part'rs [partners] to Timber & prop the low end & drive up 18 yards of Level for £1:10s [one pound, ten shillings]. They are also to draw all the Air Boxes etc. The Stone Drift going to win the Hard Coal Seam in the Dip side of the Main Dyke is now 30 yd's [yards] and not got thro' [through] the Dyke. Is still work'd [working] the Brook & Flatt pits in the Hutton Seam.

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Rise Moor Friday Octo'r [October] 2nd 1767

Level'd [levelled] from the Spring pit to the Prosperous pit above Fro. [ground] & also from the Prosperous pit to the water'l [waterlevel] Coal Drift that won the Dogg pit & also from the s'd [said] waterlevel Drift to the face of a So: [south] Headw's [headways] wro't [wrought] by virtue of pumps & find the Main Stone Drift to be under the face of the s'd [said] dip Headw's [headways] ab't [about] 6½ Fa's [fathoms] when drove to the distance Intended, ab't [about] 40. I find the Stone Drift going to the Lamb pit is now 5 yd's [yards] in the 8 Fat'm [fathom] Dyke & driv'g [driving] tow'd [towards] the s'd [said] Lamb pit is in very Strong Stone gave orders to continue the s'd [said] Drift w'th [with] Six men and I agreed w'th [with] Jake Soulsby to drive her 5 yd's [yards] for 21s [twenty one shillings] pp [per] yd [yard] they to find Candles Sharping [fine grained sandstone] etc. also to continue the main Stone Drift w'th [with] all speed w'ch [which] is now 11 yd's [yards] past the Prosperous pit Staple. Is work'g [working] the Dogg pit & Prosperous pit the low main Coal Sm [seam] & 20 Score pp [per] day of 20 peck Corves.

Newcastle Saturday Octo'r [October] 3rd 1767

In the morning made a draught for a New Injection Cock and went to the Foundry at Skinner bourn and gave directions for 4 to be cast. Attended at Exchange as usual.

Gateside Fell Monday Octo'r [October] 5th 1767

Is cutting the Reservoir to communicate to the Jackhead Cistern, is very sore stop't [stopped] at the Engine for want of pipes from the Foundry. The Best pit is now room'd [roomed (preparation of working place)] out to the Thill [floor] of the Upper main Coal seam w'ch [which] is 8.1.1.0 Fa's, Y's, F, In [Fathoms, yards, feet, inches]. Is making some Stave pumps of 13 Ins [inches] Bore w'ch [which] I pay 7s [seven shillings] pp [per] Fathom.

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Beamish Tuesday Octob'r [October] 6th 1767

Mett [met] Mr Brown at Beamish and finds the Gin at the Borhole [borehole] pit is now ready to work Coals in the upper Main Coal sm [seam]. The Regulating Beam, Spring Beams & Jackhead Beams dix'd [fixed] & also the Boiler & is now making the flows, went down the W.way [wagonway] & design'd [designed] the way thro' [through] Harraton Outside Grounds to the joining of Outside way went to the Staith and Marked out a piece of Timber for an Axeltree [an axle made of wood] for Plessey Colliery.

Walker Wednesday Octo'r [October] 7th 1767

The Workings is in Much the same situation as Mentioned in my last Acc't [account] only the Feeders of water increases much in the Charlotte pit w'ch [which] I am Afraid will not be Sunk an [any] other hole or Tubing it back in the Shaft. I have Lett the Levels from the Charlotte pit to drive Northward until it be 6 feet in depth for 32 6d [three shillings and sixpence] pp [per] yard. I measured the Drifts, Headways's [headways(s)] & Levels as usual.

North biddick Tuesday [Thursday] Octo'r [October] 8th 1767

Mett [met] Mr Brown & Mr Hudson at this Colliery & consid'd [considered] the Situation thereof, finds on the Rise & North side of the 5 Fathom Dyke is working the Way side pit & Venture pit in the Main Coal Seam & at a very great Expencc [expense] for putting & the Coals are very bad. Mr Brown gave positive directions to putt a Brattice into the Middle pit from the 20 Fathom Dyke and also a Brattice in the East Pit to the Bottom of the s'd [said] pit & w'th [with] all speed to Sink the East pit to the Maudlin Seam may be drove to the full dip of Colliery until the s'd [said] Main Coal

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Seam be upon the same Level as the Maudlin Seam the s'd [said] East pit w'ch [which] a's [said] Drift when drove will in all probability go 400 td's [yards] Eastw'd [eastward] & outset the old drown'd waiste [drowned waste] to the dip of the s'd [said] Engine pit.

Beamish Thursday Oct'r [October] 8th 1767

Went first to Whittle foundary [foundry] and got Mr Smith to Beamish Engine to get dimention's [dimensions] for the pipes for the Injection Sink Pipe [,] Smift [primitive fuse] Pipes [,] a Receiv'r

[receiver] for the Injection etc. There is no Sink'g [sinking] going forw'd [forward] nor will not be until the Engine be got to work again.

Gateside Fell Friday Oct'r [October] 9th 1767

The Receiv'r [receiver] is fix'd [fixed] in the at its proper place, got up the Chains [,] Jackhead pumps, Spears [ridged guide rails] etc. and is now stop't [stopped] w'th [with] the Foundary [foundry] Men for want of the pipes. I sett [set] out a part of the waggon way to the View pit.

Walker Saturday Oct'r [October] 10th 1767

Went to try to bind the pitmen & offer'd [offered] them the same price & terms they had last year only one Shilling Earnest in consideration of their binding Money, they all refus'd [refused].

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Tanfield Moor edge Monday Octo'r [October] 12th 1767

Took John Adamson to the Venture pit & shew'd [showed] him the Situation of her she is now Sunk from the Settle boards to the Thill [floor] of the Shieldraw Seam 27.0.0.0 Fa's:Yd's: feet:Ins [fathoms:yards:feet:inches] ord'd [ordered] him to putt [put] in a Dam at the Stone Drift where the water is to be deliv'd [delivered] & make room to empty the Tubs & to take all the top Feeders behind the s'd [said] Dam then to cutt a ritt [channel or cutting] down from the s'd [said] Drift to the bottom to be 16 Ins [inches] from the Line when hung down the Shaft where the Spears [ridged guide rails] has to work and two feet 6 Ins [inches] wide. The Shaft I ord'd [ordered] to be Sunk 6½ feet Diam'r [diameter] within all Timber exclusive of the a ritt [channel or cutting] to be of the above Diam'r [diameter]. I offer'd [offered] to lett Adamson a Bargain to sink the s'd [said] pit from the Shieldraw Seam to the Thill [floor] of the Hard Coal & he w'd [would] not, but promis'd [promised] that he would see the Men work Suff'ly [sufficiently] & the same as a Bargain was Lett. Antho'y [Anthony] Richardson propos'd [proposed] to Sink the Venture pit for 6£ pp [per] Fathom.

Stella Tuesday Octo'r [October] 13th 1767

Meas'd [measured] the Carpenter work of dwelling Houses in the run for Matt'w [Matthew] Waters Esq. done by Step: Chambers.

	£	S	d
Painting the Weatherboarding at the Staith & find'g paint 270 yards @4d pp	4	12	
Steathing & Saw'g 5 Squares @2s:6		12	6
Floor'g Joyst'g & other repairs 10s:6 & 11 Door frames & door heads @3d pp	2	3	6
6 Window boards @ 10d pp5 Step Ladders @12d pp		11	
8 Window seals @3d pp Scaffolds hand rail'g & Doggs for a Battery		5	7
6 Hearths & cutt'g the roof for a Chimney		9	
A Window casement 5 feet @ 3dpp		1	3
	£ 8	16	3

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Walker Wednesday Octo'r [October] 14th 1767

Went to see if any of the pitmen were bound for the next year. The terms offer'd [offered] to them was for each house holder House & Fire for paying 3d [threepence] pp [per] week on Consideration thereof & for every other Hewer one Guinea they not having any other Consideration.

Went to Heworth and finds the pitmen are all Idle & will not be bound. I told Humble and Goodbed not to give any more than one Shilling to each house holder and 10s:6d [ten shillings and sixpence] to every Non house holder.

Tanfield Moor Thursday Octo'r [October] 15th 1767

We have this day Viewed the Working in the Hutton Seam in Tanfield Moor Colliery.

(Viz) First in the workings in the Flatt pit and wee [we] find them wrought in a Regular Manner at 10 yd's [yards] to a wining [winning] four yards the Breadth of the Bords and 6 yards the thickness of the pillars and in Length from Twenty Eight to 36 yd's [yards]. Excepting two or three pillars (at the holing) w'ch [which] we observed did not Exceed 4½ yd's [yards] and five yards in thickness & some of the holing are opened 3 yards wide.

Secondly In the Workings of the Brook pit & in the same seam wee [we] find the Workings in the said pit not so regular as in the Flatt pit allowing there are 10 yd's [yards] to a wining [winning] 4 yards the breadth of the bords & 6 yards the Thickness of the pillars and in length from 38 to 47 yd's [yards]. Wee [we] also find that two bords have been driven each 60 yd's [yards]

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and no holing made from the s'd [said] pillars being made so long, wee [we] find great Irregularity in the Thickness thereof at the holing some of them does not Exceed 2 yards & a half, 3 yd's [yards] & a half & 4 yards & others from 6 yards to 10 yd's [yards] in Thickness and the s'd [said] holings are open'd [opened] from 2 yd's [yards] to 3 yd's [yards] & a half & some 4 yd's [yards] wide, as to the Method of work'g [working] the Coal wee [we] dont [don't] approve of, wee [we] find the Hirvings [cuttings] in general is at least 2 Feet 10 Ins [inches] in height at the Front, from the top to the Bottom Coal.

Wee [we] Recommend (for the future) that more regard may be paid to the regular working of the s'd [said] Colliery to allow (as at present) 10 yd's [yards] to a Wining [winning], The Breadth of the Bords & Thickness of the pillars to be more regular, & the length of every pillar not to Exceed 30 yd's [yards] & the holings not to be open'd [opened] above 2 yd's [yards] wide. It is our opinion to make the pillars more than 30 yd's [yards] in length will be great means for making the unregular and must be detrimental when a Second working is made, will also recommend Hirving [holing or wedge-shaped excavation made at the bottom of the coal by the hewer] the bords that they do not exceed (in the Front) 18 Ins [inches] in height w'ch [which] method of working will make the Coals more marketable. Wee [we] find also that very little regard has been paid to the water'l [waterlevel] Drift & Air courses therefore wee [we] recommend (for the future) that a barrier of Ten yd's [yards] of whole Coal may be left on each side of the waterlevel Drifts to prevent Creaps, Thrusts [the gradual lifting of the floor or the gradual caving of the roof and sides caused by the weight of the surrounding strata] from stoping [stopping] the same, w'ch [which] will be great preservation to the remaining part of the Coll'y [colliery] to the westw'd [westward].

Wee [we] have also Calculated the Expence [expense] of holing the pillars at 30 yd's [yards] and holing at 40 yards and find the Difference on working 1000 Tens of Coals to be near £7

Edw'd [Edward] Smith

Chris: {Christopher} Bedlington

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Friday Octo' [October] 16th 1767 at Newcastle making Tanfield Moor Conting't Bills & Tanfield Moor Bills etc.

Saturday Octo'r [October] 17th 1767

Measur'd [measured] the Carpenter work of Gateside Fell Colliery belonging to Mr Jona: [Johnathon] Ormston & Co.

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[CHECK PAGE CONTINUITY]

it will be right to fix the Low sett [set] of pumps before any More Drifting be made. Ann pit is now Sunk 1.0.0.0 Fa's,yd's,feet,Ins [Fathoms, yards, feet, inches].

North Biddick Monday Octo'r [October] 19th 1767

I find there are nothing done tow'ds [towards] the New wining [winning] if this Colliery. I agreed w'th [with] Edward Bonass to make the Brattice & putt it in the East pit 3s 6d [three shillings and sixpence] pp [per] Fath'm [fathom] & also to putt [put] a Brattice in the Middle pit (from a Drift drove between the s'd [said] East pit & Middle pit) to the bottom to keep her clean.

Fatfield same day. The main Coal Drift going tow'ds [towards] the Rush pit is now 40 yards from the Drift that won the lane pit and still uses, is now risen in all 3 feet. The Five Quat'r [quarter] Coal Drift is now 94 yards West from the Blake pit & is South 18 yards, is going to hole into the NW workings of the Rush pit to obtain a water course, is Sinking the Rush pit from the Five Quat'r [quarter]

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Coal Seam to the Main Coal Seam and is now 7½ Fathoms.

	Fa's. [fathoms]	Yd's [yards]	Feet	Ins. [inches]
Garden Pitt from the Settle Boards to the Top of the dead water in the Five Quat'r Coal Waiste	36	1	2	6
Old Engine pitt from a Crab to the Top of dead water	32			9
From the Garden pit to the Old Engine pit is Descent	4	1	2	8
	37			5
Diff'ce				11

At Newcastle Tuesday Octo'r [October] 20th 1767

Walker Wednesday Octo'r [October] 21st 1767

The workings in the Ann pitt to the NW is in much the same as in my last, the first bord the North the M:Gate [mothergate] wants ab't [about] 180 [yards] to the Thistle pit Dyke, there are still 20 yards on a front w'ch [which] keeps to a Suff't [sufficient] Number of hands at work without any double working. In the West pit the roof in the evenon South haedw's [headways] are still very bad w'ch [which] makes it very troublesome working there, is turning of some Eastwards, the Westw'ds [westwards] will not go far for the drown'd [drowned] waiste [waste] therefore means to drive no Westw'ds [westwards] Bords until the East Coal be wrought off. The remain'g [remaining] part og the work'gs [workings] are to the East & NE. the Charlotte pit is Sunk 46.0.0.9 Fa's,yd's,feet,Ins [Fathoms, yards, feet, inches].

Beamish Thursday Octo'r [October] 22nd 1767

The Borhole [borehole] pit is got to Coal work in the Main Coal Seam & the Coals seems to be discoloured w'ch [which] makes them look badly. The M:Gate [mothergate] westw'd [westward] 11 yards in & North Headw's [headways] 9 yards in. The Drift that won this pit comes ab't [about] 8 yd's [yards] on the N side of the s'd [said] pit and runs SW tow'ds [towards] the Centre pit. I went down the s'd [said] Drift to the Main Dyke w'ch [which] is ab't [about] 95 yards & is a downcast to the SW of about 8 Fa's [fathoms]. I find there are Several small

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troubles in the s'd [said] Drift w'ch [which] runs N & S but of no great consequence. There appears to be to be 3 Fa's [fathoms] of Level left between the Stone Drift on the East side of the s'd [said] Dyke & the Thill [floor] of the Coal at the Borhole [borehole] pit Shaft. Ord're [orders] were given to Thos [Thomas] Morallee to Make the North Headw's [headways] M:Gate [mothergate] Westw'd [westward] & South Headw's [headways] each 30 yards in.

Tanfield Moor Edge Thursday Octo'r [October] 22nd 1767

The Venture pit is Sunk from the Shieldraw seam to the Hard Coal & is now 3 yd's [yards] Sunk below the s'd [said] Shieldraw seam & has on ab't [about] 6 Horse Tubs of Water pp [per] Hour & I find the Most is at the Shieldraw seam ord'd [ordered] Clay Dam to be putt [put] at the Shieldraw seam to prevent the water from going down to the bottom then can draw it when the Dan fills.

Gateside Fell Friday Octo'r [October] 23rd 1767

Most of the Materials are ready at the Engine except the Jackhead pipes communication pipes Sink pipes got hands & filled the Jackhead Cistern.

Byker Saturday Octo'r [October] 24th 1767

The South Headw's [headways] to the West from the Venture pit still dips at the rate of ab't [about] 1 yd in 3½ yd's [one yard in 3½ yards]. There is one West'd [westward] turn'd [turned] off w'ch [which] I ord'd [ordered] to be sop'd [stopped]. I gave directions to continue the South Headw's [headways] until there be some alteration in her, went to Heaton to see Mr Ridley.

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Rise Moor Monday Octo'r [October] 26th 1767

	Fa's. [fathoms]	Yd's [yards]	Feet	Ins. [inches]
At Mickley Level'd [levelled] from the Forty Fath'm Borhole to the Batt'y pit and is descent of Ground	2	1	1	
Do. pit from the Settle boards to the Thill [floor] of the Upper M.Coal	39	1	2	4
	42	1		4

The Stone Drift at Rise Moor going tow'ds [towards] the Lane pit is now 9 yards in the 8 Fa'm [fathom] Dyke & still continues very strong stone. The Main Stone Drift is ab't [about] 23 yd's [yards] past the First Staple in the Prosperous pit work'gs [workings] & wants 54 yards to go to the New Int'd [intended] Staple in the Dogg pit workings. I find that the waterlevel Drift in the Prosperous pit has gone South Headw's [headways] course & the face is now ab't [about] 60 yards East from the Spring pit & the Coals in her is very bad. Mr Brown ord'd [ordered] and East Drift to be drove to try the Drown'd [drowned] waiste [waste] w'ch [which] is now 10 yards in and rises at the rate of one yard in

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[CHECK PAGE CONTINUITY]

Tanfield Moor edge Wednesday Octo'r [October] 28th 1767

I find the Clay Dam is put in at the Shieldraw seam as I ord'd [ordered] & the water stands there 15 Hours before there be any occation [occasion] to draw at and there are now two Horse Tubs of water below the s'd [said] Seam she is now Sunk near 5 yards.

Gateside Fell October 29th 1767

Met Mr Brown, Mr Liddle, Mr Ormston & Doctor Scurfield and went to View the works done at this Colliery. Went first to the Staith & examin'd [examined] her. Mr Brown recommends a Brick Floor edgeways and to Make ab't [about] 5 feet Breadth of plank in the front part of the Staith, he also recommends t screw on some Horizontal pieces to each pair of Gears & also to the uprights w'ch [which] supports the roof, and instead of Spykes in the Guns he w'd [would] rather had screw Bolts, went up the Waggon way to the Colliery. Mr Brown thinks the Best pit is too

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near the Ann pit he examin'd [examined] all the works & Materials ab't [about] the Engine & approves of everything except the pumps w'ch [which] is turn'd [turned] w'th [with] the Faucit en up went to w'th [with] the Gent'm [gentleman].

Gateside Fell Boring near the Society House

From the Surface

	Fa's. [fathoms]	Yd's [yards]	Feet	Ins. [inches]
To the Tard Coal Seam	37			
To the Bansham Coal upper level	9	1	1	11
To Do. Low part	1		1	2
To the Six & Five Quart'r Coal	13	1		9
To the Low Main Coal Seam	9			
Total	70	1		10

Walker Friday Octo'r [October] 30th 1767

I went down the Charlotte pit & Examined [examined] the Brattice and finds in many places there are opportunities [sic] for the Air to escape without going to the bottom. I ordered [ordered] John Dawson to get these places secured and to make the Brattice communicate with [with] the Cube

Saturday Octo'r [October] 31st 1767 at Newcastle.

Sunday Novem'r [November] 1st 1767 at Throckley.

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Fatfield Monday Novem'r [November] 2nd 1767

I find the pitmen are all sticking [striking], for reason of the Corves being too large, they are bound to 20 pecks, and by Measuring them there are some 19, 20, 21, 21½ pecks w'ch [which] must certainly be designed [designed] so otherwise there could not be so much difference. I told the workmen, had they continued working, they would [have] been Redressed for the Loss they have on that account [account] but so long as they stick'd [struck] their Complaint would never be heard.

Tinmouth Moor Tuesday Novem'r [November] 3rd 1767

The Engine House Near Greens Gate is now completed [completed] in the Mason work except the Covering and I find the Masons have been neglecting very much. Mr Brow gave directions for the Engine House to be Measured [measured] of [off] tomorrow & to have Acco'ts [accounts] settled before any more money be paid, gave the Carpenters

[NEIMME-East-10b-141]

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Tinmouth Moor Wednesday Novem'r [November] 4th 1767

Measured the Mason work of the Engine House

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Beamish Novem'r [November] 5th 1767

In the Borehole pit which is ab't [about] 43 Fathoms deep to the Mean Coal Seam she is won by a drift from Urpeth Bourn drove first in Stone and then in Coal to the s'd [said] pit & the Main watercourse in the s'd [said] Seam is ab't [about] 8 yards to the North from the Shaft. The Seam is in

general 53 Ins [inches] in thickness I find the North Headways is drove 16 yards, the M:Gate [mothergate] West'd [westward] 19 yards and the South Headways 20 yards from the Shaft, the Coal looks very well and much better coular [colour] than I have ever seen that seam.

Went w'th [with] Mr Brown & view'd [viewed] the Grounds near the Flatts & from there to Chesterle -Street.

Friday Novem'r [November] 6th 1767 at Newcastle went & laid out some Fir Timber for Plessey Colliery of Mr Geo [George] Anderson.

Gateside Fell Monday Novem'r [November] 9th 1767

When I went in the Morning to get every material ready to start the Engine, the Sink pipe was not come from the Foundary [foundry] I sent immediately and goy it out and at ab't [about] one o'Clock got the [engine] to work which perform'd amazinly [performed amazingly]. Tuesday got all the pumps wedg'd [wedged] and everything done in the House ready to sink.

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Heworth Wednesday Novem'r [November] 11th 1767

I find the Old Engine Pit is working to the NE from the Shaft at about 300 yards upon a mean and the dip is very sore there is nothing done tow'ds [towards] getting the NW piece of Coal ready. In the Second pit the M:Gate [mothergate] East'd [eastward] in the Mettle Coal seam is drove 90 yards and got the Dyke a downcast to the South of ab't [about] 9 Fa's [fathoms], and the South Headways is now 150 yards. I find the Waterlevel Drift in the dip side of the s'd [said] Dyke is ab't [about] 100 yards East from the s'd [said] Headw's [headways] and drove 13 yards in, in the Main Coal Seam. I find the bords are drove 5½ yards & 6 yards wide & the pillars 5 yards and 6½ thick. There is not the regard paid to separate the Hirvings [cuttings] properly as may be. I find in some of the Bords, very few are cast.

Plessey Thursday Novem'r [November] 12th 1767

In the Rose pit is putting a Tub dam at the upper Main Coal S'm [seam] the Caulking Crib is laid ab't [about] 12 Ins [inches] below the Thill [floor]. I thought there was not a good foundation ord'd [ordered] ab't [about] 4 Ins [inches] more to be taken down and to be made sufficient at bottom, the top will join a very close strong stone & as the Length of the Tub will not outset the water, may secure her at Top. The Cutt near Hartford bridge will be compleated [completed] in a very short time. The Wheel hole for the Intend'd [intended] New Wining [winning] is finished, the Length of which at Top is 33 Feet 10 Ins [inches] & breadth 6 feet where the wheel has to run in & in that part where the Axel tree [an axle made of wood] rests is 11½ Feet in height from the Top of the neck, 8 feet in breadth and 7 feet in length. I measured the whole to 230 yards at 5s 6d [five shillings and sixpence] pp [per] yard £63:5 [sixty-three pounds and five shillings].

[NEIMME-East-10b-144]

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Tanfield Moor Edge Friday Nov'r [November] 13th 1767

I find the Venture pit goes very slowly forw'd [forward] w'th [with] the Sink'g [sinking]. I measured her from the Shieldraw seam to the to the bottom to 4:1:1:- Fa's:yd's:feet: Ins [fathoms:yards:feet:inches].

Is working the Success pit in the Hard Coal to the NW in the Pillars and SE in the Whole Coal, the Dyke pit is work'g [working] in the Brass Thill Seam to the NW and NE to the Main Dyke.

Tanfield Moor Friday Nov'r {November} 13th 1767

I find the riding [ridding (clearing and removing of loose material)] of the Hobson's pit comes very expensive pays 8s pp [eight shillings per] Fathom for ridding and this pay the Extra'y [?water lies?] of 32s [thirty-two shillings]. The Stone Drift going through the Main Dyke is in very strong Stone & ab't [about] 20 backw'd [backward]. I ord'r [ordered] her to be made Horse Height and Timbered where the Cover is bad.

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Gateside Fell Tuesday Novem'r [November] 17th 1767

Is sinking the Engine pit and very unlucky the bottom part of the working Barrel unjointed therefore is oblig'd [obliged] to Draw the pumps, I stopt [stopped] there most all the day and got to work to draw out the spears etc.

Wednesday Novem'r [November] 18th 1767

The pay day at Walker but I could not go being not well.

Tinmouth Moor Thursday Novem'r [November] 19th 1767

I find the Colliery at Preston Moor has taken a Creep and the working are quite stop'd [stopped] went down the Luckey pit and finds the walls are not at all breaz'd or Chrush'd ab't [about] the Shaft, and also on the North side of the even on North Headways, w'th [with] Much difficulty got through to the Good intent pit but could not proceed into the workings ord'd [ordered] G: Claughton how to secure the Shaft and not to make any further attempts to work Coals until the waiste [waste] be more settled.

Friday Novem'r [November] 19th 1767 at Newcastle all day wrighting [writing].

Tanfield Moor Monday Novem'r [November] 23rd 1767

Went to Mr Newton's & Examin'd [examined] the pitmen's Bonds for the Agreement for Next year. It is not very well Express'd [expressed] in many Articles but may be understood. I w'd [would] have Mr Newton to make the Bond w'th [with] a Clause in it to oblige the pitmen not to work in any other Colliery without the Consent of William Pit Esq. or his Agents but he w'd [would] not. The Hobson's pit is not ridded out [clearing and removing of loose material] in the Brass Thill seam.

Tanfield Moor edge The Venture pit is Sunk 6:-:-:- Fa's:yd's:feet: Ins [fathoms:yards:feet:inches].

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Beamish Tuesday Novem'r [November] 24th 1767

Measu'd [measured] the Mettle [metal] work at Handen howl for Messrs Lows & Fish

	£	S	d
To 17011 yards @3d pp yard	212	12	9
296 Fothers of stone valu'd by Wardropper @ 2d pp	2	9	4
158 Do. Lead	1	6	4
	3	15	8
Total	216	8	5

Gateside Fell Wednesday Novem'r [November] 25th 1767

Mark'd [marked] out the Cistern hole for the first set of pumps to stand in at ab't [about] 29 Fa's [fathoms] from the Settle boards and 26 Fa's [fathoms] from the Deliv'y [delivery] Drift. I agreed w'th [with] Hen'y [Henry] Renwicks to cut it out for £11. Measu'd [measured] the Sandy hole at the Best pit.

Tanfield Moor Monday Novem'r [November] 26th 1767

The Main Stone Drift is now ab't [about] 91 yard from the East pit an 44d yards in Stone drift, pays 18s [eighteen shillings] pp [per] yard the undertakers finds sharpening [fine grained sandstone], Candles, Gunpowder etc. etc. Is working the Brook pit and Flatt pit in the Hutton seam and 24 Score pp [per] day. I examin'd [examined] the Bills as usual.

Tanfield Moor edge Monday Novem'r [November] 26th 1767

The Sinking in the Venture pit goes on very slowly has only got 8 Inches Since last Monday mostly all the Slydes [slides, upright rails] are fix'd [fixed] for the working of the Engine to draw the water to the deliv'y [delivery] but hopes there will be no occation [occasion] until She be sunk to the Hard Coal seam.

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Newcastle Friday Novem'r [November] 27th 1767

An Agreement for Sink'g [sinking] Beamish Engine & keeping the Engine.

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For Plessey Friday Novem'r [November] 27th 1767

Hohn Reeds Acco't [account] for building a Bob Gin and other work at Plessey Colliery.

	£	S	d
For joyning [joining] planks and putting them in the Rose pit 16 feet @ 10s 6d pp Fathom	1	8	
Making 7 Cribs @2s & 1 Crib 3s		17	
For building the Bob gin & making Troughs on Acc't (makes 25£)		15	
£	3		

Saturday Novem'r [November] 28th 1767 at Newcastle.

Tanfield Moor Monday Novem'r [November] 30th 1767

Saw Mr Newton and agreed w'th [with] him ab't [about] the prices to be putt [put] into the Bond w'ch [which] I make no doubt but the pitmen will consent to work at the prices. There are nothing material since my last Acco't [account] og this Colliery, at Tanfield Moor edge the Sinking goes very slowly forw'd [forward] & lett [let] her to Wm [William] Carr for £4 pp [per] Fathom

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Rise Moor Tuesday Decem'r [December] 1st 1767

The Stone Drift going tow'ds [towards] the Lamb pit is now 20½ yards in the 8 Fathom Dyke 7 wants 39½ yards to the s'd [said] pit. There is a pretty hard stone and costs 31s 6d pp yd [thirty-one shillings and sixpence per yard] w'ch [which] is agreed for five yards. The main Stone Drift is 33 yards past the Staple in the Prosperous pit workings and wants 44 yards to go to the Second staple & from the s'd [said] staple to the mark at the 8 Fathom Dyke is 91 yards more. I try'd [tried] the Level at ascertain the depth of the Intend'd [intended] Staple (viz)

	Fa's. [fathoms]	Yd's [yards]	Feet	Ins. [inches]
Depth of the First Staple from the Levels to the stone Drift	9			6
Under level or dip of Colliery from the s'd Staple to the Settle boards of the Second Staple	2		1	5½
Depth of the Second Staple	5	1	2	½

The waterlevel Coal Drift in the Prosperous pit has run ab't [about South Headw's [headways] Course for 50 yards and the face of the water Level is ab't [about 70 yards East from the Spring pit ord'd [ordered] her to be drove East w'ch [which] is done & now got 17 yd's [yards] in but no appearance of the drown'd waiste [drowned waste] & the Coal in her continues very bad & Troublesome & rises that way at the rate of one yard in four. The Dogg pit workings will cut fast off to the 8 Fathom Dyke, therefore to push the Stone Drift to win the 8 Fathom Dyke is most advisable.

Walker Wednesday Decem'r [December] 2nd 1767

The East working in the west pit below the Engine Level cuts off very fast tow'ds [towards] the dip Dyke w'ch [which] runs NW & SW therefore that part will not be of long continuance & the Charlotte pit will not be down in less than Ten Months. I strongly recommend to work the pillars in that part by taking a judd [undercut] of 1½ yd's [yards] off each wall w'ch [which] will be a means to shorten the putting of the Coals. The

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workings in the Ann pit is in much the same situation as ment'd [mentioned] I my last. The Charlotte pit has advanced very little in the Sinking for has been putt'g [putting] in some end ways pieces of wood to stop the water.

Tanfield Moor Thursday Decem'r [December] 3rd 1767

I find Mr Newton has bound ab't [about] 35 men to work at the Colliery w'ch [which] is too many, last Monday when I was w'th [with] him he promis'd [promised] not Exceed thirty w'ch [which] is Suff't [sufficient] to work the Quantity of Coals & more providing they were allow'd [allowed] to work more Coals in the winter but I am persuaded Mr Newton has some Intention to forw'd [forward] Tanf'd [Tanfield] Town Head Colliery w'th [with] some of these Hands when that Coll'y [colliery] is ready. The Stone Drift is still very strong in the Main Dyke & the diff't [different] strata's [sic] of stone rises at the rate of ab't [about] 1yd in 2 yds [one yard in two yards]. I find the s'd [said] Drift is going at near right angles through the s'd [said] Dyke.

Tanfield Moor edge Thursday Decem'r [December] 3rd 1767

The Sinking of the venture pit goes on apace since I intend'd [intended] to Lett [let] her to Wm {William} Carr for 4£ pp [four pounds per] Fathom, she is now Sunk 6.1.- Fa's,yd's.feet [fathoms, yards, feet] below the Thill [floor] of the Shieldraw seam.

Plessey Friday Decem'r [December] 4th 1767

I measured the Mettle [metal] work at the for the Bob gin & finds the Content to be

John Preachers [account]	£	S	d
1312 yards at 2½ d pp	13	3	4
391 Do. of stone work at 2s 6d pp yard	48	18	9
John Gibson's Acco't [account]	62	12	1
378 yards at 2½ d pp	3	18	9

I find there are ab't [about] 20 Tens of round Coals resting at the South & Spring pitts & ver small prospect for Trade there are Large Heaps of small coals. I exam'd [examined] the Sub work in the rose pit main Coal seam w'ch [which] is not very well done. The waggon ways to that pit will be done in two weeks time ord'd [ordered] the North Headways & Souyj Headways to be set away to get out places in the Low seam. I find the places for the Headstock are cut & the Headways stock fix'd [fixed] at proper distance for the Axel tree [an axle made of wood]

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for the Bob gin. Ord'd [ordered] John Reed to get forw'd [forward] & get the wheel putt [put] together as the wining [winning] of this Colliery is total stop't [stopped] until the wheel be fix'd [fixed] and got to work.

Saturday at Newcastle

Tanfield Moor Monday Decem'r [December] 7th 1767

I took the Horizontal situation if the intend'd [intended] waggon way from the East pit to the joining of the ways at the Edge and Ling pit Branches and have considered the Expencc [expense] of different ways first by way of the Ling pit and thro' [through] Cleugh dean

{viz} Look forward

[1 st By way of the Ling pit]	£	S	d
Laying 800 yards of waggon way & finding & wood @ 3s 4d pp	133	6	8
7600 yards of Cutt (BB on the Plan) at 4d pp	127	3	4

	yards			
Bridge over Cleugh dean if done with Mettle	14000			
Deduct as above	7600			
	6400 at 3½d pp	93	6	8
Battery South from Cleugh dean & heap stead	3700 at 3d pp	46	5	
Making Cond't thro' Cleugh dean	26 yds @8s pp	10	8	
A Small Do.	14 Do. @2s pp	1	8	
	£	411	17	8
2 nd By way of the Cape pit				
810 yards laying beating & filling @ 3s 4d pp		135		
6300 yards of Cutt & Battery @ ¼d pp		220	13	7
Raising the pit Top 6 feet & allowing the Gin		20		
Making two Cond'it 15 yards long @ 3s pp		2	5	
Levelling the way from the Cape pit		10		
	£	287	19	7
150 yards more leading than by the Ling pit	diff'ce £	23	18	1

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Gaside [Gateside] Fell Tuesday Decem'r [December] 8th 1767

The Cistern hole is cut for the first set of pumps to stand in and everything ab't [about] her compleat [complete], shew'd [showed] James Clark how to fix the sett [set] of pumps. Is rooming [prepare a working place] the Best pit to the Yard Coal seam & intends to continue her forward until the water lay the Sinkers off.

Byker Wednesday Decem'r [December] 9th 1767

Lind [lined] all the workings in St Anthonys to the South & West from the Venture pit ord'd [ordered] a west drift to be Drove from near the 15 feet Upcast Dyke Westward to try the Coal there and if turns out to perfection may then continue to sink, to the SW is much entangled in troubles, is oblig'd [obliged] to stop the proceedings there.

Tanfield Moor Thursday Decem'r [December] 10th 1767

The main Stone Drift going through the Dyke goes on apace is now in a very good working stone. The Hobson's pitt [pit] is Ridd'd [ridded clearing and removing of loose material] out to the Brass Thill sm [seam] and there appears to be a slope hole to take down the water to the Hutton Seam w'ch [wich] the workmen intends to make a tryall [try] to loose it if they are to take their own methods. The Brook & Flatt pits are working at the rate of 21 Score pp [per] day with a 20 peck Corf.

Tanfield Moor edge Thursday Decem'r [December] 10th 1767

The Venture pit sinking advances very slowly & now cost at rate £20 pp [per] Fa'm [fathom]. I agreed w'th [with] Wm [William] Carr to sink her to the Thill [floor] of the Hard Coal seam for £4 pp [per] Fa'm [fathom] or until there exceed Six Horse Tubs of water pp [per] Hour. Is working the Success pit in the Hard Coal seam in the pillars to the NW and a part in the whole Coal to the SE. The Dyke pit is working the whole Coal Brass thill seam to the NW.

[NEIMME-East-10b-153]

Washington Friday Decem'r [December] 11th 1767

The proceeding in this Colliery are very small for I find the Engine sump is putt [put] down ab't [about] 4½ feet below the Main Coal Seam and has taken out 3 feet of Level out of the Sump and gone 18½ yards Eastw'd [eastward] w'ch [which] extends to the Barrier to be left ag't [against] the Boundary of 30 yards in breadth has drove a South Drift along the Barrier and is now 14 yards in. Intends to continue it 11 yards further and then to drive Westw'd [westward] Course hole into the evenon South Headways intend'd [intended] to be drove from the First Coal pit. The ventilator Boxes are very bad w'ch [which] causes a bad Air in the Drift. I order'd [ordered] Edw'd [Edward] Bowness to go down and get them secured before any accident happens, ord'd [ordered] Thos [Thomas] Bedlington to push the North Headw's [headways] w'th [with] all speed and also the South Headw's [headways] to the distance of 25 yards.

North Biddick Friday Decem'r [December] 11th 1767

The East pit has got the Brattice putt [put] in from the 20 Fathom Drift to the bottom and is ab't [about] 45 Fa's [fathoms] Sunk to a parting in the Stone where there is a great Quantity of Inflammable Air & 11 Tubs of water pp [per] Hour. I ord'd [ordered] Mark Robson to cut out room for some end ways pieces of wood to stop the water. The Venture pit is laid in & Mr Brown ord'd [ordered] that the SE working mat be drown'd [drowned].

Saturday Decem'r [December] 12th 1767

Making a plan of the Intend'd [intended] waggon ways from the East pit on Tanfield Moor.

[NEIMME-East-10b-154]

Monday Decem'r [December] 14th 1767

At Newcastle laying down some Lining of Tanfield Moor.

Rise Moor Tuesday Decem'r [December] 15th 1767

The Main Stone Drift is drove 37 yards from the Prosperous pit Staple and wants 40 yards to the Second Staple is now Sunk 3 Fa's [fathoms] & wants 3.1.2 Fa's.yd's.feet [fathoms, yards, feet] more to the Level of the Stone Drift ord'd [ordered] the s'd [said] Staple to be push'd [pushed] & when gets her sunk to the Level of the s'd [said] Drift may then Drift Eastw'd [eastward] to meet the present Drift & westw'd [westward] tow'ds [towards] the 8 Fathom Dyke. The West Stone Drift in the dogg pit is now got 25 yd's [yards] in the s'd [said] Dyke & wants 35 yards more to the Lamb pit and is now in a tollerable [tolerably] good work'g [working] Stone. I find the Lamb pit is Sunk & Bor'd [bored] 20 Fa's [fathoms] & the Stone is very strong. The Prosperous pit work'g [working] is nearer the Old Engine pit than the Prosperous, therefore thinks it advisable to lay off the Prosperous pit & work the Dogg pit only the East Drift from the South Headw's [headways] in the s'd [said] Prosperous pit is 40 yd's [yards] in

[NEIMME-East-10b-155 & 156 – pages missing]

[NEIMME-East-10b-157]

Stella Wednesday Jan'ry [January] 6th 1768

Taking a Valuation of the Staith ongate & offgate and the loose Materials ab't [about] the Staith.

Fatfield Thursday Jan'ry [January] 6th [7th] 1768

Measured the Coal heaps resting at this Colliery as under (viz)

	Tens	Bolls
Plain pit	41	240
Rush	15	210
Blake	18	
Lane	33	
Chance pit Old Coals	8	015
Do. New Coals	9	300
Garden pit	22	
	147	345
Ded't Coals resting last yr	40	105
Total resting this year	107	105

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Yesterday was the first day the pits got to work, ord'd [ordered] Wilson to push the North Headw's [headways] to Harraton outside & that a barrier of whole Coal be left on Fatfield side next the boundary of 20 yards & on Harraton outside next the boundary of 30 yards. Went to Mr Hudson's & met Mr Brown Mr Jen: Shafto & gave Thos [Thomas] Bedlington directions ab't [about] Washington.

Pelton Friday Jan'ry [January] 8th 1768

Met the tenants of Sir Ra: [Ralph] Milbanke Baro't [baronet] at this place & told them Sir Ra: [Ralph] is very desirous that should oblige & accommodate Mr Jennison & part's [partners] in Leading Coals from Pelton Moor Colliery to Fatfield Staith until Mr Davison be ready to lead Coals, the most of them seem'd [seemed] to be desirous to oblige Mr Davison, got the pitmen together, & told them if Ten of them were willing to go to Throckley as they have no employment they may do so.

Beamish Friday Jan'ry [January] 8th 1768

I was down the Engine pit w'th [with] Mr Brown & had on the Centre Line & I find she is not large enough told Adamson the Sinker to make her proper size she is now sunk 25.1.1.6 Fa's.yd's.feet.Ins [fathoms, yards. Feet, inches]. Mr Brown ord'd [ordered] some more pumps to be made and a Cistern for the first sett [set] of pumps to stand in.

Saturday Jan'ry [January] 9th 1768 at Newcastle.

Washington Monday Jan'ry [January] 11th 1768

I find the pitmen are sticking for more price for driving the Drifts & Headw's [headways]. I Lett [let] the West Drift to dive out of the North water'l [waterlevel] w'ch [which] will be ab't [about] 40 yards for 4s pp yd [four shillings per yard] & there was 5s 6d [five shillings and sixpence] paid before, also the North Headways Drifts for 3s pp yd [three shillings per yard] the men to drive the Drifts put the Coals and hang them on find Candles etc. etc. I also agreed w'th [with] Thomas Parliament to sink

the Second Coal from the places she is now Sunk to (viz 17 Fathoms) until there be Six Single Horse Tube of Water pp [per] Hour or to the depth of 30 Fathoms. The s'd [said]

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Parliament to find and provide such number of hands as he thinks proper, find Candles, Sharping [fine grained sandstone], Gunpowder etc. for £4 10s [four pounds and ten shillings] pp [per] Fathom. The owners to find Horses to draw the Stones. I order'd [ordered] Edw'd [Edward] Bowness to get the Coal Gin sett [set] up as soon as the west Drift is hold [holed] out of the Bounder Drift into the evenon North Head's [headways] and at the same time the Shaft may be got wall'd [walled] for the Lamp to stand in.

Tinmouth Moor Tuesday Jan'ry [January] 12th 1768

The New Engine near Green's Gate has got to work and performs amazingly only wants ater to supply the Jackhead therefore is oblig'd [obliged] to stand until more water be got. I am of opinion the water may be easily brought from the Old Engine to the New one to supply the working. Mr Brown ord'd [ordered] a dam to be made to turn the water into the Jackhead Sump & not to have the Old Colliery water for that purpose, will have some difficulty to get through the Clay & get the Shaft properly secured.

Wednesday Jan'ry [January] 13th 1768 at Newcastle all day.

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West Aukland Thursday & Friday Jan'ry [January] 15th & 16th 1768

I examin'd [examined] the State & Situation of this Colliery and made sketch of the workings. The waterlevel Drift to the NE has advanced very little these two months past notwithstanding directions were given to forw'd [forward] her w'th [with] all speed as the workings to the Northward is further continued than the s'd [said] Waterlevel w'ch [which] the s'd [said] waterlevel is now drove ab't [about] 60 yards from the first Coal pit and is now 23 yards East from the evenon North Headw's [headways]. I ord'd [ordered] the North Headw's [headways] to be set on to win out places as the roof there seems to be very good, & also the SW water'l [waterlevel] Drift & four Bords there. The present workings are to the Westward near the Rise pit w'ch [which] may be wrought as convenient to that pit & w'th [with] trams [stout board attached to two axles and capable of being propelled along by a pitman using his leg while squatting on the board] as the roof to the rise is bad. The working to the Rise pit is 5 Score pp [per] day w'th [with] a 16 peck Corf, I don't see any reason why two pits should be carried on for such small Quantity. I recommend to work the pit near the Engine only. I find Russell the overman & Mr Hubbock particular have objections to the Horses being kept underground for the use of putt'g [putting] Coals, it is very well known the Coals can be putt at an easier rate by Horses than by men or Lads & especially where great distances. In the Rise pit the M.gate [mothergate] west'd [westward] is advanced ab't [about] 60 yards & on the N [north] side are seven Bords wrought under the top, pays 20d [twenty pence] pp [per] score Hewing. The North Drift intend'd [intended] for a Dayhole is now 20 yd's [yards] in & standing for want of Deals [planks] to the Ritt [vertical cuttings in the shaft for receiving boxes to convey the water from the rings]. I ord'd [ordered] her to be drove w'th [with] 3 Men & to go 33 yd's [yards] further North & then

Westward course I made a Calculation of the Expence [expense] of working the Engine & had some talk with J. Craw ab't [about] agreem't [agreement] but could make none.

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Witton Castle Thursday Jan'ry [January] 15th 1768

There have been no Coals wrought at this Colliery for some time has been drifting to win the Coal on the Rise side of an upcast Dyke to the Westward & has at last got the Coal, the water'l [waterlevel] Course above the s'd [said] Dyke appears to tun ab't [about] NW. There appears to be ab't [about] 15 feet of Level at the s'd [said] Dyke. I find by Lining the west Drift from this Coal has gone through the Bound'ry [boundary] as the plan will demonstrate. The first Dyke got from the Coal pit at 99 y'ds [yards] distance appears to be a downcast to the west'd [westward] of 12 feet. I sett [set] out a New pit at 50 yards from the face of the Drift & 41 yd's [yards] from the Boundary and agreed with the pitmen to Sink her for 25s [twenty-five shillings] pp [per] Fathom.

Lin'd [lined] from the Coal pit Shaft at Witton Castle

[Seam]	[° [degrees]]	Ch Lin [Chains.Links]
1 st	S72½W	2.06
	118 Lin: another Headw's 86 yards & west'd 30 yd's to a downcast trouble 5 feet	
	Do. 121 Do. an upcast to NE 4 feet	
	Do. 165 Do. to the face & a West Drift 27 yd's to face	
2 nd	S80W	2.06 C.Lin.
3	S97W	2.33 C.Lin.
	At 20 Lin: a downcast Dyke to west 12 feet	
	233 is an upcast Do. feet	
4	S78W	0.97 C.Lin.
5	N22W	.36 To the face of the Drift
	From the Shaft to the Boundary 1.82 C.Lin.	
	From the face of the Drift Course to the New Intended pit is N50W 50 yd's	
	From Do. pit To the Boundary 41 yards	
	From Do. pit To the Dyke 40 yards	

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Tanfield Moor edge Monday January 18th 1768

Went w'th [with] Thos [Thomas] Gibson with an intent to View the workings in the Venture pit Hard Coal seam but the water was not drawn out therefore was prevented, the pitmen seems to make objections ab't [about] the prices of the Hewing & putting w'ch [which] is 16d [sixteen pence] pp [per] score w'th [with] a 12 peck Corf.

Beamish Monday Jan'ry [January] 18th 1768

John Hall has begun to dress the pump staves & got planks for the Cistern for the First sett [set] of pumps to stand in measured the Engine pitt [pit] to 26½ Fathoms.

Mett [met] Mr Simpson at Pelton & went to view the Stellas Grounds & Breckin Bedds w'ch [which] Mr Westall has the Low Seams of Coals & finds by computation to be [] Acres.

Stellas [MISSING DATA]

Breckin Bedds [MISSING DATA]

Total [MISSING DATA]

Ouston same day

Took a Valuation of all the Materials at the Corner pit belonging to Sir Ra: [Ralph] Milbanke Baro't [baronet] & now in possession of Mr Lowes (viz)

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Went down the Corner pit to the Five Qua'r [quarter] Coal seam & mark'd [marked] the place to be wrought into Lowse's Estate. I agreed w'th [with] the men to Hew & put the Coals.

Longbenton Tuesday Jan'ry [January] 19th 1768

Led to the Staith

	Waggons	
Second pit	926	
Bent	9015	
Apple	16870	
Choice	6553	
Plumb	1976	
	35340 Waggons at 19 Bolls to a waggon & 22 waggons to a Ten	
	Tens	Waggons
	1606	8
To fire Coal sold to several this year	42	4
	1648	12 at 15s pp £1236.8.2

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Tanfield Moor Thursday Jan'ry [January] 21st 1768

The Main Stone Drift going to win the Hard Coal Seam in the dip side of the Main Dyke is now in Coal 47 yards & Stone 83 yards. The Course of Stone deems to streak more regular now rises to the Westw'd [westward] at ab't [about] 1 yard and in 3 yards. I greed w'th [with] Geo. [George] Humble & partners to drive 50 yd's [yards] for 22s [twenty-two shillings] pp [per] yard.

Tanfield Moor edge Thursday Jan'ry [January] 21st 1768

The North Headw' [headways] in the Venture pit Hard Coal seam i1 11 yd's [yards] in & the cover is very bad, there is one East Bord turn'd [turned] & one Westw'd [westward], the Coal is very good and 4 feet 9 ins [inches] high, agreed to pay 18d [eighteen pence] pp [per] Score for Hewing & putting the Coals w'ch [which] the Men seems not to be agreeable to, notwithstanding they are bound to work the seam for 20d [twenty pence] pp [per] Score Hewing with a 20 peck Corf. Ord'd [ordered] Wm [William] Puncheon to gett [get] the Ait Brattice putt [put] in & the pumps as soon as

they are ready, also ord'd [ordered] the Stone above the Hard Coal seam to be pull'd [pulled] down to raise the Shaft & Consequently make a better Sump.

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Ouston Thursday Feb'ry [February] 25th 1768

Took a Valuation of the waggon ways from near the Corner pit to Pickton bank head belonging to Sir Ra: [Ralph] Milbanke Baro't [baronet] for Morton Davison Esq.

No.		C. [chains]	Lin. [links]	Yd's [yards]
1	Branches at the pit			
	Single Main way	2		
	Double False Tails			23
	Iron plates			3
2	From the joining the main Branch o the first gate on the W:gate			
	Single & double Main way	12	90	
	Double False Tails			34
	2 Gates and 4 Good posts			
	NB Sleepers 2 feet Distance upon a Main			
3	From D. Gate to a Crane			
	Double Main way	29	66	
	Double False Tails			52
	31 Old Sleepers			
	10 yd's New Beach rails			
	2½ yd's of Iron plate			
	2 Gates and 4 posts one small gate & one Crane			

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[NEIMME-East-10b-178 to 181 – pages missing, following pages previously inserted here which appear to come from missing pages from the end of this volume]

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Washington Wednesday March 16th 1768

Went w'th [with] Mr Brown in the morning to the Colliery and finds the Coals works bit Indifferent, enquired ab't [about] the workings and am told be Thos [Thomas] Bedlington that Mr Askell and Mr Russell ord'd [ordered] a Coal Drift to be drove from the workings in the present Coal pit in a Direct Line to the New pit to the NW and if that drift was not drove w'th [with] all speed they w'd [would] advance no more Cash on the Colliery Acco't [account] and from their saying so Thos [Thomas]

Bedlington begun the s'd [said] Drift w'ch [which] is much the contrary way of working Collieries that are subject to [?Foul Air?]. The NE Drifts by the Barrier dips the way they are going. I recommend that they may be turn'd [turned] more west and not to run them under level in any part not to drown them, went down to the Staith and fix'd [fixed] on the Staith, also measured the Length of the Waggon way from the Coal pit near the Engine to the Staith

Turn over Viz

[NEIMME-East-10b-183]

Washington measur'd [measured] the waggon way

	Cha. [chains]	Lin. [links]
From the First pit heapstead to the joining Mount Moor waggon way	6	40
From the said joining to a Quick hedge near Oxclose Battery	5	90
From the s'd Quick hedge to the North end of Oxclose Battery	2	61
From the North end of Oxclose Battery to the First Gate on the waggon way near a Red House	10	16
From the s'd Gate to the road that Leads from North Biddick to Washington	35	85
From the s'd Road to the place where the Int'd Road for Washington leaves Mount Moor w.way	36	20
From the leaving of the s'd Way's to the Int's ongate end at Coxgreen	36	85
Whole Length	133	97

The Length of the Ongate from the head stock to the Front of the Key [quay] is 56 yards from the Front of the Key [quay] to the Turn Rail 33 feet from the Front Turn Rail to the Back Turn Rail 30 feet and from the Back Turn Rail to the back wall of the Staith 30 feet makes the whole breadth 93 feet; height at the Turn Rail 24 feet to the top of the [?], and the Length 64 yd's [yards] or 4 Keel [?berths?], mark'd [marked] out the waggon way & took the height of the Batterys and depth of the Cutts.

North Biddick same day

The Middle pit is Sunk to the Main Coal Seam and Slydes [slides, upright rails] fix'd [fixed] from the Engine to the s'd [said] pit and a sett [set] of pumps ab't [about] 3 Fathoms above the s'd [said] Main Coal Seam w'ch [which] delivers the water to the Engine Cystern where the top sett [set] of pumps stands in. The East pit is Sunk one foot into the Five Qua'r [quarter] Coal and got such a feeder of water is oblig'd [obliged] to leave off Sinking, in order to win the Maudlin Seam and also the Main Coal Seam to the Dip of Colliery. Mr Brown recommends to room the Engine pit from the Five Qua'r [quarter] Coal Seam and take down a Brattice for Air rom that seam to the bottom of the Engine pit and then to Sink the present Engine pit ab't [about] 9 feet below the Thill [floor] of the Main Coal Seam w'ch [which] will win the East pit; when that is done bore the East pit to the s'd Drift then can (at pleasure) Sink down to the Maudlin Coal [?]

[NEIMME-East-10b-184]

may be put in execution as soon as possible.