

– Jan 1770 to Dec 1773

by John BUDDLE Senior

<p align="center">Bud   66</p> <p align="center">Bud-66</p>	<p align="right">[1]</p> <p align="center">Bushblades Colliery,</p> <p align="center">Memorandum:</p> <p align="center">From Jan. 1770. -----                  Jan. 1773. -----                  to Jan. 1774. -----</p> <p align="center">N.B. 3 Pit Candles will burn 7 Hours.</p> <p align="center">J.B.</p>
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<p>[2]                      Jan. 1770.                      [Bud-66]</p> <p>Moslin &amp; Dawson a Bargin of Pulling                  down Stone in the East<sup>d</sup>. Mothergait                  Middle Pit Hutton Seam. -----</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td align="right">£. s. d.</td> </tr> <tr> <td>22 Yards ----- at 18<sup>d</sup>. ---</td> <td align="right">1..13..-</td> </tr> <tr> <td>17 Days Works --- at 1<sup>s</sup>/ 11<sup>d</sup>. -</td> <td align="right">1..12..7</td> </tr> <tr> <td>2 lbs Candles -----</td> <td align="right">-.. 1..1</td> </tr> <tr> <td></td> <td align="right"><u>£ 1..13..8</u></td> </tr> </table> <p>Obs. The Stone a Sharp Blue, Bottom 1                  Yard Wide, Top 2 Feet &amp; thickness                  2 Feet. -----</p> <p>Sinking a Stappel from Hutton S<sup>m</sup>. To 6 In.                  below little Coal 7 Feet depth. -----</p> <p>8 Hours in &amp; 8 Hours out 2 Men in      12 Shifts.                  9 d<sup>o</sup>. in &amp; 9 d<sup>o</sup>. out 3 Men. ---      11 d<sup>o</sup>.</p> <p>Bud-66</p>		£. s. d.	22 Yards ----- at 18 <sup>d</sup> . ---	1..13..-	17 Days Works --- at 1 <sup>s</sup> / 11 <sup>d</sup> . -	1..12..7	2 lbs Candles -----	-.. 1..1		<u>£ 1..13..8</u>	<p align="right">[3]                      [on Blotting Paper]</p> <p>At ----- 4 Feet                  Width ----- 4 Feet</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td align="center">16</td> </tr> <tr> <td align="center">F. B</td> </tr> </table> <p>At 9 : 8 :: 16 : <math>\frac{128}{9}</math> = 14</p> <p><u>14</u> = 4½ Corves per Yards.                  3</p>	16	F. B
	£. s. d.												
22 Yards ----- at 18 <sup>d</sup> . ---	1..13..-												
17 Days Works --- at 1 <sup>s</sup> / 11 <sup>d</sup> . -	1..12..7												
2 lbs Candles -----	-.. 1..1												
	<u>£ 1..13..8</u>												
16													
F. B													

<p align="center">Jan. 1770.                      [Bud-66]      [3]</p> <p>Conclusion of a Hutton Seam Drift, in the                  Middle Pit, to the Bore Hole at the Venture.</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td align="right">£. s. d.</td> </tr> <tr> <td>34 Yards ----- at 2<sup>s</sup>/ 3<sup>d</sup>. P ---</td> <td align="right">3..16..6</td> </tr> <tr> <td>6 Sc. 7 Cor. Coals -----</td> <td align="right">-..12..7½</td> </tr> <tr> <td></td> <td align="right"><u>£ 4.. 9..1½</u></td> </tr> </table> <p>Drove in 66 Days at 16<sup>d</sup>. P. -----      4.. 8.. -</p> <p align="center">Gained £ -.. 1..1½</p> <p>Observations. Two Men in at once, and changed                  every 8 Hours.</p> <p>Every Yard yielding 4 Corves, being                  little more than a Yard high.</p> <p>They made Coal Dam at the End,                  and laved their Water over a clayed                  [H]eck Bord shifted occasionally.</p> <p>They had a great Quantity of Water,                  The Band 2½ In.</p> <p>Being greatly hindered by Water, they</p>		£. s. d.	34 Yards ----- at 2 <sup>s</sup> / 3 <sup>d</sup> . P ---	3..16..6	6 Sc. 7 Cor. Coals -----	-..12..7½		<u>£ 4.. 9..1½</u>	<p align="center">Jan. 1770.                      [4]</p> <p>First Bargin in the Low-main Coal Drift                  Middle Pit. -----</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td align="right">£. s. d.</td> </tr> <tr> <td>83½ Yards --- at 2<sup>s</sup>/ 3<sup>d</sup>. P ---</td> <td align="right"><u>10.. 8..9</u></td> </tr> <tr> <td>108 Days Hewing - at 19½<sup>d</sup>. P; -</td> <td align="right">8..15..6</td> </tr> <tr> <td>27 d<sup>o</sup>. Putting --- at 10<sup>d</sup>. P; -</td> <td align="right">1.. 2..6</td> </tr> <tr> <td>10 lbs Candles - at 1<sup>s</sup>/ 4<sup>d</sup>. P ---</td> <td align="right">-.. 9..6</td> </tr> <tr> <td></td> <td align="right"><u>£ 10.. 7..6</u></td> </tr> </table> <p>Obs. They drove 42 Yards each Way from                  the Stappel.</p> <p>They were 2 Men and one Lad down,                  and 2 Men a-bank,</p> <p>They changed every 8 Hours, and got                  better than 3 Yards per Shift, but copu'd                  have got 4.</p>		£. s. d.	83½ Yards --- at 2 <sup>s</sup> / 3 <sup>d</sup> . P ---	<u>10.. 8..9</u>	108 Days Hewing - at 19½ <sup>d</sup> . P; -	8..15..6	27 d <sup>o</sup> . Putting --- at 10 <sup>d</sup> . P; -	1.. 2..6	10 lbs Candles - at 1 <sup>s</sup> / 4 <sup>d</sup> . P ---	-.. 9..6		<u>£ 10.. 7..6</u>
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	<u>£ 10.. 7..6</u>																				

got little more than a Yard in 8 Hours.  
Bud-66

Feb. 1770. [Bud-66] [5]

Second Bargain in Low Main Coal from the End of the First. -----

	£.	s.	d.
20 Yards Drift --- at 2 <sup>s</sup> / 8 <sup>d</sup> . P --	2..	13..	4
38 d <sup>o</sup> . Ris ----- at 16 <sup>d</sup> . P. ---	--..	12..	8
	£	3..	6..-
31 Days Driving -- at 20 <sup>d</sup> . P. ---	2..	11..	8
14 d <sup>o</sup> . Putting -- at 10 <sup>d</sup> . P. ---	--..	11..	8
10 lbs Candles -----	--..	3..	3
	£	3..	6..6

Obs. They were ¼<sup>d</sup> per Shift Short of 20<sup>d</sup> when they were paid  
The Low-main Coal cleaves to the Roof, Works well (being soft) in Bords: – But not so well in proportion Headways. -----

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Feb. 1770. [6]

Ordered some Geers to be made of Props, for the Broom Pit Dike. -----

Height --- Clear --- 5 Quarters  
Width --- d<sup>o</sup>. --- 39 Inches.  
Oak Sides – Birch Crown Trees, morticed & no Sole Trees – : N.B. They Should be Making P. Pair 1¼ or 1½ P Pair, to make the weight 2<sup>s</sup>/ 3<sup>d</sup> P. Day. -----

Ten 24 Peck Corves will drive 1 Yard of Headway in the Hutton Seam. -----

Gave Will. Simpson 8<sup>d</sup>. Per Yard for taking up the Ground Coal, & his Coals in the even-on Headways in the Middle Pit Hutton Seam.  
N.B. He took the Grounds from the Thill to Mid-Coal Height at the Face.

[7]

Estimate for Letting a Bargain of 80 Yards of Coal Drift to finish the long Drift on the West Side of the Broom Pit Dike. Feb. 1770. -----

	£.	s.	d.
Three Men & 2 Lads to Stay } 9 Hours and to make, the } Men 16 <sup>d</sup> & Lads 10 <sup>d</sup> P Shift } Candles in the above Time }	0..	5..	8
	0..	0..	4
	£	0..	6..0
Supposed to drive 1½ Y <sup>ds</sup> . } Per Shift, including all } Stoppages it will be 4 <sup>s</sup> . <sup>d</sup> P Y } If they can drive 1¾ Yards } per Shift, as above they } should have 3 <sup>s</sup> / 6 <sup>d</sup> P <sup>r</sup> . Yard }	0..	6..	0
	0..	6..	1½

Let them 40 Yards at 3<sup>s</sup>/ 8<sup>d</sup> and to bend with 6 Inches of Coal. -----  
They stay 8 hours per Shift & 1½ +Y<sup>ds</sup>. P. Sh<sup>t</sup>.

Bud-66

[8]

Conclusion of the Low-main – Coal Drift, from the End of last bargain. – Feb. 1770.

	£.	s.	d.
40½ Yards --- at 3 <sup>s</sup> / 5 <sup>d</sup> . P --	6..	18..	8
20 d <sup>o</sup> . Rit --- at 16 <sup>d</sup> . P. --	--..	6..	8
	£	7..	5..0½
66 Days ----- at 18 <sup>d</sup> . P. ---	4..	19..	-
33 d <sup>o</sup> . ----- at 10 -----	1..	7..	6
21 lbs. Candles -----	--..	11..	1
	£	6..	17..7

The Rooming came to, as follows

	£.	s.	d.
16 Days ----- at 18 <sup>d</sup> . P. ---	1..	4..	-
10 d <sup>o</sup> . ----- at 10 <sup>d</sup> P. ---	--..	8..	4
9 lb. Candles – at 6/ 4 P -----	--..	4..	9
	£	1..	17..5

N.B. The above reaches to 2 Bore Holes Put down from the Hutton Seam.  
Length to North 80 Yards: 1 Man 2 Lads down & 1 Man abank did the last 40 Yards.

[9]

The Charge of Boring 2 Holes between the Hutton Seam & Low-main – Coal Feb. 1770.

	£.	s.	d.
9 Fath <sup>s</sup> . ----- at 3 <sup>s</sup> / 6 <sup>d</sup> . P --	1..	11..	6
2 Days at Sump -----	--..	2..	8
2 lbs Candles -----	--..	1..	1
	£	1..	15..3

Done in 24 Days -----

Estimate or Expençe of Sinking 1 Fathom in the Meetings of the Venture Pit in Feb. 1770. Size 8F... 6<sup>ln</sup>. – & a Soft Blue Stone, being double Handed. -----

[10]

To Calculate the Stones a Fathom of 2 Yards Diam: will yield.  
N.B. a Horse Sink<sup>9</sup>. Corf in 2 Pecks.  
Yards  
2 X 2 X 2 X 0.7854 = 6.2832 in a Fathom  
In a solid Yard are 64 Pecks or 32 Corves therefore 6.2832 X 16 = 200 Corves P. Fathoms.  
N.B. 180 I believe is found to be near the Thing in Practice? -----  
~~The above is wrong 90 Horse Corves will~~

	£. s. d.
60 Days ----- at 16 <sup>d</sup> . P. Day --	4.. 0..0
4 lb. Candles - at 6½ <sup>d</sup> P -----	-- 2..1
	<u>£ 4.. 2..1</u>
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Sink a Fathom:— The Horse Cost being 4 Pecks where I have called it but 2.

	[on Blotting Paper]	[10]
6.2832		
<u>16</u>		
37.6992		
6992		
<u>62832</u>		
<u>100.62112</u>		
Bud-66		

Memorand. of the Venture Pit Sinking [11]		
from the Kaulk. Kerb. to Hutt. Seam,		
Begun Mar. 14 <sup>th</sup> : 1770: at 5 o'Clock		
Afternoon. -----		
1770. From	To & with	No. Shifts
Mar. 14	M. 17	51
19	24	94
24	31	94
31	Ap. 7	91
Ap. 7	- 14	94
14	- 21	94
21	- 28	92
28	M. 5	92
May 5	- 12	88
12	- 19	
19	- 26	
26	Ju. 2	
June 2	9	
9	- 16	
16	- 23	
23	- 30	
30	Ju. 7	
July 7	- 14	
Carr.up	.....	

[12]	Geer when the Venture Started to Sink	
	Mar. 14. 1770. -----	
	9 Hacks ----- W <sup>t</sup> . -----	90 lb.
	37 Wedges ---- d <sup>o</sup> . -----	48 lb.
	Got from Woodside.	
	11 Hacks ----- W <sup>t</sup> . -----	90 lb.
	Mar. 28.	£. s. d.
	Laying 10 Hacks -- at 14 <sup>d</sup> . P; -	-- 11..8
	Check <sup>g</sup> . 4 d <sup>o</sup> . -- at 20 <sup>d</sup> . P. -	-- 6..8
	24 Wedges ---- W <sup>t</sup> . 30lb. --	-- 7..6
	Ap. 18.	s. d.
	Laying 10 Hacks -- at 14 <sup>d</sup> . P -	-- 7.. -
	Checking 2 d <sup>o</sup> . -- at 20 <sup>d</sup> . P -	-- 3..4
	Repair <sup>g</sup> . Wedges -----	-- 1.. -
	7 new Wedges -- W <sup>t</sup> . 8½ lb. -	-- 2..1½
	May 16.	
	Laying 10 Hacks -- " -----	-- 15..2
	Check <sup>g</sup> . 2 d <sup>o</sup> . ---- " -----	-- 6..8
	48 Wedges ----- 54 -----	-- 13..6
Bud-66		

General Estimate State of the Expençe of [13]	
every Kind attending Sinking the	
Venture from Brass-Thill to the	
Hutton Seam. -- 1770. -----	
	Per Fathom
	£. s. d.
Sinking (double handed) ----	3.. 3..0
Hacks -----	-- 3..0
Shafts -----	-- ..6
Wedges -----	-- 1..6
Corves -----	-- 1..-
Candles -----	-- 1..6
Gunpowder -----	-- 0..0
N.B. The above Prices of all Articles	
but the Sinking Price put her down 17	
Fa. if the is put to the Hutt. Seam	
the Same will be considerably [reasoned].	

[14] For letting the Venture Pit to Sink from the Brass Thill to Hutton S<sup>m</sup>. in 1770. Suppose from Middle, Single Handed

[on Blotting Paper]
63
<u>36</u>
378

F. [Sh] F.	£. s. d.
As 42.25 : 63 :: 36: -----	2..13..8
Double Handed Disadvantage -	---18..-
Per Fath: £	2..18..-
Let the above at 3/ 3 £. per Fathom. Single-Handed Prices of Sinking at Bushblades Coll <sup>y</sup> . -----	
	Sh.
From Surface to Hard Coal S. --	24
----- Brass Thill -----	30
----- Hutton S <sup>m</sup> . -----	42
From Brass Th. - to H. S <sup>m</sup> . -----	52
From Top ----- to d <sup>o</sup> . -----	50
From Top ----- to B. Thill -----	32
	Pr.Fa.

Bud-66

189
4[2.25] ) 2268 (63..8
21125
15550
12675
2875
12
34500
From S[urf] to H. Seam
£ s £. s. d.
59 Fa. @ 2 / 2 --- 123..18..0
31 d <sup>o</sup> . @ 30 P. --- 46..10..0
£ £ 77..10..0
28 Fa. @ 3/ . P. --- 84.. 0..0
£. 7.. 0..0

March 15. 1770. Let our Labourers the [15] West Pit at Bushblades Coll <sup>y</sup> . to fill up and save what Timber they could at the Top for 14 <sup>s</sup> . <sup>d</sup> ----- F. In Hutton Seam Size ----- 6..6 Depth ----- 35 Fath <sup>s</sup> . Filled up in 15 Days, though the Metal was good to get. ----- Mar. 22. Let the Goodluck Pit to fill up for 10 Sh. ----- Size ----- 2 Yards. Depth ----- 22 Fath <sup>s</sup> . Filled up in 14 Days. -----
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[16] Materials got to the Venture Sinking.				
1770.	Corves	H.Shaves	Cand <sup>s</sup> .	Dist
				Feet
Begun with	3	10	-	-
Mar. 17	4	12	-	8
24	-	-	12 lb.	3Fa.
31	-	-	3	5½
Ap. 7	-	12	-	-
18	4	1	-	10½
23	-	12	-	11½
May 1	4	12	-	13½
12		12	-	15

[Page 17 Blank]

[18] Sills in the Venture below the Brass Thill ----- 1770. -----			
	F.	F.	In.
Gray Stone -----	-	4	6
Blue Stone Girdle -----	-	-	9
Skamy Stone -----	-	-	9
Blue Stone -----	-	2	-
Stronger - d <sup>o</sup> . -----	-	1	8
Softer than First -----	-	1	4
Strong Girdle -----	-	-	6
Tough grey Stone -----			

Bud-66

[19] Expence of Sinking the Venture Pit from the Caulking Kerb to the Hutton Seam, Depth near 28 Fathoms. ---			
	£.	s.	d.
Sinking -----	3	6	-
Hacks -----	-	3	-
Wedges -----	-	1	6
Shafts -----	-	-	6
Corves -----	-	1	-
Candles -----	-	3	-
Gunpowder -----	-	-	6
Ropes & Gin -----	-	1	6
Drawing -----	-	6	6
Sharpening -----	-	1	6
Per Fathom -- £	4	5	-

[Page 20 Blank]

[21] 1770.) Apr. 3. Let M. Lawson & W. Grey a Bargain in the Little Coal. viz
--

[22] Making out in the said Coal Bargain. -----
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To drive 30 Yards of Little Coal D<sup>t</sup>. @ 1<sup>s</sup>/ 10<sup>d</sup> P  
 1. They Hew and fill the Coals and find Candles for 1 Lad, if two Lads are wanted they are to have 1<sup>d</sup> P Yard more to find him Candles.

- The Owner takes away the Coals
- Along with the Coal they take 12 In. of Level, (into the Bargain) of Softish Thill. & 4 In. of [Jet]-Thill at Bottom to make height for the Putt<sup>g</sup>. after the Level goes out. In.
- Height of the Coal ----- 22  
 Jet at Bottom ----- 4  
26

A Lad puts the Coals & Turns them at the Stappel, and throwd them upon a Scaff<sup>d</sup>. in d<sup>o</sup>. from whence he carts or throws them to the Hat. Seam and Stows them & fills them up: - The Stapple only 7½ Feet deep.  
 Bud-66

The two Men Stayed \* hours in, and 8 d<sup>o</sup>. out, and drove 27½ [for]Yards in 15 s. d.  
 Shifts at 1<sup>s</sup>/ 10<sup>d</sup>. P comes to £ 2..10..5  
 5 lbs Candles - at 6½<sup>d</sup> P. - .. 2..8  
 £ 2.. 7..9  
 15 Days Works - at 3<sup>s</sup>/ 2<sup>d</sup>. P 2.. 7..6  
 £ -.. - ..3

They drove P Shioft with the Level on - 2 Y<sup>ds</sup>  
 ----- d<sup>o</sup>. ----- only Coal -- 1½  
 Drove near 5 Quarters wide. -----

Expence to M<sup>r</sup>. W<sup>m</sup>. Silvertop.  
 Driving ----- 1<sup>s</sup>..10<sup>d</sup>  
 Putting ----- .. 6½  
2.. 5 Expence.

[on Blotting Paper] [22]

Begun Wednesday -- 8 Night  
 Left of Saturday --- 9 Mornig  
 Begun again Mond. 4 Morn.  
 Finish<sup>d</sup>. ---- Wednesd<sup>y</sup>. 12 Noon.

27  
1..10  
 27  
 13..6  
9..  
 10..6

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17 Ap. 1770. Let a Bargain of Levels in [23] the Middle Pit. -----

50 Yards in Length, at 11<sup>d</sup> per Yard.  
 2 Feet Deep below the Foot Coal, and 12 In. Width at Bottom.

The Men find Candles.  
 The Levels will be (as supposed) 20 In. deep at the End of the Bargain. £. s. d.  
 Middle Depth 22 In. at ½<sup>d</sup>. P. 0..0..11

Making out of the above.  
 Yards --- @ 11<sup>d</sup>P. -  
 Days --- at P  
 lbs Candles at P

They made 10<sup>d</sup> P. Shift of the above.

[24] N.B. They drove another Bargain, which begun with 17 In. Stone, and drove out to [M]othing at 9<sup>d</sup> P Yard, and made 16<sup>d</sup> P Shift. -----  
 N.B. The Overman drives the Foot Coal.

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[25] [on Blotting Paper]  
 Begun - Ap - 19 - 4 Morn  
 Set in Close Ap. 25 - 4 Morn.  
 14 + 12 = 26 Days at 16<sup>d</sup> - 1<sup>£</sup> ..14.8  
 Finish & [Alay] [7]<sup>d</sup>.

17. Ap. 1770. Let a Bargain of Barrow [25] Way making for the Horses from the Broom Shaft to the Coal west of the Dike at 10<sup>s</sup>/ 6<sup>d</sup> per Yard. They find Candles. -----

N.B. They have 4¼ Feet of Stone on and drove 2 Yards & stowed the Stones in 10 Days. viz. below the Sole of the old Drift. -----

The Size to be Height 63 In

Width - 4 Feet.

Making-out to the Stapel.

£. s. d.

[26] Mayday 1770. Let Slater & P<sup>n</sup>. a Bar. - of Launched Drift from Venture Workings in Top Seam to hole into the Broom at 15<sup>d</sup> P Yard.

- He is in by himself and hews and Puts and Stows his Coals in the Waste.
- He finds his own Candles.

£. s. d.  
 Drove 16 Yards -- at 15<sup>d</sup> P -- 1.. - ..-  
 -  
 10 Days --- at 2/ - P ----- 1.. - ..-  
 Headways constantly going to Hole into the above at 11<sup>d</sup> P Yard. -----

11 Yards --- at 10 <sup>s</sup> / 6 <sup>d</sup> P --	8.. 8..-
68 Days --- at 2..4 <sup>3</sup> / <sub>4</sub> P --	8.. 1..8
12 lb. Candles at 6 <sup>1</sup> / <sub>2</sub> P ---	-- 6..4
Let them from Stapel to Thill of Coal at P. Yard: N.B. They have Halt Coal at the Stapel. £. s. d.	
9 Yards --- @ 3 <sup>s</sup> / - <sup>d</sup> P --	1.. 7..-
19 Days --- @ 16 <sup>d</sup> P ---	1.. 6..8
12 lb. Candles @ 6 <sup>1</sup> / <sub>2</sub> P ---	-- 2..2
Bud-66	

[27]	[on Blotting Paper]
2 M. can drive 1½ Y <sup>ds</sup> .	s. d.
1 ½ Y <sup>ds</sup> . - 19 <sup>d</sup> ----	2.. 4½
12 Corves -----	-- 9½
Putt <sup>g</sup> . -----	<u>-- 4¾</u>
	3.. 6¾
Candles -----	<u>-- 1</u>
	3.. 5¾
Each Man -----	1.. 8¾
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[27] June 1770.  
At 63 Yards West of Broom Pit Shaft Set in a North Headways, and Let the same to Jn<sup>o</sup>. Dodd and Partners to drive till they were 80 yards from the Shaft, as follows. s. d.  
Putting ----- -- 8 } P Score.  
Hewing ----- 1.. 4 }  
Headways ----- 1.. 7 } P Yard.  
Gave them 9<sup>d</sup> P Yard for holing the Walls as they made Small Wages. -----  
They have their Bates properly and make 19<sup>d</sup> P Day in a common Way. -----

[28] In Christmas 1770.  
Stephen Smith & Jn<sup>o</sup> Simpson a Bargain of Levels in the Middle Pit of Coal 12 In. Deep - 50 Yards at 3<sup>d</sup> P Yard.  
At the End thereof 11 In. of Cansh and to have 20 Yards more at 2<sup>d</sup> P Yard.  
They drive Kibble Breadth and Stow their Coals. -----  
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[29] 1770.  
Oct. 9 Let Soulsby & P<sup>rs</sup>. a Bargain of 40 Yards of Top Seam Drift on the West of the Broom Dike at 3<sup>s</sup>/ 0<sup>d</sup> P Yard. -----  
Estimate £. s. d.  
1 Man in the Face ----- -- 1.. 6  
1 d<sup>o</sup>. Putting the Coals ----- -- 1.. 6  
1 d<sup>o</sup>. Drawing Pump<sup>g</sup>. & }  
Stowing ----- } -- 1.. 6  
Candles ----- -- .. 4  
£ -- 4..10  
Supposed to drive better than 1½ Y<sup>ds</sup>. at a shift. -----  
1½ Yards ----- at 3<sup>s</sup>/-<sup>d</sup> P -- 4.. 6  
They made 16<sup>d</sup> P Shift; they took 20 Yards more at 3<sup>s</sup>/ 6<sup>d</sup> P Yard but drove only 13 Y<sup>ds</sup>. the Air failing. -----

[30] Bargains in 1771.

[31] Jan. 1771.  
Let Will. Lambe a Bargain of Cutting up Stone in the Drift West of the Stappel where the Swape Pump Stands, in order to Bore to the Hutton Seam.  
Size -- 2 Yards Diameter, Square on one Side. -----  
To cut-up, Put the Stones to the Stappel draw them there and Put and Stow them in a Bord near 20 Yards of the Stappel.  
To find Candles and to have 15 Sh. P Yard.



Jan. 1771. [32]

Let Mat. Lawson and Partners a Bargain of Headways Drift in the Hutton Seam Middle Pit, to the North and Dip  
 To go under the Band as long as they can; then to cut through the Band, and continue away at Level to where they must cut down for a Pump.  
 To find Candles and Stow their Coals. To have 18<sup>d</sup> P Yard till the Band is cut up and 20<sup>d</sup> P Yard for the Remainder. ---  
 N.B. They drove rather more than 2 Yards in 8 Hours – 2 Men in at once. -----  
 Bud-66

Jan. 1771. [33]

Thomas and Peter Rud have 12<sup>d</sup> per Yard for constant going Headways in the Broom Pit Top-Seam. -----  
 In the Night the Man works 1¾ Yards  
 In the Day the Man works 1¼ d<sub>o</sub>. and fills the others Coals. -----

Jan. 1771. ----- [34]

Let [Srep]. Smith a Bargain of Trench Driving in the Hutton Seam Bordways Course for Laving Water into, at 2<sup>d</sup> P Yard: – He drove 10 Yards of it P Day. -----  
 Bud-66

March – [35]

Let the Woodside Lads a Bargain of Hutton Seam Drift under the Band from above the Dyke directly East from the Middle Pit Shaft as follows  
 40 Yards ----- at 20<sup>d</sup> P  
 They Stow the Coals and find the Candles. -----  
 They can drive rather more than 2 Yards in 8 Hours

Broom Pit. [36]

Let W. Simpson the Broom Pit to Set-on, as below, viz.

Oil and Candles -----	3	
2 Pumps -----	2	
Shift work -----	1	
Overmans Labour -----	<u>2</u>	
	8 <sup>d</sup> .	

N.B. There is a 16 Peck Corf, and the Barrow-Way 250 Yards at a Medium.  
 The Galloways Put at a Medium of 330 Yards 28 Corves.  
 All to the Dip.  
 Wrought the above Pit 400 Yards in.  
 Let again as follows

Candles -----	2½ <sup>d</sup>	
Labour -----	3½	}
		6 <sup>d</sup> .

Medium Distance at [ ]lasting 300 Yards.  
 Bud-66

~~Middle Pit~~ or Venture Pit. [37]

The Galloways put 50 Corves in the Hutton Seam to the Distance of 160 Yards to the East above the Dyke. – Good to Put.  
 Wright and Whitfield a Bargain of 20 Yards of Levels in the Stone of the Foot-Coal Thill 18 In. at Beginning and 15 d<sup>o</sup>. at Ending, and made 20<sup>d</sup> P. Day having 12<sup>d</sup> P. Yard.  
 Let Hutton Seam Levels at ¾<sup>d</sup> P Y<sup>d</sup>. P In. of the Medium Depth. -----

Oct. 1771. [38]

Let Slater and Dunn a Bargain of 40 Yards of Drift from the Broom Pit Workings towards the new Pit in the Shebble Field at 18<sup>d</sup> P Yard.  
 Moeud } To go only 1 Shift P. Day  
 } To have a Lad to put & Stow the Coals  
 The Drive, find Candles and Stow

March 1772. [39]

The Broom Pit 350 Yards in and the Galloways good and bad put 30 Corves. -----

their Coals. -----

N.B. Gave them their Candles.

They drove 12 Yards more at 19<sup>d</sup> P Yard.

Let 40 Yards more, to go constantly, as above at 2<sup>s</sup>.. 2<sup>d</sup> P. Yard. -----

N.B. They make in the last Bargain 17<sup>d</sup> P Shift. -----

Let the Kit in the said Drift at 3½<sup>d</sup> P Yard & to have a Trap Door Set into the Bargain. --

Bud-66

1772 Jan. and Feb. [40]

Bargains at Making a new Barroway to the North of the Broom Pit Shaft in the Hard Coal Seam.

Drifting in Coal } 18<sup>d</sup> P Yard

Opening d<sup>o</sup>. to 4 Feet Wide & }  
Coals to Hewer ----- } 2 ½ P d<sup>o</sup>.

Open<sup>g</sup>. the Stone Drift, as above }  
through the Stone in the } 10<sup>d</sup> P d<sup>o</sup>.

Gut of the Dyke ----- }

Bud-66

[41] Jos. Souleby and John Dodd have for Sinking the Stubble Pit to the Top Seam. -----  
32<sup>s</sup> or 33<sup>s</sup> P Fathom.

They find Workmanship.

----- Candles & Gunpowder.

----- Hacks, Shafts & Wedges

----- Sink 2 Yards from Bank to Thill.

----- Make Meetings.

Let them the Rit to drive at 3<sup>s</sup>..6<sup>d</sup> P Fath<sup>m</sup>.

Expencc as follows. £. s. d.

Sinking & Sharpening P Fath. -- 1..13..0

Hacks & Wedges - P d<sup>o</sup>. ---- --.. 1..-

Corves ----- P d<sup>o</sup>. ---- --.. 1..-

Candles & Gunp<sup>f</sup>. - P d<sup>o</sup>. ---- --.. 1..-

Ropes & Gin ---- P d<sup>o</sup>. ---- --.. 3..-

Stops from Boreholes & C. P d<sup>o</sup>. - --.. 1..-

£ 2.. 0..0

In the Venture Pit Hutton Seam. [42]

Paid for Driving the East<sup>d</sup>. Mothergait and Water Course Bord next her 8<sup>d</sup> per Yard.

They drive 3 Yards Wide.

And have their Coals.

Let them another Bargain, as above at 10<sup>d</sup> per Yard.

The 1<sup>st</sup>, Man goes down at Calling Course and the Second at Hanging-on Time; the first rides with the Hewers the 2<sup>d</sup> Stays 'till the Pit be done. -----

Bud-66

[43] An Estimate for Letting the Broom Pit from the Hard Coal to the Hutton Seam, viz. -----

From Surface to the Hutton } £. s. d  
Seam 66 Fathoms at 2<sup>s</sup>/ 2<sup>d</sup> } 138..12..0

From Surface to the Hard }  
Coal Seam 29 Faths at 30<sup>s</sup>/- } 43..10..0

Remains 37 Fa. at 2<sup>£</sup>/12<sup>s</sup> P. £ 95.. 2..0

Feb. Mar. Ap. 1772. Slater & Dunn. [44]

Acc<sup>t</sup>. of Levels driving in the Broom Pit Hard Coal Seam, to loose the Stubble Pit. -----

1 st, 20 Yards begins at a and ends at 20 In. Cansh, to rid Several Falls, get in Boxes, lay them and cover them, at 12<sup>d</sup> P Y<sup>d</sup>.

2<sup>d</sup>, 20 Yards begins at 20 and ends with 36 In. Cansh, to drive, cover with Deals, but nothing to rid at 16<sup>d</sup> P Yard. -----

3<sup>d</sup>, 40 Yards begins at 36 In. and ends at Cansh, a good Deals to rid, and cover at 16<sup>d</sup> P Yard. -----

[45] In Drift to Stubble Pit.

4. Bargain. Begun at 0 and ended with 4 Feet Cansh 60 Yards at 18<sup>d</sup> P. Yard. -----

5. Bargain. Begun at 4 Feet Cansh and continued same Thickness 20 2<sup>s</sup>/ 0<sup>d</sup> P. Yard. -----

6. Bargain. From 4 Feet Cansh to 3 Feet d<sup>o</sup>. 20 Yards at 18<sup>d</sup> P.

7. Bargain. From 3 Feet to 0 Cansh 14<sup>d</sup> P. Y<sup>d</sup>. The best Bargain.

8. Pulling down Stone from a to 30 In. thick 20 Y<sup>ds</sup>. at 2<sup>s</sup>/ 4<sup>d</sup> P. Air was bad, or would have been



Broom Drift to Stubble (Contin<sup>d</sup>) [46]

9. 17 Yards from 30 In. to close Drift at 5<sup>s</sup>/ 0<sup>d</sup> P. -- N.B. Bad Air.
10. 8 Yards Close-Drift at 6<sup>s</sup>/ 0<sup>d</sup> P Y<sup>d</sup>.  
N.B. -- This finished.
- The Prices were too much in the last 3 Bargains but the Air was very bad, the [Stress] far to put, and 2 Men in at once.

## [47] Estimate for Letting the Turning of the Bords in the Middle Pit, Hard Coal Seam, 2 Yards wide Sep. 1772.

Coal 4 Feet High and 2 Y <sup>ds</sup> . wide will yield 11	}	£.	s.	d
16 P. Corve P. Yard. --				
Hewing 11 Corves at 16 <sup>d</sup> P --		--	--	8 <sup>3</sup> / <sub>4</sub>
Putting 11 d <sup>o</sup> . at 6 <sup>d</sup> P --		--	--	3 <sup>1</sup> / <sub>4</sub>
Consideration for Narr. Bord --		--	--	3
Candles -----		--	--	1
Propping, Lead <sup>g</sup> . Stones, Lay <sup>g</sup> . Barroway, &c. -----	}	--	--	1
Let at 17 <sup>d</sup> P. Yard.		£		

## Estimate for the Driving the [48]

Headways and Narrow Bord in the stubble Pit, Hard Coal Seam Jan. 1773  
To drive the Headways 4 Feet wide. ---

	£.	s.	d
To 1 Yard Headways -----	--	--	8
To 8 Corves Coals -----	--	--	8
To 8 d <sup>o</sup> . Putting -----	--	--	2
To Taking up Thill -----	--	--	2
To Consideration for being down at Nights -----	--	--	2
To candles, &c. -----	--	--	1
Let for -- 1 <sup>s</sup> ..11 <sup>d</sup> . Estem.	£	--	<u>1..11</u>

Narrow Bord Same Width.

Driving -----	--	--	5 <sup>d</sup>
Coals, Putting, Stoning &c. -----	--		1..3
Let for Estem.	£	--	<u>1..8</u>

N.B. Let for 2 Y<sup>ds</sup>. Wide (turn over)

## [49] Stubble Pit.

1 Yard of Bord 2 yards wide will yield 12 Corves -- Hew <sup>g</sup> .	}	s.	d
Putting ditto		--	4
Driving Narrow		--	3
Stoning		--	2
Candles		--	1
Pumping		--	2

Let for 2..0

N.B. Excused them of taking up the Thill. -----

Estimate for the Stable Bord to be drove double handed ----- s. d

4 Yards wide will yield 24 Corves of Coals -- Hew <sup>g</sup> .	}	2..	0
Putting -----		--	7
Double Working -----		--	2
Hewing -----		--	2
Candles -----		--	1
Casting the Coals -----		--	4
		<u>3..</u>	<u>4</u>

## Stubble -- Feb. 1773. [50]

Let Jos. Soulsby a Bargain of Taking down 30 Inches of Stone above the little Coal Roof at 3<sup>s</sup>/ 6<sup>d</sup> P Yard. -----

N.B. Part of the Stones were Stowed, the Rest sent to Bank, found him Candles Gunpowder, &c. -- he made 16<sup>d</sup> P Shift.

Let ditto a Bargain of Levels Driving from the Pump Sump in the Shaft to the Machine Staple for 3<sup>s</sup>/ 6<sup>d</sup> P Yard. F. In.

He had on when begun of Stone -- 3.. 0

Supposed to be on when done --- 4.. 6

N.B. He had a Pump to keep in both Cases -----

## [51] Stubble, Feb: 1773. -----

Let Bones, Coxon, Dunn & Slater a Bargain of Driving the Narrow Bords to the West at 10<sup>d</sup> P Yard and a Tench in the even-on Bord at 3<sup>d</sup> P Yard. -----

N.B. To drive the Bords 5 Feet wide, To have their Coals.  
To Keep the Pump at Nights.  
To Manage the Water.

N.B. The Water proving heavy, gave them P Y<sup>d</sup>. To make them P Day

Stubble Pit, Top Seam. [52]

Sunday Feb. 21: 1773. -----  
 Let Bones, Coxon, Dunn & Slater. -----  
 From the Second Pump Sump 4 Feet of Level to  
 drive at 14<sup>d</sup> P Yard.  
 To drive a Water Trench at 3<sup>d</sup> P Yard. -----  
 To drive two narrow Bords of 5 Feet Breadth,  
 and keep two Pumps at 12<sup>d</sup> P Yard. -----  
 They got the Dyke very loose which  
 broke up the Bargain, and have now let them  
 the Headways' near the Dyke to go constantly  
 at 16<sup>d</sup> P Yard : N.B. They have Two Pumps  
 to Keep. -----

Bud-66

[53] Stubble – Sep. 1773.  
 Let Headways to be pulled down  
 to the little-Coal & weighed up } 3<sup>d</sup> P Y<sup>d</sup>.  
 for a Barrow-way at ----- }  
 Let the like in a Bord-Room }  
 to make Bye-way at } 2½<sup>d</sup> P

Let Bones & Simpson a bargain of  
 Coal-Drift on the Rise\_side of the West<sup>d</sup>.  
 Trouble in the Stubble Pit – viz. [ ]  
 To drive as narrow as they can.  
 To find Candles.  
 To have their Coals.  
 To turn them over the Dyke & fill up again.  
 Let for 16<sup>d</sup> P Yard. s d  
 Drove between them -- 3 Y<sup>ds</sup>. -- .. 4.. 0  
 Coals ----- .. .. 11  
 ----- .. 4.. 11

March : 1773. [54]

Estimate for Letting the Onsetting of the  
 Stubble Pit, to W<sup>m</sup>. Simpson. -----  
 Oil and Candles ----- 1¾<sup>d</sup>  
 Propping & Stowing Stones 2¼ P Score of  
 Keeping 2 Pumps ----- 1 16 P. Corve  
 5<sup>d</sup>

Sep. 1773 – Venture Pit – Hutton S<sup>m</sup>.  
 In the S.E. Way a narrow Bord & level,  
 to let. -----  
 Coal ----- P Yard ----- 8<sup>d</sup>  
 10 In. Stone P d<sup>o</sup>. ----- 2½  
 Foot-Coal P d<sup>o</sup>. ----- 2  
 12½  
 Consideration for Hard-Coal 2½  
 Let to Slater & Dunn for -- 15<sup>d</sup>

Bud-66

[On Small loose Piece of Paper]

[54a] The Scales at the Stable Pit

	F. Y.	[c. s]
Rambel & Duase post, -----	5, 0	: 2,0
Blow & gra Metal Ston -----	12, 0	: 0,0
Coll -----	0,1	: 2:0
Blow, or gra Ston -----	2:1	: 0:0
Whit Ston post -----	3:0	: 0:0
Blow Whin -----	1:0	: 0:0
Whit Ston post -----	7:1	: 0:0
Black Ston or Coll -----	1:0	: 2:0
Gra theall Ston -----	1:0	: 0:0
	34:1	: 0:0

Bud-66

[54b]

	Fa.	Fe.	In.
Depth Bored from the Scaffold	32	.. 2	.. 6
Depth now Bored from Surface –	34	.. 2	.. 0
		1	.. 5 .. 0
[Upside down]			
£ – . 3	..	3	

[55] Sep. 1773. Venture.  
 Let Jos. Soulsby a Sump to put down  
 to the Little-coal Thill, depth F. In.  
 5 .. 8

Oct. 1773. Stubble Pit. – Top Seam. [56]  
 Let J. Soulsby a Bargain of making Bye Way.  
 Pulling down and Ridding a bad Bord, } 3<sup>d</sup> P Y<sup>d</sup>.  
 being broke in the little-Coal at }

Length 4 Feet, Width 2 Feet, for  
 12 Sh and he made 22<sup>d</sup> P Day.  
 He pulled down 2 Feet of Stone in  
 the Roof 3 Feet-Square, but a Th[ill]  
 on each Side, for

	s d
4 Days at 16 <sup>p</sup> P -----	5.. 4
Gun powder -----	1.. -
	£ -- 6.. 4

Bud-66

Making a Bye Way through the Dike  
 being Drifted through before on one  
 Side ----- at ----- } 12<sup>d</sup> P Y<sup>d</sup>.

Oct. 1773. Venture Pit – Hutton Seam.  
 Let Slater and Dunn a Bargain of 18 Yards  
 of Headway to South in the Farr-Way at  
 16<sup>d</sup> P Yard.

	s d
Coal P Yard -----	1 .. 0
Foot Coal Thill -----	-- .. 2
Consideration for Keeping her going from Going down till the Pit is done -----	-- .. 2
	1 .. 2

[57]  
 1773. Let Jos. Soulsby a Bargain of Drift  
 to the Barrier in the Hard-Coal  
 Seam, on the West of the Dike  
 in the Stubble Pit at 3<sup>s</sup>/ 0<sup>d</sup> Per  
 Yard. -----

Jack and him made each per Day -----	}	2 <sup>s</sup> .. 0 <sup>d</sup>
---	---	----------------------------------

The Air very bad, and the Putting  
 very hard on leated Way. -----

1773. Dec. 8. Let Jo: Soulsby the Hutton  
 Seam, as follows.  
 1 st. Fathom ----- 13<sup>s</sup> .. 0<sup>d</sup>

Bud-66

1773. Dec: 8. Let Thomas Watchman [58]  
 Bargain of Putting up 17 Stopping  
 sin the Hutton Seam at 12<sup>d</sup> P. Stopping.

Props used in 1773. -----  
 Venture & Broom had no Props at her.  
 Broom --- not considered.  
 Stubble --- had 300. Props at her

	10 <sup>s</sup> .	9's	7's
Smart -----	260	415	1341
Buck -----	-	84	576
S <sup>r</sup> . Thomas C. -			
M <sup>r</sup> . Walton --	-	141	1145

Bud-66

[59]