Dear Jonathan

These records of Birchenwood College in 1910 will be
of greater value in your archives than in my cupboard
at home.

Derek

This Book is arranged to shew by Plans, Sections. Charts. and Monthly Reports the General Underground Work, and Development in the various Seams:-

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No. 1. Section of Strata sunk through in No 18 Shaft.
-"- 2. General Cross Section of Mines: (North & South)
-"- 3. Estate Plan.
-"- 4. Ventilation Plan.
-"- 5. General Haulage Scheme.
-"- 6. Pumping Diagram.
-"- 7. Miners Wages Chart.
-"- 8. Birchenwood, Seam
-"- 9. Little Row. -"-
-"- 10. Four Feet -"-
-"- 11. Rough Seven feet -"-
-"- 12. Stoney Eight feet -"-
-"- 13. Ten feet -"-
-"- 14. Top Two Row -"-
-"- 15. Bottom Two Row -"-
-"- 16. Bowling alley, -"-
-"- 17. Seven feet Banbury -"-
-"- 18. Eight feet -do- -"-
-"- 19. Bullhurst -"-
-"- 20. Winpenny -"-

The Plans attached shew the various workings over the whole estate in every seam made up Quarterly, and also proposed developments.

The Charts will shew graphically the Output. Shifts worked, and Output per person per shift The Underground Wages and Timber Cost per ton, and the proportion from each seam to the total Output of the Collieries.

With each plan will be a monthly report of the progress made, and comments thereon.

James R. L. Allsh.

February 1910.

8/P1

Birchenwood Seam.

Character:- A Superior House Coal. It is probably the same as the Mossfield Coal in the South part of the district, and the same as the Four feet Coal of the Audley district. It crops out at the mouth of the Lunts pit of the Old Havecastle Collieries. Thickness varies from 5 to 6 feet. The roof is a soft dirt varying from 3 to 5 feet, above which is a strong shale from 7 to 8 yards thick. The Roof is consequently bad, and very destructive to timber, the cost for which is excessive.

Analysis:- (Approximate)

	Coke and Ash	61·330 %
	Volatile Matter	38·670
		100·00

Coke	Fixed Carbon	57·584 %
	Sulphur	·246
	Ash	3·500

Volatile Matter:	Gas. Tar. &c	34·524
	Sulphur	·156
	Moisture	3·990
		100·00.

Getting Prices

Cutting, Main Levels, and Dips	6s. 0d.	per yard.
Breastings, 10 yards wide	3-0	—"— —"—
Breastings, 10 yards wide (New Work)	6-0.	—"— —"—
Setting Timber. 6 ft. Bars.	1-8	per set.
Setting Timber 8 —"— —"—	2-6	—"— —"—
Ripping	2-0	—"— yard
Packing from	2-0 to 3-0	—"— —"—
Tonnage.	1-9	—"— ton
Chocks. 3 feet square.	1-0	each.
Collier working Day Work.	4-11	per day
Loader —"— —"— —"—	4-9	—"— —"—
Wagoning on the Level first 80 yards	Nil.	
over that distance	1	per ton extra.
Wagoning, including Braking to Dips or Jigs. first 60 yards	Nil	
over that distance	1	per ton extra.
Ridding Coal 10 yards upbank	not to be paid for	
exceeding 10 yds.	to be paid for.	
3 yards downbank	not to be paid for	
exceeding 3 yards	to be paid for	

Extent of Working; At a depth of 204 yards was proved and worked at the Bathpool pit. The Coal was reached in July 1893, and continued working until August 1907 when it was stopped owing to Excessive Costs: It was worked at the Nelson pit by a Cut from the Ten feet at a depth of 79 yards: It was worked at No 6 pit by a Cut driven from the Ten feet level through the Stone Bank fault at a depth of 238 yards: It was recovered at No 4 pit in June 1903 at a depth of 287 yards, & continued working until March 1906, when it was stopped, the Costs being excessive owing to the bad state of

Birchenwood Seam continued.

the district. a Plance at the Main Plans will shew by dates of working 1905 & 1906 that the pillars were robbed, indiscriminately.

Recent Work; At present mine only worked from No 18 pit. Approached by Main Cut at 430 yards deep. This Cut reaches the Ten feet at 602 yards from pit and a level East to the Oldcote fault through which Cuts reach the Birchenwood 270 yards from the Main Cut. This recovery was made in December 1902 then levels were driven 1,020 yards East to within 120 yards of Boundary at Newchapel where the Levels turn round at the Synclinal: In September 1906 the first small pillars worked drew water from the Ironstone measures above, about 100 Galls per minute. and the work was stopped at this point. From 1902 to the present time dips have been driven up from the East Levels 160 yards to the highest point, 5 pillars worked. The Gradient varies from 38° to 45°; the steepest dip being worked by a balanced Cage.
This East district has been very Costly. the difficulties being steep dip, bad & wet roof, smooth slippery floor, very destructive to timber Horse haulage for 1300 yards & successive Costs repairing roads and Airways. all on a small output which could not be increased from the limited workings of one pair of levels: Although the selling price of this Coal is the highest obtainable. the percentage of Slack (54) together with the difficulties aforementioned, reduces the Average value to much below Cost price.
The district is now being worked to the smallest extent possible to maintain trade until a better recovery is made from Laceys Cut. When the Newchapel water was struck in 1906 fresh recoveries should have been set out, but nothing was done until recently when Laceys Cut was projected to go on to the Birchenwood Seam. It will probably be reached in 6 months time ready for the Winter of 1910-11.

Report for February 1910: On reference to the Chart it will be seen that the Output to Week ending Feb. 12. has averaged about 150 tons per week, and the Underground Cost has varied from 4/9 to 6/6 & Timber from 7 to 12. The high Cost has been due to falls on the Wet Level, & variation in Timber to Stock underground. The pillars are being worked back as quickly as possible to cut off the Expense of maintaining long levels. The high Cost is reflected in the average output per person per shift, & under the circumstances explained above it is unlikely that much improvement can be looked for from this district

Proposal for better recovery, in addition to Laceys Cut Very shortly the Main South Cut from No 18 pit, which is in excellent condition will have nothing to work beyond the Old 7 ft. Engine dip, except a district of Rough Seven feet which is being recovered by Cuts through the Oldcote fault from the East 10 feet Level.

Birchenwood Seam continued.

As this Main Crut is equipped with Endless Rope Haulage, it will form a cheap means of transit for any Coal recovered near the end of it. By leasing a comparatively small area of about 25 to 30 acres of Eastlidge's Mines beyond the Crut, and driving the Crut forward in a straight line for 170 yards the Birchenwood Seam would be reached, recovering 165,000 tons of Coal between the Oldcote, & Stone-bank faults or 8 years Output of 400 tons per week. The Cost of driving the Cruts would be about £750. or 1.09 per ton. This also opens an Area of Messrs Heath's (Lawton Estate) Mines which could not be worked except by Cruts from Lacey's Crut through the Stone bank fault, and which alone would not be profitable to recover: It is particularly important that this recovery should be considered in the near future because the Coal will be on pit level, at the end of the Endless rope, Got cheaply to the pit, Can be worked by short levels, and secondary Endless rope instead of horses, and can be laid out to better advantage than the Old district. It would also form another through connection to Lacey's Crut: There is, however, one objection to this development. the possibility of damage to surface buildings at Soldenhill. This property has already been damaged by older workings nearer the surface. Any damage that may be caused by Birchenwood workings at 430 yards will be less serious. Assuming, however, that damage to the extent of £20 per house is caused to 20 houses, this would mean £400, or about, 1/2 per ton on the recovery. The Royalty Value of the Coal would be about. £ 3.125 :

Report for March. 1910. The Output from the Old East district has been maintained at about 150 Tons per week; Wages Cost has varied from 5/4 to 6/3 but the timber is higher, about 1/2 per ton: As explained last month there is no room for improvement, or development in this district, & its working is only justified by the necessity to maintain the pit output, & retain customers for best coal until a cheaper district is opened, meantime of course every possible economy is being exercised.

Progress of Lacey's Crut since last report 21 yards approximately 95 yards from Coal.

Proposed recovery mentioned in Report for February from the end of South Crut is still under consideration Objections are more serious when further investigated Alternative plan for making connection with Lacey's Crut would be extension to Rough 7 feet see Rough Seven feet report:

Little Row Seam.

Character:- A good House Coal ranking with the Seven feet Bamburgh and Bullhurst. It lies about 8 to 12 yards below the Birchenwood, & principally used for making roads for convenience of working the Birchenwood. It is 2' 6" thick, with good shale roof, and fireclay floor. It requires little timber. The Coal is uniformly good in one bed with good partings at the roof and floor.

Analysis:- (Approximate)

Coke and Ash	60·290
Volatile Matter	39·710
	100·00

Coke.	Fixed Carbon	53·830
	Sulphur	2·060
	Ash	4·400
Volatile matter	Gas, Tar, &c.	33·990
	Sulphur	1·370
	Moisture	4·350
		100·00

Getting Prices:-

Cutting, main Levels, and Dips	4-0	per yard.
Blowing bottom up in 6 feet levels	7-0	" "
Blowing bottom up in Dips	8-0	" "
Setting Timber. Bars under 8 feet	1-9	per set.
Setting Timber Bars 8 feet, & over	2-6	" "
Tonnage	2-0	" ton.
Chocks. 3 feet square	1-0	each
Collier working day work	4-11	per day
Loader " " "	4-9	" "

Waggoning on the level.... first 80 yards... Nil
over that distance.... 1" per ton extra.

Waggoning, including Braking to Dips, or Jigs.... first 60 yards.. Nil
over that distance... 1" per ton extra.

Ridding Coal.. 10 yards upbank.... not to be paid for.
Exceeding 10 yards... to be paid for
3 yards downbank... not to be paid for
Exceeding 3 yards... to be paid for

Extent of Working:- It has never been worked in the Birchenwood Area except for Roads off the No 4 Cut, and off No 18 Cut.

Recent Work:- In January 1909 Levels were started East and West from No 4 Cut at 287 yards from the surface, for the purpose of driving East to the New mine Ironstone for the Newchapel & Turnhurst Water, and West for the purpose of draining the old Birchenwood workings at Bathpool, thus bringing Newchapel & Bathpool Water to the new Turbine pumps at No 4 pit bottom. During the past month. Feb. 1910. these levels have advanced 12 yards East, and 11 yards West The West levels are now at the Stonebank fault

and Cutting has been commenced to the Birchenwood Coal, in which it is proposed to open out a district & so make use of the existing roads, and their Cost to some advantage.

Report for March 1910. During the past month the East levels have reached the Oldcote Fault, & Cutting is in progress on both East & West sides. The Cuts through the Oldcote fault to the New Mine are set out at an angle of 45° to the level course so as to escape faulty ground Expected about the junction of the Turnhurst, & Chell faults, with the Oldcote, & Red Row faults. It is estimated that the Cuts will be yards to the New Mine.

Rough Seven Feet Seam.

Character:- High Class Steam Coal. At one time the Ry. Co's paid 6 per ton more to Bidder and Elliotts for this Coal than for Eight feet. It is 4'-0" to 5'-0" thick. Very good roof, & rock floor with soft pricking dirt under the Coal. Its only drawbacks are its steep inclination, & Water which comes through the roof from a Rock 3 yards above the base. It makes a good percentage of hard round coal, and is below the average in timber cost.

Analysis: (Approximate)

Coke and Ash		64.80%
Volatile matter		35.20
		100.00
Coke	Fixed Carbon	56.943%
	Sulphur	.557
	Ash	7.300
Volatile matter.	Gas. Tar. etc	34.837
	Sulphur	.303
	Moisture	.060.
		100.00.

Getting Prices:

Cutting main Levels and Dips		6s. 4d. per yard
Breastings	10 yards wide	3 - 2 " "
Breastings	10 yards wide (New Work)	6 - 4 " "
Setting Timber	6 feet bars	1 - 8 per set
Setting Timber	8 " "	2 - 6 " "
Packing		4 - 11 per yard
Cutting up to open out drifts		3 - 2 " "
Tonnage		1 - 3 per Ton
N. B. Consideration from	3 - to	6 " "
	is paid in difficult places.	
Chocks	(3 feet square)	1 - 0 each
Collier working day work		4 - 11 per day
Loader	" " "	4 - 9
Waggoning on the level, first 80 yards		Nil
	over that distance	1 per ton extra
Waggoning, including Braking to Dips or Jigs	first 60 yards	Nil
	over that distance	1 per ton extra
Kidding Coal	10 yards upbank	not to be paid for
	Exceeding 10 yards	to be paid for
	3 yards downbank	not to be paid for
	Exceeding 3 yards	to be paid for

Extent of Working:- Old workings dating back probably 100 years. This Seam was worked from old shallow pits, and afterwards from No's 4 and 6 pits down to a point 287 yards below the surface, these workings extended about 1320 yards East, near Trubshaw, and 1,600 yards West, or 300 yards beyond the Tunnel barrier:

Recent Work: In September 1904 levels were commenced at the far end of No 18 main South Cut 430 yards from the surface, and yards from the pit bottom.

The levels were driven East to the Oldcote fault and West to the Stone-bank fault. Above the East levels an area 140 yards to the rise was drifted out leaving a pillar of 100 yds above, + against the old work from 16-4 pit. The Barrier was not effective, and let the Water down from 16-4 at 287 yards to 16-18 at 430 yards. Above the West levels, a similar, but larger area was worked out also leaving a barrier equally ineffective. These two districts are nearing Exhaustion and as the barrier is now of no use in keeping back the water it is proposed to work the greater part of it out. In September 1909 the Rough seven feet was struck in Laceys Grit, and levels are being driven East and West for the purpose of drifting to the rise, + extending West to the Tunnel barrier a distance of 450 yards.

Report for March 1910:- The Output has improved to about 440 Tons per week + the Cost decreased, the lowest being 5/2. and the highest 5/8. The timber cost is also better. The Cost is still high due to yardage in levels from Lacey's Grit. Progress in the levels is not satisfactory but unavoidable until Ventilation is improved by re-opening Old West 10 feet levels which were abandoned 3 years ago.

Four Feet Seam.

Character :- Second class house, or Steam coal fairly clean, and uniform in quality. Said to have been worked with good results in past years and readily sold. Thickness about 4 feet, with good shale roof. & floor.

Analysis :- (Approximate)

Coke, and Ash _____

Volatile matter _____

Coke. { Fixed Carbon _____ / Sulphur _____ / Ash _____

Volatile Matter. { Gas, Tar, &c _____ / Sulphur _____ / Moisture _____

Getting Prices.

Extent of Working :- Believed to have been worked extensively from shallow pits near the outcrop, and afterwards from Trubshaw at 142 yards deep, at No 4 pit at 287 yards deep also at No 6 pit. The Trubshaw work extended East to the road leading from Bullocks House to Mow Cop. & West to Red Row The work from No 4 and 6 went East to the Oldcote fault, and West through the Stone bank fault on to Bathpool. Nothing has so far been done in this Coal down No 18 pit.

Recent Work :- Lacey's Drift now being driven to the Birchenwood has just passed through this Coal.

Stoney Eight Feet Seam.

Character:- A first class Furnace Coal and was formerly worked, and in great demand for this purpose. It is hard, large, and clean, It is also a good Steam Coal. The Seam is in 2 bands, the upper 2'-10" good coal, and the lower 1'-6" inferior, with a band of strong black shale 1'-2" thick between. The roof is a strong shale, and the is a hard warrant:

Analysis (Approximate)

Coke and Ash		65.00%
Volatile matter		35.00.
		100.00

Coke	Fixed Carbon	60.995%
	Sulphur	.705
	Ash	3.330
Volatile matter.	Gas. Tar, &c	33.259
	Sulphur	.381
	Moisture.	1.360
		100.00

Getting Prices:-

No prices have been arranged for working this Seam, & the little work that has been done during last years have been paid day wages.

Extent of Working:- Old workings from shallow pits were extensive in the neighbourhood of the Old Kidsgrove furnaces. From No 4 pit at 287 yards levels were driven East to the Oldcote fault, & by means of the Rough Seven feet to a district beyond the fault about yards East of the pit. To the West, levels were driven to the Furnace Bank fault. The workings were to the rise of these faults:

Recent Work:- From No 18 pit Main South Cut at 430 yards deep levels were driven a few yards East, and West about the year.
The Seam has also been passed through in Lacey's Cut, but no work so far done. It is not intended to work the Seam at present:

Ten Feet Seam.

Character :- Excellent Gas Coal; Good Steam coal. Second house coal. Thickness averages about 7 feet. Roof, dark grey bass for 6 feet, then hard brown Sandstone rock for 26 yards. This Rock is one of the chief Water bearing Straturns in the district, consequently work in this seam is generally wet & difficult in consequence. The floor is soft fireclay & owing to the water gives much trouble, & adds to cost by lifting: In Wet work much timber is required, and much is lost in the Waste: When dry the 10 feet is one of the most satisfactory Seams in the district as regards cost of working. Unfortunately all the work at Birchenwood is wet, and likely to always be so.

Analysis :- (Approximate)

	Coke and Ash	65.200%
	Volatile Matter	34.800
		100.00
Coke	Fixed Carbon	51.540%
	Sulphur	1.560
	Ash	12.100
Volatile Matter	Gas. Tar. &c	31.984
	Sulphur	.846
	Moisture	1.970
		100.00.

Getting Prices :-

Cutting. main levels and Dips	6s - 6d per yard
Breastings. 10 yards wide	6 - 0 — " — " —
Setting Timber... 6 feet bars.	1 - 8 — " — set
Setting Timber... 8 — " — "	2 - 6 — " — " —
Ripping (3 feet thick)	3 - 0 — " — yard
Packing	5 - 0 — " — " —
Filleching	11 — " — " —
Tonnage... in narrow work	1 - 0¾ — " — ton
Tonnage... in drifts, & breastings...	6 per ton extra.
Chocks.	11 Each.
Collier working daywork	4 - 11 per day
Loader — " — — " —	4 - 9 — " — " —
Waggoning on the level... first 80 yards	Nil
over that distance	1 per ton extra
Waggoning, including Braking to — Dips or Jigs — first 60 yards	Nil
over that distance	1 per ton extra
Ridding Coal... 10 yards upbank	not to be paid for
Exceeding 10 yards	to be paid for
3 yards downbank	not to be paid for
Exceeding 3 yards	to be paid for

Extent of Working :- To the rise of the present pits this Seam is practically exhausted as far as the Bathpool Fault. At the Harecastle pit it was found by Cutting from the Birchenwood Seam but drew off a considerable Volume of Water from the Old Colley pits necessitating a Dam being built in the Cut and the recovery abandoned in

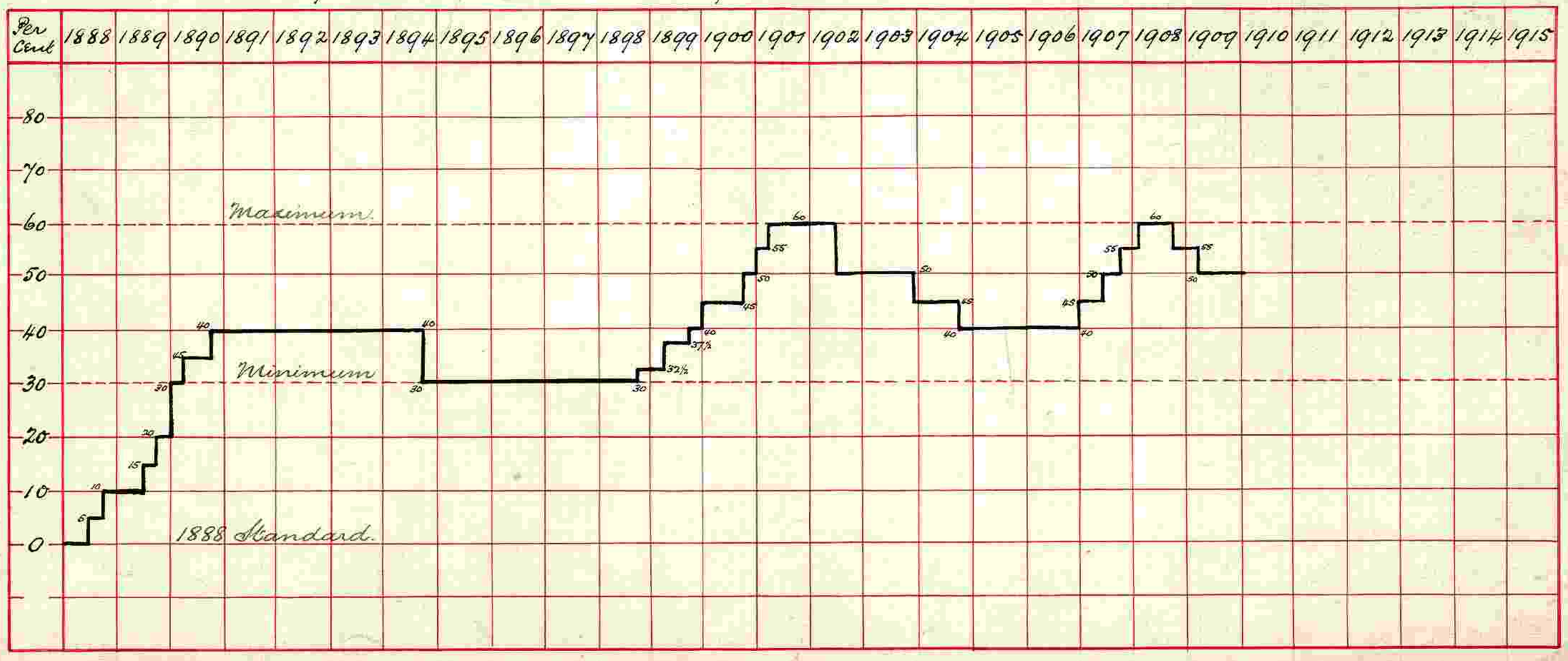
Recent Work :- In the 10 feet Seam was struck in the main South Cut yards from No 18 pit, and levels driven East & West

to the Oldcote, and Stonebank faults. From these levels districts were worked to the rise + exhausted about up to a barrier below the Old workings from No 4 pit: No development was made whilst this coal was being worked out + nothing was done in the seam between and when the seam was struck in Laceys Brut:- Levels have been driven from this Brut back East to the Stonebank Fault, and are now proceeding West to the Tunnel barrier. Some drifting work was opened out above these levels, but owing to the large volume of water, and steep gradient drifting could not be successfully continued Headings have therefore been started to the rise, and later the coal will be worked by the Heading, and Drifting method.

Report for March 1910:- The Output from Laceys Brut district varies from 350 tons to 400 tons per week, but the cost is excessive varying from 4/10 to 6/7. normally about 6/- This is due to the cost of yardage which alone is per ton The timber cost is also high due to bad wet roof. The conditions may improve later as the ground is drained by narrow work in opening out:

Miners Wages in The Federated Area, namely Lancashire. Cheshire. North Wales. Staffordshire. Yorkshire. Derbyshire, Nottinghamshire. Leicestershire, & Warwickshire.

Settlements by the Conciliation Board of the Federated districts:-



No. 7.

Birchenwood Seam

Graphical Statement of Output, Shifts worked and Output per shift, each week during the Year 1910.

Output — Tons

Weeks Ending

Jan	Feb	Mar	Apl	May	June	July	Aug	Sept	Oct	Nov	Dec
8 15 22 29	5 12 19 26	5 12 19 26	2 9 16 23 30	6 13 20 27	4 11 18 25	2 9 16 23 30	6 13 20 27	3 10 17 24	1 8 15 22 29	5 12 19 26	3 10 17 24 31

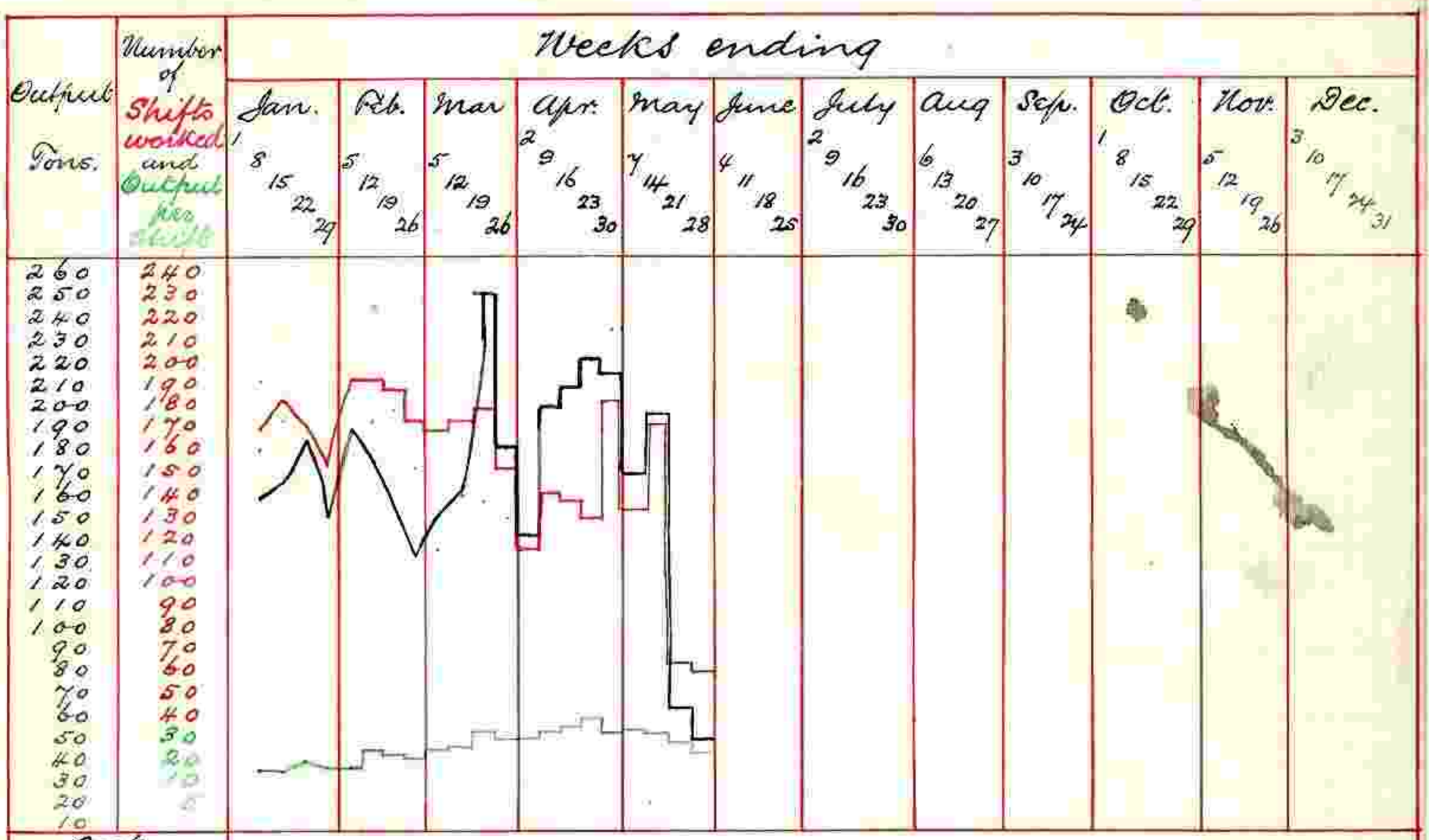
100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15

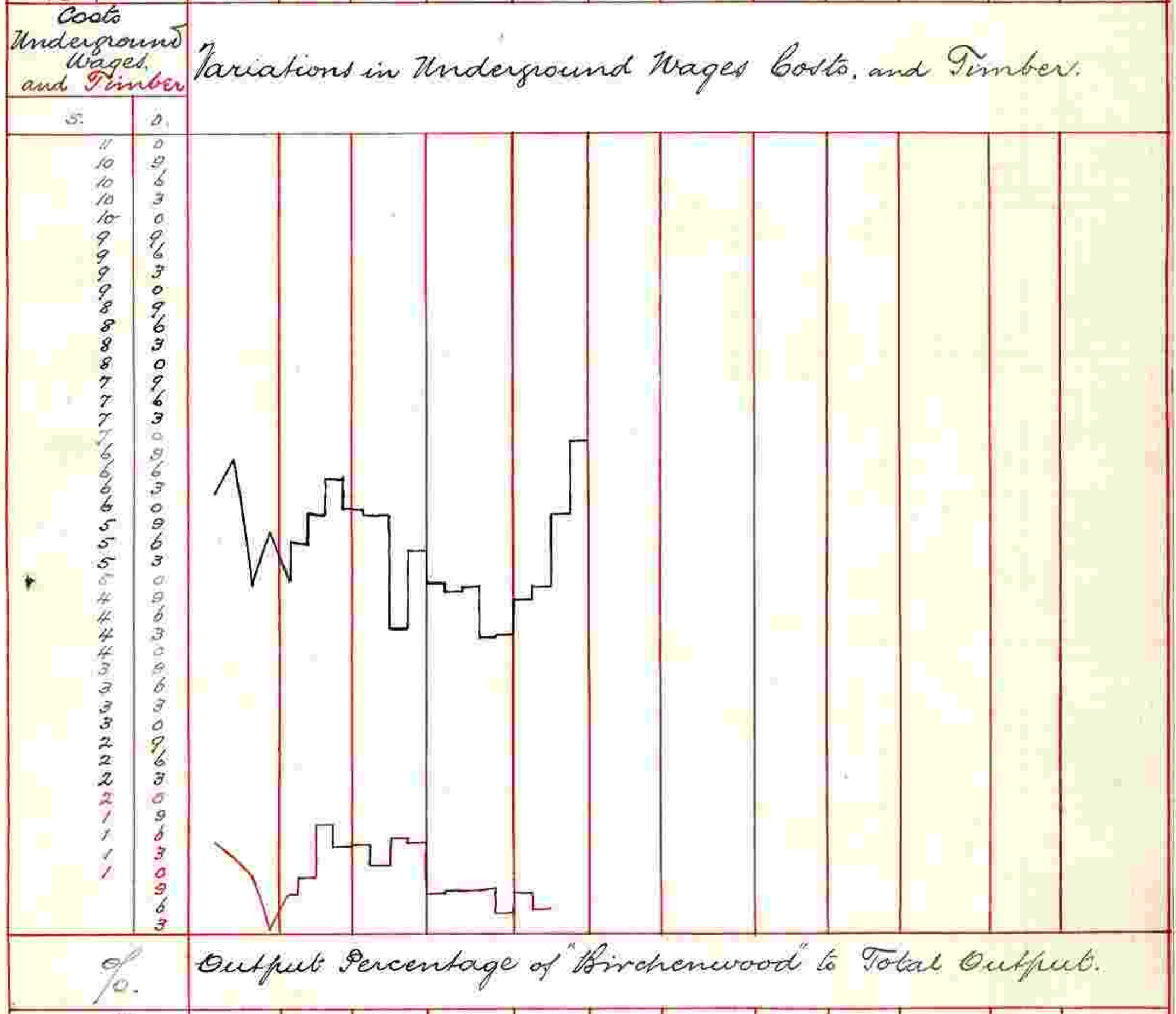
Shifts Worked

Output per shift

Birchenwood Seam.

Graphical Statement of Output, Shifts worked, and Output per Shift, each Week during 1910.

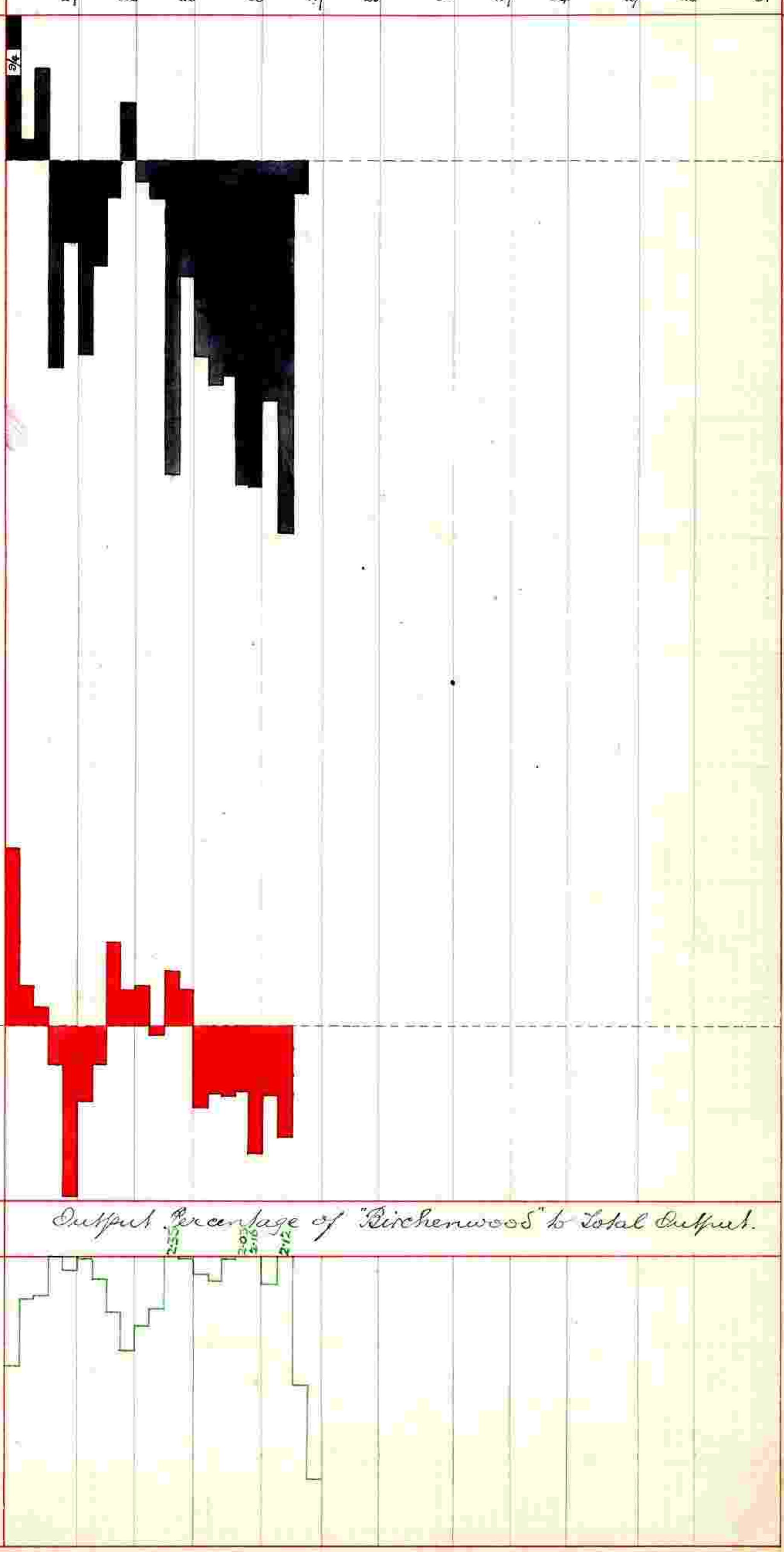




The East District beyond the Oldcote fault off 16th Main Coal finished on Saturday May 28th 1910.

Birchenwood Seam.

Graphical Statement of Underground Wages and Timber Costs, also Output Percentage of Birchenwood to Total Output



Rough Seven Feet Seam

Graphical Statement of Output, Shifts worked and Output per Shift, each week during the Year 1910.

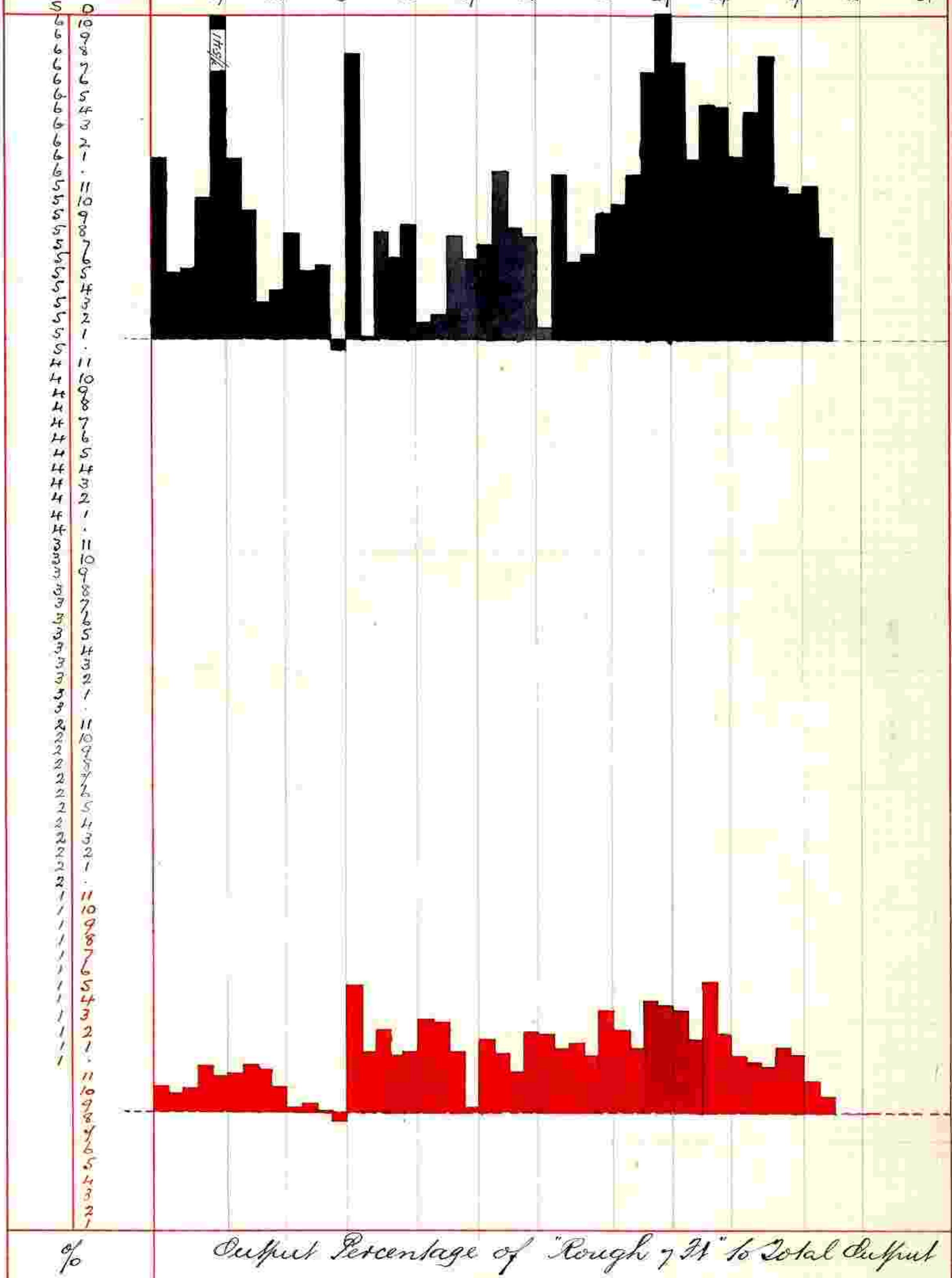
Rough Seven Feet Seam

Graphical Statement of Underground Wages and Timber Costs, also Output Percentage of Rough 7 Ft" to Total Output

Costs: Underground Wages and Timber

Variations in Underground Wages Costs and Timber

Jan 1 8 15 22 29 | Feb 5 12 19 26 | Mar 5 12 19 26 | Apl 2 9 16 23 30 | May 6 13 20 27 | June 4 11 18 25 | July 2 9 16 23 30 | Augt 6 13 20 27 | Sept 3 10 17 24 | Oct 1 8 15 22 29 | Nov 5 12 19 26 | Dec 3 10 17 24 31



% Output Percentage of "Rough 7 Ft" to Total Output

Ten Feet Seam

Graphical Statement of Output, Shifts worked, and Output per shift, each week during the Year 1910.

Output. Tons	Weeks Ending											
	Jan 1 8 15 22 29	Feby 5 12 19 26	Mar 5 12 19 26	Apr 2 9 16 23 30	May 7 14 21 28	June 4 11 18 25	July 2 9 16 23 30	Aug 6 13 20 27	Sept 3 10 17 24	Oct 1 8 15 22 29	Nov 5 12 19 26	Dec 3 10 17 24 31
800												
780												
760												
740												
720												
700												
680												
660												
640												
620												
600												
580												
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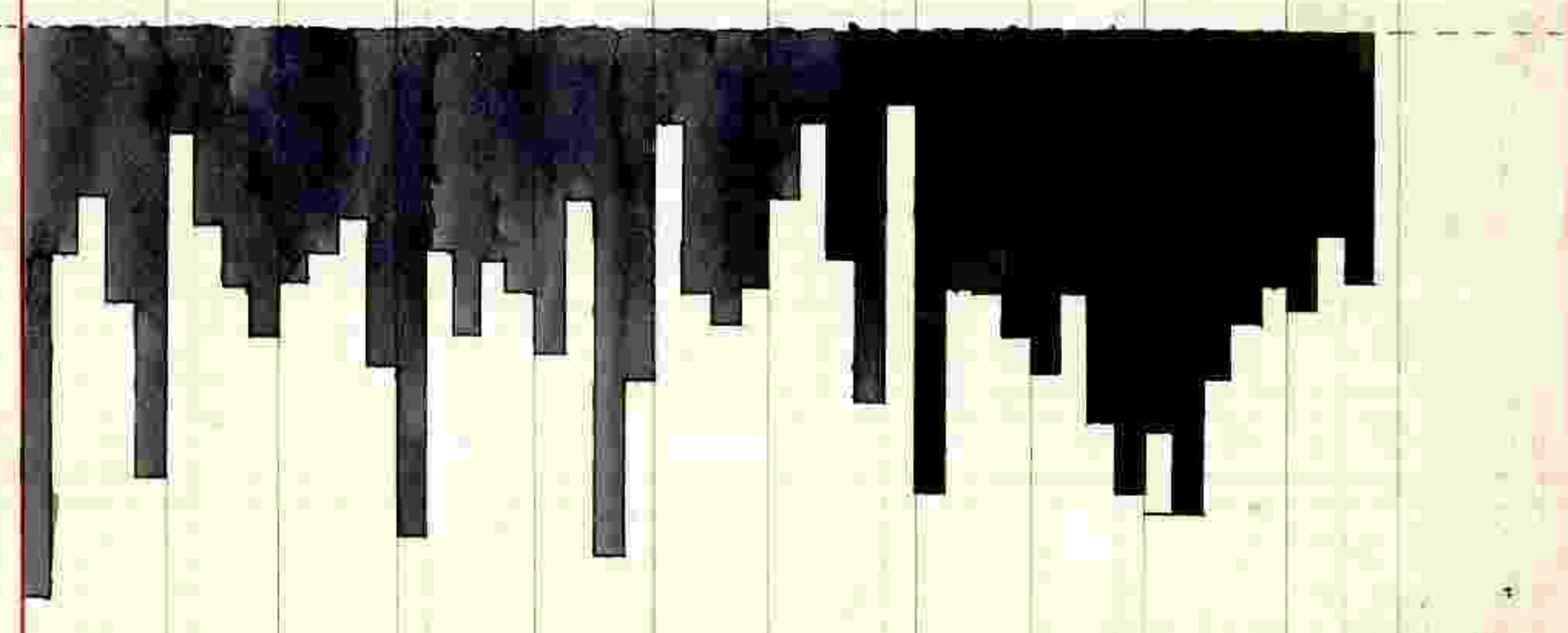
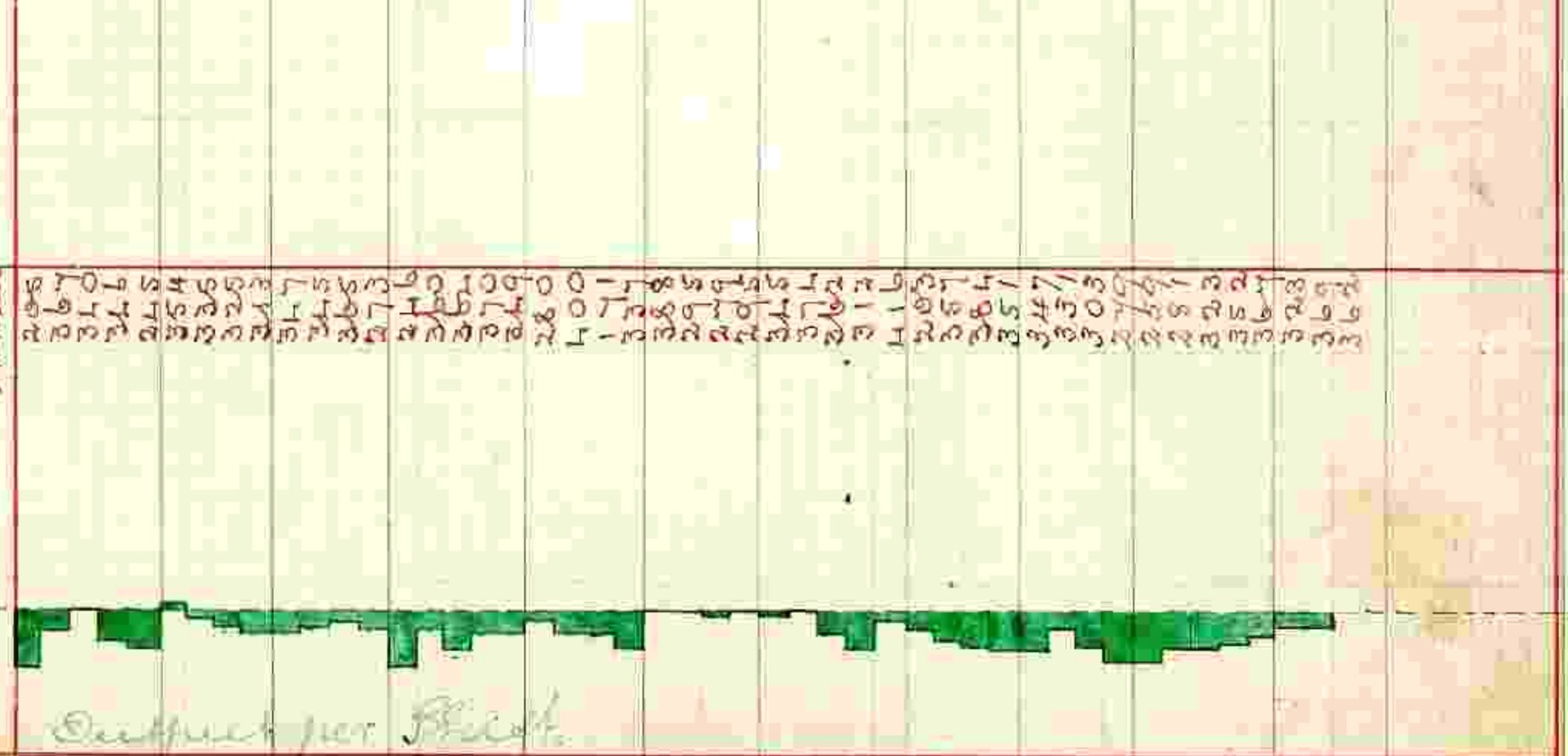
160												
140												
120												
100												





Ten Feet Seam

Graphical Statement of Underground Wages and Timber Costs, also Output Percentage of "Ten Feet" to Total Output

Costs: Underground Wages and Timber

£ s d

10 0 0
9 0 0
8 0 0
7 0 0
6 0 0
5 0 0
4 0 0
3 0 0
2 0 0
1 0 0
0 19 0
0 18 0
0 17 0
0 16 0
0 15 0
0 14 0
0 13 0
0 12 0
0 11 0
0 10 0
0 9 0
0 8 0
0 7 0
0 6 0
0 5 0
0 4 0
0 3 0
0 2 0
0 1 0
0 0 0
0 1 0
0 2 0
0 3 0
0 4 0
0 5 0
0 6 0
0 7 0
0 8 0
0 9 0
0 10 0
0 11 0
0 12 0
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0 14 0
0 15 0
0 16 0
0 17 0
0 18 0
0 19 0
1 0 0
2 0 0
3 0 0
4 0 0
5 0 0
6 0 0
7 0 0
8 0 0
9 0 0
10 0 0

Variations in Underground Wages, Costs and Timber

Jany 1 8 15 22 29
Feby 5 12 19 26
Mar 5 12 19 26
Apr 2 9 16 23 30
May 7 14 21 28
June 4 11 18 25
July 2 9 16 23 30
Aug 6 13 20 27
Sept 3 10 17 24
Oct 1 8 15 22 29
Nov 5 12 19 26
Dec 3 10 17 24 31

£ s d

10 0 0
9 0 0
8 0 0
7 0 0
6 0 0
5 0 0
4 0 0
3 0 0
2 0 0
1 0 0
0 19 0
0 18 0
0 17 0
0 16 0
0 15 0
0 14 0
0 13 0
0 12 0
0 11 0
0 10 0
0 9 0
0 8 0
0 7 0
0 6 0
0 5 0
0 4 0
0 3 0
0 2 0
0 1 0
0 0 0
0 1 0
0 2 0
0 3 0
0 4 0
0 5 0
0 6 0
0 7 0
0 8 0
0 9 0
0 10 0
0 11 0
0 12 0
0 13 0
0 14 0
0 15 0
0 16 0
0 17 0
0 18 0
0 19 0
1 0 0
2 0 0
3 0 0
4 0 0
5 0 0
6 0 0
7 0 0
8 0 0
9 0 0
10 0 0

Output Percentage of "Ten Feet" to Total Output

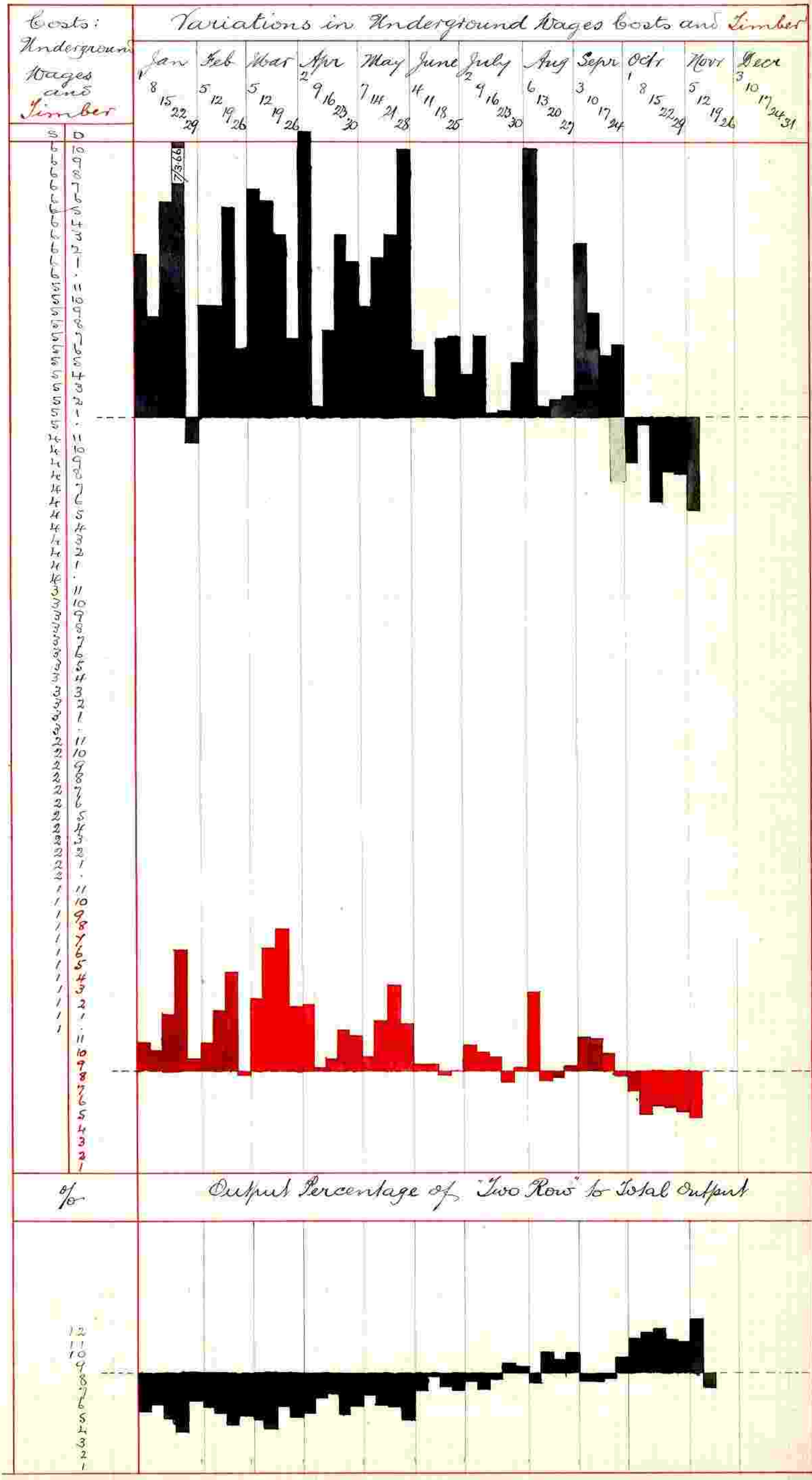
% 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

Two Row Seams

Graphical Statement of Output, Shifts worked and Output per Shift, each week during the year 1910.

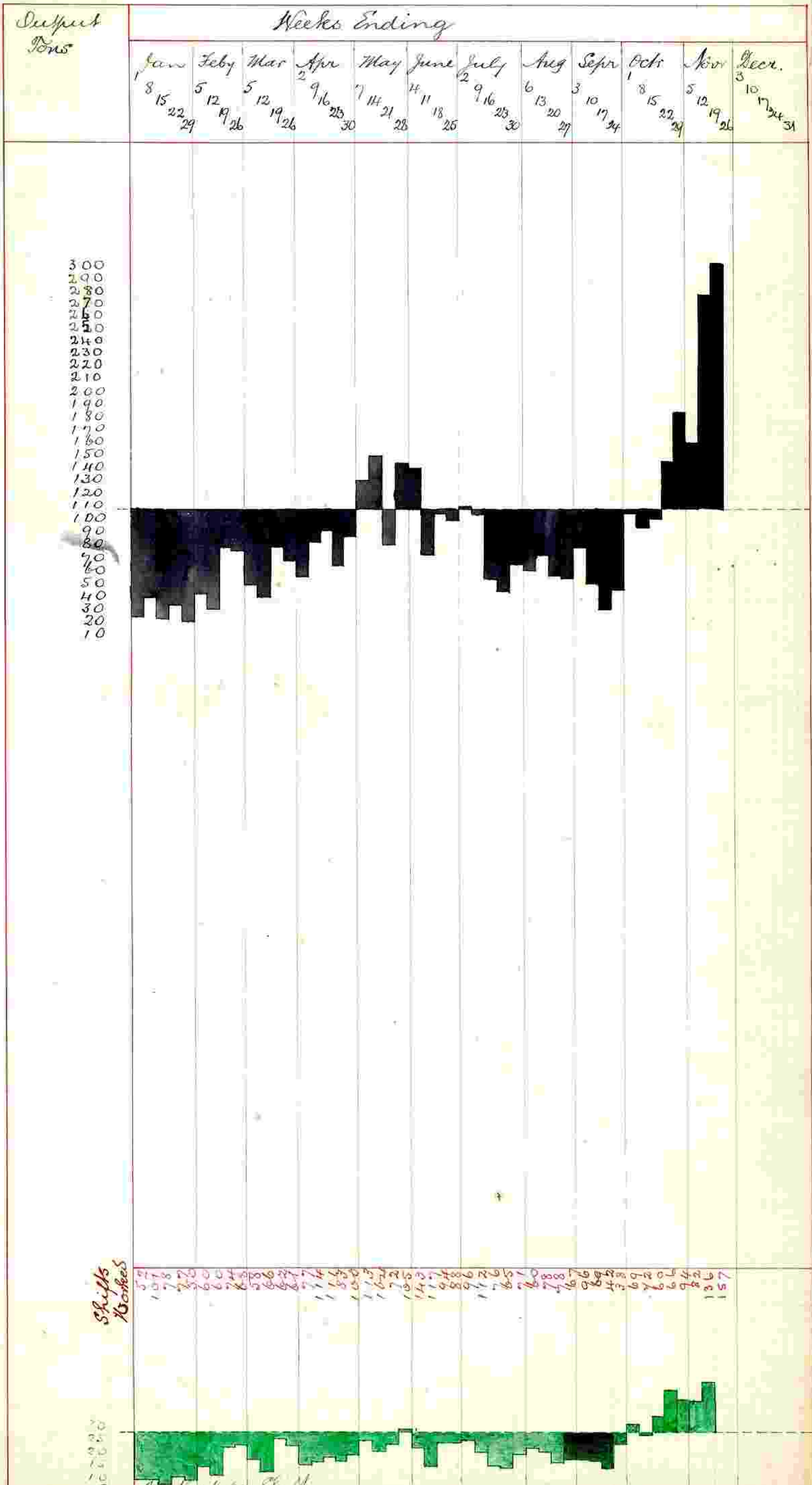
Two Row Seams

Graphical Statement of Underground Wages and Timber Costs also Output Percentage of "Two Rows" to Total Output.



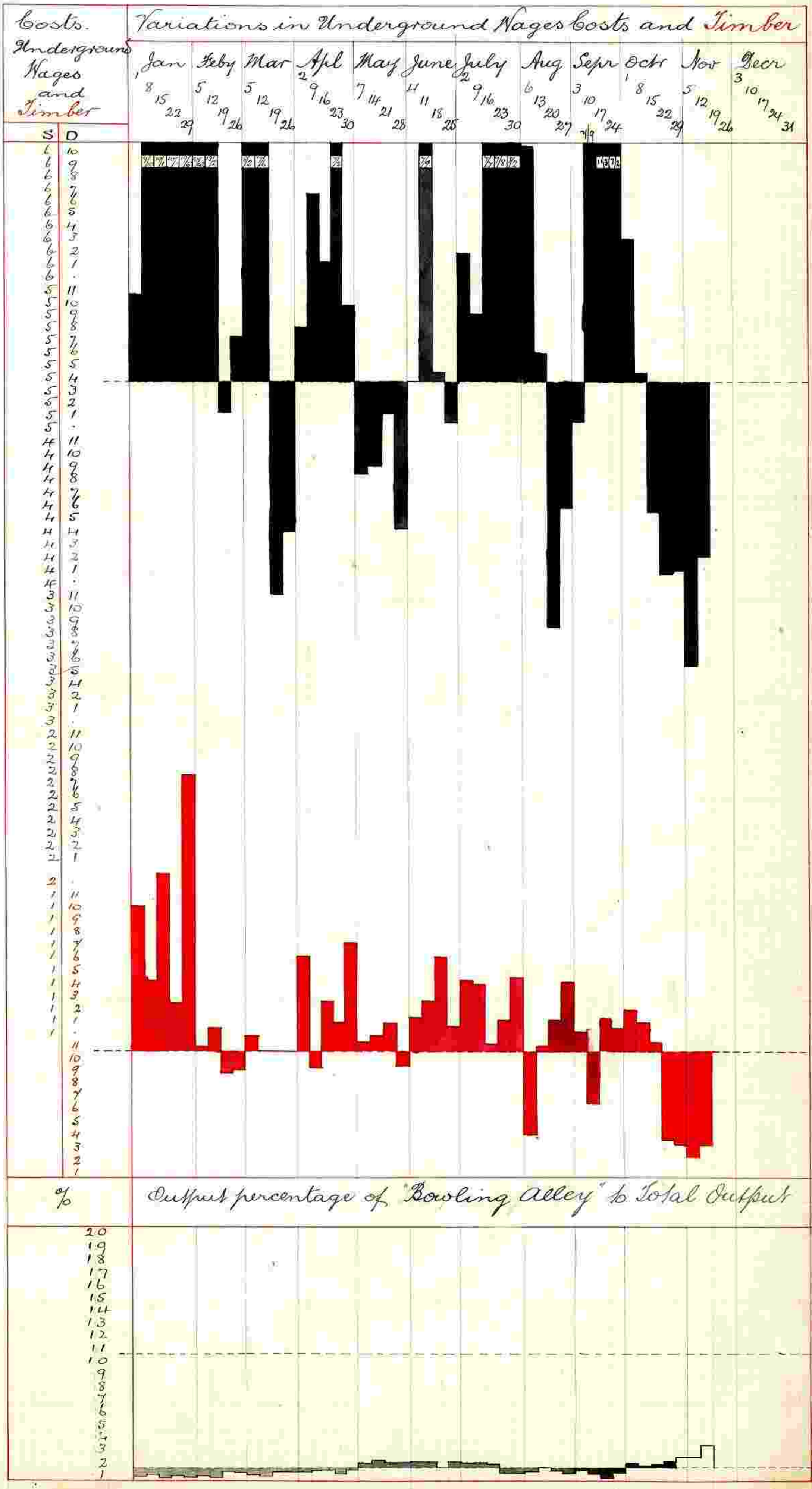
Bowling Alley Seam

Graphical Statement of Output, Shifts worked and Output per Shift, each week during the Year 1910.



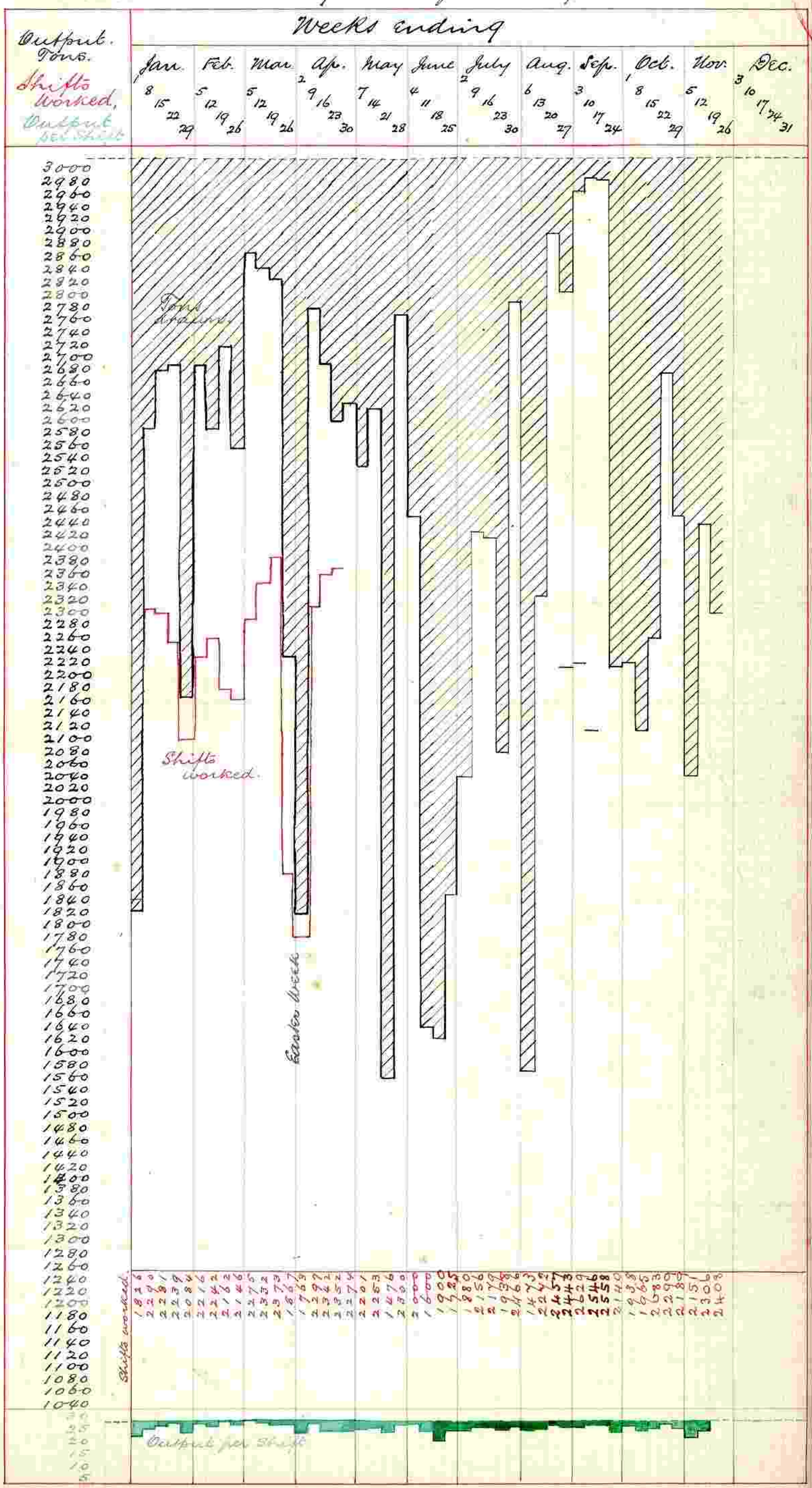
Bowling Alley Seam

Graphical Statement of Underground Wages and Timber costs, also Output Percentage of Bowling Alley to Total Output.



— Seven Feet Banbury Seam. —

Graphical Statement of Output, Shifts Worked, and Output per Shift, each Week during the Year 1910:-



Seven Feet Banbury Seam.

Graphical Statement of Underground Wages, and Timber Costs, also Output Percentage of Seven feet Banbury to Total Output

Costs Underground Wages and Timber

Variations in Underground Wages Costs, and Timber

Jan 1 8 15 22 29 | Feb. 5 12 19 26 | Mar 5 12 19 26 | Apr. 2 9 16 23 30 | May 7 14 21 28 | June 4 11 18 25 | July 2 9 16 23 30 | Aug 6 13 20 27 | Sep. 3 10 17 24 | Oct. 1 8 15 22 29 | Nov. 5 12 19 26 | Dec. 3 10 17 24 31

S. | D.

0/0. Output percentage of "Seven feet Banbury" to Total Output.

—Eight Feet Banbury Seam—

Graphical Statement of Output, Shifts worked and Output per Shift, each Week during the year 1910.

Output Tons. Shifts Worked Output per Shift

Weeks ending

Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1 8 15 22 29	5 12 19 26	5 12 19 26	2 9 16 23 30	7 14 21 28	4 11 18 25	½ 9 16 23 30	6 13 20 27	3 10 17 24	1 8 15 22 29	5 12 19 26	3 10 17 24 31

Eight Feet Banbury Seam

Graphical Statement of Underground Wages and Timber costs, also Output Percentage of Eight feet Banbury to Total Output.

Costs Underground Wages and Timber

Variations in Underground Wages costs and Timber

£	d	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
	10	1 8 15 22 29	5 12 19 26	5 12 19 26	2 9 16 23 30	7 14 21 28	4 11 18 25	2 9 16 23 30	6 13 20 27	3 10 17 24	1 8 15 22 29	5 12 19 26	3 10 17 24 31
	9												
	8												
	7												
	6												
	5												
	4												
	3												
	2												
	1												
	11												
6	10												
6	9												
6	8												
6	7												
6	6												
6	5												
6	4												
6	3												
6	2												
6	1												
6	0												
5	11												
5	10												
5	9												
5	8												
5	7												
5	6												
5	5												
5	4												
5	3												
5	2												
5	1												
5	0												
4	11												
4	10												
4	9												
4	8												
4	7												
4	6												
4	5												
4	4												
4	3												
4	2												
4	1												
4	0												
3	11												
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3	8												
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3	6												
3	5												
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2	11												
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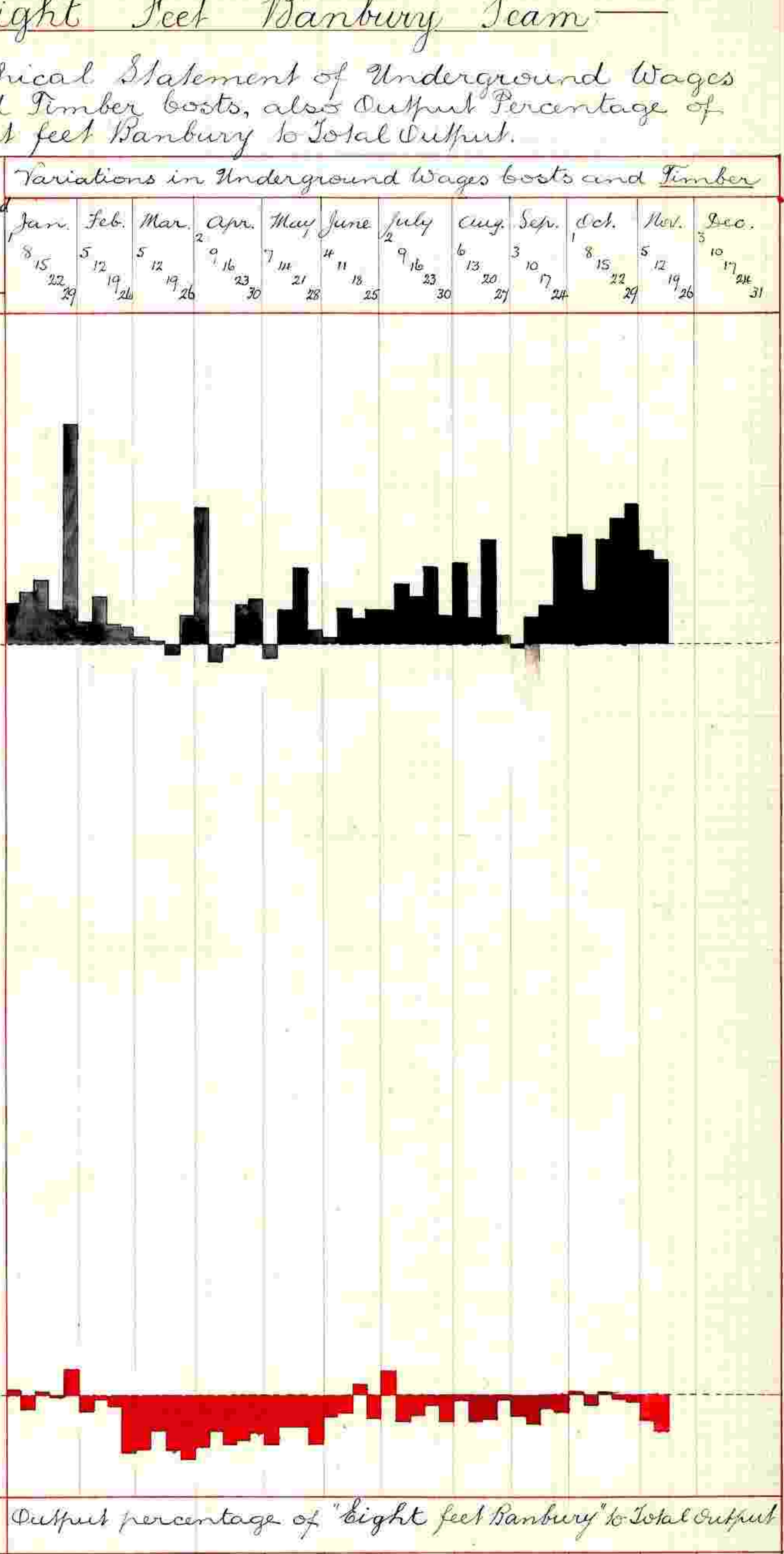
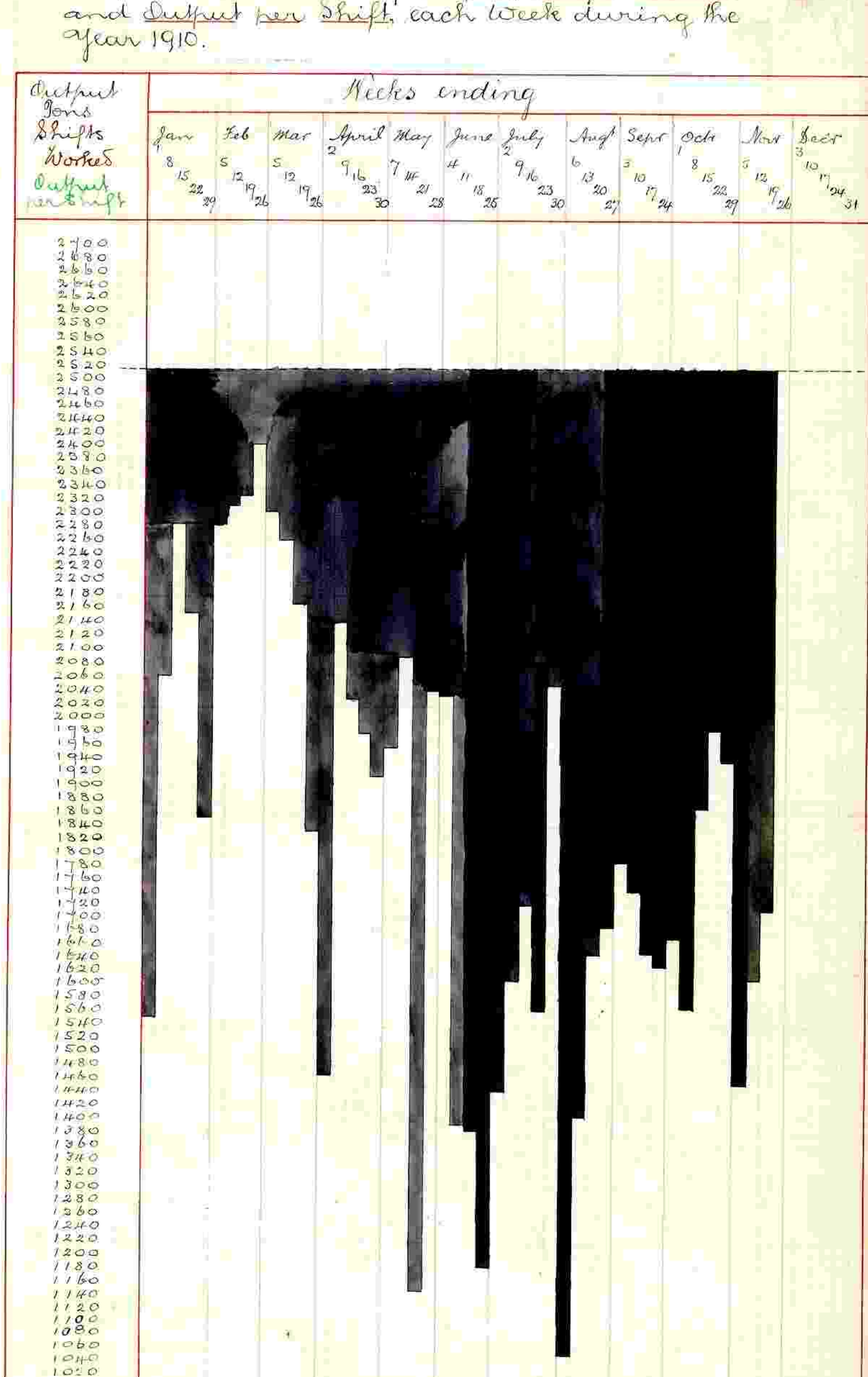
1	10												
1	9												
1	8												
1	7												
1	6												
1	5												
1	4												
1	3												
1	2												
1	1												



%	Output percentage of "Eight feet Banbury" to Total Output
30	
29	
28	
27	
26	
25	
24	
23	
22	
21	
20	
19	
18	
17	
16	
15	
14	
13	
12	
11	

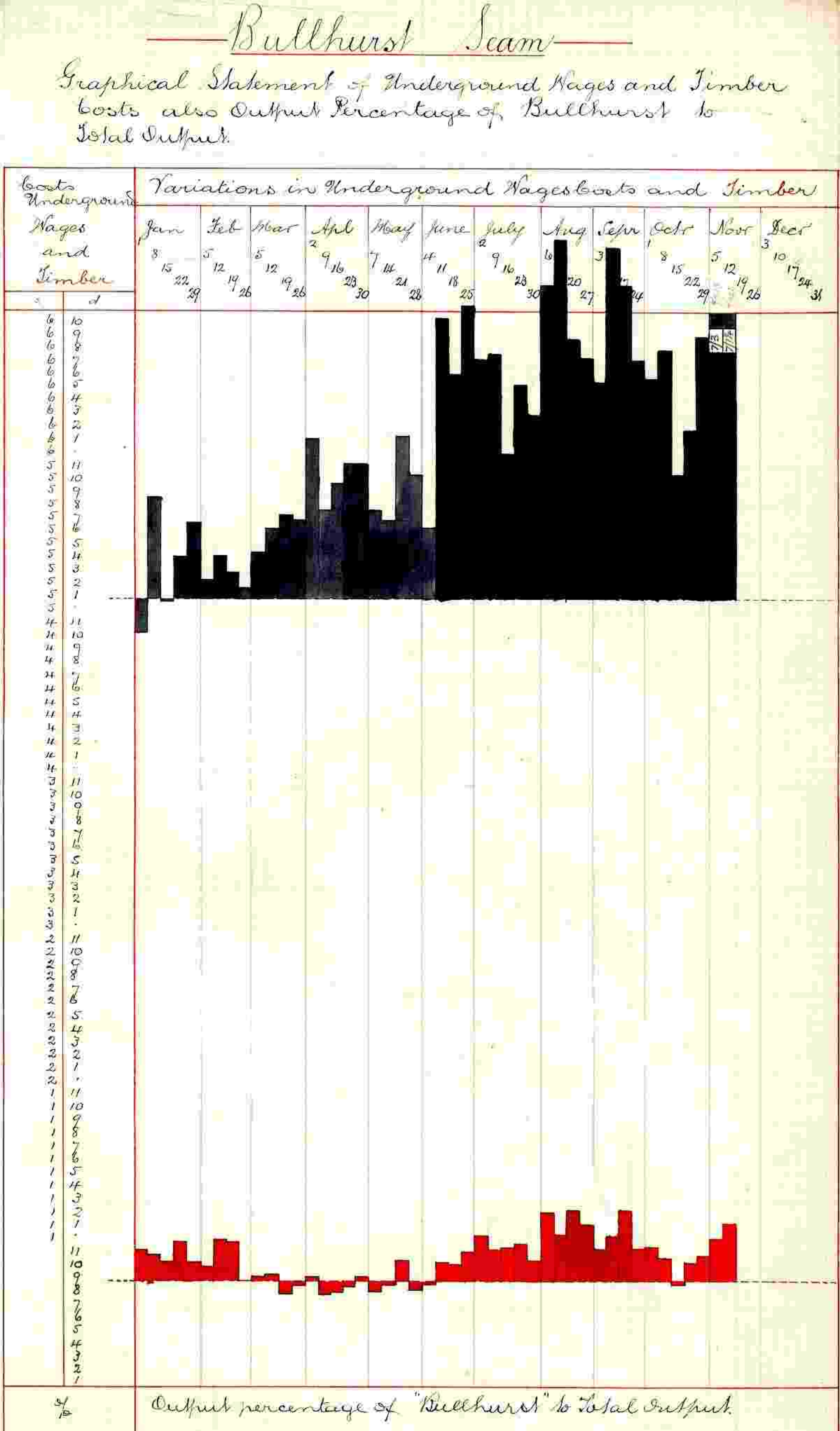
Bullhurst Seam

Graphical Statement of Output, Shifts worked and Output per Shift, each week during the year 1910.



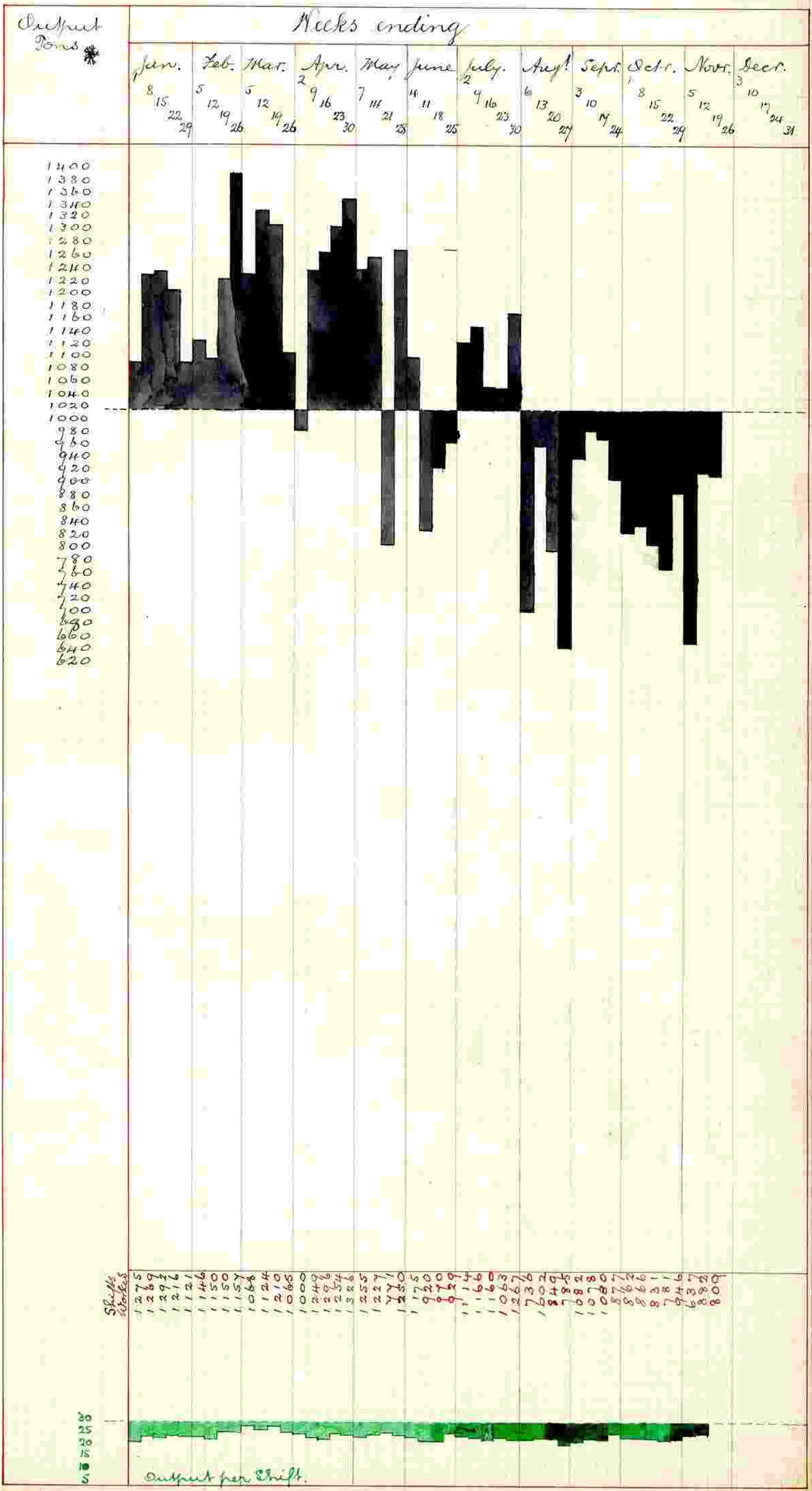
Bullhurst Seam

Graphical Statement of Underground Wages and Timber costs also Output Percentage of Bullhurst to Total Output.



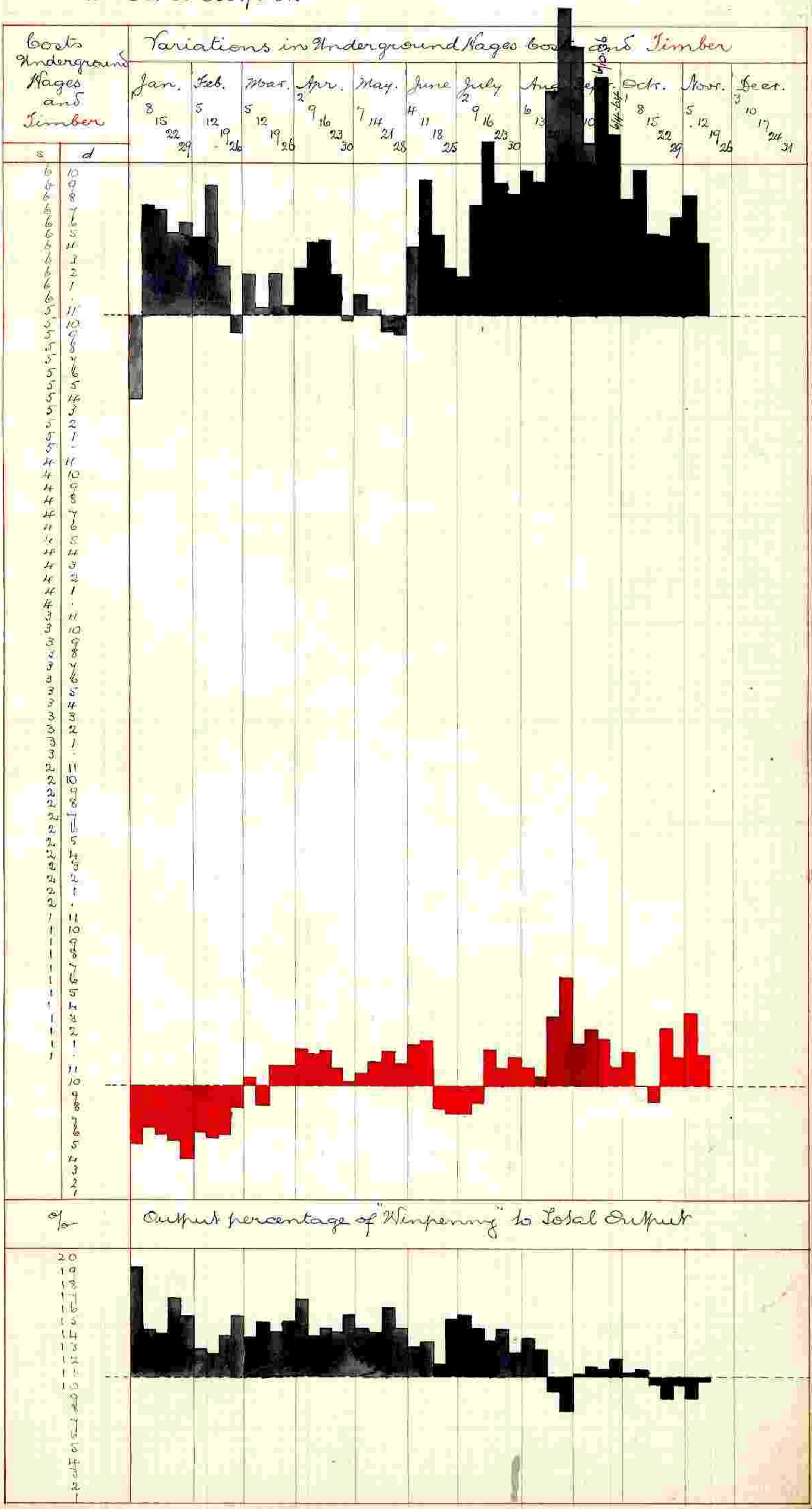
Winpenny Seam

Graphical Statement of Output, Shifts worked and Output per Shift, each Week during the year 1910.



Winpenny Seam

Graphical Statement of Underground Wages and Timber costs also Output Percentage of Winpenny to Total Output.



Total Amounts

Graphical Statement of Underground Wages and Timber Costs. 1910

Costs: Underground Wages and Timber		Variations in Underground Wages Costs and Timber											
		Jan 8 15 22 29	Feby 5 12 19 26	Mar 5 12 19 26	Apr 2 9 16 23 30	May 7 14 21 28	June 4 11 18 25	July 2 9 16 23 30	Augt 6 13 20 27	Sept 3 10 17 24	Oct 1 8 15 22 29	Nov 5 12 19 26	Dec 3 10 17 24 31
S	D												
6	10												
6	9												
6	8												
6	7												
6	6												
6	5												
6	4												
6	3												
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6	1												
6	0												
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4	0												
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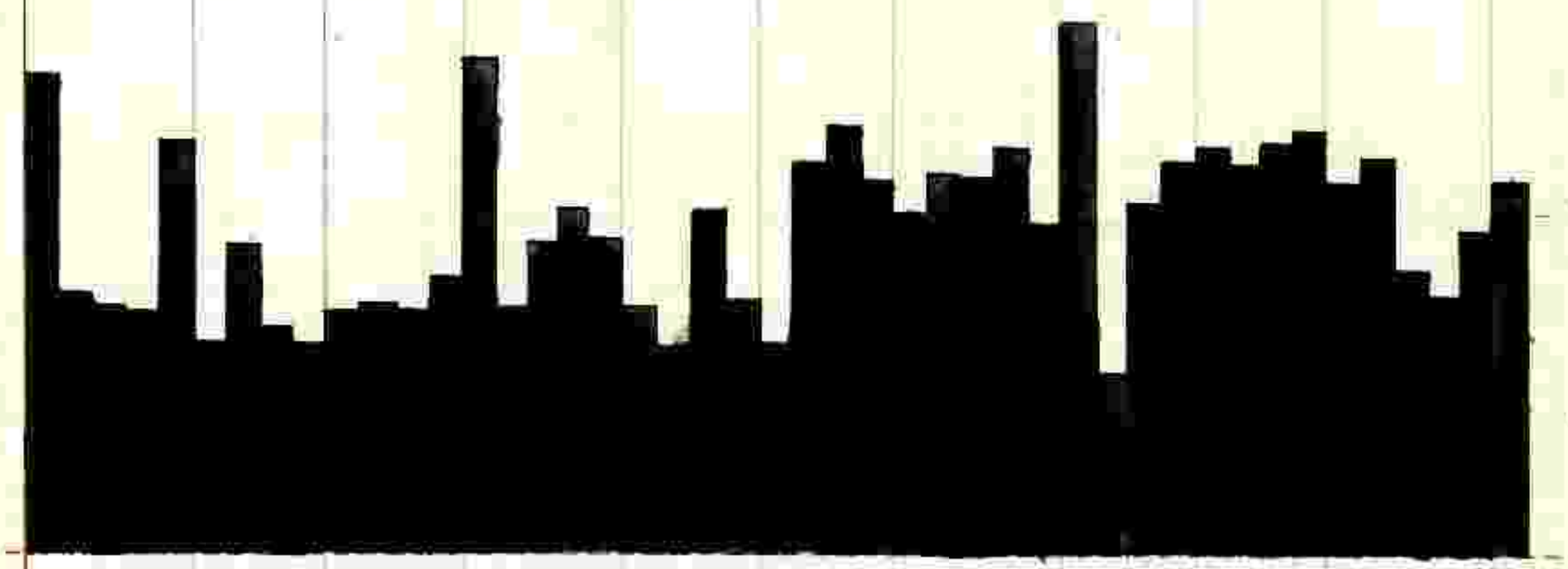
1	1												
1	0												



Total Output

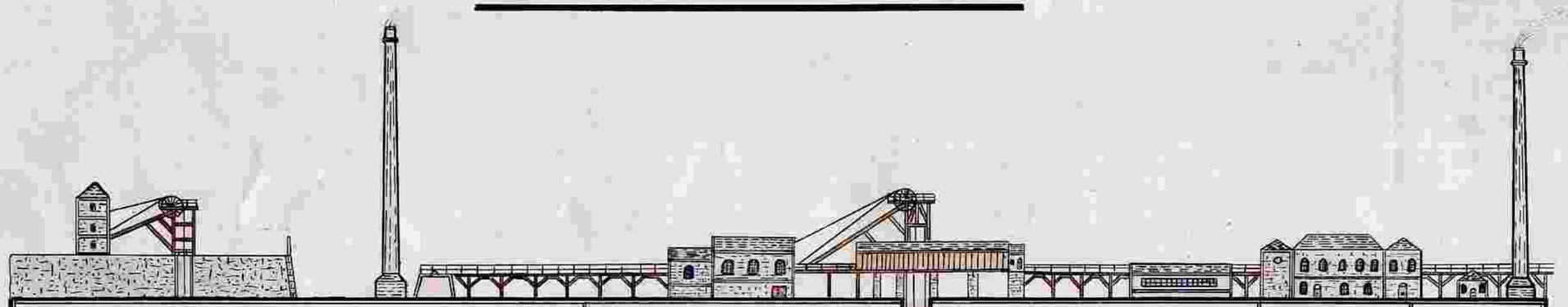
Graphical Statement of Output, Shifts worked and Output per Shift each week during the Year 1910.

— SECTION —
— OF —
— Nº 18 SHAFT —

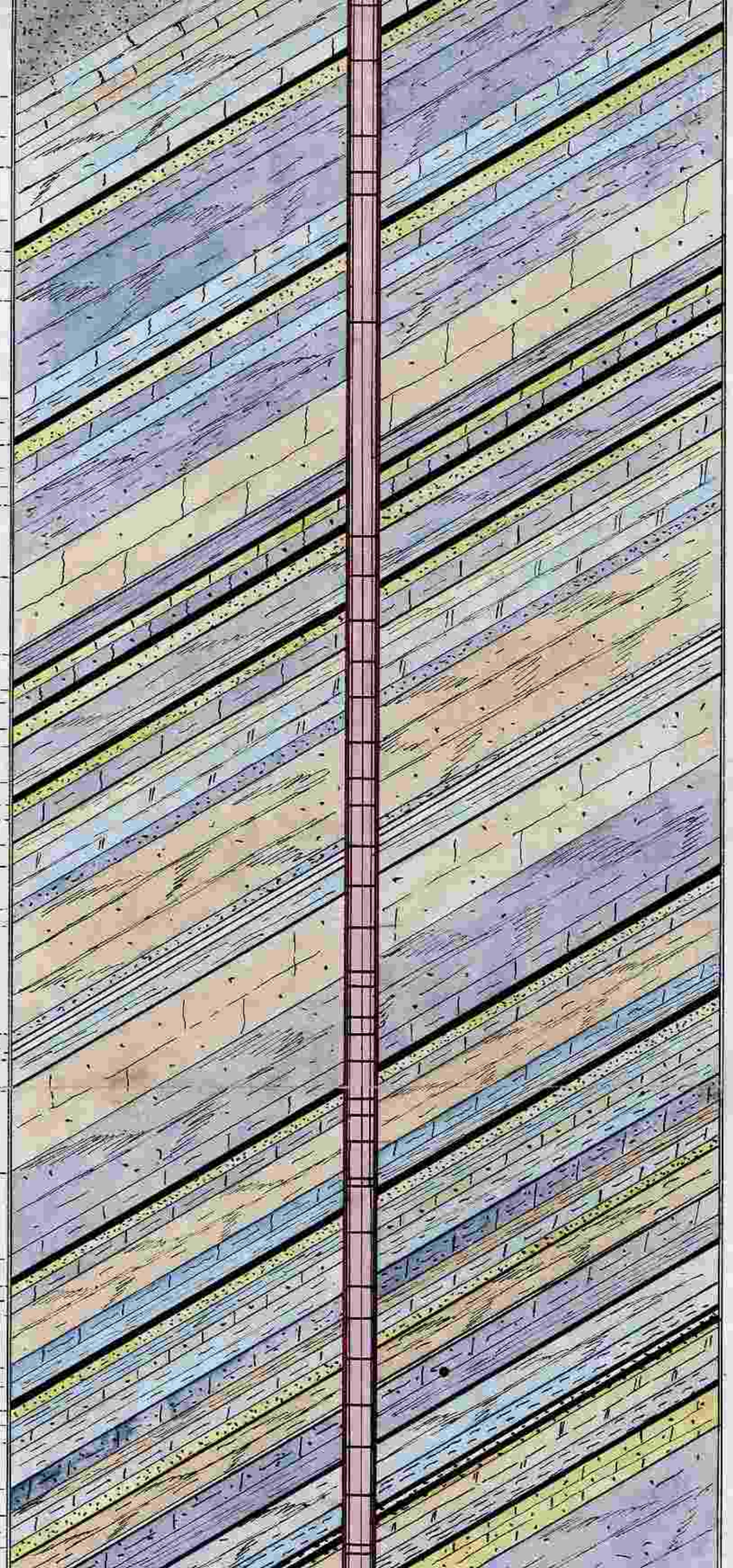
Section of the Strata

sunk through in

Nº 18 SHAFT



STRATA	DIP	1 IN 1·73	THICKNESS YDS	FT	INS	DEPTH YDS	FT	INS
				5	6	47	1	1
			3	0	6			
			6	2	8			
			26	1	6			
			4	1	5			
			2	1	0	91	0	0
			5	1	0			
			3	0	5			
MADE GROUND PRINCIPALLY ASHES			6	2	2			
GREY BASS			10	0	7			
ROCK and METAL								
STRONG GREY BASS								
STONEY EIGHT FEET			21	2	0			
WARRANT			1	0	4			
ROCK BINDS			5	0	2	139	0	4
			1 6	0	2 0 1/2	145	1	4
				2	1 1/2	153	0	6
ROCK			15	1	7 6			
HARD GREY BASS			1	1	11	170	0	7
TEN FEET			8	1	4			



MADE CROUND PRINCIPALLY ASHES	2	1	0	3	91	0 0
GREY BASS	25	1	0	5		
ROCK and METAL	36	2	0	2		
STRONG GREY BASS	10	0	0	7		
STONEY EICHT FEET	21	2	0	8		
WARRANT	1	0	0	4	139	0 4
ROCK BINDS	51	0	0	2	145	1 4
	16	2	0	5	153	0 6
ROCK	15	1	1	6		
HARD GREY BASS	1	1	1	7	170	0 7
TEN FEET	8	1	1	4		
WARRANT	4	1	0	10		
ROCK BINDS BLUE	11	0	0	4		
Do Do RED	3	0	0	3		
ROCK RED and STREAKED						
SOFT BLUE METAL	26	2	0	8	226	0 7
TOP TWO ROW	1	0	0	7		
MILD CLUNCH	9	0	1	0		
BOTTOM TWO ROW						
YARD COAL	12	2	1	1		
ROCK BINDS						
BOWLING ALLEY	26	2	1	1	279	0 9
WARRANT	34	1	1	8		
ROCK BINDS	11	1	0	4		
MARL YELLOW	5	1	1	5		
CLOD WITH IRONSTONE BANDS	2	1	3	5	306	1 7
ROCK	5	2	2	0		
	2	1	1	0		
METAL WITH STONE BANDS	10	0	1	4		
COAL	5	0	1	4		
CLUNCH	9	1	1	0		
COAL	1	0	1	8		
CLOD	9	1	0	11		
COAL	9	1	2	0	364	1 1
ROCK BINDS WITH METAL BANDS	4	0	2	7		
	3	0	2	0	369	0 8
ROCK	3	0	2	0	373	1 9
SEVEN FEET BANBURY	1	0	1	4		
WARRANT	15	1	2	9	391	1 0
ROCK VERY JOINTED						
METAL WITH STONE BANDS						
DARK BASS						
EICHT FEET BANBURY						
HARD WARRANT						
ROCK BINDS						
METAL						
BLACK BASS						
ROCK BINDS AND STONE						
METAL						
BLACK BASS						
WARRANT						

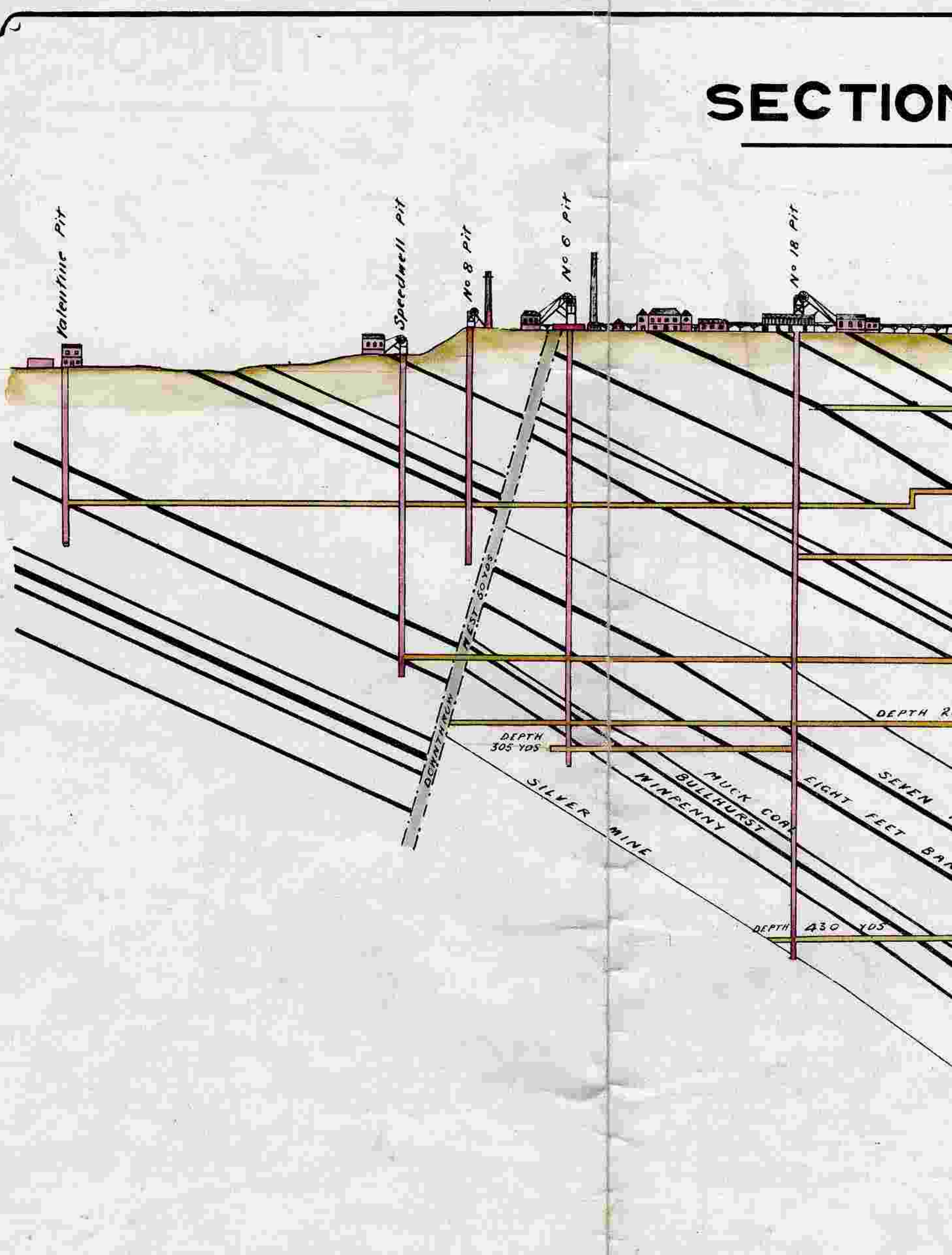
SOFT BLUE METAL	26	2	8	226	0	7
TOP TWO ROW	1	0	8			
MILD CLUNCH	9	0	3			
BOTTOM TWO ROW		0	7			
YARD COAL	12	2	11			
ROCK BINDS						
BOWLING ALLEY						
WARRANT						
ROCK BINDS						
MARL YELLOW	26	2	11	279	0	9
CLOD WITH IRONSTONE BANDS	4	1	6			
ROCK	3	1	2			
	11	1	4			
	5	1	5			
	2	1	3	306	1	7
METAL WITH STONE BANDS	5	2	5			
COAL	2	0	11			
CLUNCH	10	0	4			
COAL	5	1	4			
CLOD	9	1	6			
COAL	1	1	0			
	9	1	8			
ROCK BINDS WITH METAL BANDS	9	1	11			
	1	2	10			
	1	2	0	364	1	1
ROCK	4	0	7			
SEVEN FEET BANBURY				369	0	8
WARRANT	3	0	8	373	1	9
ROCK VERY JOINTED			5			
		2	4			
METAL WITH STONE BANDS	15	1	2	391	1	0
DARK BASS			9			
EIGHT FEET BANBURY			0			
HARD WARRANT						
ROCK BINDS						
METAL						
BLACK BASS						
ROCK BINDS AND STONE						
METAL						
BLACK BASS						
WARRANT						
METAL						
ROCK WITH IRONSTONE NODULES						
COAL (JOHNNY GALLEY)						
BASS						
RIDER COAL						
BULLHURST						
WARRANT						
ROCK BINDS						
WINPENNY						
				MAIN INSET	430	0 0
				TOTAL DEPTH	440	0 5

SCALE 30 YARDS TO ONE INCH

SECTION OF MINES

2

SECTION

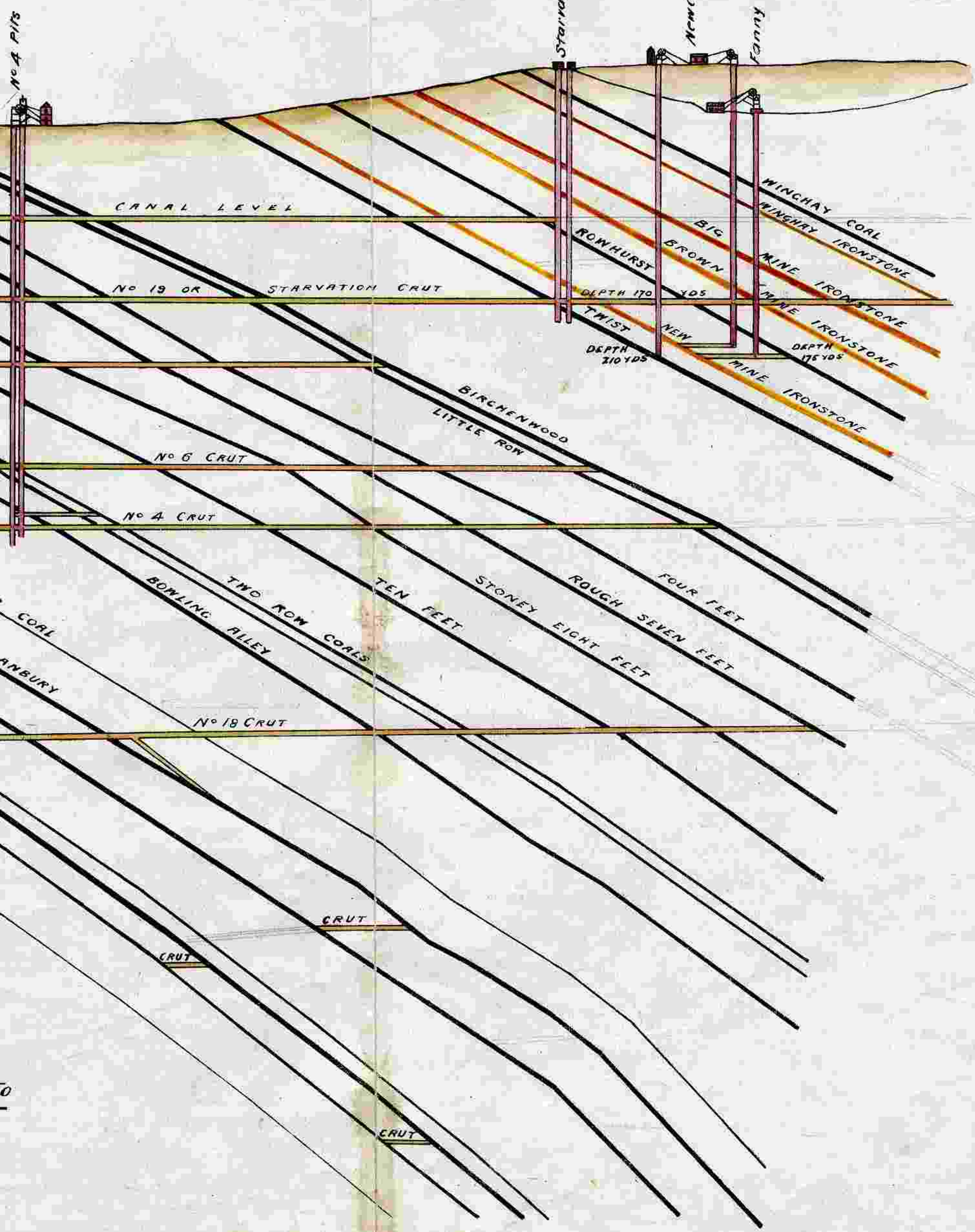


Scal

SECTION OF MINES

Scale 1/2500

OF MINES


No 4 Pits
Starvation Pit
Newchapel Pits
Fanny Pit
CANAL LEVEL
No 19 OR STARVATION CRUT
DEPTH 170 YDS
DEPTH 210 YDS
DEPTH 175 YDS
BIRCHENWOOD
LITTLE ROW
No 6 CRUT
No 4 CRUT
No 18 CRUT
CRUT
CRUT
CRUT
WINGHAY COAL
WINGHAY IRONSTONE
BIG ROWHURST
BROWN MINE IRONSTONE
TWIST MINE IRONSTONE
NEW MINE IRONSTONE
FOUR FEET
ROUGH SEVEN FEET
STONEY EIGHT FEET
TEN FEET
TWO ROW COALS
BOWLING ALLEY
COAL
ANBURY

ESTATE PLAN

3

ESTA

ONE ACRE.

Woodshutts Pit

Manchester

Harecastle Station

Calley Pit

Kidsw... Pit

to Lawton

TALKE PITS

Leased to Talke-o'th'-Hill Colliery Co

Top Lodge

HOLLINWOOD

Clough Hall

HARECASTLE TUNNELS

Bath Pool

Harecastle Farm

BARRIER

Harecastle Pit

ACRES MOOR

Child

Peacock Hay

HOMER

WILLIAMSON

SNEYD

CHILD

WILLIAMSO

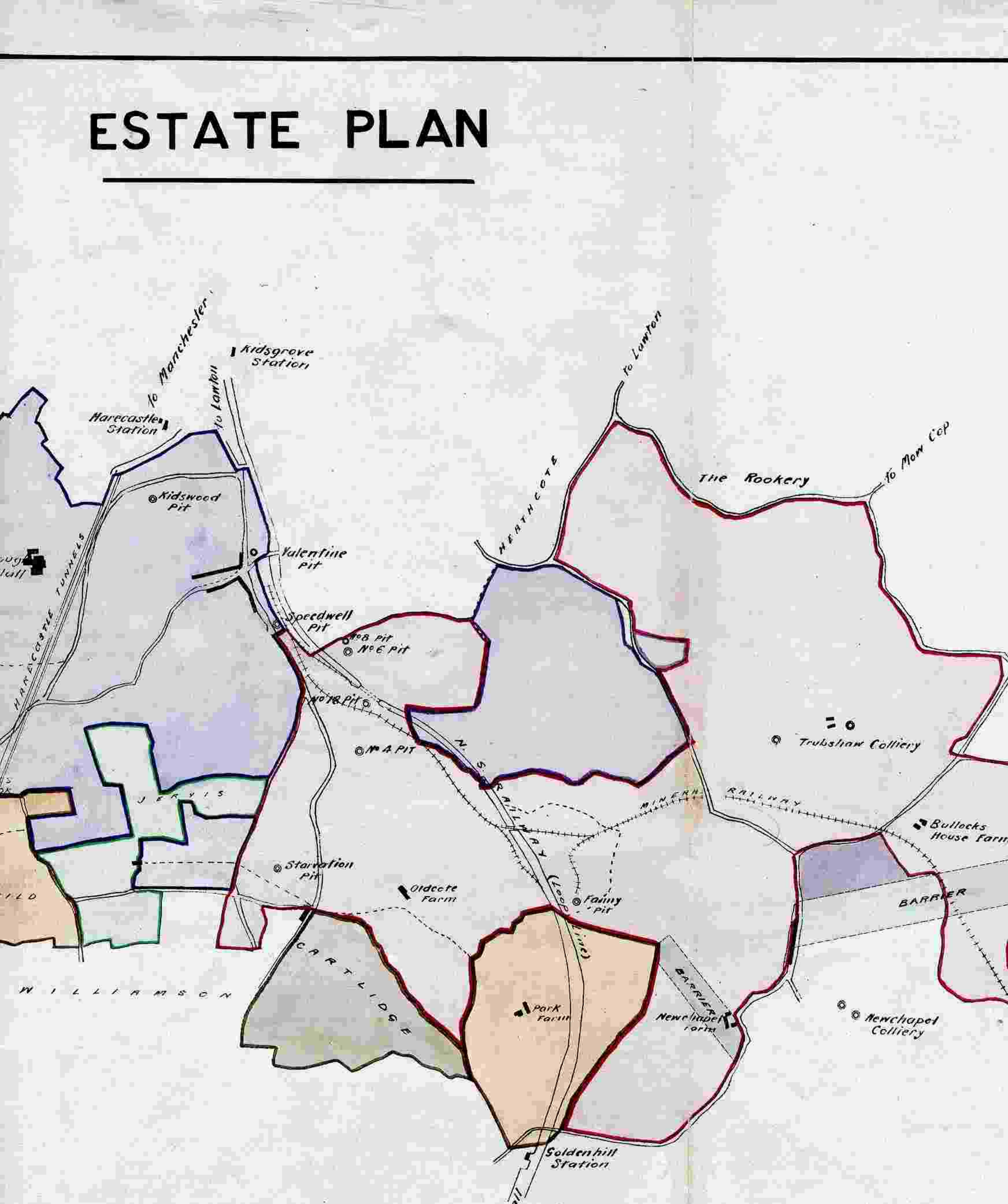
from Harecastle

from Chatterley

from London

Scale

ESTATE PLAN



Scale 6 Inches to One Mile

PLAN

to Lawton

HEATHCOTE

The Rookery

to Mow Cop

to Mow Cop

to Mow Cop

pit
E pit

A PIT

N. S. RAILWAY

MINERAL RAILWAY

Trubshaw Colliery

to Biddulph

Bullocks House Farm

Oldcote Farm

Fanny Pit

BARRIER

Park Farm

BARRIER

Newchapel Farm

Newchapel Colliery

to Biddulph

A.M. Dec/03

Soldenhill Station

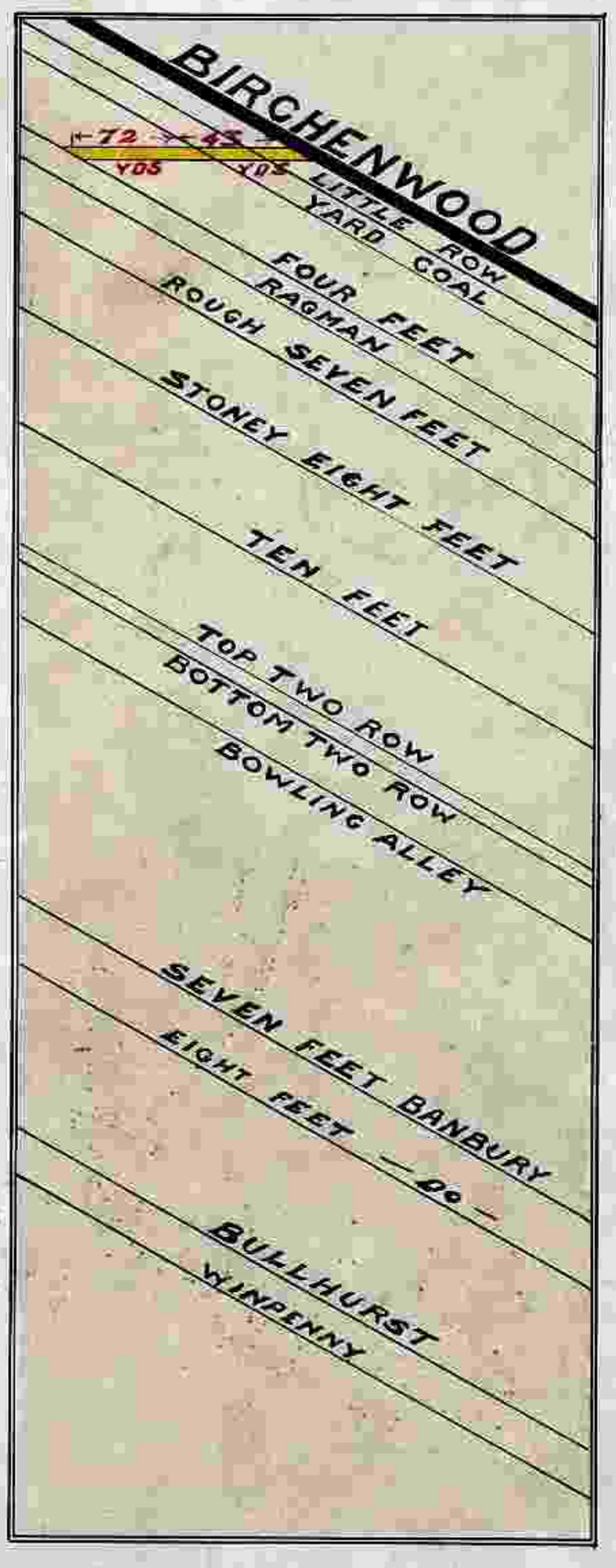
from Tunstall

Turnhurst Colliery

e Mile

BIRCHENWOOD SEAM

8



BIRCHEN

— ONE ACRE. —

— 100 YDS —

Woodshutts Pit

to Manchester

to Lawton

Harecastle Station

Colley Pit

Kidswood Pit

Clough Hall

No 10 Pit

TALKE PITS

Talke o'th' Hill

Top Lodge

HOLLINWOOD

Leased to Talke Colliery Co

Bath Pool

Harecastle Tunnels

BARBER

Peacock Hay

Child

N. STAFFORD

CHILD

WILLIAMSON

SNEYD

WILLIAMSO

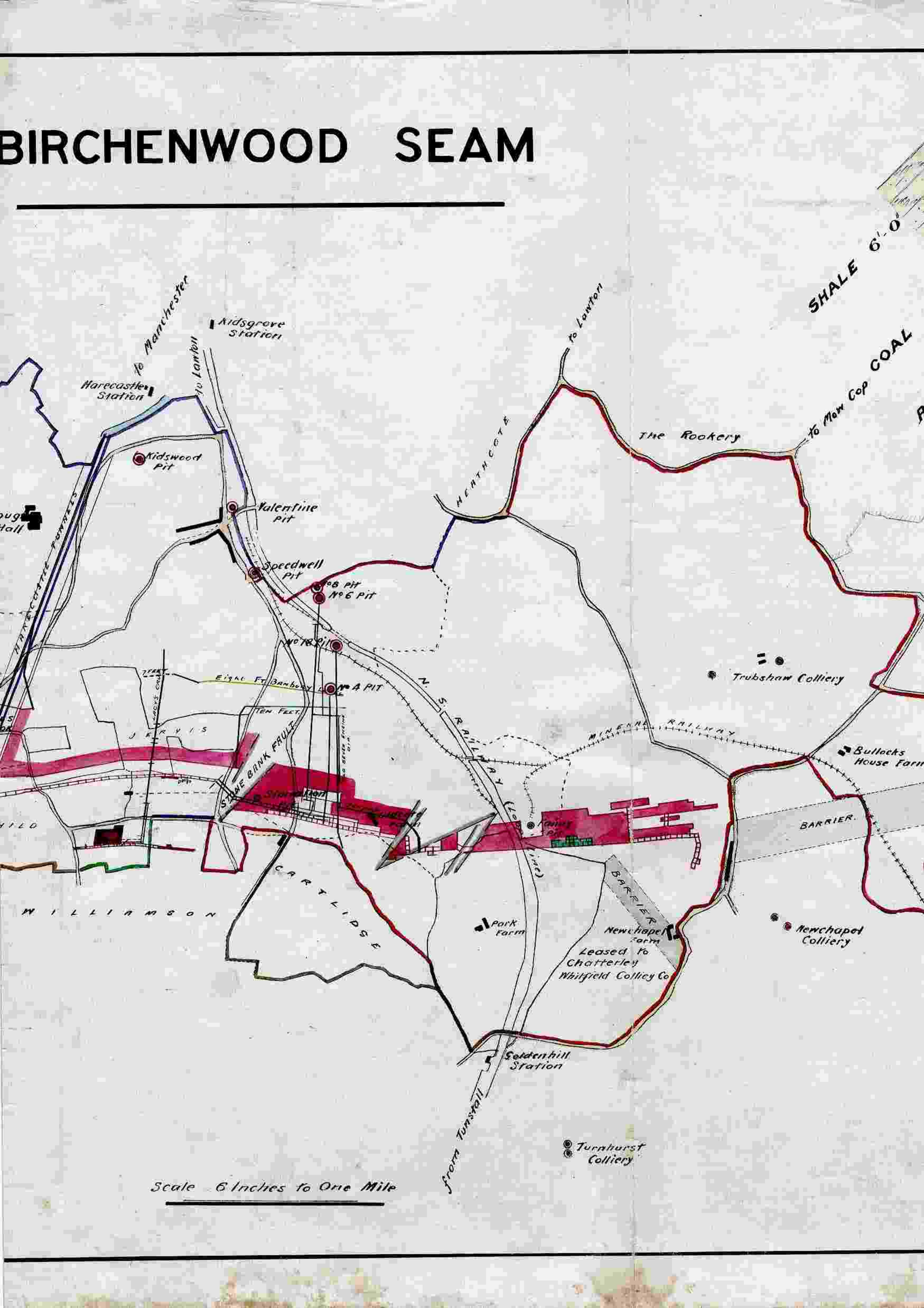
from Newcastle

from Chatterley

London

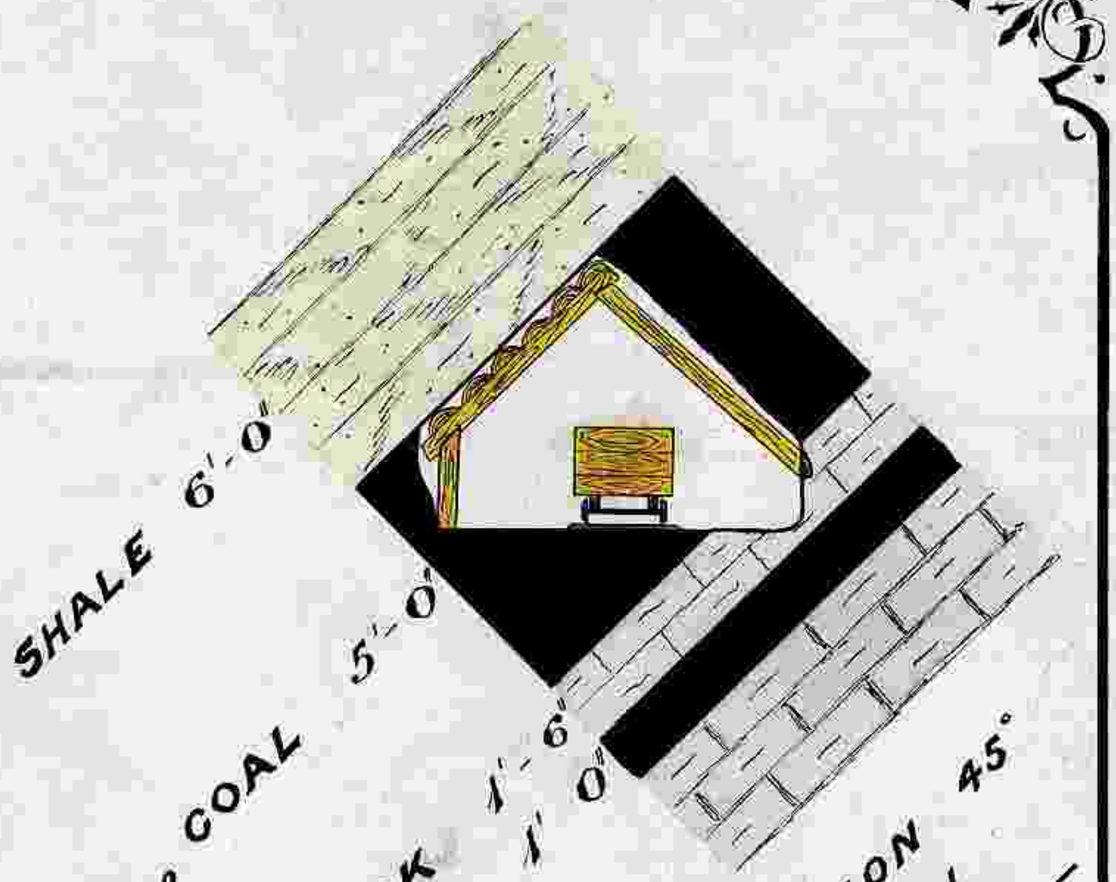
Scale

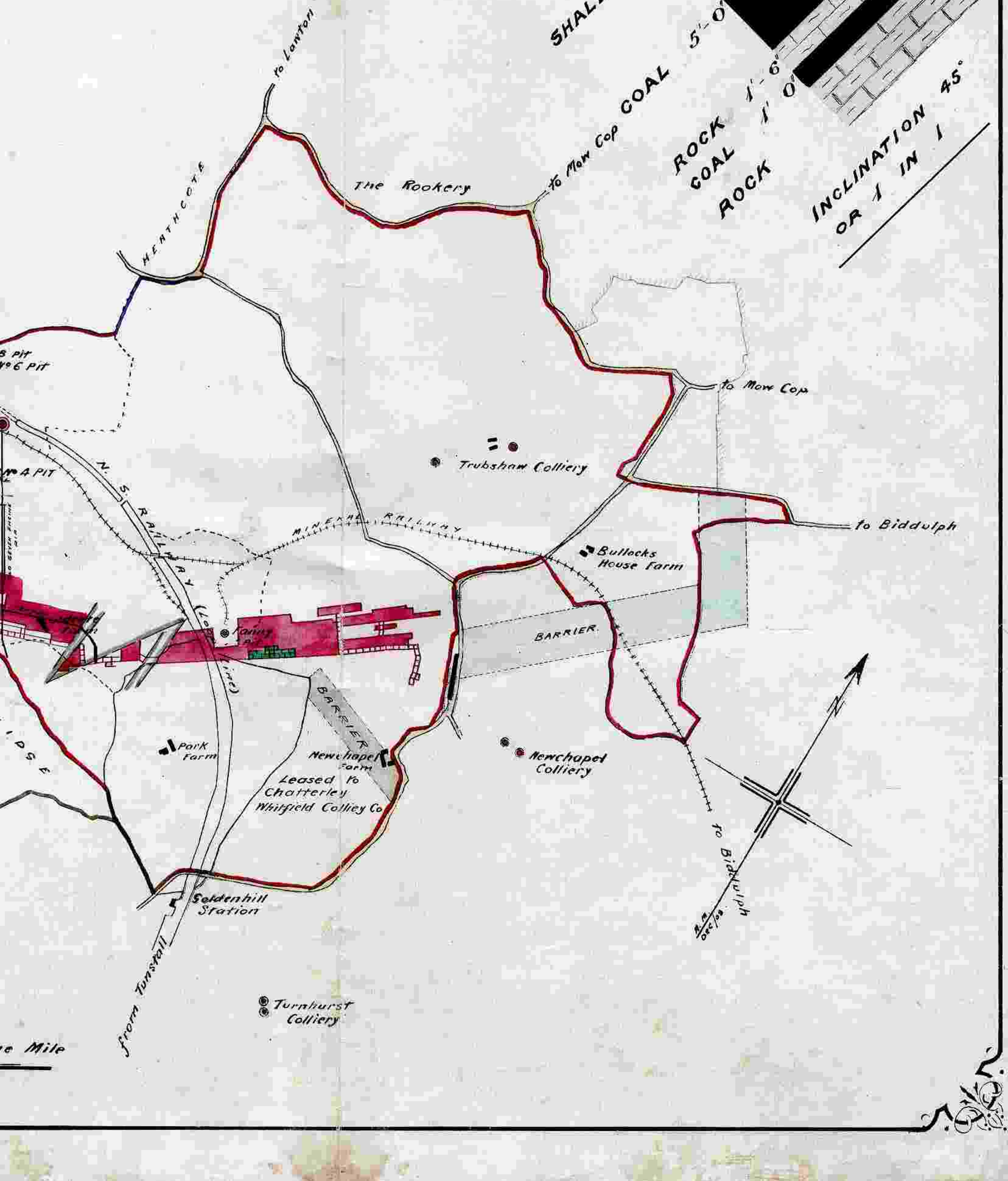
BIRCHENWOOD SEAM



Scale 6 Inches to One Mile

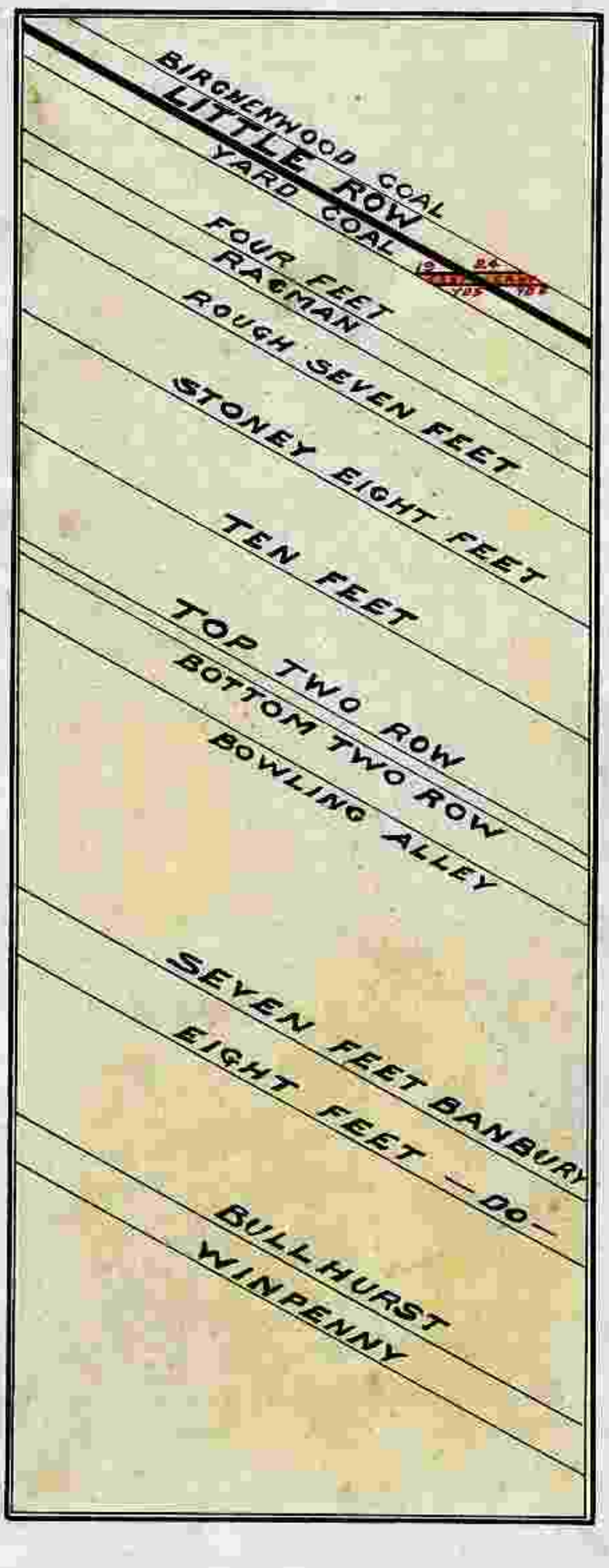
D SEAM


SHALE 6'-0"
COAL 5'-0"
ROCK 1'-6"
COAL 1'-0"
ROCK
INCLINATION 45°
OR 1 IN 1


to Mow Cop
The Rookery
to Mow Cop
HEATHCOTE
to Mow Cop
to Biddulph
Trubshaw Colliery
A PIT
N. S. RAILWAY (Loop Line)
MINERAL RAILWAY
Bullocks House Farm
BARRIER
Park Farm
BARRIER
Newchapel Farm
Leased to Chatterley Whitfield Colliery Co
Newchapel Colliery
to Biddulph
R.M. Dec/58
Goldenhill Station
from Tunstall
Turnhurst Colliery
e Mile

LITTLE ROW

9


BIRCHENWOOD COAL
LITTLE ROW
YARD COAL
FOUR FEET
RACMAN
ROUGH SEVEN FEET
STONEY EIGHT FEET
TEN FEET
TOP TWO ROW
BOTTOM TWO ROW
BOWLING ALLEY
SEVEN FEET BANBURY
EIGHT FEET —DO—
BULLHURST
WINPENNY

LIT

ONE ACRE

100 YDS

Woodshutts pit

to Manchester

to Lawton

Harecastle Station

Calley Pit

Kidswood Pit

to Lawton

No 10 Pit

Clough Hall

TALKE PITS

TALKE-O'TH'-HILL

Top Lodge

HOLLINWOOD

Talke Colliery Co

Leased to

Harecastle Farm

Bath Pool

Harecastle Pit

Peacock Hay

HOMER

WILLIAMSON

CHILD

N.S. RAILWAY

HARECASTLE TUNNELS

ACRES MOOR

JERVIS

BIRCHENWOOD WORKIN

Child

from Newcastle

from Chatterley

from

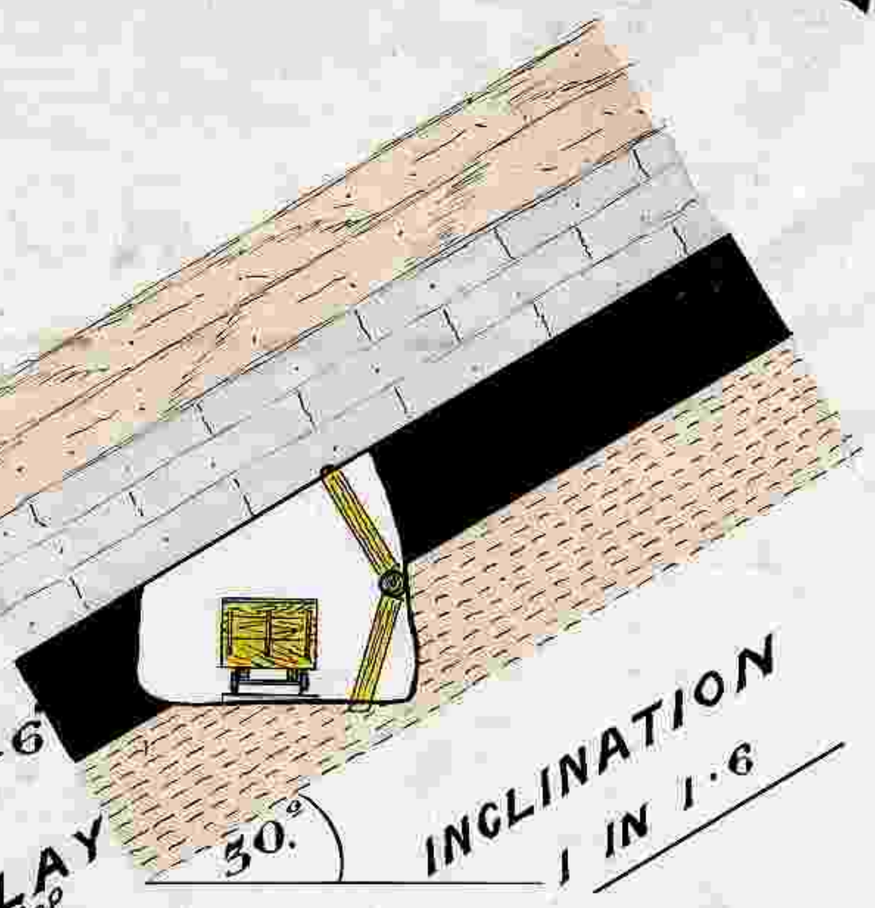
London

Scale

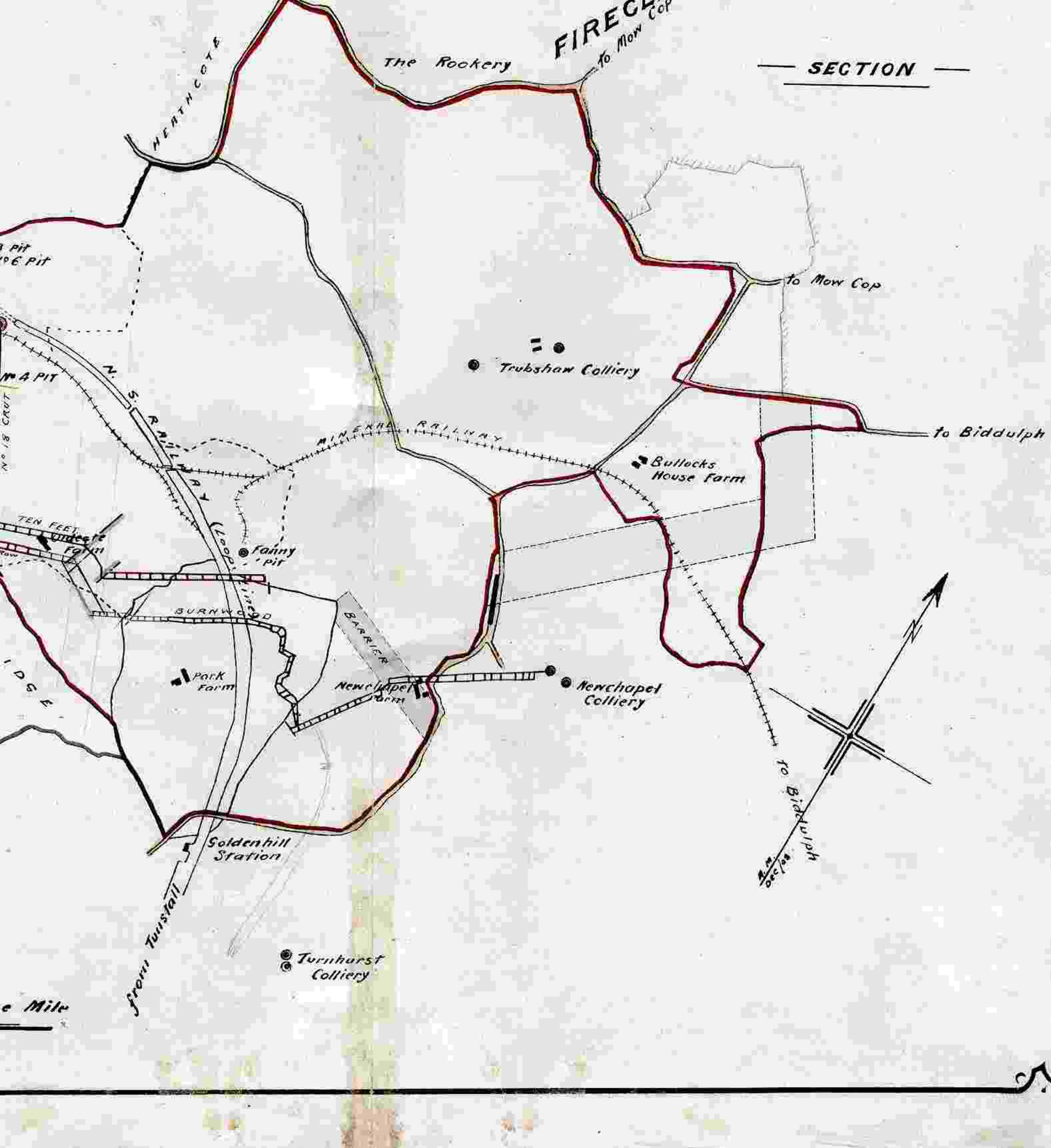
LITTLE ROW

Scale 6 Inches to One Mile

ROW

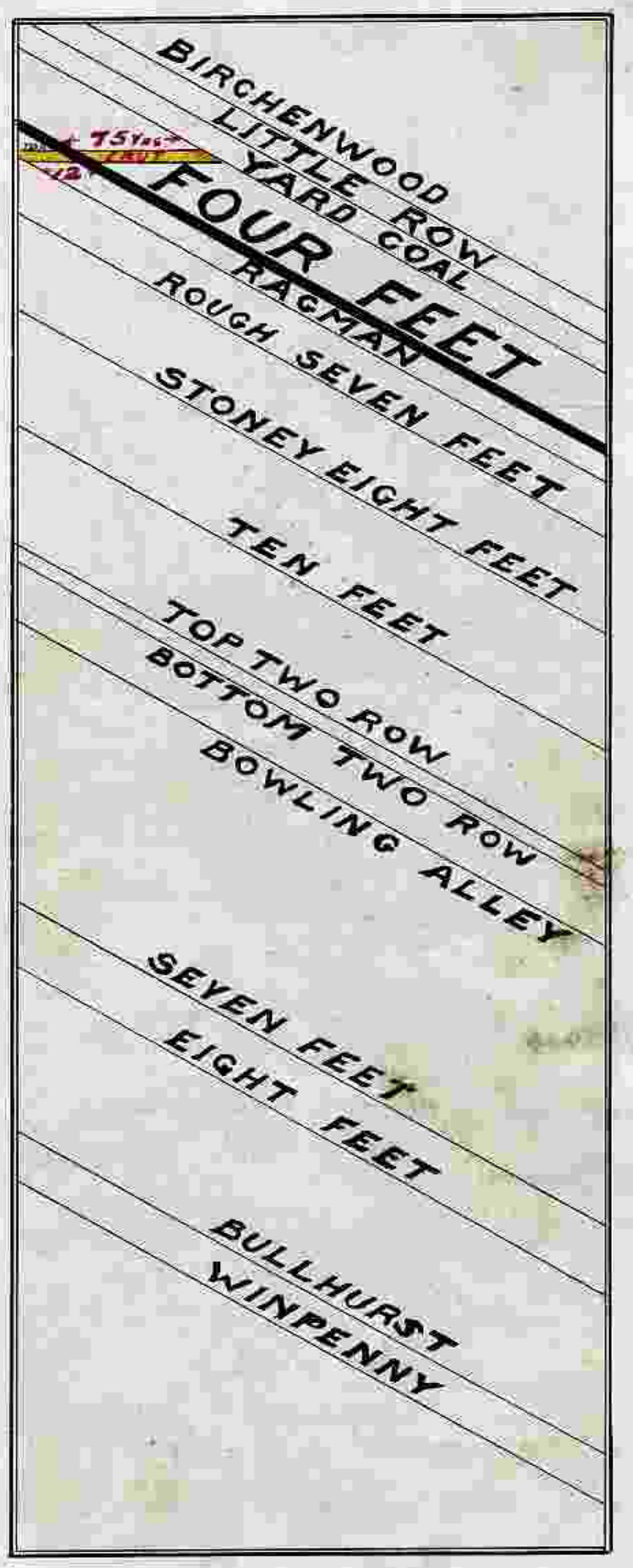

SHALE 2'-6"
BASS 2'-3"
COAL 2'-6"
FIRECLAY
30°
INCLINATION
1 IN 1·6

— SECTION —


to Lawton
HEATHCOTE
The Rookery
to Mow Cop
to Mow Cop
to Biddulph
Trubshaw Colliery
Bullocks House Farm
Newchapel Colliery
Park Farm
Newchapel Farm
Fanny pit
Goldenhill Station
from Tunstall
Turnhurst Colliery
N. STAFFS. RAILWAY (Loop Line)
MINERAL RAILWAY
BURNWOOD
BARRIER
TEN FEET
No 4 PIT
No 18 CROT
PIT
PIT
IDGE
e Mile
N
N.M. Dec/08

FOUR FEET

10


BIRCHENWOOD
LITTLE ROW
YARD COAL
FOUR FEET
RAGMAN
ROUGH SEVEN FEET
STONEY EIGHT FEET
TEN FEET
TOP TWO ROW
BOTTOM TWO ROW
BOWLING ALLEY
SEVEN FEET
EIGHT FEET
BULLHURST
WINPENNY

FO

ONE ACRE.

100 YDS

Woodshutts pit

to Manchester

Harecastle Station

Kidsw... Pit

to Lawton

Calley Pit

Clough Hall

Novio Pit

TALKE PITS

Talke-o'th'-Hill

Top Lodge

NOLLINWOOD

Leased to Talke Colliery Co

Bath Pool

Harecastle Farm

BARRIE...

Harecastle Pit

Peacock Hay

Chatt...

HOMER

WILLIAMSON

SNEYD

N.S. RAILWAY

CHILD

WILLIAMSO...

Lacey's C...

Rough ...

Arms Work

Harecastle Tunnels

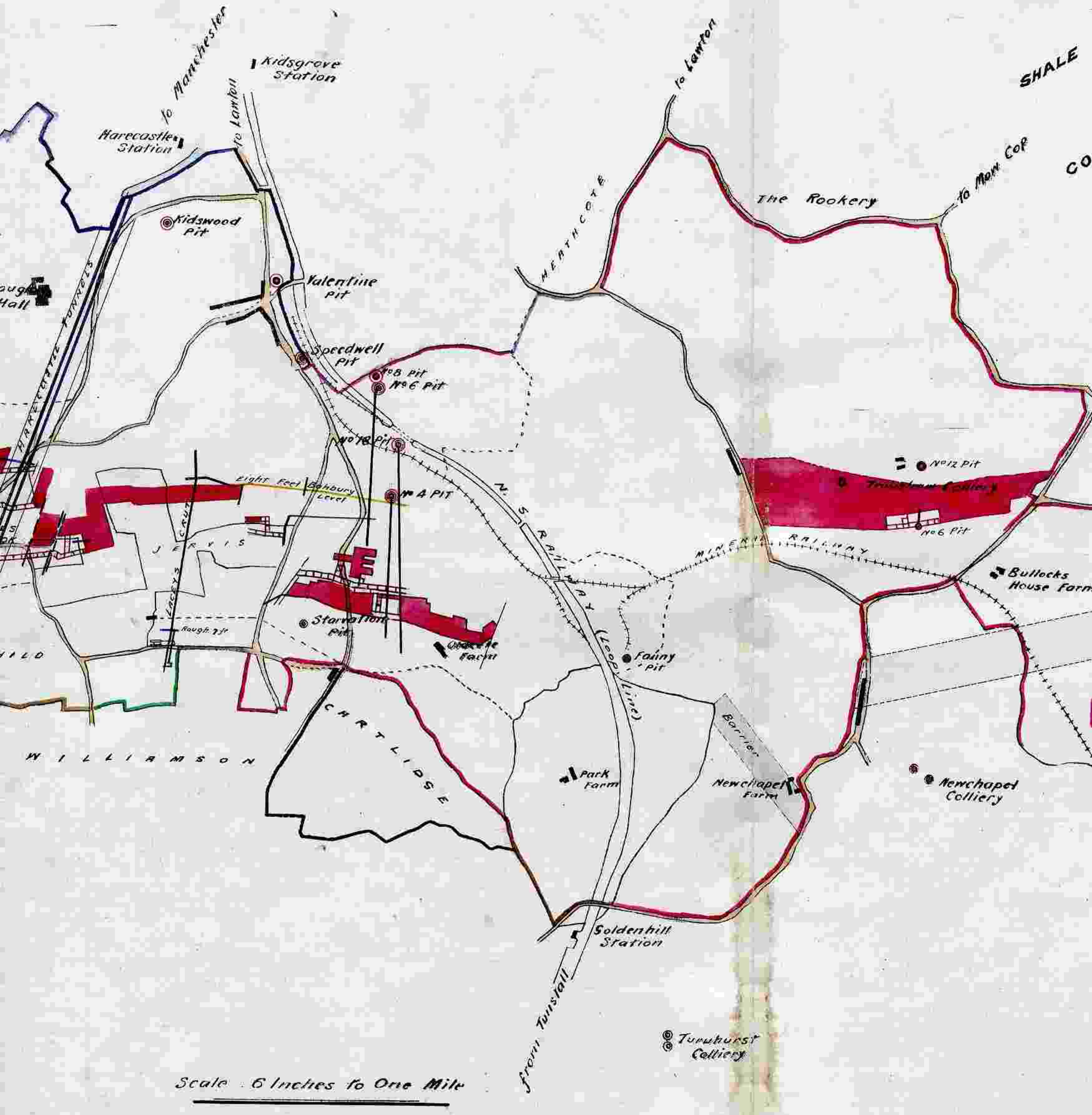
from Newcastle

from Chatterley

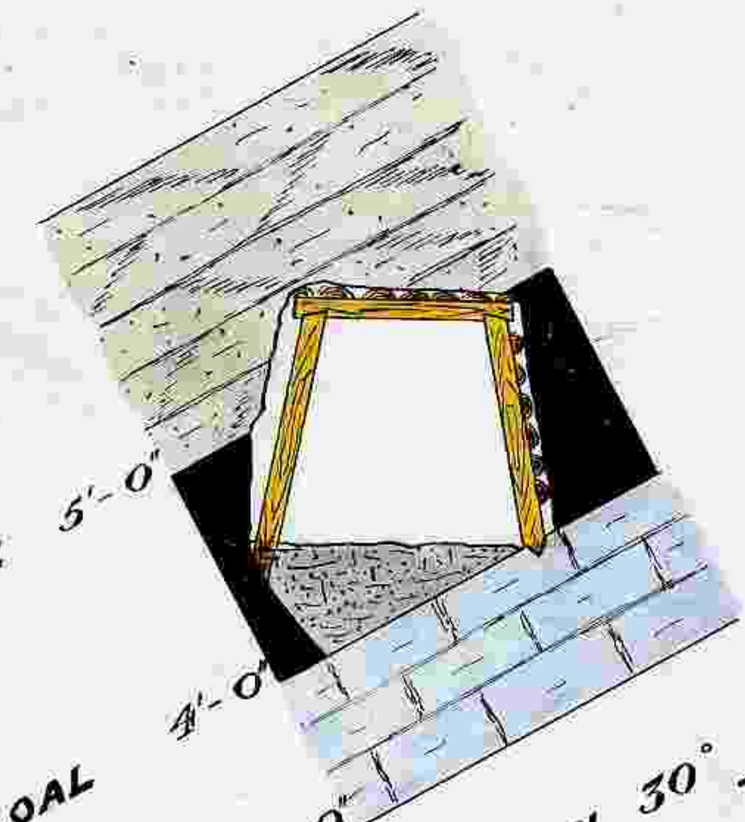
from ...

Scale

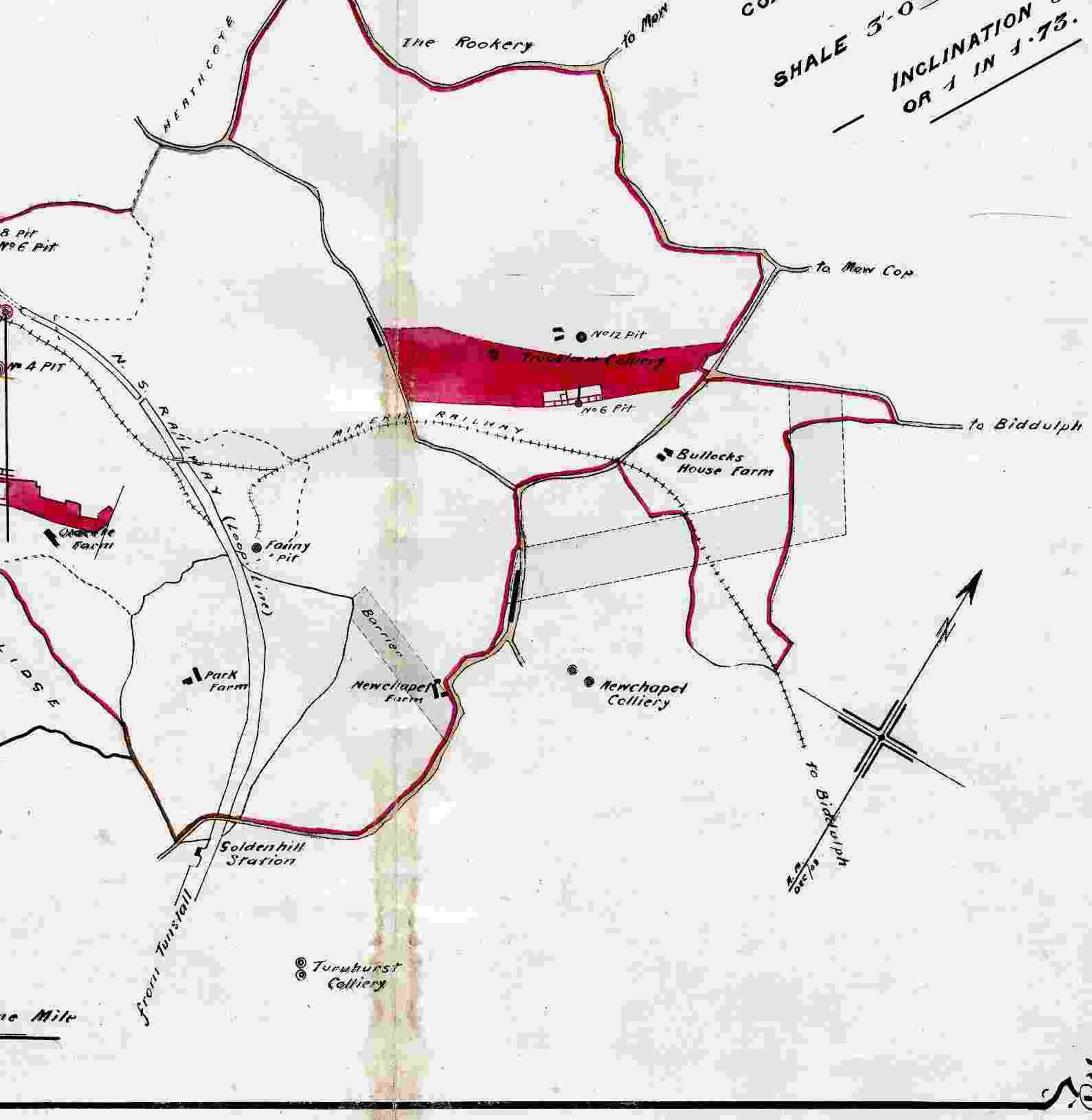
FOUR FEET


to Manchester
Kidsgrove Station
to Lawton
Harecastle Station
Kidswood Pit
Valentine pit
Speedwell Pit
No 8 Pit
No 6 Pit
No 10 Pit
No 4 Pit
Eight Feet
Bahbury Level
Starvation Pit
Rough Hill
Park Farm
Fairy Pit
Barrier
Newchapel Farm
Newchapel Colliery
No 12 Pit
No 6 Pit
Bullocks House Farm
MEATHCOTE
The Rookery
to Mow Cop
SHALE
CO
N. STAFFS RAILWAY (Loop Line)
MINERAL RAILWAY
JERVIS
LACEYS CAUT
CHARTLIDSE
WILLIAMSON
Goldenhill Station
from Tunstall
Tunnicliffe Colliery
Scale 6 Inches to One Mile

EET



INCLINATION 30°
OR 1 IN 1·73.



ROUCH SEVEN FEET

11

ROUCH

— ONE ACRE —

— 100 YDS —

Woodshutts pit

to Manchester

Harecastle Station

Kidsw... pit

to Lawton

Calley pit

Clough Hall

No 10 pit

TALKE PITS

Talke "Oth" Hill

Top Lodge

HOLLINWOOD

Leased to Talke Colliery Co

Batty Pool

Harecastle Farm

Harecastle pit

Peacock Hay

Child

HOMER

WILLIAMSON

SNEYD

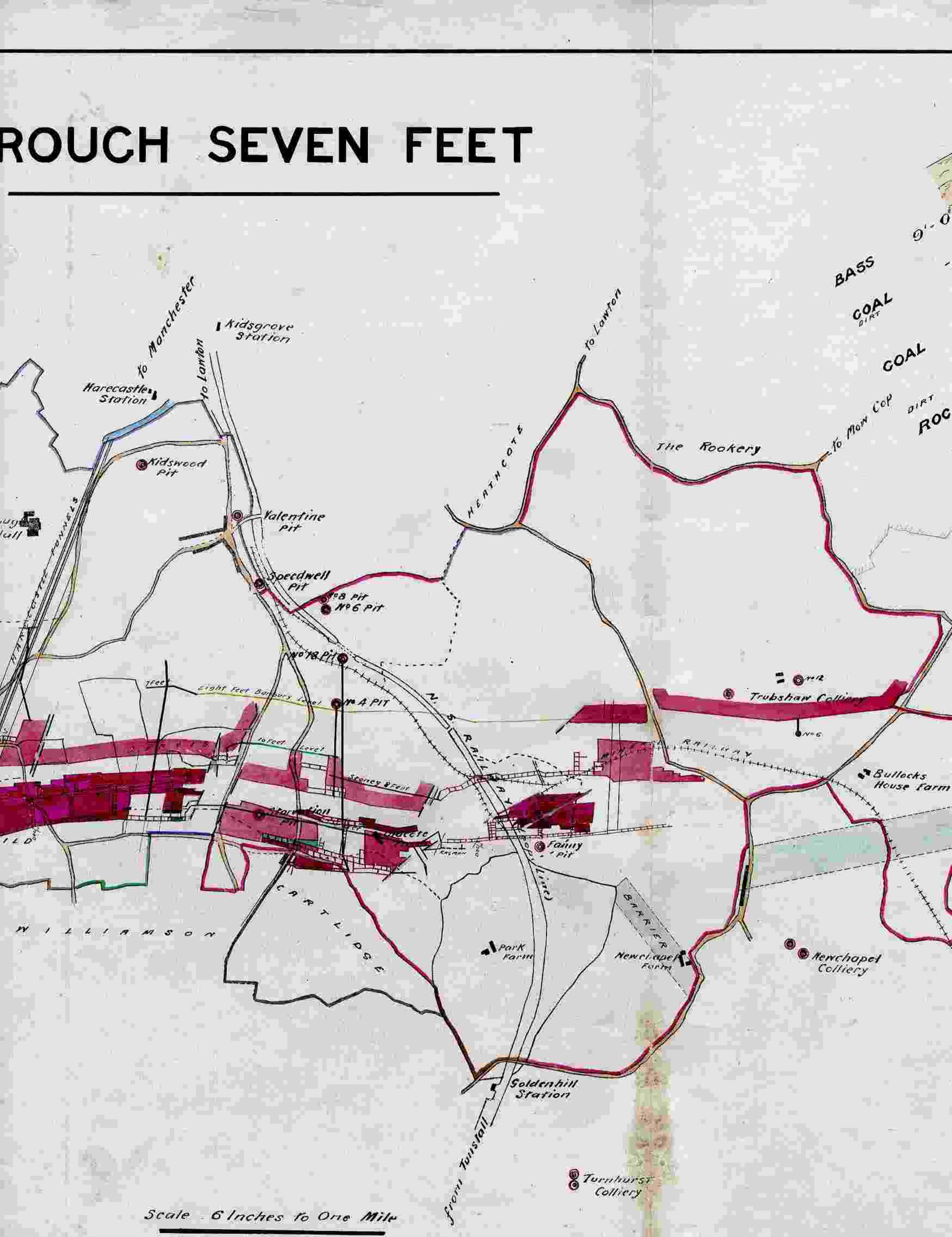
from Newcastle

from Chatterley

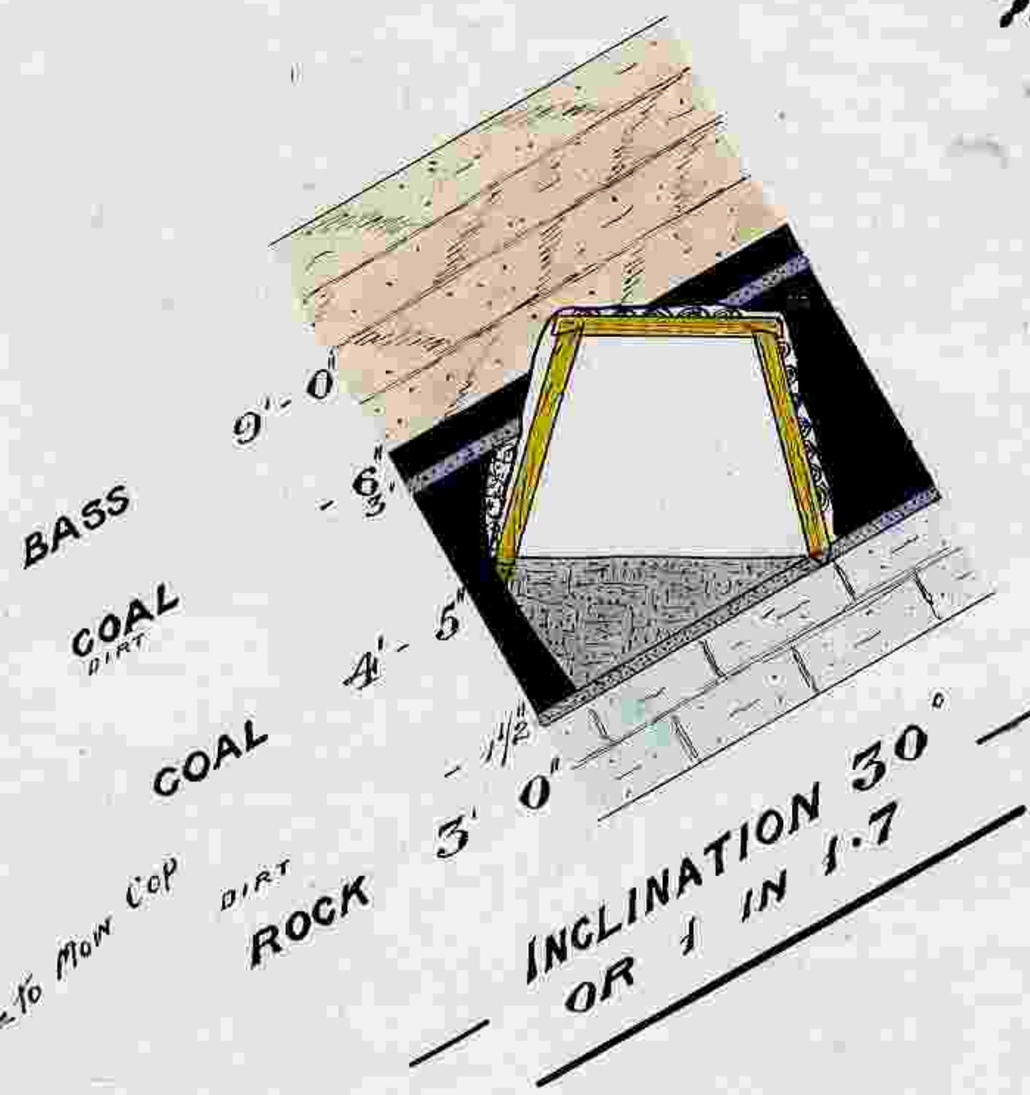
from London

Scale

ROUCH SEVEN FEET



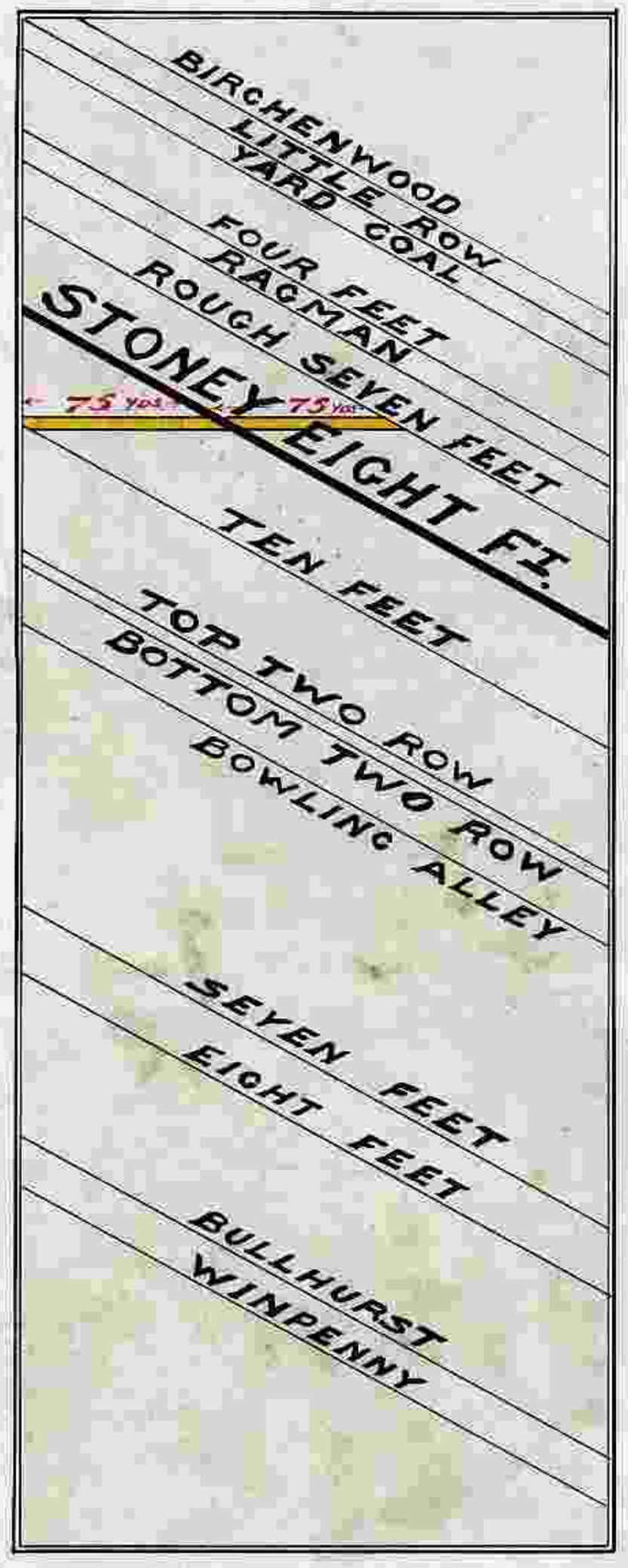
N FEET


9'-0"
6"
BASS
COAL
DIRT
4'-5"
COAL
1½"
ROCK
3'-0"
INCLINATION 30°
OR 1 IN 1·7


to Lawton
HEATHCOTE
The Rookery
to Mow Cop
DIRT
to Mow Cop
to Biddulph
Trubshaw Colliery
No 12
No 6
RAILWAY
Bullocks House Farm
Fairy Pit
Park Farm
Newchapel Farm
BARRIER
Newchapel Colliery
Goldenhill Station
from Tunstall
Turnhurst Colliery
to Biddulph
N
Mile

STONEY EICHT FEET

12



STONE

ONE ACRE

100 YDS

Woodshutts pit

to Manchester

Harecastle Station

Calley Pit

to Lawton

Kidsw... Pit

Clough Hall

No 10 pit

TALKE PITS

Talke o'th' Hill

Top Lodge

HOLLINWOOD

Leased to Talke Colliery Co

Harecastle Tavern

Bath Pool

BARR

Harecastle Pit

Peacock Hay

HOMER

WILLIAMSON

CHILD

Chatterley

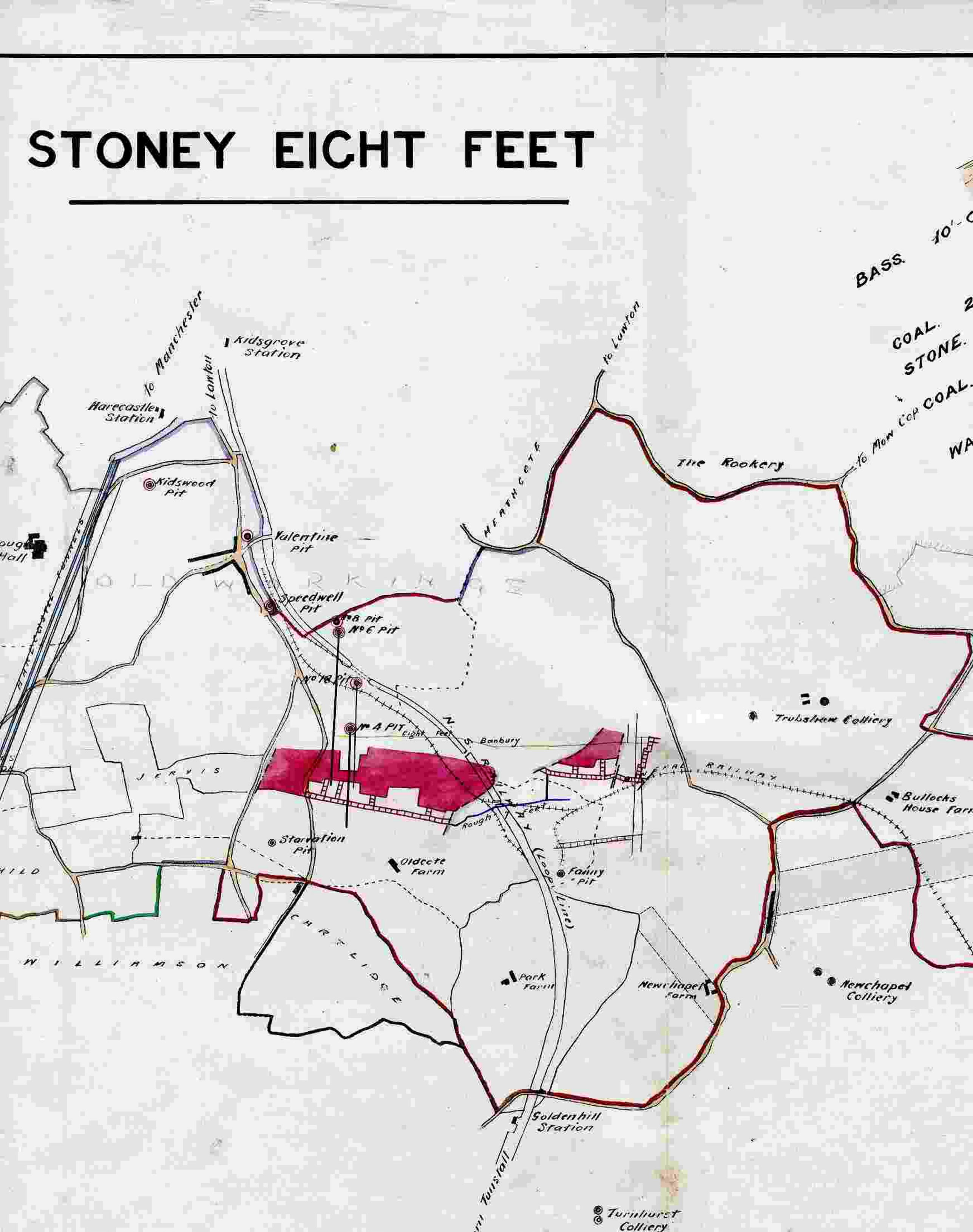
from Newcastle

from Chatterley

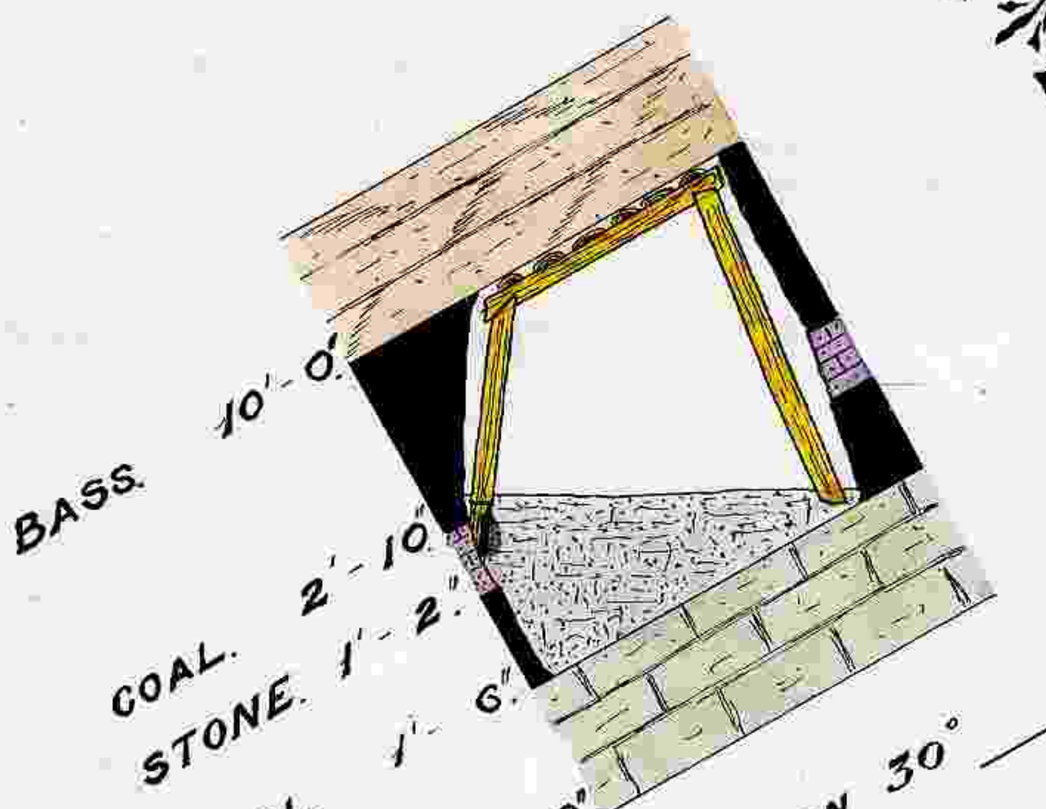
from London

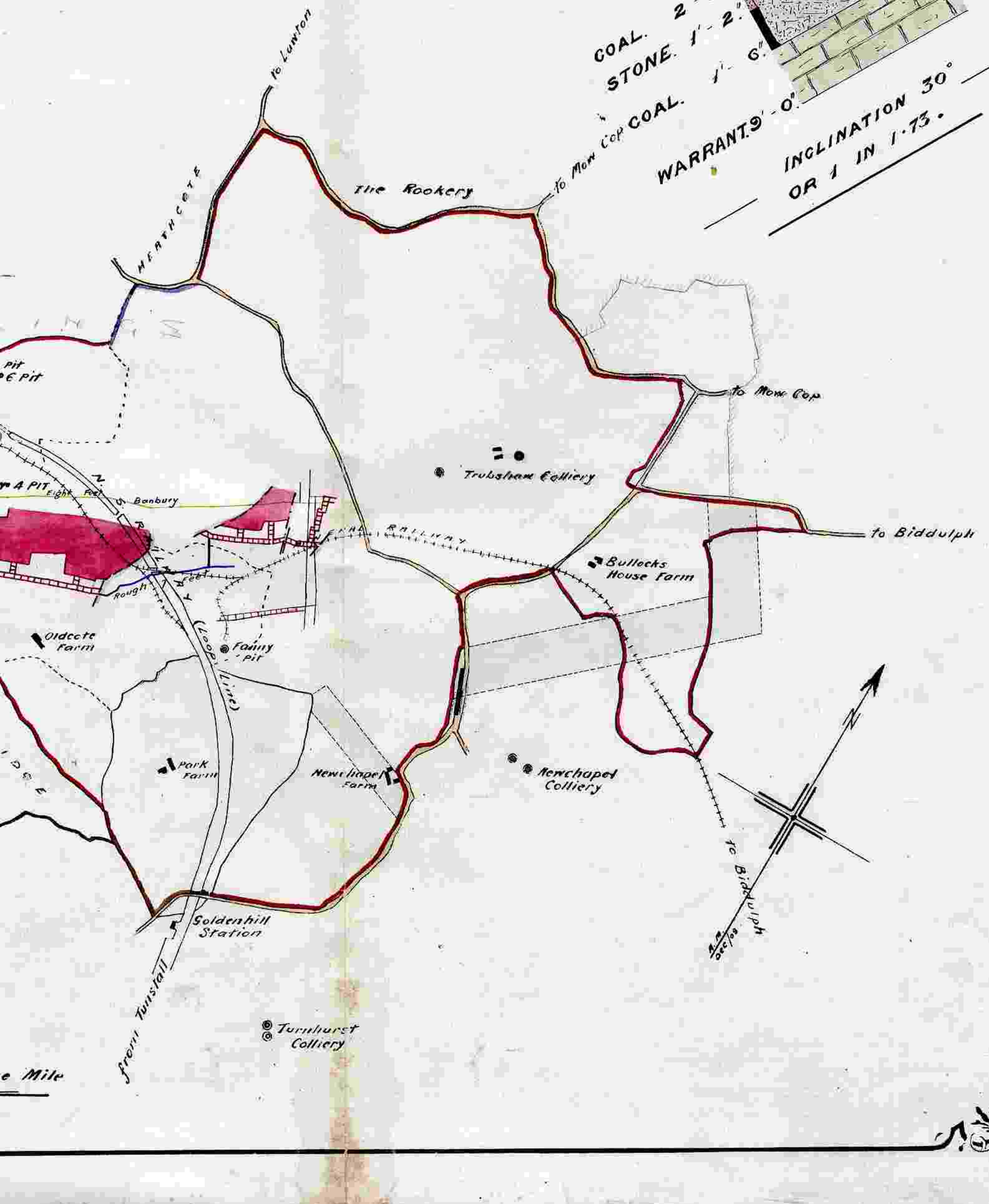
Scale

STONEY EICHT FEET



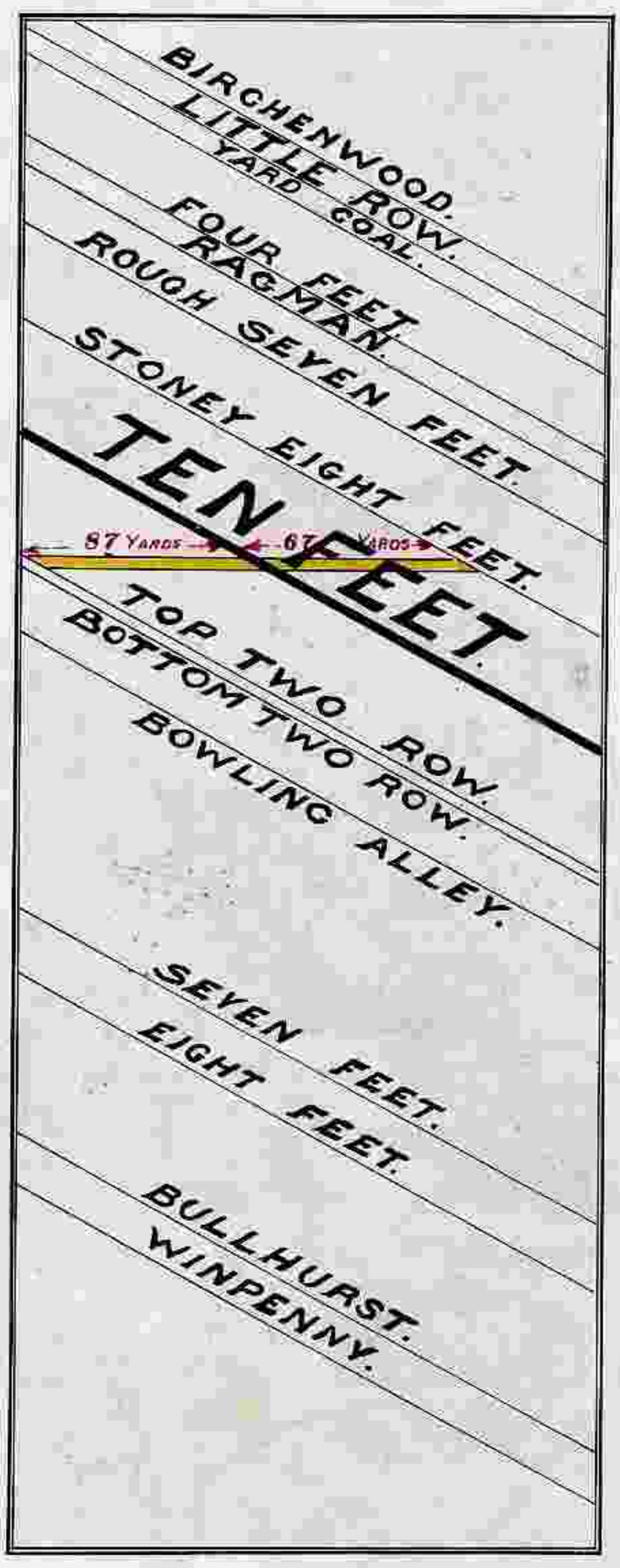
HT FEET


BASS. 10'-0"
COAL. 2'-10"
STONE. 1'-2"
1'-6"
WARRANT 9'-0"
INCLINATION 30°
OR 1 IN 1·73.


to Lawton
HEATH COTE
The Rookery
to Mow Cop COAL.
to Mow Cop
Trubshaw Colliery
to Biddulph
Bullocks House Farm
Banbury
Eight Feet
Rough
Oldcote Farm
Fanny Pit
Park Farm
Newchapel Farm
Newchapel Colliery
Goldenhill Station
from Tunstall
Turnhurst Colliery
to Biddulph
A.M. Dec/09
e Mile

TEN FEET

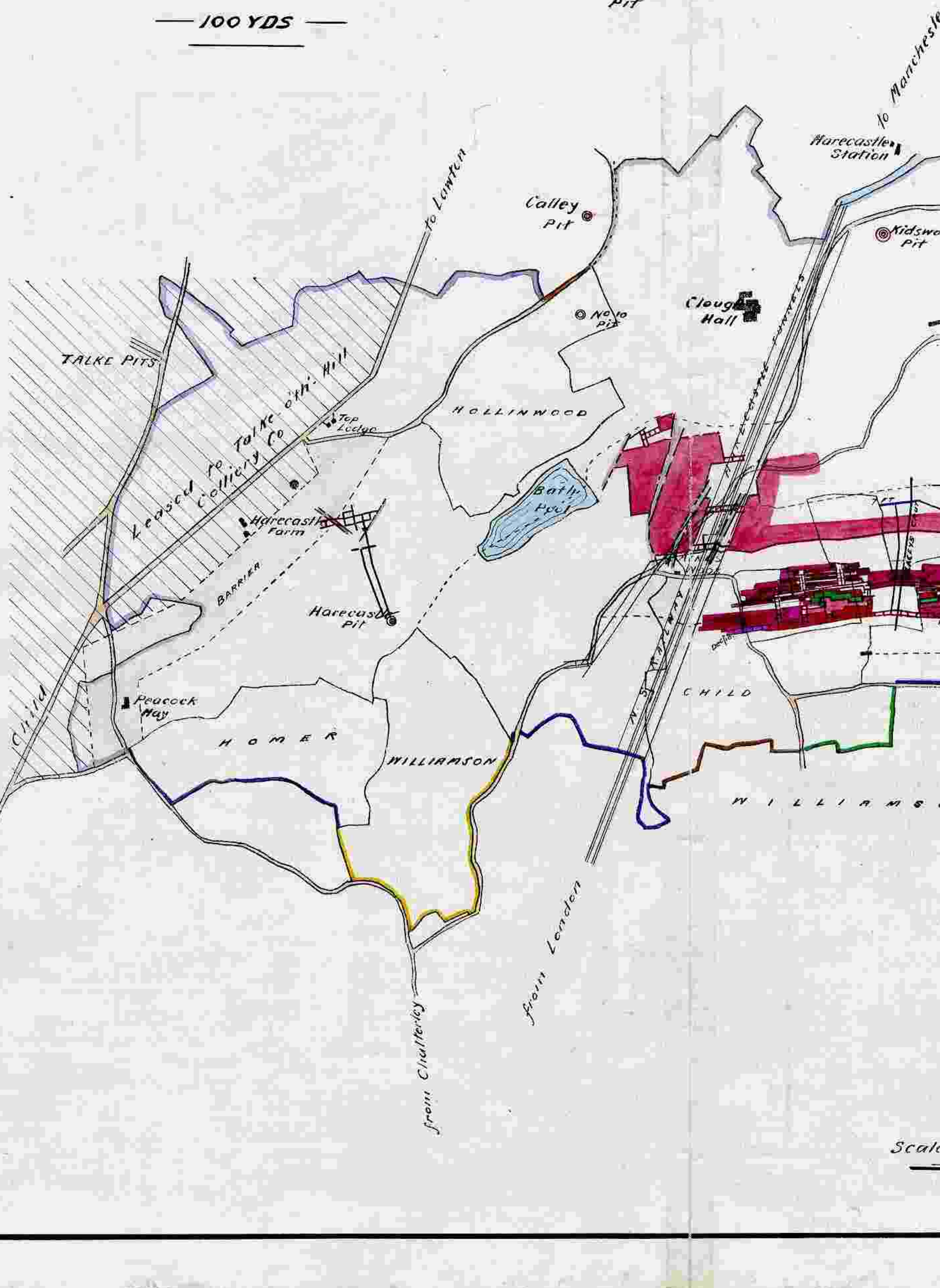
13


BIRCHENWOOD.
LITTLE ROW.
YARD COAL.
FOUR FEET.
RAGMAN.
ROUGH SEVEN FEET.
STONEY EIGHT FEET.
TEN FEET.
87 YARDS
67 YARDS
TOP TWO ROW.
BOTTOM TWO ROW.
BOWLING ALLEY.
SEVEN FEET.
EIGHT FEET.
BULLHURST.
WINPENNY.

TE

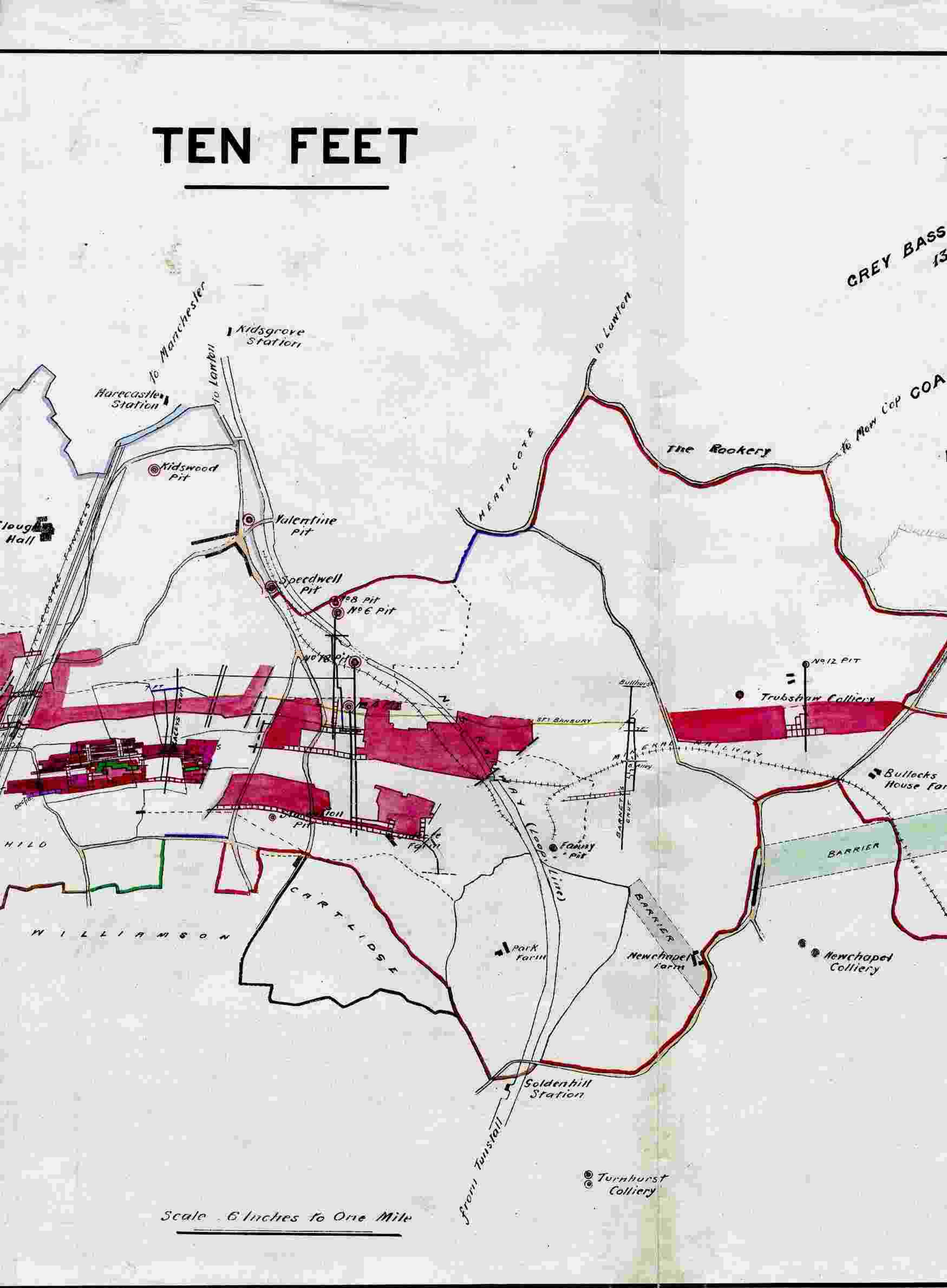
ONE ACRE.

100 YDS

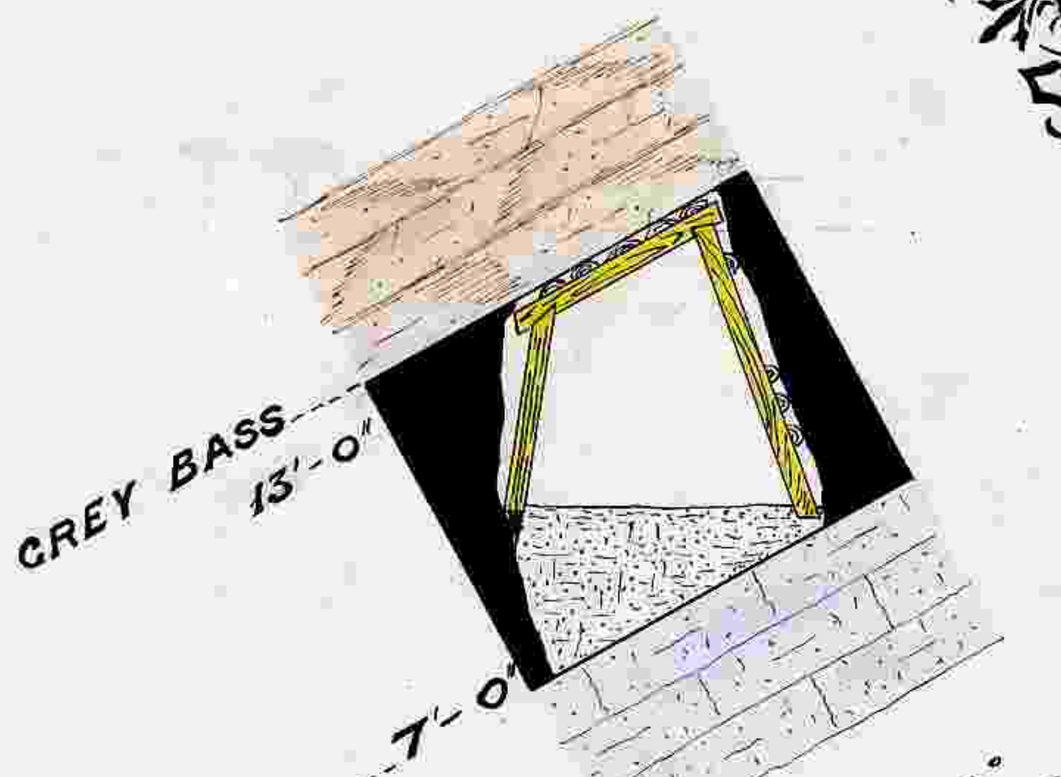


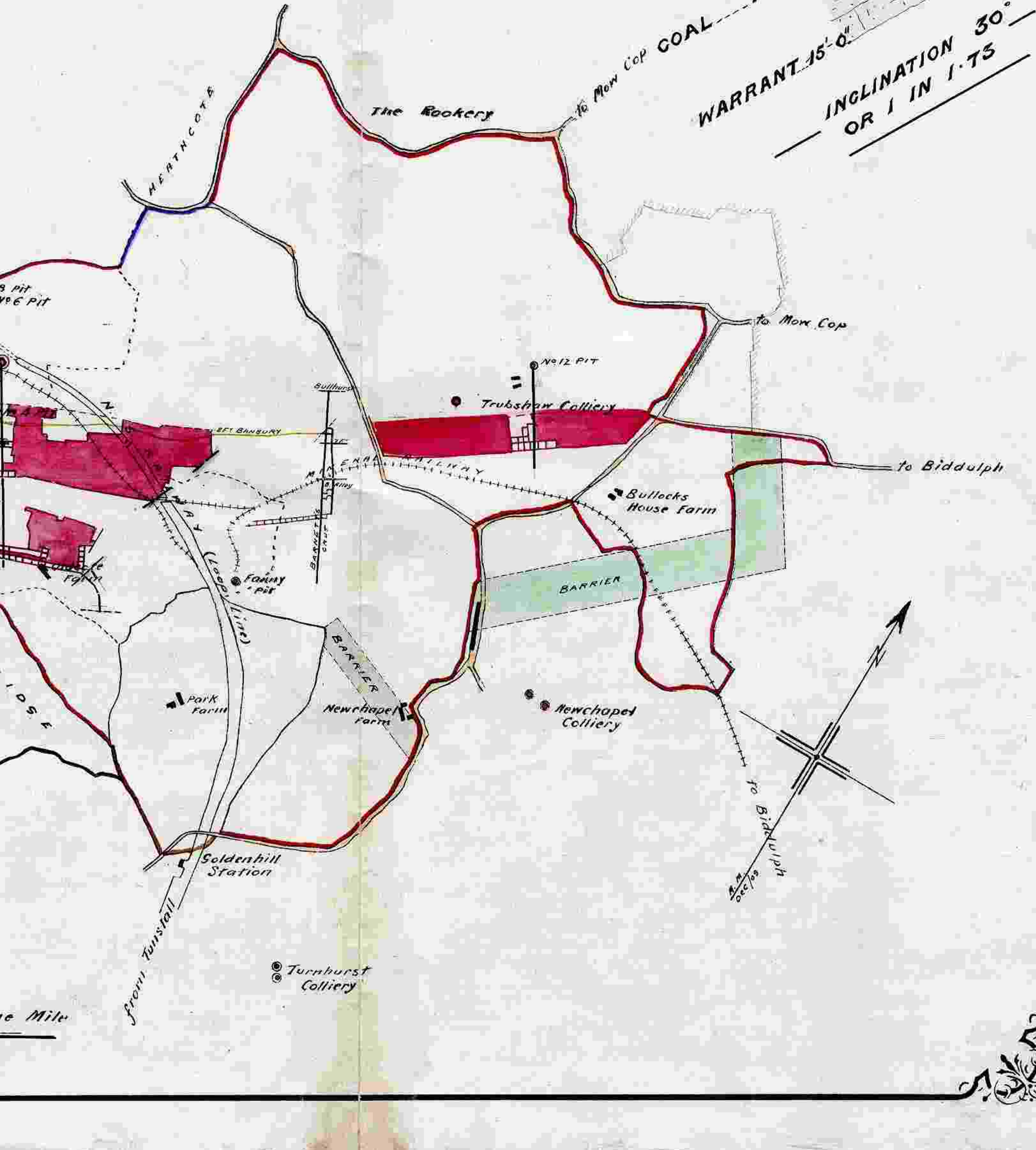
Scale

TEN FEET


to Manchester
Kidsgrove Station
to Lawton
Harecastle Station
Kidswood Pit
Valentine pit
Speedwell Pit
No 8 Pit
No 6 Pit
No 10 Pit
No 12 PIT
Trubshaw Colliery
HEATH COTE
to Lawton
The Rookery
to Mow Cop
Bullhurst
5Ft BANBURY
Bullocks House
BARRIER
Fairy Pit
Park Farm
Newchapel Farm
Newchapel Colliery
CARTLIDGE
WILLIAMSON
Soldenhill Station
from Tunstall
Turnhurst Colliery
Scale 6 Inches to One Mile

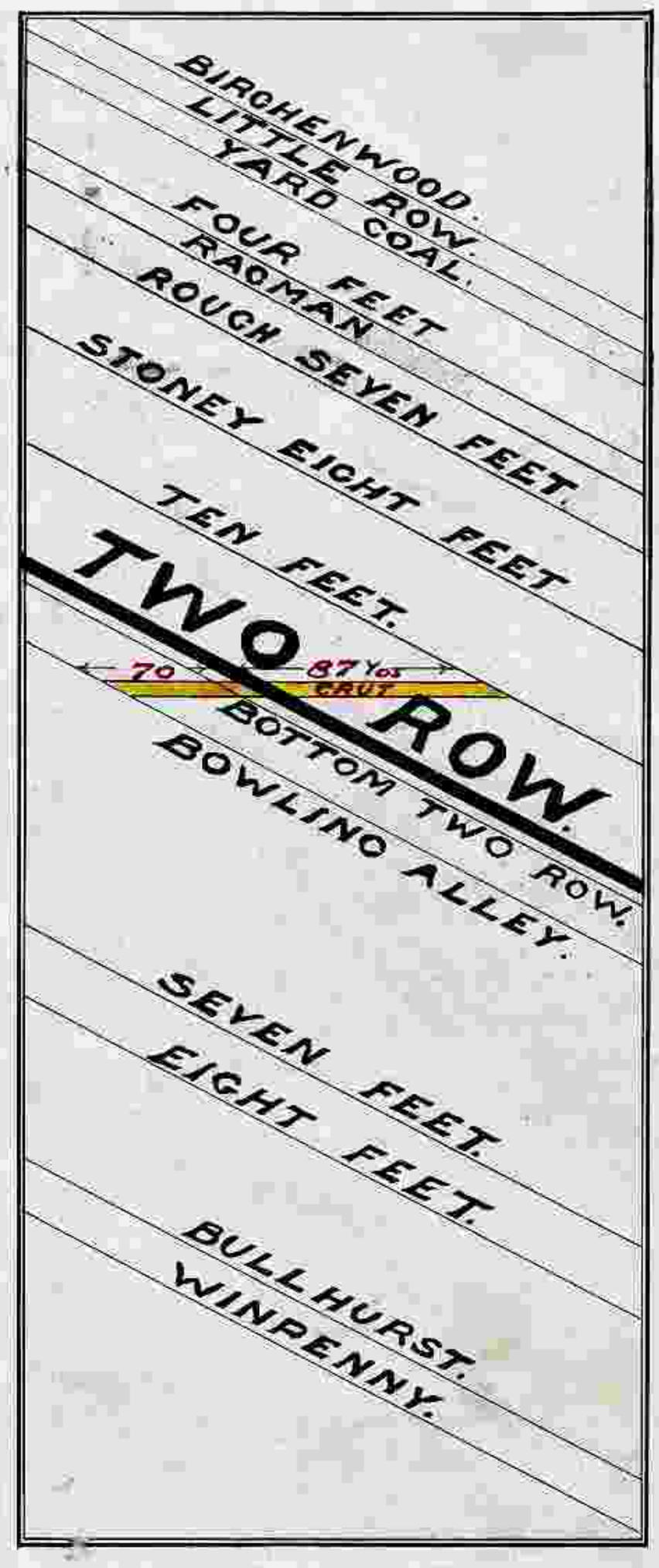
ET


CREY BASS
13'-0"
7'-0"
WARRANT 15'-0"
INCLINATION 30°
OR 1 IN 1·73


to Mow Cop COAL
HEATHCOTE
The Rookery
to Mow Cop
to Mow Cop
No 12 PIT
Trubshaw Colliery
Bullhurst
BARNETTS
Bullocks House Farm
BARRIER
Farm
Pit
Park Farm
Newchapel Farm
Newchapel Colliery
Goldenhill Station
from Tunstall
Turnhurst Colliery
to Biddulph
to Biddulph
A.M. Dec/09
e Mile

TOP TWO ROW

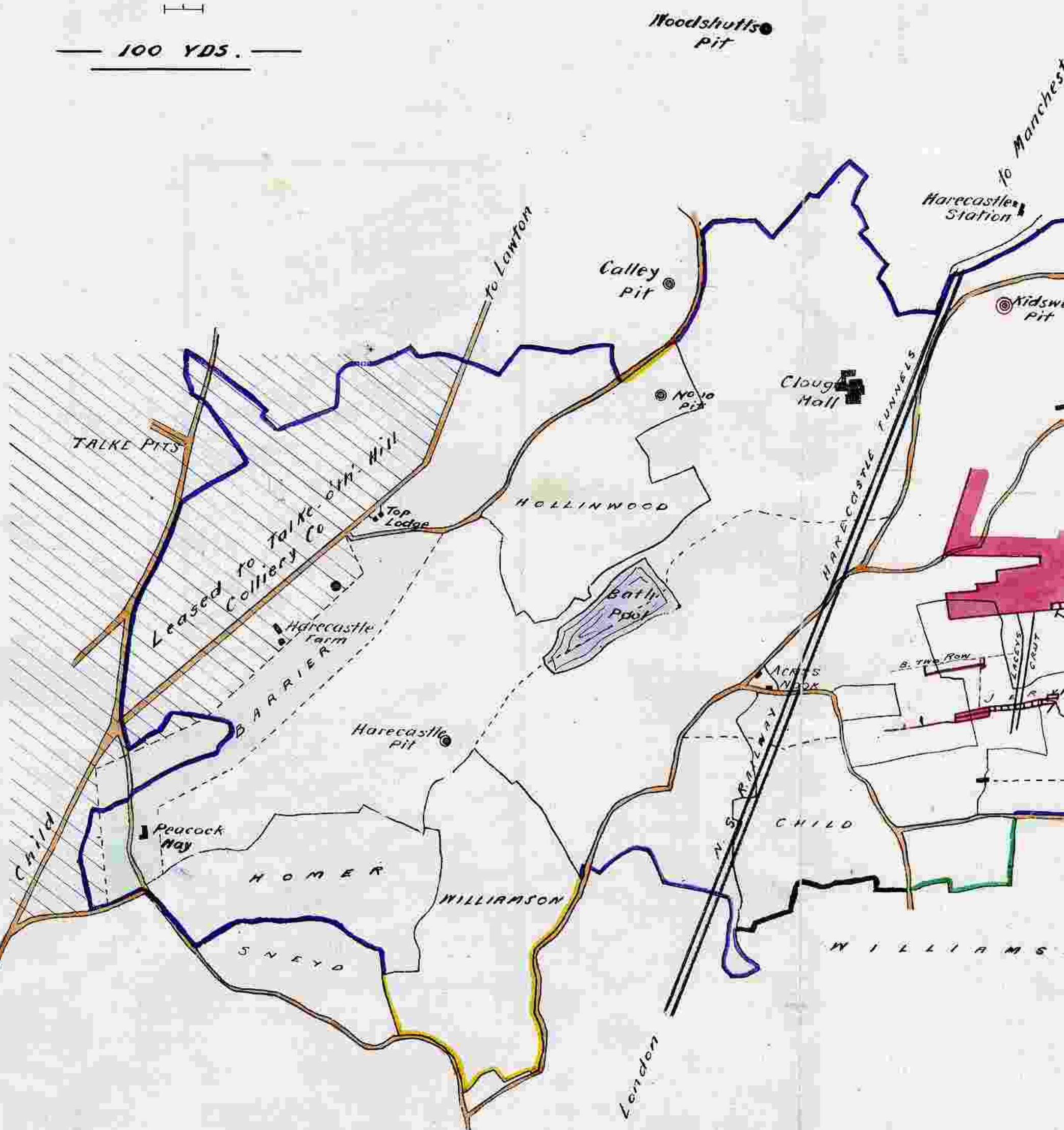
14



TOP

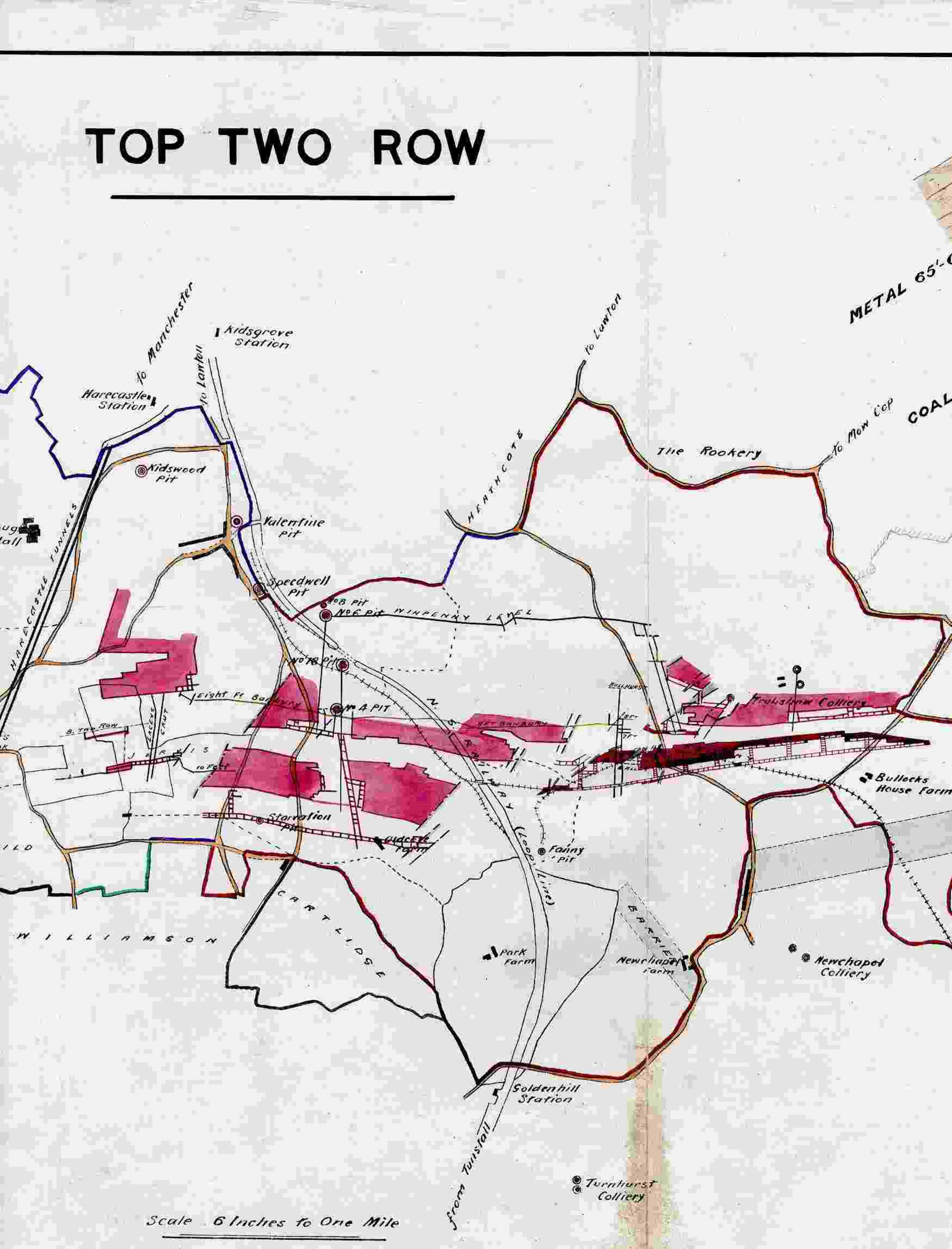
ONE ACRE

100 YDS.



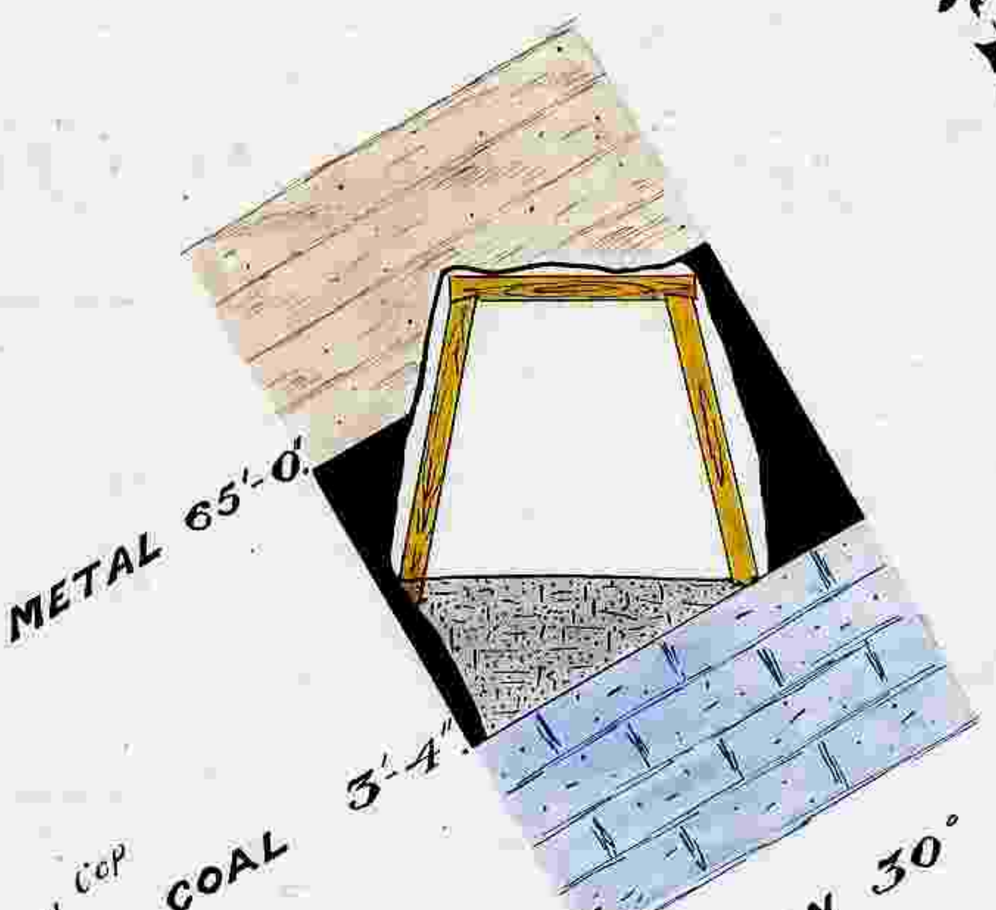
Scale

TOP TWO ROW



Scale 6 Inches to One Mile

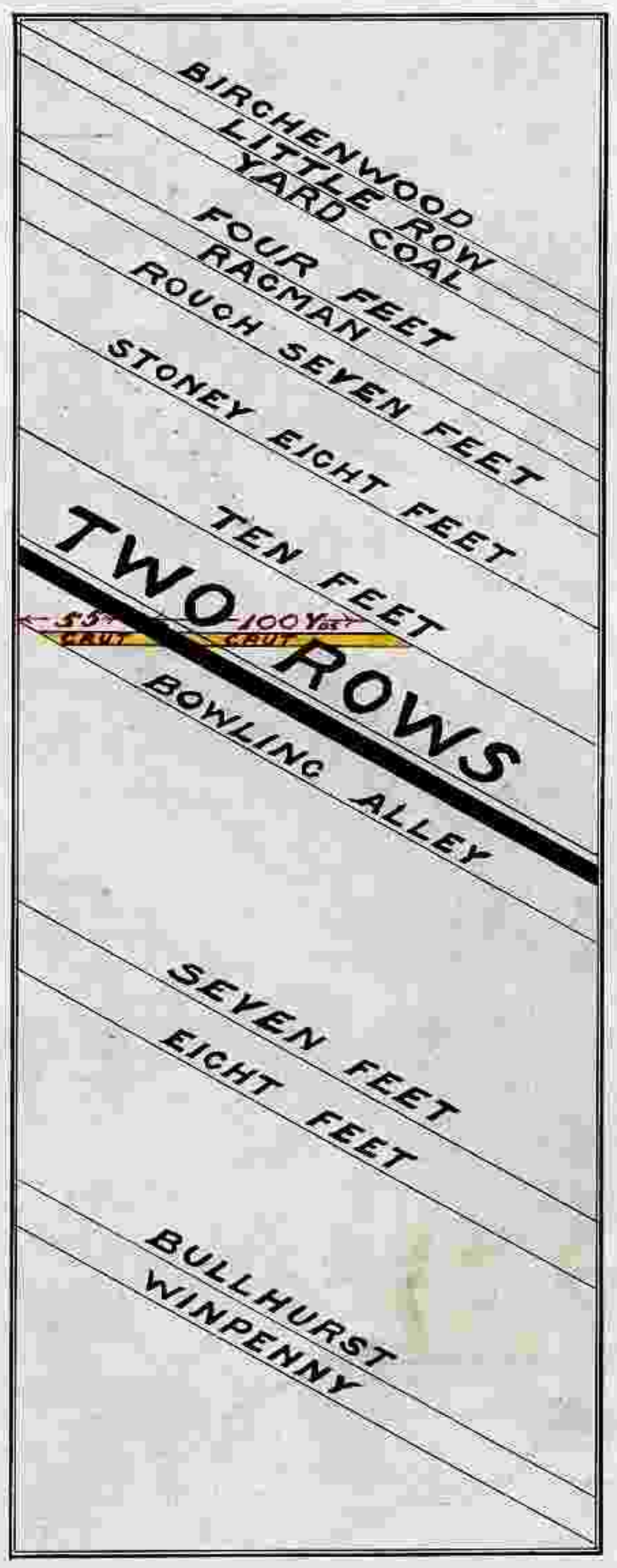
ROW


METAL 65'-0"
3'-4"
COAL
MILD CLUNCH.
INCLINATION 30°
OR 1 IN 1·73.


to Lawton
HEATHCOTE
The Rookery
to Mow Cop
to Mow Cop
WINPENNY LEVEL
Frubsham Colliery
to Biddulph
Bullocks House Farm
Fanny Pit
Park Farm
Newchapel Farm
Newchapel Colliery
to Biddulph
Goldenhill Station
from Tunstall
Turnhurst Colliery
Mile

BOTTOM TWO ROW

15



BOTTON

ONE ACRE

100 YDS.

Woodshutts pit

to Manchester

to Lawton

Harecastle Station

to Lawton

Calley Pit

Kidswood Pit

Clough Hall

No 10 Pit

TALKE PITS

TALKE-O'TH'-HILL

Top Ledge

HOLLINWOOD

Leased to Talke Colliery Co

Harecastle Farm

BARRIER I

Berth Pit

Harecastle Pit

Peacock Way

Chatterley

HOMER

WILLIAMSON

CHILD

N. STAFFORDSHIRE RAILWAY

WILLIAMSON

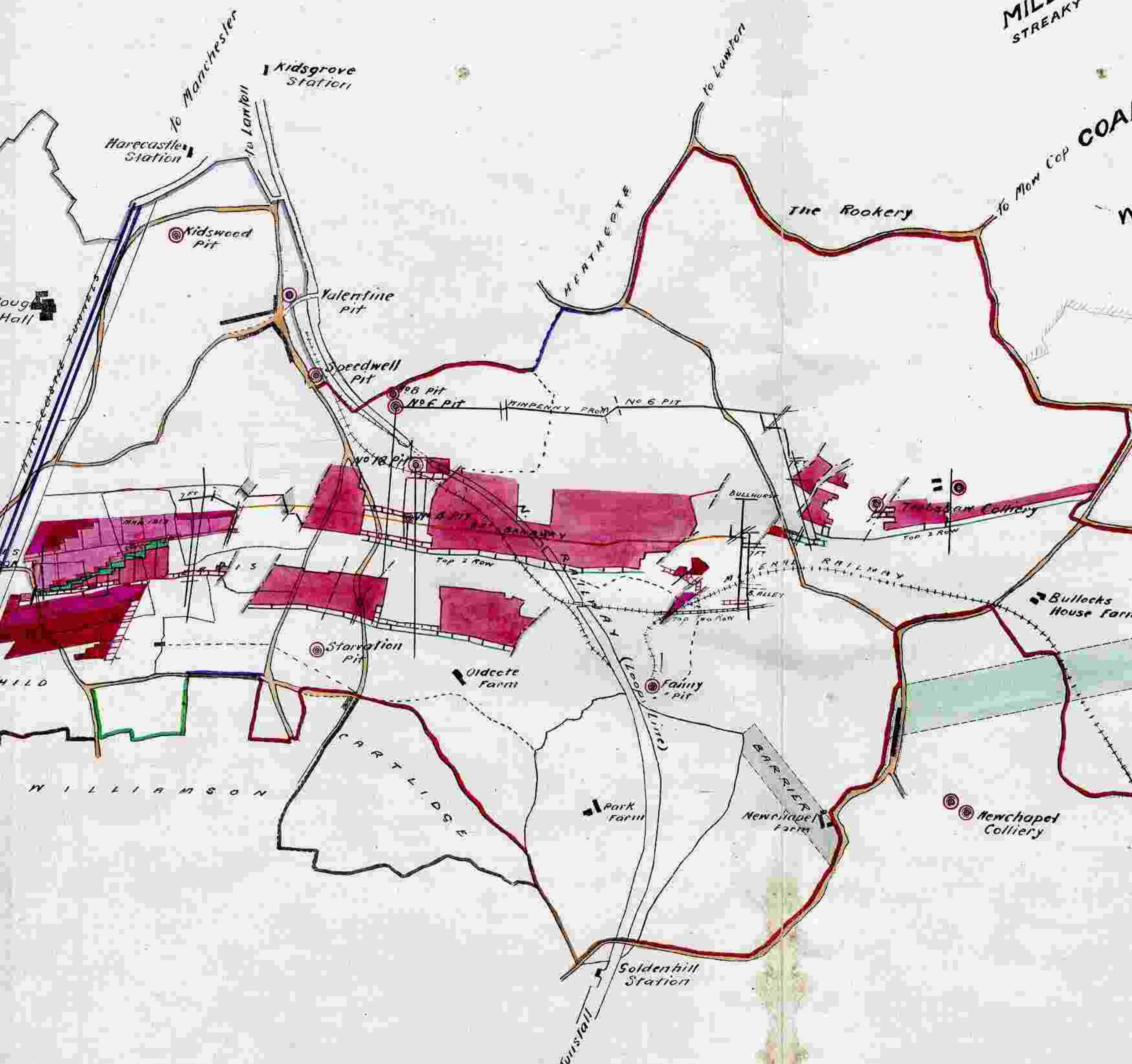
from Newcastle

from Chatterley

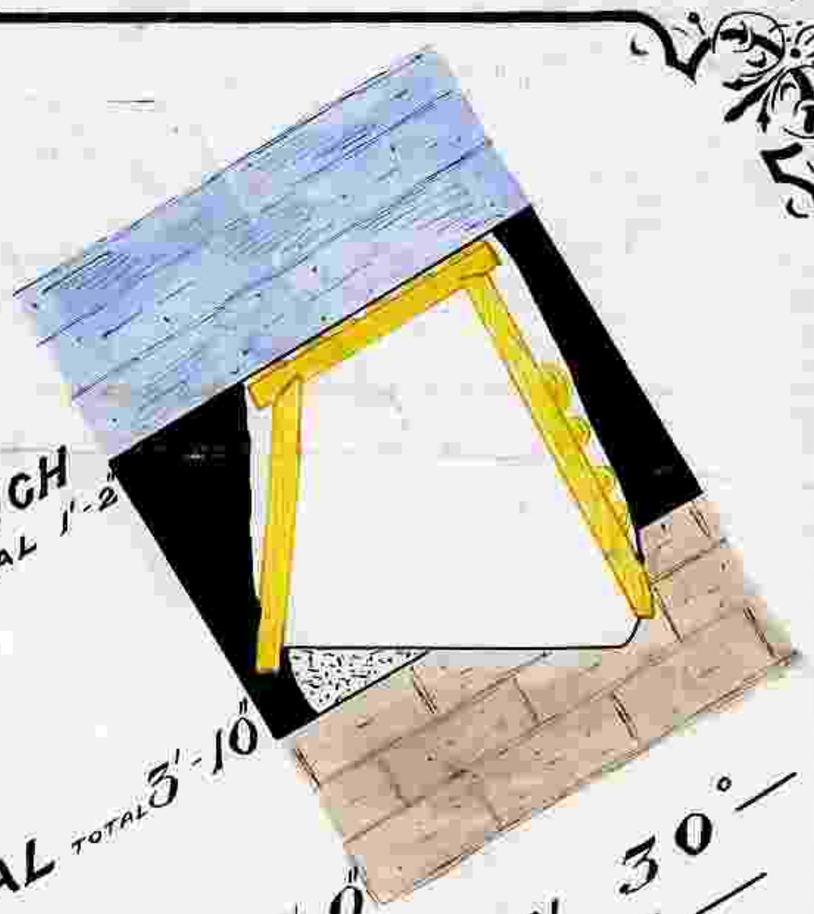
from London

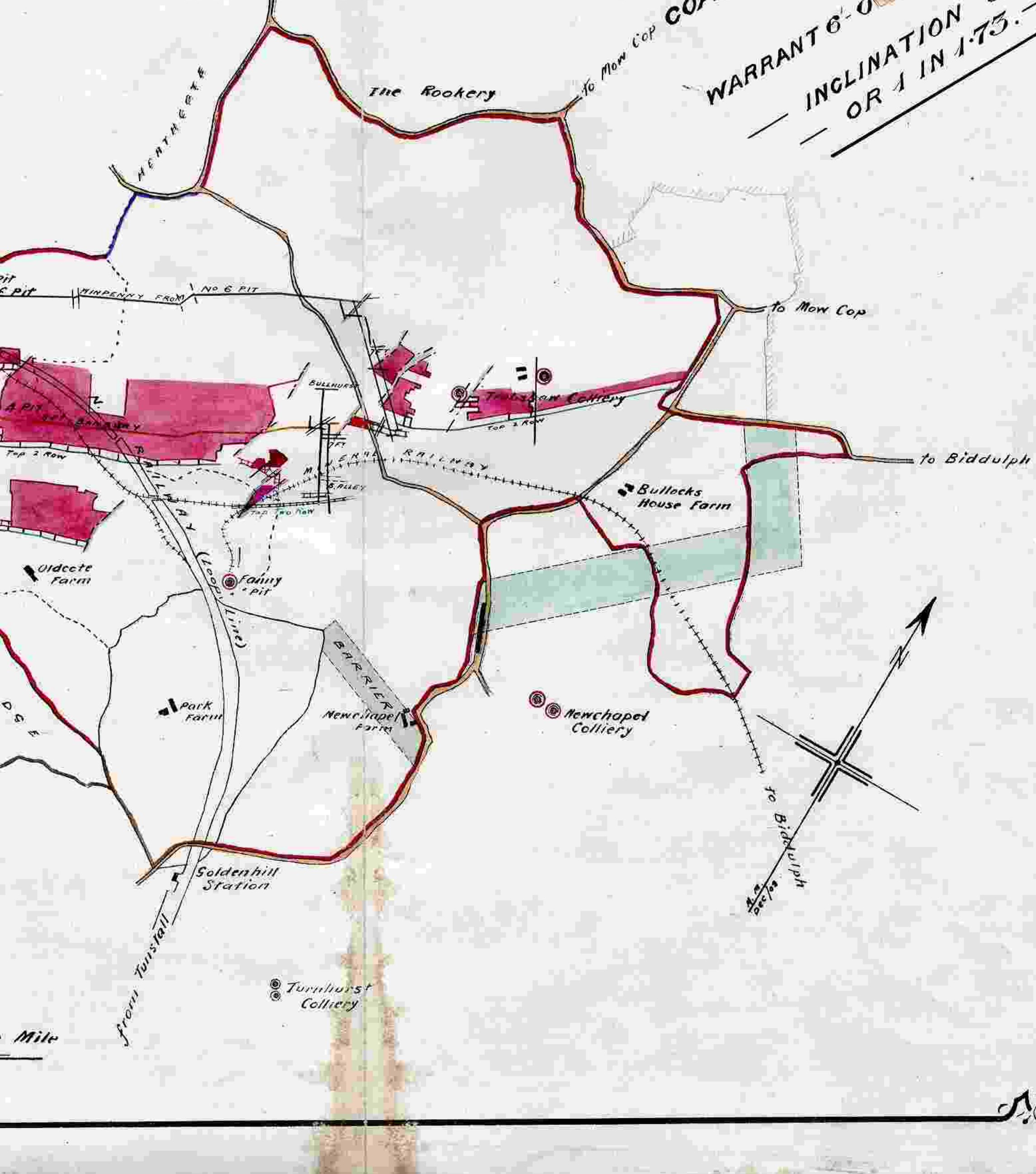
Scale

BOTTOM TWO ROW



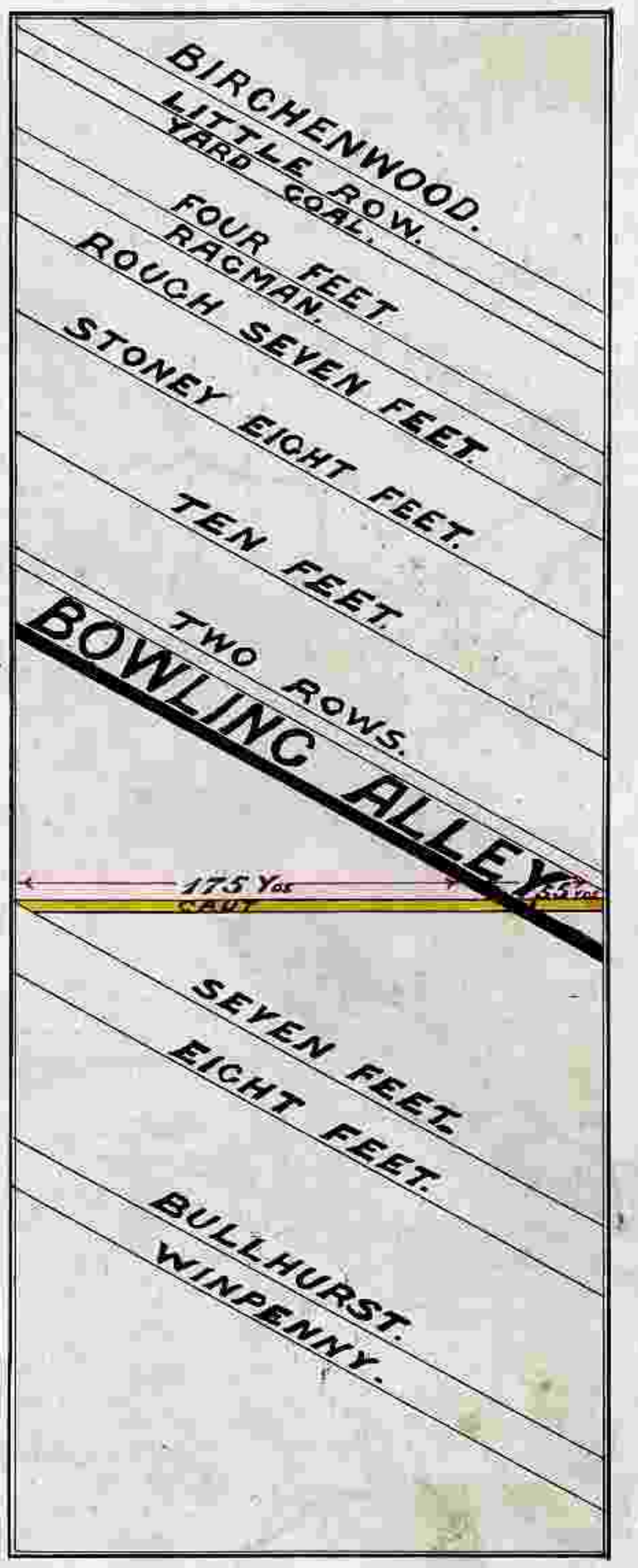
O ROW


MILD CLUNCH
STREAKY COAL 1'-2"
COAL TOTAL 3'-10"
WARRANT 6'-0"
INCLINATION 30°
OR 1 IN 1·73.


to Lowford
HEATHCOTE
The Rookery
to Mow Cop
to Mow Cop
to Biddulph
No 6 PIT
MINPENNY FROM
BULLHURST
Top 2 ROW
RAILWAY
Bullocks House Farm
Oldcote Farm
Fanny Pit
Park Farm
Newchapel Farm
Newchapel Colliery
BARRIER
Goldenhill Station
from Tunstall
Turnhurst Colliery
Mile

BOWLINC ALLEY

16



BOWLI

ONE ACRE.

100 YARDS.

Woodshutts Pit

to Manchester

Harecastle Station

to Lawton

Calley Pit

Kidswood Pit

Clough Hall

No 10 pit

TALKE PITS

TALKE-O'TH'-HILL

Top Lodge

HOLLINWOOD

Leased to Talke Colliery Co.

Bath Hyd

Harecastle Farm

Acres Nook

Harecastle pit

Peacock Hay

HOMER

WILLIAMSON

CHILD

N. STAFFORDSHIRE RAILWAY

HARECASTLE TUNNELS

from Newcastle

from Chatterley

from London

Scale

BOWLING ALLEY

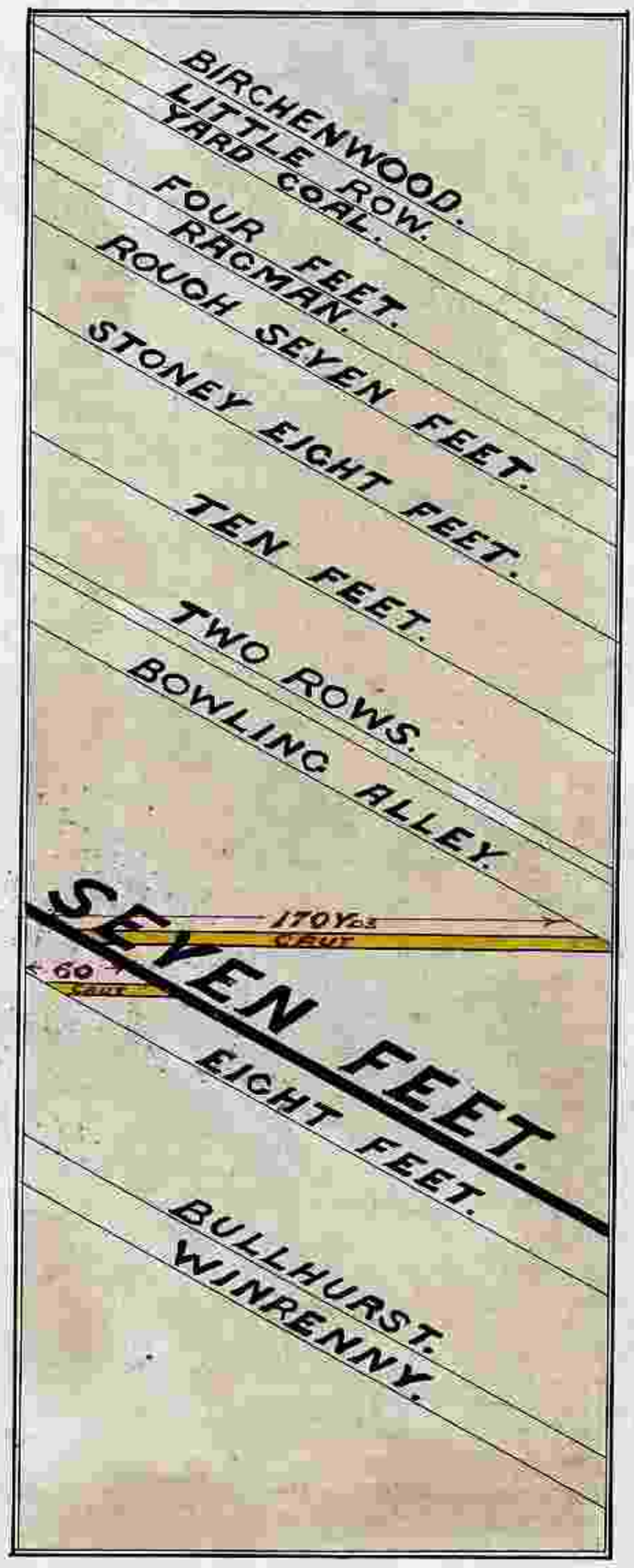
Scale . 6 Inches to One Mile.

LLEY

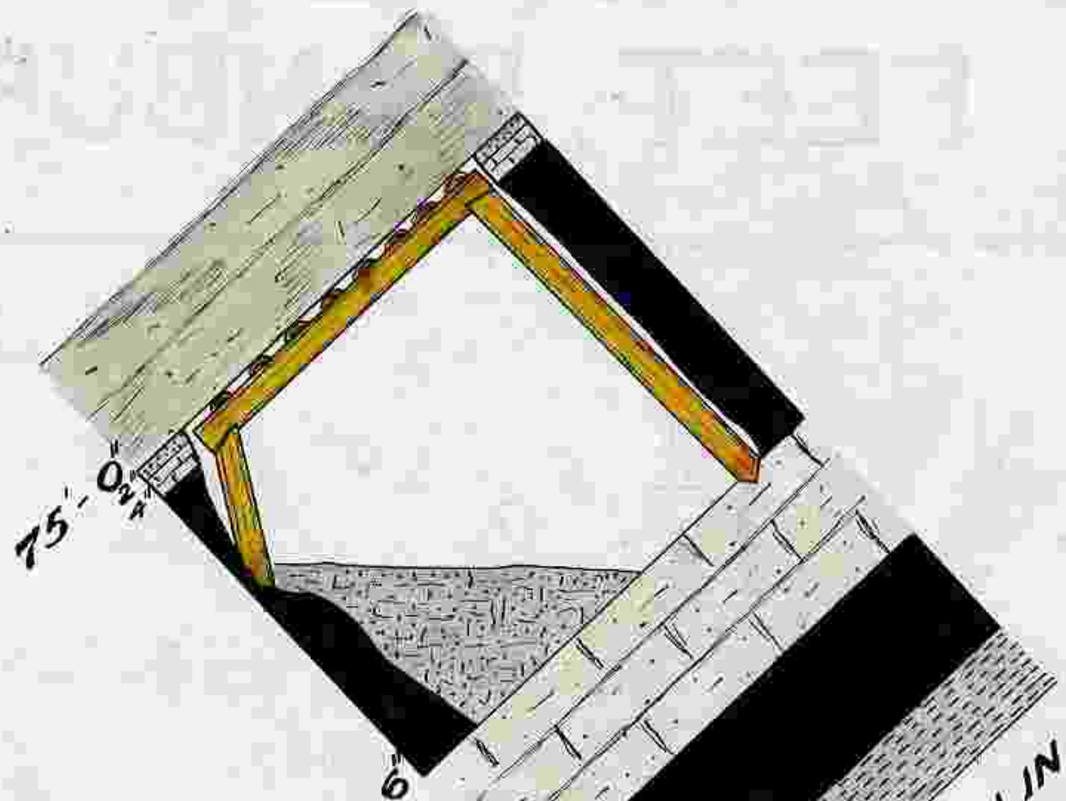
to Lawton
HEATHCOTE
The Rookery
to Mow Cop
to Biddulph
Bullocks House Farm
Twyford Colliery
Newchapel Colliery
Newchapel Farm
Park Farm
Oldcote
Fenny Pit
Soldenhill Station
from Tunstall
Turnhurst Colliery
BARRIER
Mile.

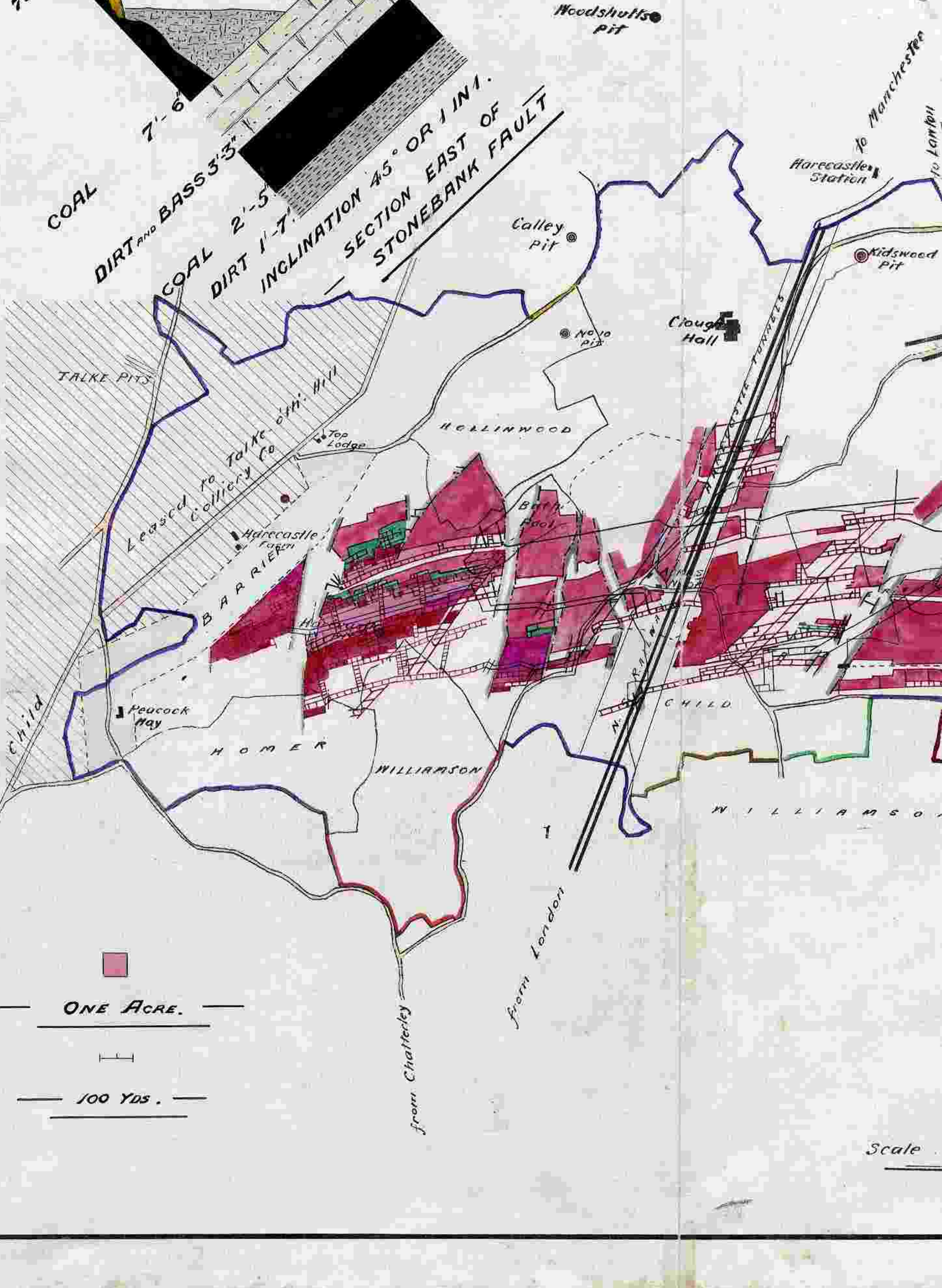
SEVEN FEET BANBURY

17

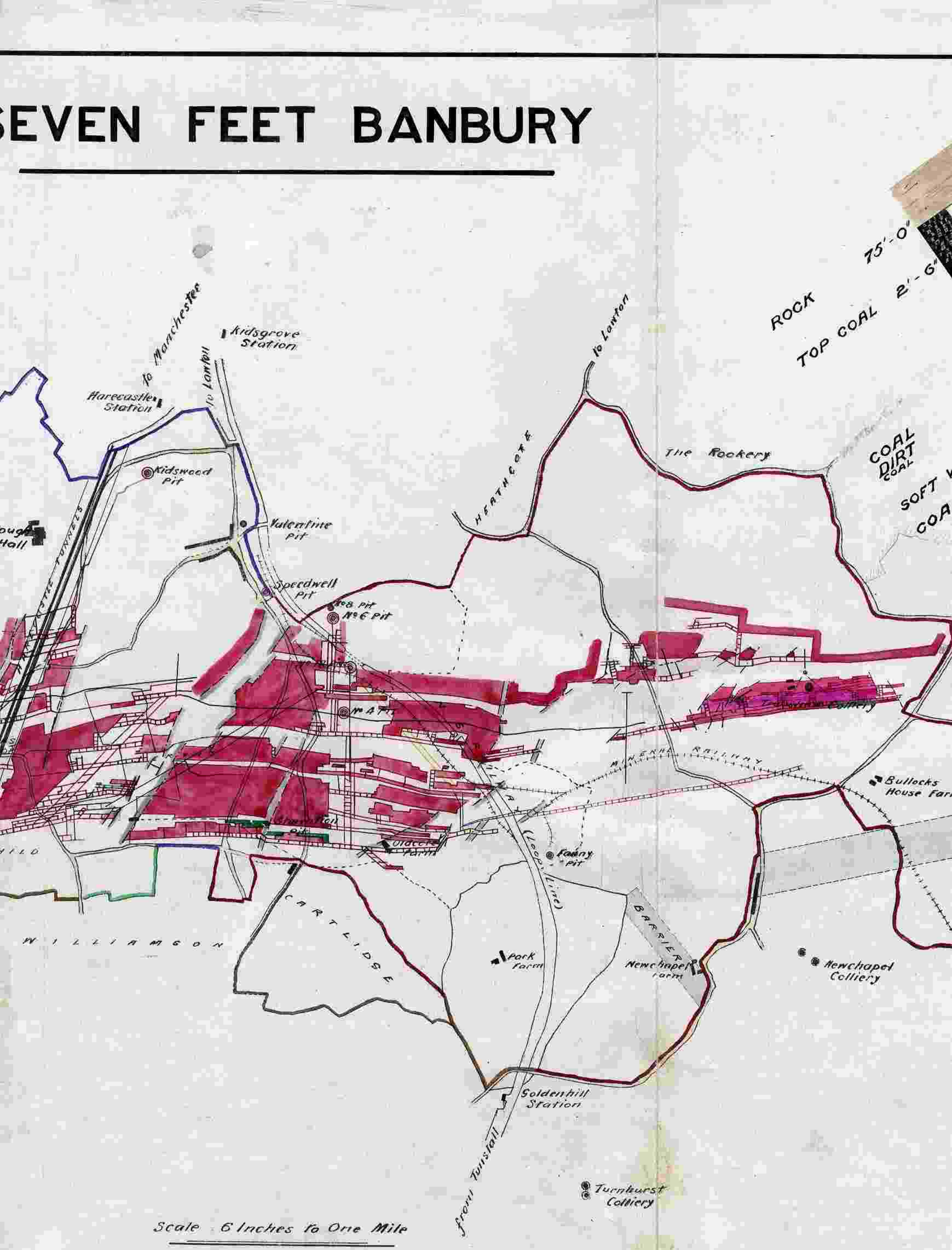


SEVEN F


75'-0½"
ROCK
BASTARD
BASS
7'-6"
COAL
DIRT AND BASS 3'-3"
COAL 2'-5"
DIRT 1'-7"
INCLINATION 45° OR 1 IN 1.
SECTION EAST OF
STONEBANK FAULT

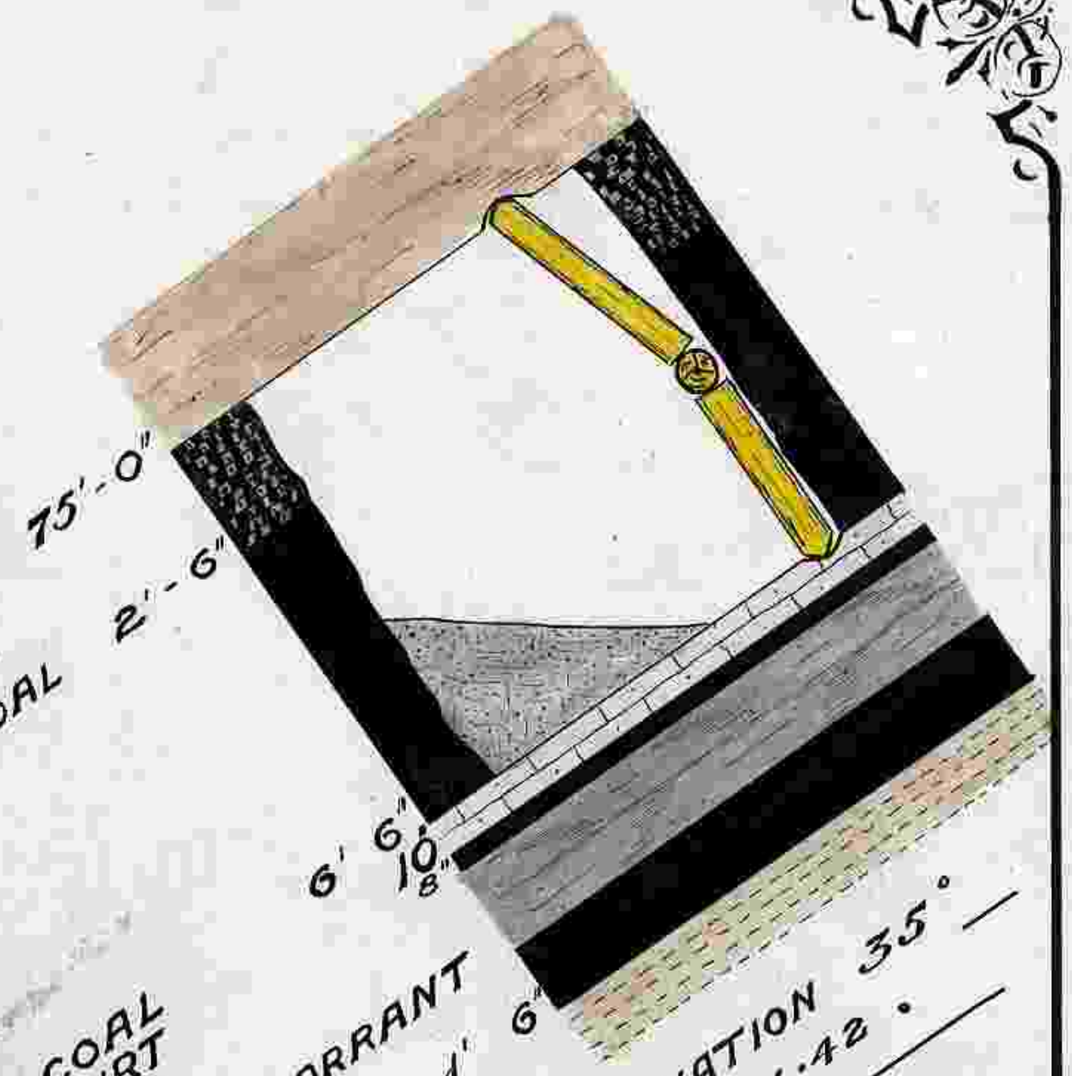

Woodshutts pit
Harecastle Station
Calley pit
Kidswood pit
No 10 pit
Clough Hall
TALKE PITS
Top Lodge
HELLINWOOD
Leased to Talke Colliery Co
Harecastle Farm
BARRIER
Peacock Hay
HOMER
WILLIAMSON
CHILD
Child
from Newcastle
from Chatterley
from London
ONE ACRE.
100 YDS.
Scale

SEVEN FEET BANBURY

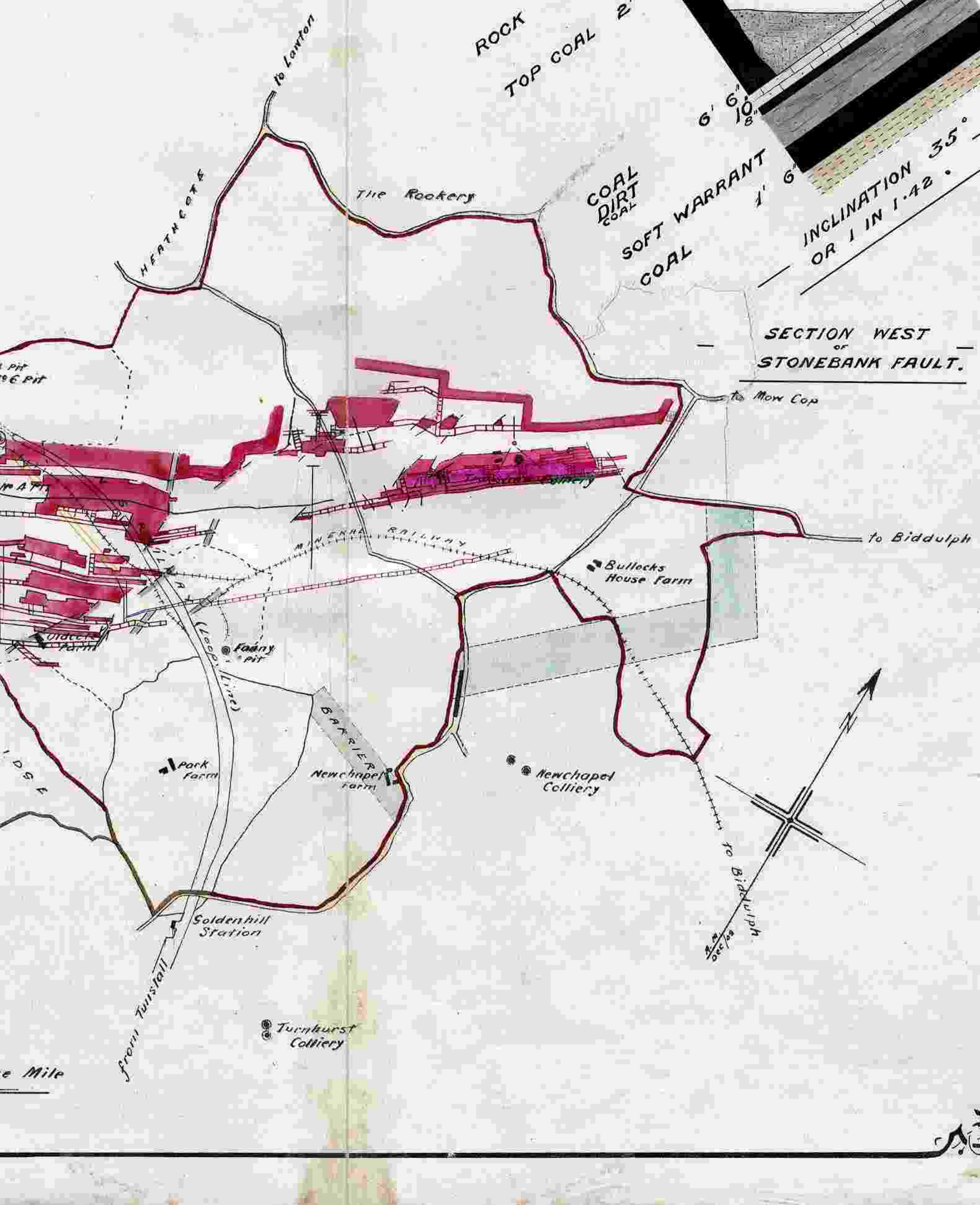


Scale 6 Inches to One Mile

BANBURY

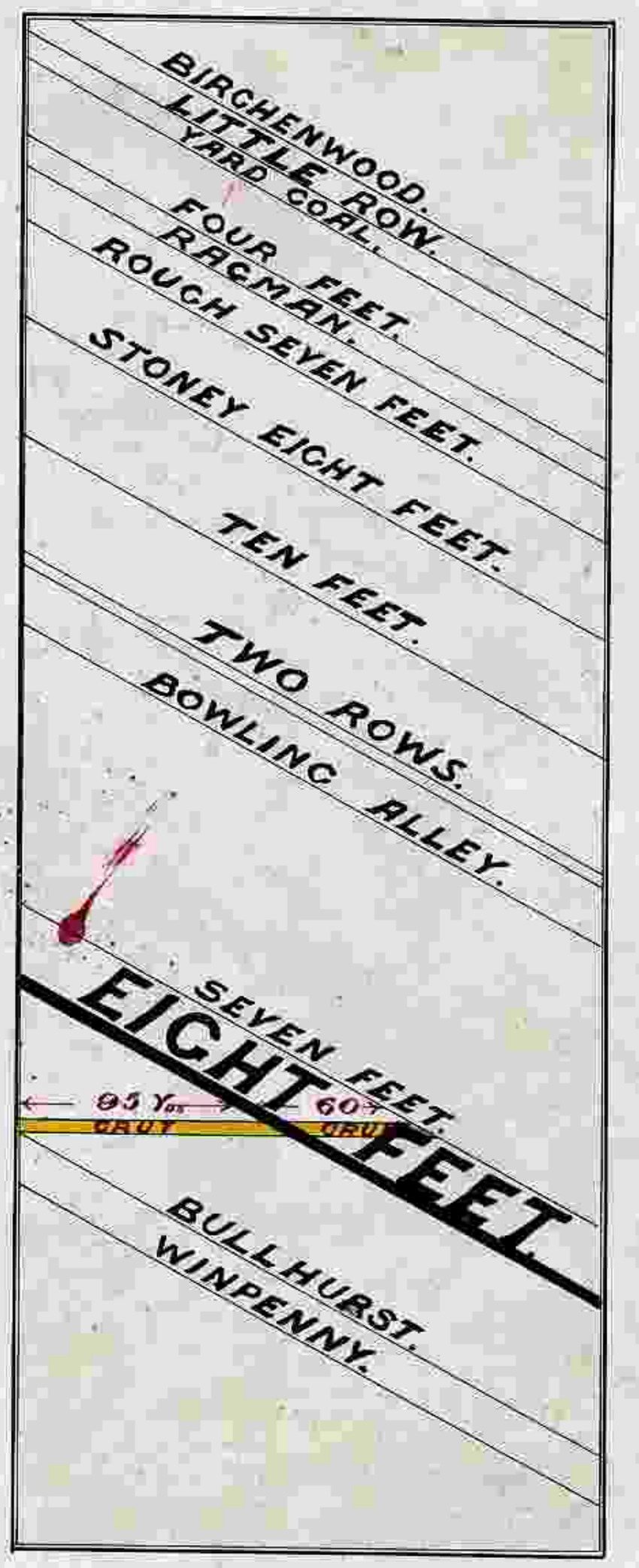


SECTION WEST of STONEBANK FAULT.



EIGHT FEET BANBURY

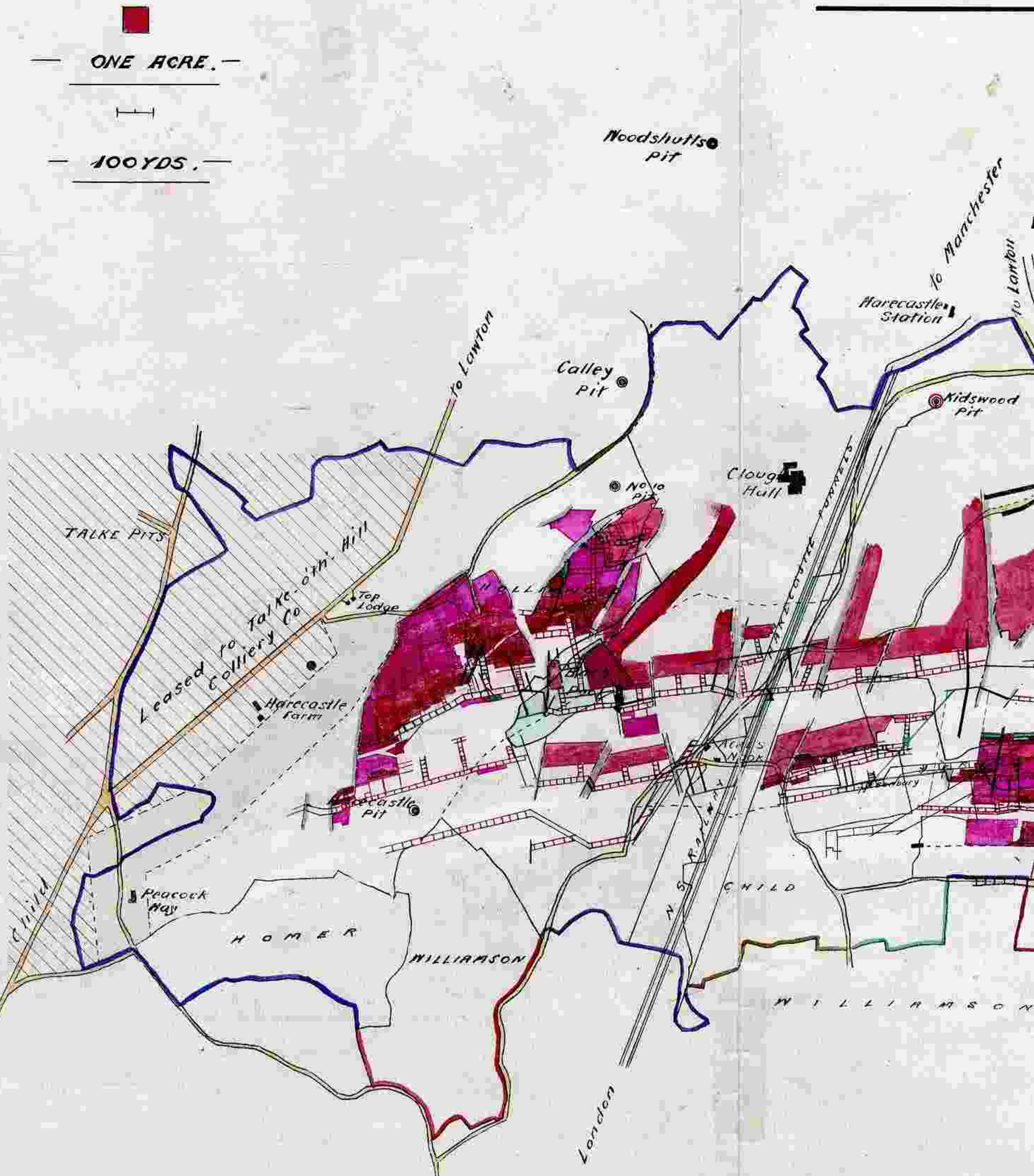
18



EICHT FI

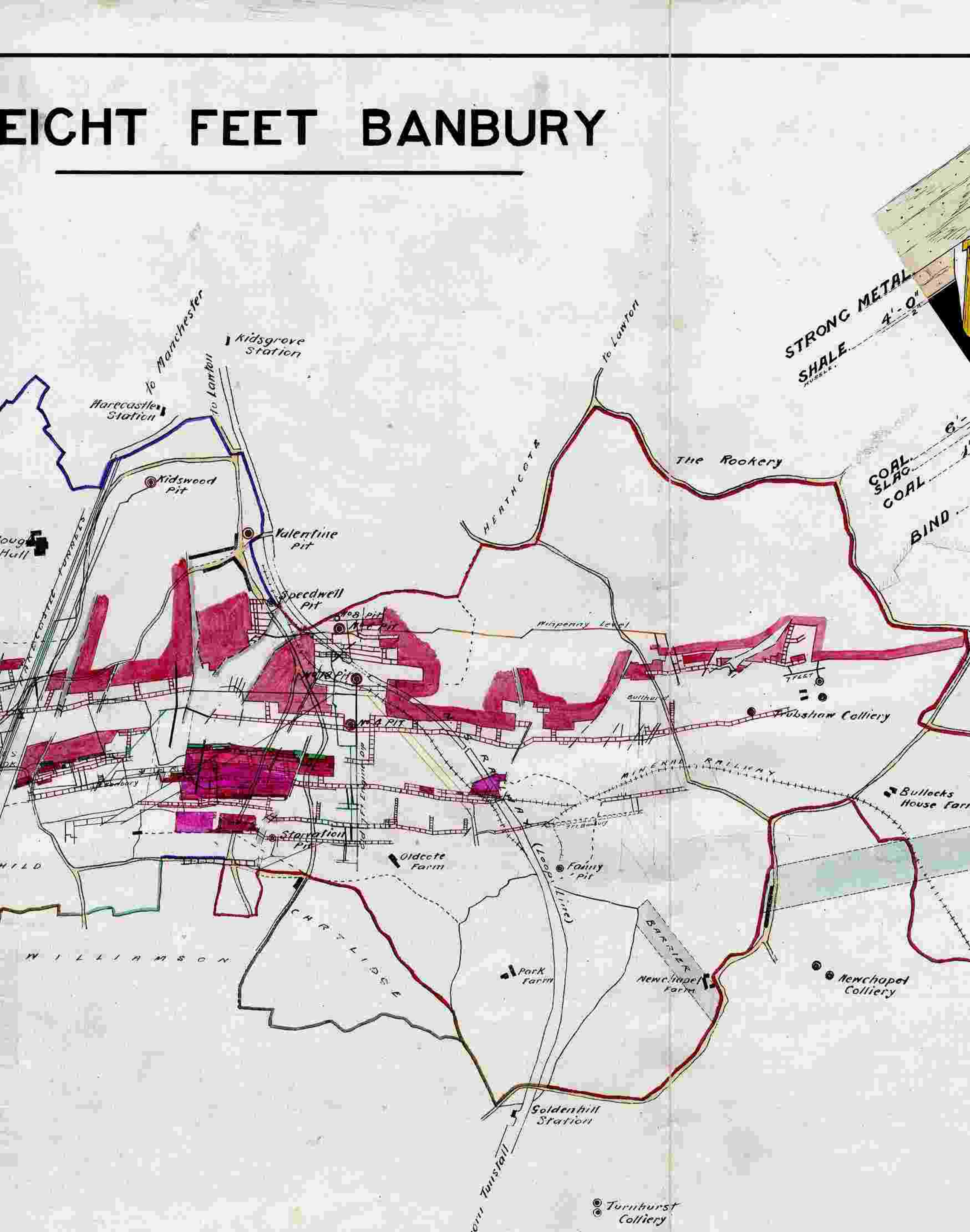
— ONE ACRE. —

— 100 YDS. —



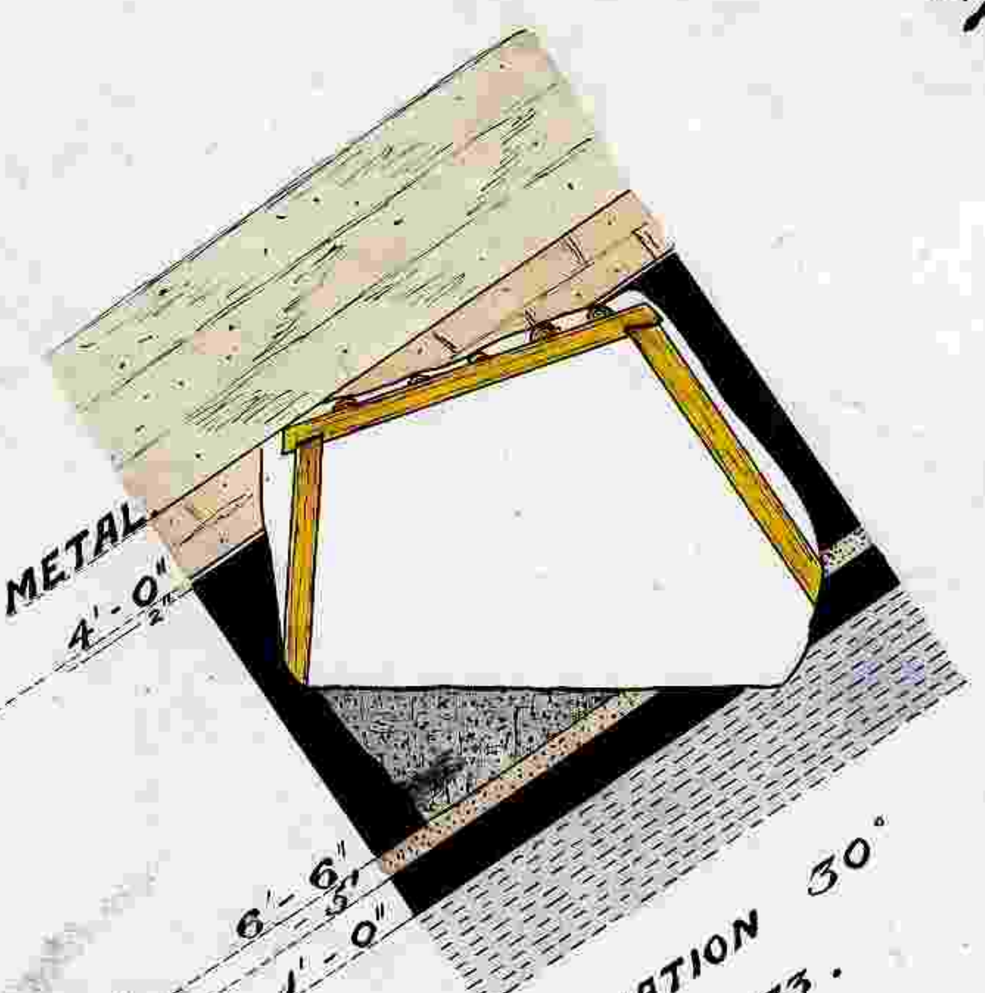
Scale . 6

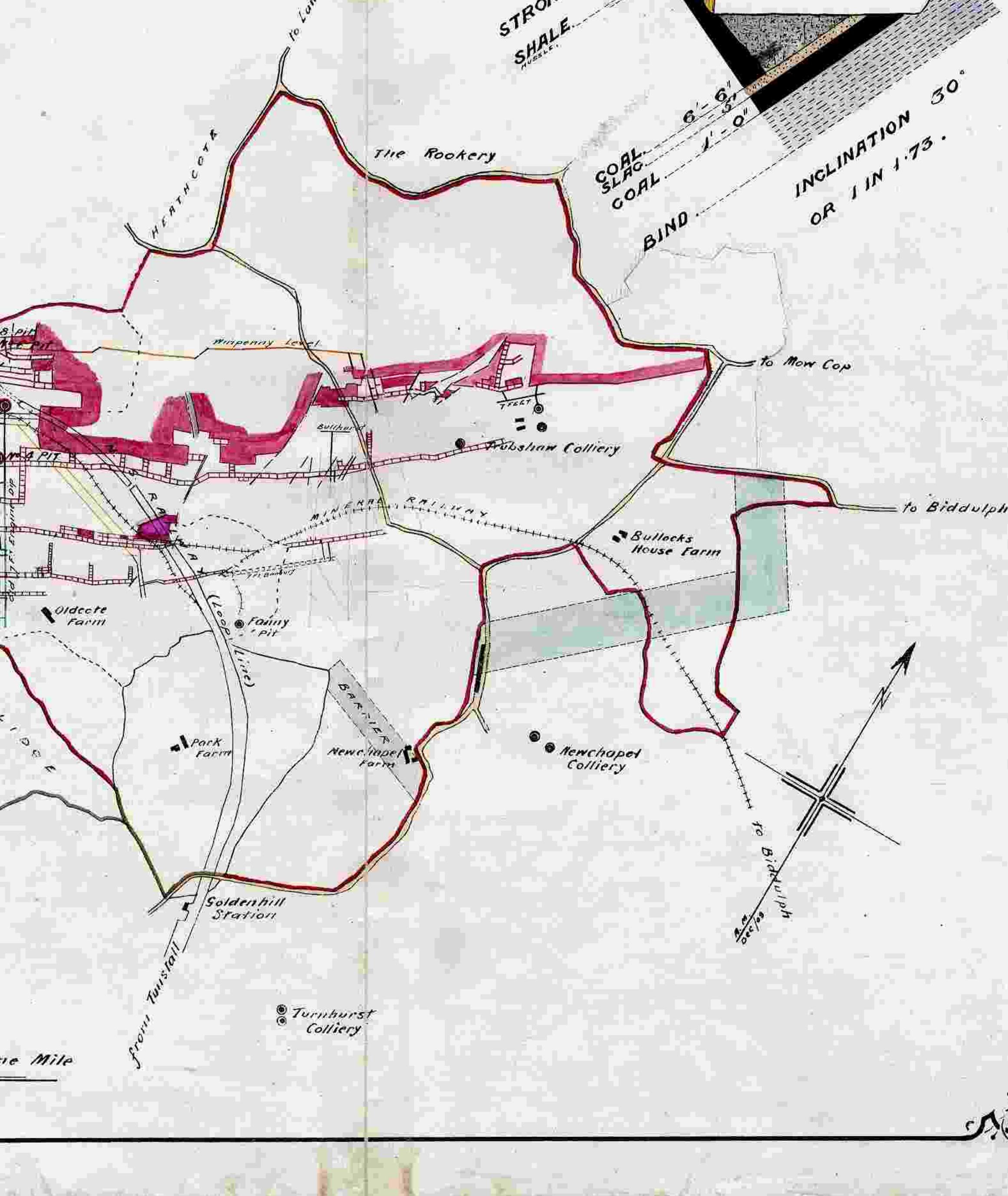
EIGHT FEET BANBURY



Scale 6 Inches to One Mile

BANBURY

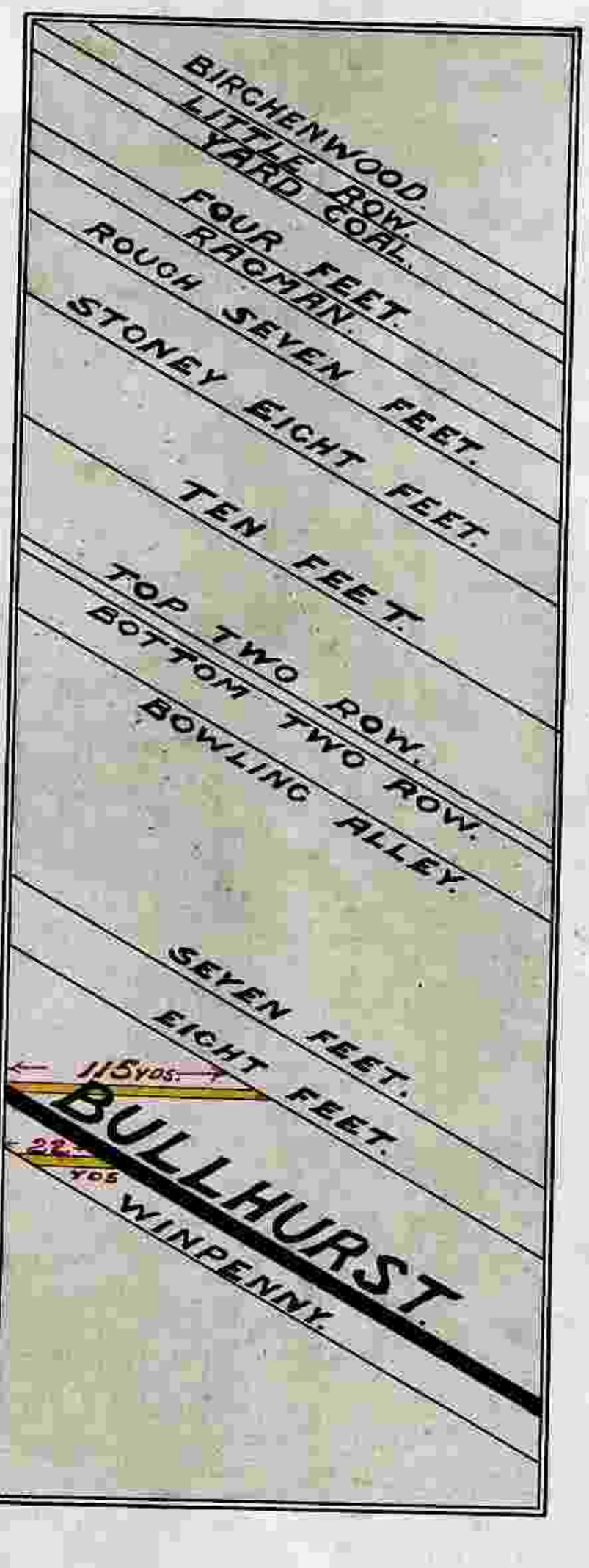




ne Mile

BULLHURST

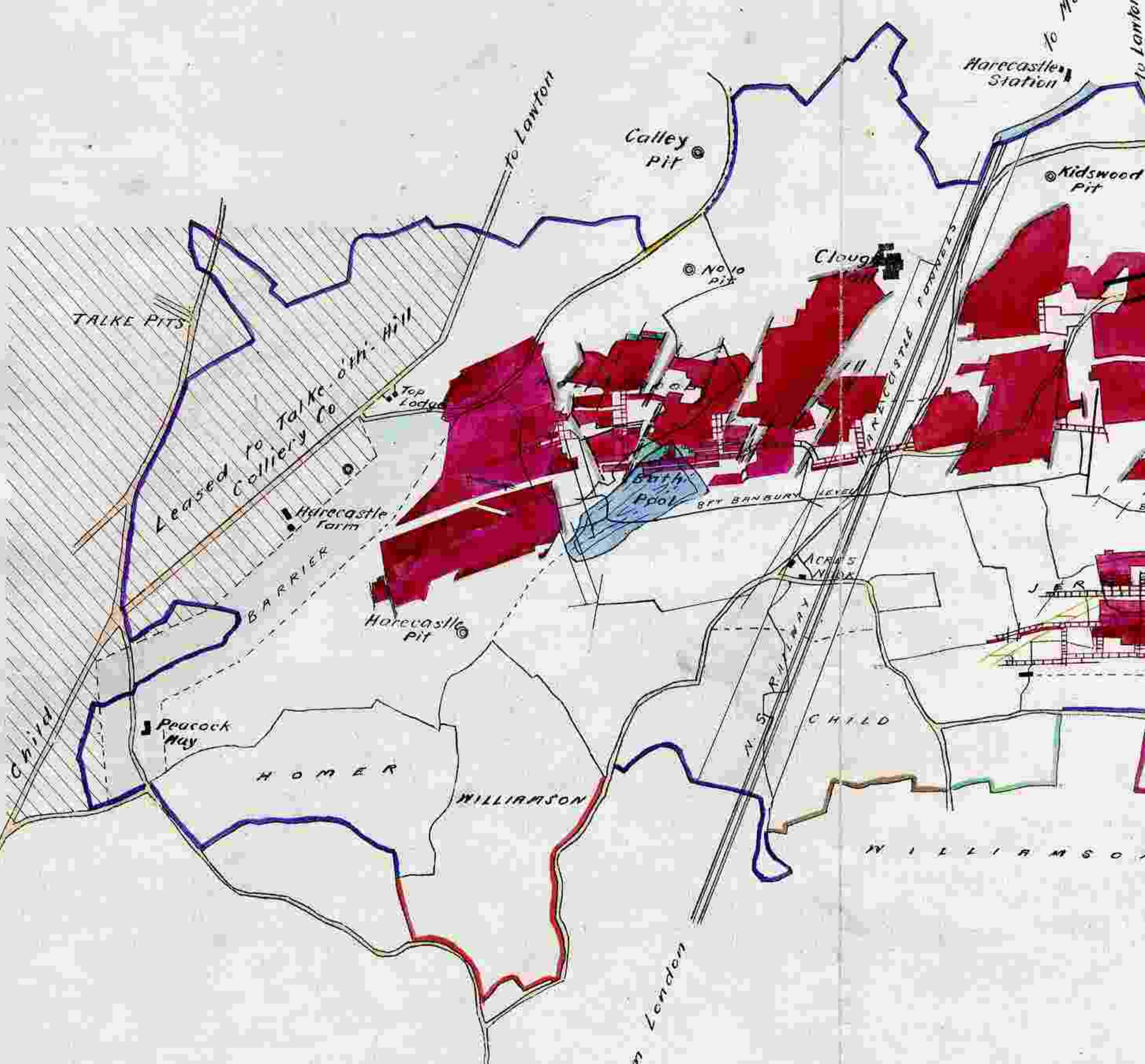
19



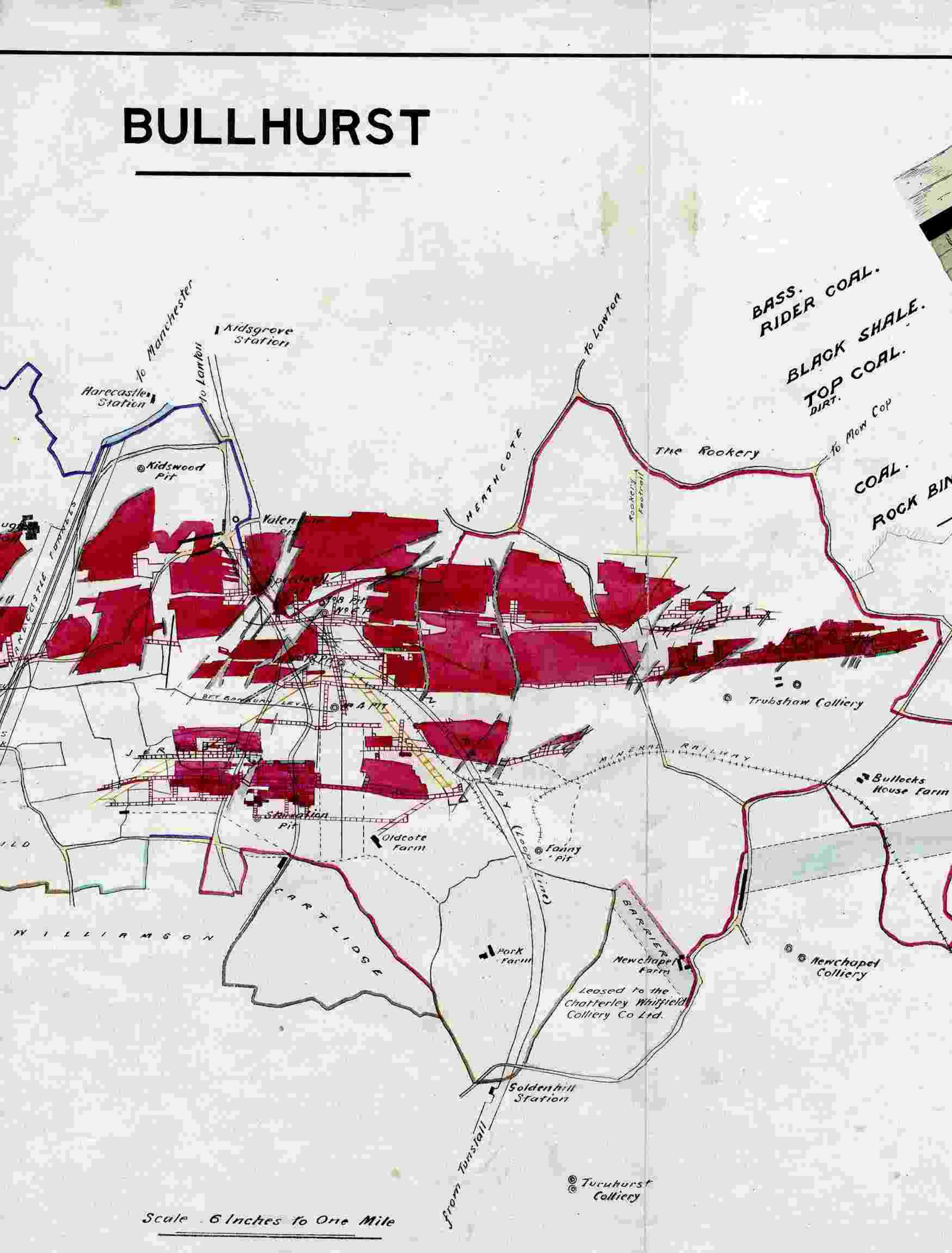
BUL

ONE ACRE

100 YDS

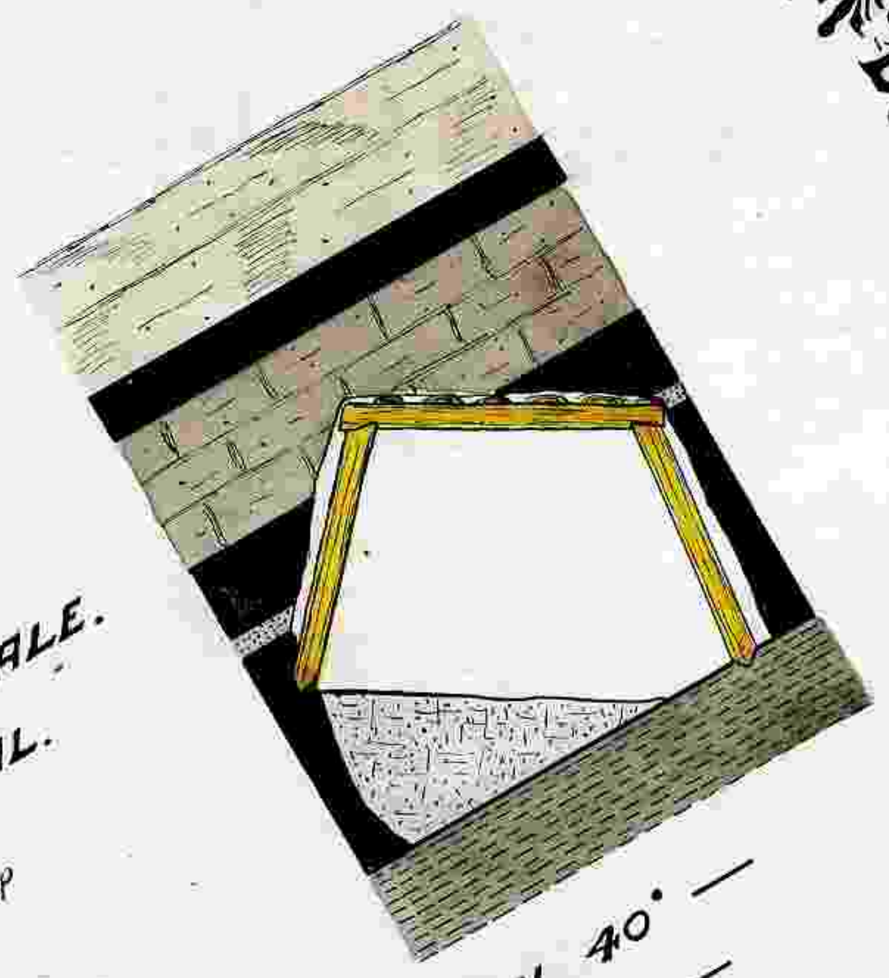


BULLHURST



Scale 6 Inches to One Mile

RST



INCLINATION 40° — OR 1 IN 1·19.

to Lawton
HEATHCOTE
The Rookery
to Mow Cop
Rockery Footpath
to Mow Cop
Trubshaw Colliery
A PIT
MINERAL RAILWAY
to Biddulph
Bullocks House Farm
Oldcote Farm
Fairy Pit
BARRIER
Park Farm
Newchapel Farm
Newchapel Colliery
Leased to the Chatterley Whitfield Colliery Co Ltd.
to Biddulph
A.M. Dec/08
Goldenhill Station
from Tunstall
Turnhurst Colliery

ne Mile