## WEST MIDLANDS DIVISION

NO.1 (NORTH STAFFS.) AREA

## CHATTERLEY WHITFIELD COLLIERY

750,000 TONS

PER ANNUM SCHEME

## CONTENTS

- 1. TEXT
- 2. APPENDICES

IV. Schedule of Expenditure

VII. Phasing of Expenditure

IX. Total Investment

XI. Wages Cost and Productivity

XII. Wages Cost and Profitability

3. Projected Annual Seam Outputs 1960-1970.
Estimated Reserves Available to the Scheme 9260'-8300'.

## West-Midlands Division

## CHATTERLEY-WHITFIELD COLLIERY

## SCHEME FOR PLANNED OUTPUT OF 750,000 TONS PER ANNUM

Consideration has already been given to various alternative reconstruction schemes for Chatterley-Whitfield Colliery as follows:-

- 1): The concentration of the outputs of Norton, Victoria and Chatterley-Whitfield Collieries to Chatterley-Whitfield with an increase of output from the new combined Chatterley-Whitfield 'Take', giving a total of 2,000,000 tons per annum. This scheme included a new 24 ft. diameter shaft, the inter colliery drivages and the necessary surface plant to deal with the planned output.
- 2): The concentration of the outputs of Victoria and Chatterley-Whitfield Collieries to Chatterley-Whitfield with an increase of output from the Chatterley-Whitfield 'Take', giving a total of 1,500,000 tons per annum. This scheme included a new 24ft. diameter shaft, the inter colliery drivage and the necessary surface plant to deal with the planned output.
- 3): The reconstruction of Chatterley-Whitfield Colliery with an increase of output to give a total of 1,000,000 tons per annum. This scheme included a new 24ft. diameter shaft, underground drivages and surface plant to deal with the planned output.
- 4): The reconstruction of Chatterley-Whitfield Colliery with an increase of output to give a total of 890,000 tons per annum. This scheme did not include a new shaft, but modifications and deepening of existing shafts would be undertaken together with underground drivages and surface plant to deal with the planned output were included.
- 5): The reconstruction of Chatterley-Whitfield Colliery with a new shaft for a planned output of 750,000 tons per annum, with other items scaled down but in line with scheme 3 (the 1,000,000 tons per annum scheme).

The reconstruction scheme which is the subject of this report is based on a planned output of 750,000 tons per annum without the provision of a new shaft. (The saleable output in 1959 was 686,528 tons.)

The proposals cater for the deepening of the Hesketh Shaft at its existing diameter of 20ft: from its present winding depth of 638 yards to 761 yards (8300' Horizon) the repairing of the Institute Shaft (16' diameter) and its deepening at 20ft diameter from its present winding depth of 417 yards to 761 yards (8300' Horizon). New electric winders would be required at both these shafts and an inspection winder at the Platt Shaft.

The essential features of the scheme consist of establishing the 8300' Horizon in order to increase the output of the Moss and the seams immediately below it, to replace the output in the Bullhurst and Brights Seams. The access to the present workings in these two seams is by long dip haulages which are approaching their maximum economic length. The proposals also include a new coal preparation plant, together with new sidings layout and landsale facilities and the elimination of steam raising plant except for space heating. The concentration of the whole of the output would be to the Hesketh and Institute Shafts as well as the ventilation of the workings, and the Middle and Winstanley Shafts, which are at the present time on a separate transport and ventilation system, would be closed.

Estimated expenditure, itemised in Appendix IV, caters for all the work mentioned and includes the revenue drivage at the 8300ft. Horizon already authorised and the recent application for the necessary expenditure to establish a dirt preparation plant at the Hesketh level (8690' Horizon) to give facilities for solid stowing under the heavily built up area of the Town of Tunstall. The cost of two Area Standard Winders, together with new towers at the Hesketh and Institute Shafts, has also been included. At this stage, a full investation has not been made of the winders required for the work, and it is possible that appreciable economies may be affected on the estimated expenditure shown in Appendix IV.

Attached hereto are Appendices :-

IV Expenditure

VII Phasing of Expenditure

IX Total Investment

XI Estimated Wages Cost and Productivity

XII Estimated Wages Cost and Profitability Completed Development,

together with an Annual Seam Output Chart (1960 - 1966) and an Estimate of Reserves showing seam reserves, coal rank and analysis.

AREA PLANNING BRANCH: 21st March, 1960:

## National Coal Board

## West Midlands Division

## No.1 (North Staffs) Area

## Chatterley Whitfield Colliery Project

## Effective date of Estimate January, 1960

## 750,000 Tons Per Annum

Sect.	Description	Total Estimated		tion of penditure	Depre	Estimated
	Description	Expenditure	Rev.	Cap.	%	Annual Charge
O1 02 03 04 05 06 07 08 09 10 11 12 13 14	General Expenses Site & Sinking Prep. Shaft Deepening Shaft Furnishing Headframes & Winder Houses Winding Engines Pithead Structures Winding Equipment Power, Heat & Light Ventilation Industrial Buildings Welfare Buildings Surface Layout Mats. Yard & Sidings	30,000 104,000 500,000 104,000 262,000 510,000 75,000 110,000 298,000 100,000 5,000 59,000	44,000	30,000 104,000 500,000 104,000 262,000 510,000 75,000 110,000 298,000 100,000 5,000	2.7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	750 2,308 12,500 2,600 6,550 25,500 1,875 7,337 14,900 4,100 500 500
15	Preparation Plant TOTAL SECT: 01.15	750,000	44,000	750,000 3,185,000	3.9	122,887
16 17 18 19 20	Pit Bottoms Mine Drivage U/G.Main Transport U/G Subsidiary Trans Face Equipment	340,000 741,000 75,000	634,000 2,000	340,000 107,000 75,000 4,000 7,000	3.6 12½ 11.2 12½ 12½ 12½	12,240 13,375 8,400 500 875
	TOTAL SECT: 16-20	1,169,000	636,000	533,000	6.6	35,390
	GRAND TOTAL: 01-20	4,398,000	680,000	3,718,000	4.3	158,277

## APPENDIX VII TO F.631/R (1957)

## NATIONAL COAL BOARD

WEST MIDIANDS DIVISION

NO.1 (NORTH STAFFS.) AREA

## Chatterley Whitfield Colliery Project

Phasing of Expenditure Including Estimate of Interest on Capital Expenditure Payable during Reconstruction

## Horizon Mining Scheme

## 750,000 Tons per Annum

	Estimated Expe During the Yea		Oumulative Expenditure on Capital	Interest on (c)	Interest on (d)	Total Interest
Financial Year	On Revenue Account	On Capital Account	A/C up to and of previous Year	at 3%	at 6% per annum	for Year
(a)	(b)	(0)	(d)	(e)	(f)	(g)
1960	134,000	44,000	-	1,320	- × <del>- ×</del>	1,320
1961	196,000	857,000	44,000	25 <b>,7</b> 10	2,640	28,350
1962	167,000	1,308,000	901,000	39,240	54,060	93,300
1963	129,000	1,006,000	2,209,000	30,180	132,540	162,720
1964	45,000	239,000	3,215,000	7,170	192,900	200,070
1965	9,000	264,000	3,454,000	7,920	207,240	215,160
Total new Expenditure per Appendix IV		3,718,000	Total Interest Capital during Reconstruction	5		700,920

## THE SUBMISSION OF CAPITAL PROJECTS FOR APPROVAL

## TOTAL INVESTMENT

## WEST MIDLANDS DIVISION

NO.1 (NORTH STAFFS)AREA CHATTERLEY WHITFIELD COLLIERY

750,000 TONS PER ANNUM

		William Committee of the Committee of th
1.	New Capital Expenditure (as per Appendix IV)	£ 3,718,000
2.	Interest on Capital during Reconstruction (as per Appendix VII)	700,920
3.	Net loss on Interim Production (as per Appendix VIII)	-
4.	Working Capital Required	
	(a) Before Reconstruction 372,246	
	(b) Additional Working Capital	
	required as a result of reconstruction 54.579	426,825
5.	Value of Existing Undertaking	1,160,149
6.	Written down value of assets to be transferred from another colliery etc. and used for the purpose of this project.	
		6,005,894
LES	SS_	
7.	Residual Value of Plant, Buildings, Equipment etc. becoming redundant as a result of the project.	
8.	Net Capital Investment	6,005,894
9.	Major Revenue Expenditure	680,000

## West Midlands Division No.1 (North Staffs)Area

## CHATTERLEY WHITFIELD COLLIERY FROJECT

## 750,000 Tons Per Annum

#### NATIONAL COAL BORD

## THE SUBMISSION OF C. PILL FROJECTS FOR LIFRCVAL

## ESTIMATES OF WACES COSTS AND PRODUCTIVITY

		COMPLE	TED DEVI	CLOFMENT			
	(a)	(b)	(c)	(d)	(e)		(f)
	Average Daily Manshifts	Average Daily Saleable Output	0.M.S.	Shifts per 1000 Tons	Calculat E.M.S.		Mages Cost Per Ton
		Tons	Cwts.		s.	d.	s. d.
FACE							
Moss Seam Conventional)	316	1,555	98.4	203	69.	2	14/0.6
Yard Seam Mechanised	62	270	87.1	230	81.	5	18/8.3
Bellringer Seam(Conventional)	106	1440	83.0	241	77•	0	18/6.6
Ten Feet (Conventional)	61	300	98.0	203	77•	7	15/9.3
Bullhurst (Conventional)	65	340	104.6	191	73.	2	13/11.8
Silver(Conventional)	50	220	88.0	22 <b>7</b>	73•	1	16/7.3
TOTAL FACE	660	3,125	94•7	211	73.	0	15/5.0
TRANSPORT	320	3,125	195•3	102	46.	3	4/8.9
DEV/SFECIAL WORK	120	3,125	520.8	38	73.	0	2/9.6
OTHERS	180	3,125	347.2	58	61.	1	3/6.2
TOTAL OTHERS UNDERGROUND	620	3,125	100.8	198	55.	9	11/0.7
TOTAL UNDERGROUND	1,280	3,125	48.8	409	64.	8	26/5.7
SURFACE	486	3,125	128.6	156	43.	6	6/9.2
TOTAL UNDERGROUND AND SURFACE	1,766	3,125	35.4	565	58.	10	33/2•9
LESS TRANSFERS	26	3 <b>,</b> 125	24 03 .8	8	43.	6	4.3
	1,740	3,125	35.9	557	59•	1	32/10.6
						you was	

#### PASTS OF COMPUTATION

-	-	-	
u	m	u	
7	- 1	7	

	BASI	S OF COM	FUTATION				1959		
(g)	(h)	(i)	(j)	(k)	(1)		(m)	(n)	(0)
Average Daily Manshifts	Average Daily Saleable Output	0.11.5.	Shifts per 1000 Tons	At Current E.M.S.	Rates Wages Cost per to	n	Source of Data	Perfod Chosen	Ref. to Notes or Text
	Tons	Cwts		s. d.	Se	ď.			
196 340	964	98•4 86•5		69/2 81/ <b>5</b>			Moss North Chatterley  Little Row No.2 North  Chatterley.	Mar.'60	
236	1,020	86.4		77/0			Bellringer No.1 South Chatterley.	11 11	
299	1,465	98.0		77/7			Ten Feet Hesketh Dip Chatterley	" "	
24,9	1,299	104.3		73/2			Bullhurst No.12 South Chatterley.	11 11	
				43/9 61/6 61/1			Chatterley	Feb. 60	
				41/6			Chatterley		

#### THE SUBMISSION OF CAPITAL PROJECTS FOR AFFROVAL

#### ESTIMATE OF WAGES COST AND FROFITABILITY - COMPLETED DEVELOPMENT

#### COMPLETED DEVELOPMENT

Year Ended 31st Dec. 1966 Output 750,000 Tons

O.M.S. Overall 35.4 Cwts. Working Days 240

312

2,078

Basic Date of Price Levels Feb. 1960 used for Completed Development...

Allowance for Absenteeism

Manpower on Books

#### COMPARATIVE FIGURES

Year Ended 2nd Jan. 1960

0.M.S. Overall 26.97 Cwts.

## APPENDIX XII TO F.631/R (1957) SHEET 1 OF 2 SHEETS

West Midlands Division No.1 (North Staffs)Area

Output 686,528 Tons

Chatterley Whitfield Project

Working Days 240

											<i>2</i> 3					
	Average Daily Manshifts  O.M.S. Shifts per Estimated Wages Cost  Daily  O.M.S. Shifts per At Current F	ent Ra	ites	At Act	ual Rates	Reference to										
			Tons			per ton		Manshifts		1000 Tons	E.M.S.	Wages per	ton	E.M.S.	Wages Cost per ton	Notes or Text
		Cwts.		s.	d.	s.	đ.	-	Cwts.		s. d.	s.	d.	s. d.	s. d.	
WAGES COST (after deducting Transfers)													- 1			
Underground	///	0) 7		77			5.0	651	07.1	220	70 44	16	8.1	71 - 11	16. 5.3	
Face	660	94•7	211	73.	O	15.	5.0	654	87.4	229	72. 11	10.	0.1			
Transport	320	195.3	102	46.	3	4.	8.9	587	97.5	205	43. 9	8.	11.7	42. 6	8. 8.6	
Development and Special Work	120	520.8	38	73.	0	2.	9.6	71	800.8	25	61. 6	1.	6.3	65. 9	1. 7.6	
Others Underground	180	347•2	58	61.	1	3.	6.2	171	335.2	60	61. 1	3.	7.8	59.10	3. 6.9	
				2										=		
Total Underground	1,280	48.8	409	64.	8	26.	5•7	1,483	38.6	519	59. 5	30.	9.9	58. 7	30. 4.4	
Total Surface	460	135•9	148	43.	6	6.	4.9	5 <b>7</b> 5	99•5	201	41. 6	8.	4•1	40.10	8. 2.4	
Total Underground and Surface	1,740	35•9	557	59.	1	32.		2,058	27.8	720	54• 5	39.	2.0	53. 7	38. 6.8	
Less Overtime Shifts Included								133								
Add Transfers	1,740 26							1,925 63								

351

2,339

## THE SUBMISSION OF CAPITAL PROJECTS FOR APPROVAL

APPENDIX XII to F631/R(1957)

SHEET 2 OF 2 SHEETS

No.1 (North Staffs) Area

West Midlands Division,

Chatterley Whitfield Colliery Project

#### 750,000 TONS PER ANNUM SCHEME

#### ESTIMATE OF WAGES COST AND PROFITABILITY - COMPLETED DEVELOPMENT

COMPARATIVE FIGURES

	D
	Proceeds: Sales of Coal (At Inland Prices)
	Service Charges and Wholesale Margin.
	Surplus Export Proceeds.
-	TOTAL REVENUE
-	IOIRD REVEROE
	TOPPA MINIC COORD
2	OPERATING COSTS
-	
	Mages
	Holiday Pay
	Sick Pay
	Workmans Coal
	Suppl <sup>m</sup> intary Injuries
	National Insurance
. 1	Roof Supports (Road and Face)
(	General Stores
	Repairs and Renewals
1	Mining Contracts
	Power, Heat and Light
	Surface Damage
	Wagon Charges
	Salaries
	Rent, Wayleaves
	Rates
- 5	Pensions
	General Expenses
	Overhead Expenses
	Fravelling Allowance
	Depreciation:-
	New Expenditure
-	Minerals
	Other Assets
	Obsolescence
100	POTAL OPERATING COSTS
(	OTHER COSTS
177	
3	Amort of Capitalised Interest at 3%
	Interest on Capital at 6%
	TOTAL COSTS
1	NET PROFIT
-	

Co	mpleted	Development.
	er Ton of Output	Annual Total
94	0.4 9.8	£. 3,526,250 30,625
94	10.2	3,556,875
32 1 1 6 5 3 1 1 5 3	10.6 4.3 5.1 4.0 6.0 9.0 10.0	1,233,125 88,292 10,938 53,489 14,546 43,672 243,750 206,250 112,500 15,625 6,250 15,625 68,750 141 18,750 39,071 195,000 112,500
2	2.6 1.3 10.9 1.0	158,277 4,063 108, <b>9</b> 30 3,125
76	8.9	2,877,669
9	6.7 7.3	21,028 360,354
86	10.9	3,259,051
7	11.3	297,824

959 Res	ults to	Current Prices
Per of Out		Annual Total
89 1	3.1 1.4 0.1	3,063,999 38,415 -
90	4.4	3,102,052
39 2 1 1 6 5 3 1 6 1 1 5 2	2.0750423965650812967 -010623967	1,344,451 99,382 10,165 57,168 15,390 49,158 221,338 188,511 127,670 50,038 236,338 4,241 14,318 65,196 141 17,855 42,551 190,356 101,899
3	1.3 2.1 1.0	3,719 108,930 2,861
85	11.9	2,951,676
2	2.8	76,620
88	2.7	3,028,296
2	1.7	73,756

Per of Out		Annual Total
89 1	d. 3.1 1.4 0.1	3,063,999 38,415 - 362
90	4.4	3,102,052
38 2 1 165316 1 152	6. 7 5. 0 6. 7 7. 5. 0 7. 0	1,323,906 99,382 10,165 57,168 15,390 47,182 221,338 188,511 127,670 50,038 236,338 4,241 14,318 65,196 141 17,855 42,551 190,356 101,899
3	1.3 2.1 1.0	3,719 108,930 2,861
85	4.0	2,929,155
2	<b>-</b> 2 <b>.</b> 8	76,620
87	6.8	3,005,775
2	9.6	96,277

# CHATTERLEY WHITFIELD COLLIERY 750,000 TONS FER ANNUM SCHEME

#### PROJECTED ANNUAL SEAM OUTPUTS 1960 - 1970

	i						Marie Contract Contract		
	M	oss	Yard	Bell- ringer	Ten Feet	Bullhurst	Silver	Brights	Total
1960	240,000 240,000		110,400	52,800	72,000	159,600	-	115,200	750,000
1961			110,400	52,800	72,000	159,600	-	115,200	750,000
1962	240	,000	110,400	52,800	72,000	159,600		115,200	750,000
1963	295	,200	64,800	105,600	72,000	159,600	52,800	(=)	750,000
1964	373	,200	64,800	105,600	72,000	81,600	52,800	- "	750,000
1965	373,000		64,800	105,600	72,000	81,600	52,800	0 <del>**</del> 0	750,000
1966	373,	,000	64,800	105,600	72,000	81,600	52,800	-	750,000
1967	373,000		64,800	105,600	72,000	81,600	52,800	-	750,000
1968	373,	,000	64,800	105,600	72,000	81,600	52,800	-	750,000
1969	373,	,000	64,800	105,600	72,000	81,600	52,800	■ ■	750,000
1970	373	,000	64,800	105,600	72,000	81,600	52,800	-	750,000
SEAM DATA							•		
Thickness		54"	30"	39" 5	60"	46"	27"	33"	Average
Ash	Ash		3.5	4.0	4.5	6.5	5.0	6.5	- do -
Sulphur		0.8	1.0	0.7	1.7	3.1	1.0	4.5	- do -
V.M.(d.m.m.f		37-1	37.9	36.3	36.0	35.6	36.6	37.5	- do -
Coal Survey Rank		7/600	8/700	8/700	600	5/4/300	600	6/500	

#### ESTIMATED WORKABLE RESERVES AS AT 1ST JANUARY 1958 AVAILABLE TO THE SCHEME (9260' to 8300' ABOVE A.D.)

Name of The Seam ne	ck Reserves	(A	Ash ir Dried)	Sulphur (Air Dried)	Volatile Matter (d.m.m.f.)	Coal Survey Code No.	
Moss Yard Ragman Hams Hams Bellringer Ten Feet Ten Feet Bowling Alley Bowling Alley Hardmine Flatts Bullhurst Bullhurst Winpenny Winpenny Winpenny Brickiln Brickiln Diamond Diamond Silver Silver	3,205 2,754 2,093 2,476 48 3,782 3,032 0 2,207 6 2,207 6 1		%0055550055555555000088005 %005555555555	% 8 0.8 1.0 0.9 0.7 1.7 1.2 1.2 1.0 3.1 2.1 3.0 1.0 1.0 4.5	% 37.1 36.2 37.4-36.9 37.7-37.2 37.0-36.7 36.3 36.3 36.6 37.3 37.1 37.6 37.4-37.1 36.2-35.9 35.8 37.1-36.9 36.7 36.8 37.1-36.9 36.7 36.8	700 700 700 700 700 600 700 600 700 600 700 600 700 600 700 600 700 600	
Total Code No.800 700 600 TOTAL WORKABLE RES			<u>.</u>	800 700 600			

ESTIMATED LIFE AFTER DEVELOPMENT AT 750,000 TONS PER ANNUM
= 30 YEARS APPROX.