MINERAL

SECTION OF Strata at Clapgate No. 1 Shaft. COUNTY

SK46NE/6A

112/A

30

Communicated by E. Wharton Esq. Date of sinking 1882

One-inch Map (N.S.) 112 Six-inch Map 31 NW.

HEIGHT ABOVE O.D. DIP OF STRATA

	Thickness. Yards.	feet,	ins.	Depth from surface. Yards.	feet.	ins.
Pit Banks raised — MADE GROUND	2	0	3		11	3
Clay — DRIFT	1	2	0	3	2	3
Blue Bind — UPPER CARBONIFEROUS, WESTPHALIAN B		1	6	4	12 0	9 9
Coal			10	4 13	1 16	7 4
Clunch	1	0	2	5	1	9
Blue Bind	6	2	0	12	36 0	9 9
Coal smut			6	12	37	3
Clunch. Rocks Stone bind	1	0	1	13	1 46	2 4
Rocks (in layers)	1	2	8	15	1	0
Blackshale			2			
Coal (with water)			6	46 15	1 51	8 1
Clunch	1	1	5	17	0 55	1 2
Stone bind	1	1	1	18	1	2
Ironstone & Blue bind	1	0	2	19	1 61	4 2
Ironstone Blue bind ironstone Blackshale		2	10	20	1 63	2 2
Dark bind		2	5	21	0 89	7 6
Blue bind (with ironstone tenders)	8	1	11	29	2 90	6 2
Coal & Bat			8	30	0 95	2 6
Clunch	1	2	4	31	2	6
Stone bind (without joints) Strong	2	0	7	34 10 2	0 102	1 4
Rocks			3	34	0 119	4 7
Stone bind with ironstone balls	5	2	3	39	2 120	7 8
Rocks		1	1	40	0 124	8 8
Stone bind with ironstone balls	1	1	0	41	1 130	8 0
Rocks intermixed with stone bind	1	2	4	43	1 135	0 3
Clunch, Stone bind, rocks, Stone bind, rocks	1	2	5	45	0 137	5 1
Stone bind		1	10	45	2 139	1 3
Strong blue bind		2	2	46	1 154	3 5
Strong blue bind	5	0	2	51	1 156	5 2
Blackshale		1	9	52	0	2

B & L (x)—14686—2000-12-5

SECTION OF _____ at _____

SK46NE 6A

COUNTY _____

Communicated by _____ Date of sinking _____

One-inch Map (N.S.) _____ Six-inch Map _____

HEIGHT ABOVE O.D. _____ DIP OF STRATA _____

30 A

	Thickness.			Depth from Surface.		
	Yards.	feet.	ins.	Yards.	feet.	ins.
WESTPHALIAN B						
Coal			9		159	0
Almost. Bat		2	1	53	0	0
Stone Almost	1	1	1	54	163	1
Rock			4	54	1	5
Stone bind		2	2	55	165	7
Rock	1	2	3	56	170	10
Stone bind	1	0	0	57	172	10
Rock			7	58	174	5
Blue bind	3	1	11	61	0	4
Blackshale, Rock.			10	62	185	2
			6 5	62	0	7
Almost	1	2	11	64	192	6
Blue bind	6		11	70	0	6
Blackshale	1	1	2	71	211	5
Blaste bind	2	"	1	73	215	7
Strong Blackshale w Branch Coal (CROWN)		1	"	74	2	7
			4	75	221	8
Blaste Bat	"	2	10	76	2	8
Strong Grey Almost					226	0
Strong bind with Balls falls	2	0	4	78	1	0
Rock in Layers	"	2	1	79	228	10
Stone Bind	"	2	6	79	"	10
Strong Blue Bind	"	2	9	80	235	2
Tender Blue Bind	"	2	6	81	2	2
Blaste bind (almost Blackshale)	2	2	2	84	237	4
dark bind		2	2	85	1	6
Soft dirt 4" very inferior coal 4"			8	85	239	2
Almost	2	1	21	87	256	0
Blaste bind 7" Almost 11" & Coal		1	9	88	263	2
Almost		2	10	89	265	0
					267	0

W B & L (x)—14836—2000-12-3

SECTION OF _____ at _____ 67

SK46NE/6A 112 3 30 A

Communicated by _____ Date of sinking _____

One-inch Map (N.S.) _____ Six-inch Map _____

HEIGHT ABOVE O.D. _____ DIP OF STRATA _____

WESTPHALIAN B

	Thickness.			Depth from Surface.		
	Yards.	feet.	ins.	Yards.	feet.	ins.
Coal + bat 2" + Smut 1' 1"		1	3	89	2	1
Coal smut 1" Light Smut 1' 4"		1	5	90	2	6
Stone bind	1	1	8	91	2	2
Bright Coal 1' Light Smut 10" Bat + Coal 8"		1	7	92		9
Stone Bind + Rock with Rank balls	2	2	2	94	2	11
Coal 43in MAIN BRIGHT	1		7	96		6
Smut (soft)		1		96	1	6
Strong Smut	2	2	6	99	1	0
Blue bind Smut, Stone bind, Coal 2'		2	2	100	0	2
Strong stone bind		1	10	100	2	0
White rock - Strong stone bind		1	10	101		10
White rock + stone bind	3	2	7	105	1	5
White rock. Rank (very hard)		1	5	105	1	10
Grey rock without beds		2	1	106		11
Grey rock + Stone bind mixed	1	0	9	107	1	8
Strong stone bind	1	2	7	109	1	3
Strong Black bind	7	2	10	117	1	1
Coal 19 in TWO FOOT		1	7	117	2	8
White Smut + bat	1	2	0	118	1	8
Stone bind + rock alternately	3	1	10	122	0	6
Stone bind	1	0	5	123	0	11
Strong blue bind	2	0	1	125	1	0
Soft " " + Black bind			9	125	1	9
Coal + bat (very inferior)		1	9	126	0	6
Smut	2	1	11	128	2	5
Grey rock	2	2	8	131	2	1
Strong Smut	1	0	1	132	2	2
Strong Stone bind	1	2	10	134	2	0
" Blue "		2	0	135	1	0
Coal			5	135	1	5

W B & L (x)—14836—2000-12-3

6

SECTION OF _____ at _____ 68

SK46NE/6A 2

County _____

Communicated by _____ Date of sinking _____

One-inch Map (N.S.) _____ Six-inch Map _____

30 A

Height above O.D. _____ Dip of Strata _____

WESTPHALIAN B

	Thickness.			Depth from Surface.		
	Yards.	feet.	ins.	Yards.	feet.	ins.
Arnsh	1	1	2	136	2	7
Stone bind (with coals balls)	1	1	10	138	1	5
Blue bind with balls of ironstone	1	"	11	419 139	2	4
Stone bind	2	"	9	142	0	1
Strong stone bind	5	1	1	147	1	2
White Rock with Coals balls	2	2	1	150	0	3
Strong stone binds		2	1	150	2	4
White rocks & stone bind		2	6	151	1	10
Coal		1	7	456 152	0	5
Soft dirt 1" Stone Arnsh 1.1.8	1	1	9	153	2	2
Strong bind (with bands of rock)	1	1	9	155	"	11
Strong blue bind with Ironstone balls barks blue bind		1	5		2	4
with Cockle shells		1	0	156	0	4
barks Grey Rock { With thin beds of bind " thin streaks of Coal		2	3	156	2	7
Blacksbat 2" + 5" of Coal			7	157	0	2
Strong light coloured Arnsh	1	0	11	158	1	1
Strong blue bind	1	1	5	159	2	6
Grey Rock			9	160	0	3
Coal			1	480 160	0	4
barks Arnsh		1	11	160	2	3
Stone bind (very hard)	1	2	2	162	1	5
Blue Bind (very strong)	1	2	5	164	0	10
Blue bind (softer)	2	0	3	166	1	1
Blacks bind 3" Blue bind 1'1"		1	4	166	2	5
bark blue bind 1'2" Strong stone bind		2	5	502 167	1	10
White rocks strong no partings	7	2	1	525 175	0	11
Strong stone bind	2	0	4	532 177	1	3
Strong blue bind	1	0	1	178	1	4
Ironstone 3" Strong blue bind 1'11" Ironstone 4"		2	6	179	0	10
Strong blue bind 2'1" Ironstone 2" Strong blue bind	1	0	5	180	1	3

W B & L (x)—14836—2000-12-3

7.

SECTION OF _____ at _____ 69

SK46NE/6A 112

Communicated by _____ Date of sinking _____

One-inch Map (N.S.) _____ Six-inch Map _____ 30

HEIGHT ABOVE O.D. _____ DIP OF STRATA _____

	Thickness.			Depth from Surface.		
	Yards.	feet.	ins.	Yards.	feet.	ins.
WESTPHALIAN B						
Dark Blue Bind	1	0	7	181	1	10
Black Bind	1	0	0	182	1	10
Dark Grey Bind		2	8	183	1	6
Black streaky rock			6	183	2	0
Position of High Hazles? Coal. Bat. + Clunch	2	1	5	558 186	0	5
Light Clunch			11	186	1	4
Stone Clunch		1	10	187	0	2
White rock no partings		1	11	187	2	1
Grey rock in layers		2	2	188	1	3
Strong stone bind	1	0	11	189	2	2
Dark bind 2' Coal 1" Clunch 3"			6	189	2	8
Strong stone bind	1	1	9	191	1	5
Very strong blue bind + Ironstone alternately		1	9			
		1	2			
		1	6			
		1	2	195	1	4
	1	0	11			
			4			
			6			
			2			
			6			
Black bind						
Stone Clunch		2	9	196	1	1
Grey Carb		1	8	196	2	9
Stone bind 11" Grey rock (in layers) 4		1	6	197	1	3
		1	8	197	2	11
Stone bind (very hard)		2	10	198	1	6
Grey rock (in layers)		2	5	199	0	11
Stone bind	2	0	11	201	1	10
Blue bind	2	0	11	203	2	9
Ironstone measure 2' Blue bind 1'11" Dark Coal 4"		2	5	204	2	2
Coal 1st ST JOHNS		1	5	615 205	0	7
Dark Clunch 1'6" Light Clunch 10"		2	4	205	2	11
Stone bind	1	1	6	207	1	5
Grey rock 1'3" Stone bind 1'1"		2	4	208	0	9

W B & L (x)—14836—2000-12-3

SECTION OF _____ at _____ 70

COUNTY _____

SK46NE/6 112 30 A

Communicated by _____ Date of sinking _____

One-inch Map (N.S.) _____ Six-inch Map _____

HEIGHT ABOVE O.D. _____ DIP OF STRATA _____

WESTPHALIAN B

	Thickness. Yards.	feet.	ins.	Depth from Surface. Yards.	feet.	ins.
Strong blue bind	1	1	4	209	2	1
Dark bind		2	0	210	1	1
Coal 5" Blaes bat 1" dark almost 2" Coal			8	631 210	1	9
White rock no parting	1	0	4	211	2	1
Grey rock in layers	1	0	8	212	2	9
Stone bind very strong	2	0	5	645 215	0	2
Blue bind 1'11" Ironstone measure 2"		2	1	216	2	3
" 1'5" 2"		1	7	216	0	10
Blue bind		2	1	216	2	11
Coal 11" Blaes bat 1" 2ND ST JOHNS Coal		1	0	651 217	0	11
Stone almost (very strong)	1	1	11	218	2	10
Dark blue bind			8	219	0	6
Stone bind	1	0	4	220	0	10
White rock with Cank balls	2	2	1	222	2	11
Stone bind 2'2" Blaes bat 1" dark almost 3"		2	6	671 223	2	5
White rock 1'4" Brown cank 1'6"		2	10	224	2	3
White rock (in layers)		1	6	225	2	11
Stone bind & White rock		1	7	225	2	6
Stone bind (very strong)		2	2	679 226	1	8
Blue Bind	1	0	5	227	2	1
Ironstone 2" Blue Bind 9" Ironstone		1	1	228	0	2
Dark bind 11" Ironstone 2"	1	0	1	229	0	5
Dark bind	1	1	1	230	1	4
Ironstone 2" Blue Bind 5" ~~Ironstone~~ Bat 6"		1	1	230	2	5
Strong almost	1	0	5	231	2 1	10
White rock & Grey Cank	2	0	11	234	0	9
Cockle shell bed 2" strong blue bind		1	1	234	1	10
Stone bind	1	2	5	236	1	3
White rock		1	1	236	2	4
Strong stone bind	1	0	1	237	2	5
Blue Stone bind	10	0	0	247	2	5

WB & L (x)—14836—2000-12-8

9.

SECTION OF _____ at _____ 71

County _____

SK46NE/6A 12

Communicated by _____ Date of sinking _____

One-inch Map (N.S.) _____ Six-inch Map _____ 30 A

HEIGHT ABOVE O.D. _____ DIP OF STRATA _____

	Thickness.			Depth from Surface.		
	Yards.	feet.	ins.	Yards.	feet.	ins.
WESTPHALIAN B						
Blue Bind.	2	2	1	250	2	3
Blackshale / Ironstone 2"		1	7	251	0	10
Blackband with thin streaks of coal		2	3	252	0	1
Brown ironstone measure 6" Very Ammon 2'6"	3	0	0	253	0	1
Strong blue bind 5'6" Ironstone measure 2'	1	2	10	254	2	11
Blue bind 1'2" Ironstone measure 2"		1	4	254	1	3
Blue bind	1	1	5	256	2	8
Blackshale 5" Ironstone measure 3"			8	257	0	4
Stone bind	1	1	3	258	1	7
Blue Bind	2	2	2	261	0	9
Blackshale 4" Ironstone measure 3" Blue bind 1'1" Ironstone measure 3" Blueband 1'4" Ironstone measure 2	1	0	4	262	1	1
Blue Bind	1	1	5	263	2	6
Blackshale 4" Shell bed 1" Darkband 4" Blackshale 3" Bind 5" Ironstone or anvil 1'0"		2	5	264	1	11
Stone bind with anvil balls	2	2	6	267	1	5
Blue Bind	1	2	1	269	0	6
Ironstone measure 3" Black bind 6" Coal 2" Blackshale 4"		1	3	269	1	9
Very Ammon with anvil balls	2	0	1	271	1	10
Stone bind	4	2	6	276	1	2
White rocks in layers		1	9	276	2	11
" in one bed	1	0	7	278	0	6
Very anvil	3	2	8	282	0	2
Rock in Thin layers	4	0	10	286	1	0
Top Hard Coal TOP MARED	2	1	1	290	2	4

829 2

8722

July 1981

NCB log continues to 903ft 1 in

~~NCB say this is No.1 Hard~~

W.B. & L. (x)—14836—2000-12-8

NATIONAL COAL BOARD — EAST MIDLANDS DIVISION — NO. 1 AREA — SCHEDULE: 1

O.D TOP OF SHAFT, 360.1' — SITE COORDS. 1892

COLLIERY: Glapwell.

No.	PUMP	CAPACITY	Quantity Pumped	Workings Drained	Horizon Drained	Shaft from which pumped	USE OF WATER: DOMESTIC	USE OF WATER: COAL WASHING	USE OF WATER: BOILER FEED	USE OF WATER: SURPLUS	Method of Disposal of Unused water
No. 1	Mather J. Platt	500 G.P.M.	205,807 G.P. Day.	Top Hard Seam	- 286 yds.	No. 1	-	205,807 g.p.day	-	-	-
No. 2	Mather J. Platt	500 G.P.M.	Standbye Pump.								
No. 3	B.T.H.	120 G.P.M.	43,200 G.P. Day.	Low Main Seam.	- 604 yds.	No. 3	-	-	-	-	All to Fiery Tip and River Doe Lea.

112/30

SK46/17A

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NATIONAL COAL BOARD — EAST MIDLANDS DIVISION — No. 1 AREA — SCHEDULE: 2

Glapwell. COLLIERY.

R.692(a)

WATER ENCOUNTERED DURING

SHAFT	SHAFT SINKINGS HORIZON	SHAFT SINKINGS QUANTITY	DRIVING OF WORKINGS HORIZON	DRIVING OF WORKINGS QUANTITY
No. 1 Shaft. Details of Shaft Water Feeders.	- 42 yds.	5 G.P.M.	Waterloo Rise Working	20 G.P.M.
	- 48 yds.	9.25 G.P.M.	Approaching outcrop	
	- 62 yds.	9.5 G.P.M.	Barrier encountered .	
	- 78 yds.	12 G.P.M.	Water from Seam and roof.	
	- 85 yds.	Small Feeder.		
No. 2 Shaft. Details of Shaft Water Feeders	- 10 yds.	6 G.P.M.		
	- 17 yds.	4 G.P.M.		
	- 36 yds.	10 G.P.M.		
	- 44 yds.	10 G.P.M.		
	- 47 yds.	13 G.P.M.		
	- 67 yds.	30 G.P.M.		
	- 499 yds.	Small feeder.		

112/30

SK46/17A

34.

SCHEDULE: 3

NATIONAL COAL BOARD — EAST MIDLANDS DIVISION — NO. 1 AREA

Glapwell COLLIERY.

R.892(b)

ADDRESS OF PREMISES	NAME OF WELL OR OTHER WORK	QUANTITY	SOURCE	USE OF WATER			
				DOMESTIC	COAL WASHING	BOILER FEED	SURPLUS
Glapwell, Nr. Chesterfield, Derbyshire.	Stockley Pumping Station	56,000 G. P. Day To Reservoir	Watershed Glapwell Hill	-	-	56,000 g. p. day	
	Colliery Reservoir	258,000 G.P. Day	Watershed - do -	56,000 g. p. day	NIL	202,000 g. p. day	Nil
		Total 314,000					

112/30

SK 46/17A

30

112/30 SK46/17A

112/30

35

SCHEDULE 6

R.892 (c)

NATIONAL COAL BOARD — EAST MIDLANDS DIVISION — NO. 1 AREA

Glapwell. COLLIERY.

COMMENTS ON WATER PROBLEMS IN WORKINGS.

A deep and normally very dry mine, Glapwell has only experienced trouble with water as shallower Seams Top Hard and 1st Waterloo approached the Outcrop near the water bearing rock and alluvium of the River Doe Lea. This has been further affected by waterlogged ancient workings of the 6 ft. thick Top Hard Seam near the Outcrop. The working of Lower Seams could be affected if the flood water at Langwith was allowed to rise indefinitely.

36.

112/30

NATIONAL COAL BOARD EAST MIDLAND DIVISION NO. 1 AREA SCIENTIFIC

112/30 SK46/17-A

MINERAL ANALYSIS OF WATER SAMPLE

(Required for General Assessment)

Name of Colliery: Glapwell Source: - No. 1 Top Hard and Waterloo

Date of Sampling: 10/12/51 Date submitted for Analysis: 10/12/51 Sample No.: 31

Possible Sources of Pollution:

Intended Use:

CONDITIONS AT TIME OF ANALYSIS

Appearance:	Very slightly turbid	Suspended Matter:	5 p.p.m.
Appearance after Filtration:	Clear	Iron in Suspended Matter (as Fe)	p.p.m.
Colour:	Hazen Units	Oil:	p.p.m.
pH Value:	8.1	Langelier Saturation Index:	Balanced

ANALYSIS OF FILTERED WATER — Parts per million

		PROBABLE COMBINATIONS	
Manganese	Nil		
Calcium (as Ca)	129	Silica:	10
Magnesium (as Mg):	96	Iron Oxide (as Fe_2O_3):	
Iron (as Fe):	Nil	Calcium Carbonate:	323
Sodium (as Na):	1,547	Calcium Sulphate:	
Silica (as SiO_2):	10.0	Calcium Chloride:	
Chlorides (as Cl):	2,195	Magnesium Carbonate:	140
Sulphates (as SO_4):	475	Magnesium Sulphate:	277
Nitrates (as N):		Magnesium Chloride:	
Free Carbon Dioxide (as CO_2):		Magnesium Nitrate:	
Total Alkalinity (as $CaCO_3$):	490	Sodium Carbonate:	
Total Acidity (as $CaCO_3$):	Nil	Sodium Sulphate:	376
Total Dissolved Solids (dried at 180°C):	4,798	Sodium Chloride:	3,620
Total Dissolved Solids after Ignition:		Sodium Nitrate:	

Total Hardness (as $CaCO_3$):	716	p.p.m.
Temporary Hardness (as $CaCO_3$)	490	p.p.m.
Permanent Hardness (as $CaCO_3$):	226	p.p.m.
Hardness due to Calcium (as $CaCO_3$):	322	p.p.m.
Hardness due to Magnesium (as CaCO):	394	p.p.m.

R.865

112 SK 46/17A

SK 46NE
4656 6654

30 A.

Glapwell Colliery

A. Quantity pumped per 24 hours.
Top Hard 199,000 galls.
1st Waterloo 6,000 "
Low Main 36,000 "
Analysis given on accompanying sheet.

Information from The Sheepbridge Coal and Iron Co. Ltd., Chesterfield..... October 1945.

Shaft to be abandoned & filled in. 27.7.64.

112/30 A

SK46/17 A

Dec 21/2 I

No I Pit. Glapwell Colliery.

Parts per 100,000

Calcium Carb nate	38.57	15.5	21.07
Manesium Carbonate	2.88	0.23	3.05
Magnesium Sulphate	45.99	9.5	34.69
Sodium Sulphate	21.76	7.0	14.76
Sodium Chloride	323.00	128.0	195.0
Calcium Sulphate	-----		
Calcium Chloride	-----		
Magnesium Chloride	-----		

Hardness Degrees Clarke..... 41.58
Total Alkilinity..... 42 .00

This water is hard; the high figures for total solids in solution renders it unsuitable for boilerw purposes even after treatment.

Information from The Sheepbridge Iron and Coal Co., Ltd., Chesterfield ..... October 1945.

Visited and sited on Derby 31 NW/E.

Pumping 24 hours daily. C. 210,000 gp day.

Some uses in colliery, for washing coal, not boilers.

NCB No I Area HQ.
Bolsover, Nr Chesterfield.

OD. c 380.

7.9.49 AM