

British Geological Survey

GEOLOGICAL SURVEY OF GREAT BRITAIN

RECORD OF SHAFT OR BORE FOR MINERALS

(For Survey use only)
British Geological Survey
6-inch Map Registered No.

SK/21NE/75

Name of Shaft or Bore given by Geological Survey:
Church Gresley (Mansfield) NO. 1. (1965)

Name and Number given by owner:
No. 1.

Nat. Grid Reference

SK/29951774

For whom made H. R. Mansfield & Co. Ltd.

Town or Village Church Gresley County Derbyshire

Exact site

Attach a tracing from a map, or a sketch-map, if possible.

Table with 3 columns: 1" N.S. Map No., 1" O.S. Map No., Confidential or not. Values: 14.1/283

Purpose for which made To prove the sequence above the Ell

Ground Level at shaft relative to O.D. C. + 360 (109.75m) If not ground level give O.D. of beginning of shaft bore

Made by Durnford, Lee & Wardell.

Date of sinking March, 1965

Information from Cores

Date received

Examined by B. C. Worssam & B.A. Hains.

SPECIMEN NUMBERS AND ADDITIONAL NOTES

Core diameter 2 7/8"
Specs Bw 8081-8111

Table with columns: (For Survey use only) GEOLOGICAL CLASSIFICATION, DESCRIPTION OF STRATA, THICKNESS (Ft, in.), DEPTH (Ft, in.). Rows include: No record, Cores start at, COAL (fragments), Seat earth, black, frequent coal streaks, alickensided (1 ft recovered), COAL (Fragments), Seat earth, dark grey, slightly silty, finely micaceous, Seat earth, grey with brownish tinge, full of rootlets, soft, slightly silty, Core missing, Seat earth, grey, silty, full of roots, fairly hard; occasional slickensides. Ironstone nodule about 17/6, Core missing (probably all seat earth), Seat earth, hard, very silty, micaceous.

20/03/1965 4m 11/61 XL

SKZINE/75

6-inch Map Registered No.

2995.1774

Name of Shaft or Bore given by Geological Survey:  
 Church Gresley (Mansfield) No. 1 (1965)

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GEOLOGICAL CLASSIFICATION	DESCRIPTION OF STRATA	THICKNESS		DEPTH	
		Ft. Thickness	in.	Ft. Thickness	in.
	passing to	1	0	26	6
		0.31		8.08	
British Geological Survey	Sandstone, grey, fine-grained, with silty bands and layers of comminuted plant debris. Dip less than 5°.	0.45		8.53	
	Passing to	1	6	28	0
	Siltstone, grey, sandy at top, with scattered plant fragments, finer downwards. Ironstone for 3 in at 30/3	0.27		9.30	
British Geological Survey	passing down to	2	6	30	6
	Mudstone, grey, becoming dark grey at 31 ft. Well laminated. Mussel at 30/7	0.91		10.21	
		3	0	33	6
British Geological Survey	Ironstone	0.08		10.29	
			3	33	9
	Mudstone, dark grey, with brownish patches (? sideritic)	0.23		10.52	
			9	34	6
	Mudstone, very dark grey, shaly, some small ironstone nodules	0.30		10.82	
British Geological Survey		1	0	35	6
	Shale, black. Ironstone 2 in thick at base includes much pyritic and ? limonite ooliths	0.30		11.12	
		1	0	36	6
		0.05		11.17	
	COAL (inferior, dirty)		2	36	8
British Geological Survey		0.13		11.30	
	Seatearth, black, with coal streaks		5	37	1
		0.03		11.33	
	COAL (dirty)		1	37	2
	Seatearth, slickensided, black, carbonaceous, with plant remains and coaly bands	0.25		11.58	
British Geological Survey			10	38	0
		0.04		11.62	
	COAL (bright)		1½	38	1½
	Seatearth, black, with many slickensided surfaces	0.24		11.86	
British Geological Survey			9½	38	11
	passing down to				
	Seatearth, grey mudstone. Sporadic small ironstone nodules. Slightly silty below 43 ft. Rootlets sparse	3.15		15.01	
		10	4	49	3
	Mudstone, silty, grey, with scattered rootlets and other plant debris. Plants common below 51/6	0.84		15.85	
British Geological Survey		2	9	52	0
	Siltstone, argillaceous, with brownish				

with an open fracture

29432 18185

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**BOREHOLE LOG**

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<b>DRILLING METHOD</b> Flight Auger to 3.00 m 150 mm diameter Rotary Open Hole with Air Flush to 25.50 m 140 mm diameter Vertical	<b>POSITION</b> See Location Plan	<b>SITE</b> Proposed Residential Development, Church Street, Church Gresley, Swadlincote	<b>BOREHOLE NO.</b> <b>1</b>
	<b>GROUND LEVEL</b> Existing	<b>CLIENT</b> SOUTH DERBYSHIRE DISTRICT COUNCIL	

SAMPLE RECORD			WATER DEPTH (m)	THICK-NESS (m)	DESCRIPTION OF STRATUM	TOTAL DEPTH FROM GL (m)	LOG
DEPTH (m)	TYPE	N					
				0.30	FILL - Concrete over sub-base*	0.30	
				0.40	Grey shaley CLAY with some gravel*	0.70	
1.05-1.50	U			3.85	Firm becoming stiff grey silty CLAY with occasional fragments of ironstone		
1.50	D						
2.20	D						
2.35-2.80	U						
2.80	D						
						4.55	
				0.50	Black shaley COAL*	5.05	
				6.05	Grey CLAY/MUDSTONE*		

(continued)

<b>GROUNDWATER AND CASING INFORMATION</b>  1. Slight groundwater seepage at 20.30 m	<b>REMARKS</b>  *Based on drillers description
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<b>NICHOLLS COLTON AND PARTNERS</b>	<b>JOB NO.</b> 4645	<b>SCALE</b> 1 : 50	<b>DATE OF FIELDWORK</b> 16/4/85 - 17/4/85	<b>LOGGED BY:</b> JMB
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# BOREHOLE CONTINUATION SHEET

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SITE						BOREHOLE NO.
Proposed Residential Development, Church Street, Church Gresley, Swadlincote						<b>1</b>
SAMPLE RECORD		WATER DEPTH	THICK-NESS	DESCRIPTION OF STRATUM	TOTAL DEPTH FROM GL	LOG
DEPTH (m)	TYPE	(m)	(m)		(m)	
				(continuation)		
					11.10	
			0.70	Grey MUDSTONE/SILTSTONE*	11.80	
			1.90	Yellow grey and grey SANDSTONE with occasional shaley bands*	13.70	
			0.90	Grey SILTSTONE*	14.60	
			1.20	Yellow grey SANDSTONE*	15.80	
			0.30	Black MUDSTONE*	16.10	
			0.65	Black shaley COAL*	16.75	1P32
			2.55	Grey MUDSTONE*	19.30	
			1.30	Black shaley COAL* (continued)		
<b>NICHOLLS COLTON AND PARTNERS</b>		JOB NO. 4645	SCALE 1 : 50	DATE OF FIELDWORK 16/4/85 - 17/4/85	LOGGED BY: JMB	

# BOREHOLE CONTINUATION SHEET

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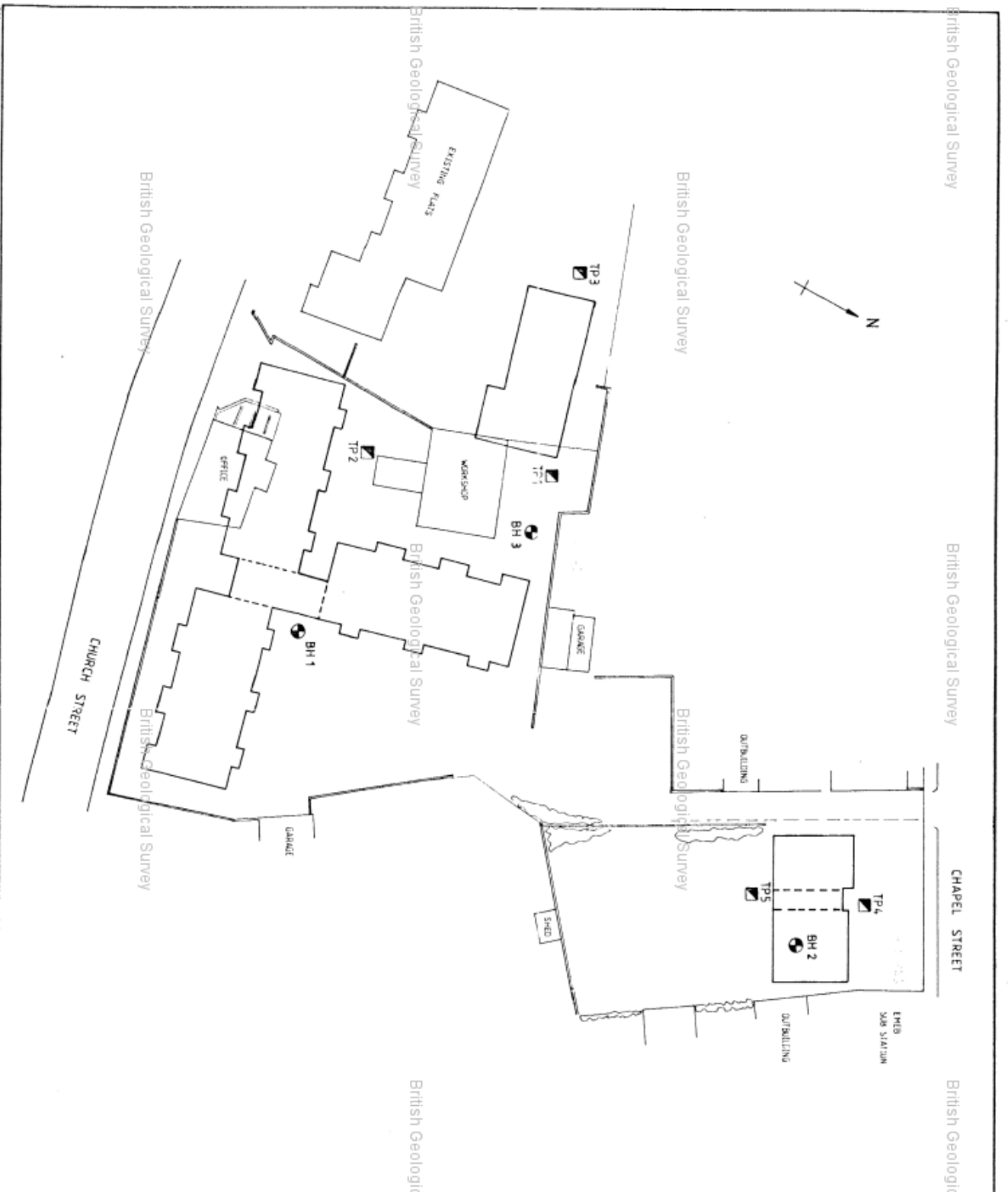
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SITE <b>Proposed Residential Development, Church Street, Church Gresley, Swadlincote</b>						BOREHOLE NO. <b>1</b>	
SAMPLE RECORD <small>DEPTH (m)</small>	TYPE	N	WATER DEPTH <small>(m)</small>	THICKNESS <small>(m)</small>	DESCRIPTION OF STRATUM	TOTAL DEPTH FROM GL <small>(m)</small>	LOG
(continuation)						20.30 (1)	20.60
				0.70	<b>Grey MUDSTONE*</b>	21.30	
				0.60	<b>Black shaley COAL*</b>	21.90	
				3.60	<b>Grey MUDSTONE*</b>	25.50	<b>v</b>

SK 2126/177-184



NOTES		British Geological Survey	
REVISIONS		British Geological Survey	
<p><b>NICHOLLS COLTON &amp; PARTNERS</b>          Consulting Engineers,          7-11 Harding Street,          Leicester LE1 4DH,          Telephone: (0533) 536333</p>			
ARCHITECT			
CLIENT			
South Derbyshire District Council			
PROJECT			
Proposed Residential Development, Church Street, Church Gresley, Sandiacote			
TITLE			
Skerth Plan Showing Approximate Position of Boreholes and Test Pits.			
Drawn: EK	Checked: HRS	Date: JUNE 1985	
		DRAUGHTING NUMBER	
1:200		4645	