

DRILLING RECORD

SCHEME:- Jubilee Colliery	POSITION	CO-ORDINATES: E:	N:	HOLE No. /
LOCATION:- Jubilee		ON LINE:	BEARING:	
POSITION PLOTTED ON DRAWING No.: <i>Geological sketch 13</i>	LEVEL	FROM STN.:	BEARING:	FILE No.
DATES: (a) DRILLED: (b) WATER TABLE:		SURFACE:	FORMATION:	WATER TABLE:
METHOD USED: <i>D.D.</i> DIAMETER:	INCL.	HOLE DRILLED:	DEPRESSION ANG.:	SHEET / OF 4 SHEETS
SITE REMARKS: <i>On small structural bench on the slopes of Mt. Nicholas.</i>		VERT/HOR INC:	INCL. BEARING:	

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS
	0		0.2 0.4 0.6 0.8 1.0				0-9' No Core.
	5						
	10			/ \			9'-16' Light yellowish-green weathered medium-grained sandstone.
	15			/ \			16'-44' Light grey medium-grained lithic sandstone; calcareous in part.
	20			. . .			
	25			. . .			
	30			. . .			
	35			. . .			
	40			. . .			
	45			/ \			44'-50' Light yellowish-green medium-grained weathered sandstone.
	50			/ \			47' Clay pellets.
	55			. . .			50'-55' Light grey medium-grained sandstone.
	60			/ \			55'-62' Light yellowish-green medium-grained weathered sandstone; few coal lenses.
	65			/ \			62'-67' Light-grey fine-grained lithic sandstone.
	70			. . .			67'-69' Light-grey medium-grained sandstone; some broken pieces.
	75			. . .			69'-73' Medium grey siltstone.
	80			. . .			73'-74½' Black carbonaceous shale (clod).
	85			. . .			74½'-77' Light grey fine-grained sandstone; 1/8" - 1/2" carbonaceous layering; dip 5°.
	90			. . .			77'-80' Medium-grey siltstone.
	95			. . .			80'-89½' Medium grey fine-grained lithic sandstone; thin 1/8" carbonaceous layering; dip 5°.
	100			/ \			89½'-93½' Light yellowish-green fine-grained weathered sandstone; coarser at top.
				. . .			93½'-95' Medium grey fine-grained sandstone.
				. . .			95'-115' Light yellowish green fine to medium grained weathered sandstone.

average dip 5°

Numerous bedding plane parting.

DRILLING RECORD

SCHEME:- <i>Jubilee Colliery</i>	POSITION	CO-ORDINATES: E.	N:	HOLE No. 1	
LOCATION:- <i>Jubilee</i>		ON LINE:	BEARING:		AT CH:
POSITION PLOTTED ON DRAWING No.: <i>G.S. 13.</i>	LEVEL.	FROM STN.:	BEARING:		FILE No.
DATES: (a) DRILLED: (b) WATER TABLE:		SURFACE:	FORMATION:		
METHOD USED: <i>D.D.</i> DIAMETER:	INCL.	HOLE DRILLED:	DEPRESSION ANG.:	SHEET 2 OF 4 SHEETS	
SITE REMARKS:		VERT/HORING:	INCL. BEARING:		

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS
100							
	5'						105' - 106 1/2' Fresh sandstone.
	10'						
	15'						115' - 118' Light grey medium-grained sandstone with carbonaceous layers; dip 5°.
	20'						118' - 119' Black carbonaceous shale (clod). 119' - 119 1/2' Laminated medium-grained sandstone and black carbonaceous shale.
	25'						119 1/2' - 121' Medium grey silty mudstone. 121' - 122 1/2' Laminated medium grey siltstone, sandstone and mudstone, with carbonaceous laminae; dip to 10°.
	30'						Numerous bedding plane partings - average dip 5°
	35'						
	40'						
	45'						
	50'						138 1/2' - 141 1/2' Light grey fine-grained lithic sandstone.
	55'						141 1/2' - 142' Dark grey slickensided mudstone.
	60'						142' - 156' Medium grey siltstone with 1/8" carbonaceous laminations; dip 5°.
	65'						
	70'						156' - 158' Light grey fine-grained lithic sandstone.
	75'						158' - 167 1/2' Light greenish grey medium-grained lithic sandstone with few coaly partings.
	80'						167 1/2' - 169' Black carbonaceous shale (clod). 169' - 171' Dark grey carbonaceous siltstone.
	85'						171' - 177' Interbedded light grey fine-grained sandstone and dark grey siltstone with carbonaceous laminations; dip to 10°.
	90'						177' - 182' Medium grey laminated carbonaceous siltstone.
	95'						182' - 196' Interbedded dark grey siltstone, sandstone and black carbonaceous shale.
	200						192' 1" Coal 196' - 197' Black carbonaceous shale (clod). 197' - 203' Interbedded dark grey siltstone and mudstone; dip 5°.

DRILLING RECORD

SCHEME:- <i>Jubilee Colliery</i>	POSITION	CO-ORDINATES:	E:	N:	HOLE No.
LOCATION:- <i>Jubilee</i>		ON LINE:	BEARING:	AT CH:	1
POSITION PLOTTED ON DRAWING No.: <i>G.S. 13.</i>		FROM STN.:	BEARING:	DIST.:	FILE No.
DATES: (a) DRILLED:	LEVEL	SURFACE:	FORMATION:	WATER TABLE:	SHEET 3 OF 4 SHEETS
(b) WATER TABLE:					
METHOD USED: <i>D.D.</i>	INCL.	HOLE DRILLED:	DEPRESSION ANG.:	INCL. BEARING:	
DIAMETER:		VERT/HOR. INC.:			
SITE REMARKS:					

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
	100'						
	5'						203' - 205' Medium grey mudstone.
	10'						205' - 228' Interbedded medium grey siltstone Fine sandstone.
	15'						
	20'						
	25'						
	30'						228' - 231½' Light grey medium-grained lithic sandstone
	35'						231½' - 232' Medium grey siltstone.
	40'						232' - 248' Light grey medium-grained lithic sandstone
	45'						
	50'						240' - 211' i zone of clay pellets.
	55'						248' - 249' Light grey coarse-grained sandstone; broken.
	60'						249' - 252½' Light grey medium-grained lithic sandstone; crumbly.
	65'						252½' - 253' Dark grey clay pellet conglomerate and siltstone.
	70'						253' - 256' Light grey fine-grained sandstone with siltstone bands and carbonaceous lamination
	75'						256' - 268' Light grey medium-grained lithic sandstone
	80'						260' Two ½" bands black siltstone dip 5°
	85'						
	90'						268' - 272' Whitish grey medium-grained lithic sandstone
	95'						272' - 274½' Light grey fine-grained lithic sandstone.
							274½' 2" band dark grey silty mudstone.
							274½' - 276' Light grey medium-grained lithic sandstone
							276' - 283½' Light grey fine-grained lithic sandstone few carbonaceous laminations; dip to 10°
							283½' - 284' Light grey medium-grained lithic sandstone
							284' - 289' Interbedded dark grey siltstone and silty mudstone.
							289' - 294' Light grey medium to fine grained lithic sandstone.
							294' - 294½' 2" contorted black carbonaceous shale and 4" medium grey medium-grained lithic sandstone
							294½' - 297' Whitish-grey fine-grained lithic sandstone few clay pellets.
							297' - 299½' Light grey medium-grained lithic sandstone
	300'						

Numerous bedding plane partings - average dip 5°

DRILLING RECORD

SCHEME:- <i>Jubilee Colliery</i>	POSITION	CO-ORDINATES: E.	N:	HOLE No. <i>1</i> FILE No. <i></i> SHEET <i>4</i> OF <i>4</i> SHEETS	
LOCATION:- <i>Jubilee</i>		ON LINE:	BEARING:		AT CH:
POSITION PLOTTED ON DRAWING No.: <i>G.S. 13</i>	LEVEL:	FROM STN.:	BEARING:		DIST.:
DATES: (a) DRILLED: (b) WATER TABLE:		SURFACE:	FORMATION:		WATER TABLE:
METHOD USED: <i>D.D.</i> DIAMETER:	INCL.	HOLE DRILLED:	DEPRESSION ANG.:	INCL. BEARING:	
SITE REMARKS:		VERT. HOR. INC.:			

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS
	300'						299 1/2' - 300' Medium grey coarse-grained lithic sandstone with coal lenses; crumbly.
	5'						301' - 304' Interbedded dark grey siltstone and fine sandstone. 304' - 304 1/2' Black carbonaceous shale (clod)
	10'						304 1/2' - 306' Dark grey slickensided mudstone. 306' - 311' Light grey fine-grained lithic sandstone.
	15'						311' - 314 1/2' Light grey medium-grained lithic sandstone. 314 1/2' - 317' Light grey fine-grained lithic sandstone.
	20'						317' - 324' Interbedded dark grey siltstone, silty mudstone and light grey fine-grained lithic sandstone.
	25'						324' - 327 1/2' Medium grey siltstone.
	30'						327 1/2' - 330 1/2' Interbedded medium-grey siltstone and silty mudstone.
	35'						330 1/2' - 331 1/2' Black carbonaceous shale (clod). 331 1/2' - 332' Dark grey silty mudstone. 332' - 333' Light grey fine-grained lithic sandstone with numerous carbonaceous laminations.
	40'						333' - 339 1/2' Interbedded dark grey siltstone, mudstone and light grey fine-grained sandstone.
	45'						339 1/2' - 340' Black carbonaceous shale (clod). 340' - 343' Medium-grey siltstone.
	50'						343' - 345 1/2' Medium grey coarse-grained lithic sandstone. 345 1/2' - 349' Interbedded medium grey silty mudstone and siltstone.
	55'						349' - 349 1/2' Black carbonaceous shale (clod) with 1/8" coal lenses. 349 1/2' - 351' Medium grey silty mudstone. 351' - 352' Black carbonaceous shale with 1/16" clay pellets. 352' - 353' Medium greenish-grey silty mudstone. 353' - 362' Light greenish-grey volcanic with small zeolite vugs and veins; fine-grained basalt.
	60'						362' - 364 1/2' Black silty mudstone with inclusions of light greenish-grey volcanic rock.
	65'						364 1/2' - 371' Medium to dark grey siltstone with numerous iron particles.
	70'						371' - 372 1/2' Light greenish-grey fine-grained lithic sandstone.
	75'						372 1/2' - 374 1/2' Light greenish-grey coarse-grained sandstone.
	80'						374 1/2' - 375 1/2' Medium-grey siltstone. Note completed: 375 1/2'. Note: Logged by: <i>S. G. Paterson</i> The sandstones in the above drill core ^{5.10.59} are sub-felspathic, felspathic and volcanic lithic sandstones (arenites); they were formerly called 'felspathic sandstones'.
	85'						Lithic sandstones (arenites) are moderately well sorted sandstones containing abundant unstable constituents in the form of sub-angular to sub-rounded grains. In some rock fragments are the most abundant detrital grains; others contain numerous quartz and feldspar grains.
	90'						
	95'						
	400'						

Numerous bedding plane partings - average dip 5°