

# DRILLING RECORD

SCHEME:-- DERWENT - DEE INVESTIGATION	POSITION	CO-ORDINATES	E	N	HOLE No <b>8995</b>
LOCATION:-- Cluny		ON LINE $\frac{H7}{H6}$	BEARING- 0°00'	AT CH.	
POSITION PLOTTED ON DRAWING No: A6959 A6469	LEVEL	FROM STN. H7	BEARING 289°45'	DIST. 153	
DATES: (a) DRILLED: Aug '60 (b) WATER TABLE:		SURFACE	FORMATION:	WATER TABLE:	
METHOD USED: D.D. DIAMETER: N°4- BM	INCL	416			SHEET 1 OF 3 SHEETS
SITE REMARKS: On spur near centre		HOLE DRILLED	DEPRESSION ANG.	INCL BEARING:	
		VERT. HOR. INCL	90°		

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG.	JOINTS	WATER	REMARKS
			0.2 0.4 0.6 0.8 1.0				SI = Slickenside $\blacktriangle$ clay pellet
	0'			Soil			0'0"-3'0" Stand pipe, sandy soil
	5'						3'0"-14'0" Yellow + cream medium grained quartz sandstone crumbly in part.
	10'						14'0"-14'10" Soft cream siltstone with clay in part
	15'						14'10"-24'0" Sandstone as above 14', but softer + more crumbly. Mica detected 18'-19' + below 20'
	20'						24'0"-25'9" Yellow + grey fine sandstone with mica, crumbly in part
	25'						25'9"-27'0" Brown + grey siltstone with mica
	30'						27'0"-29'4" Brown + grey claystone with siltstone phases, broken in part, ? due to drilling.
	35'						29'4"-29'9" Brown + grey siltstone with mica + clay phases
	40'						29'9"-31'10" Brown fine sandstone with mica, siltstone phases + a claystone phase at 31'0"
	45'						31'10"-35'2" Redish brown, brown and grey medium quartz sandstone with mica
	50'						35'2"-36'4" Brown clay stone with slickensides
	55'						36'4"-46'6" Brown and grey medium quartz sandstone with scattered quartz fragments up to 3/8" and clay pellets up to 1"
	60'						Driller reports loss of mud. There appears to be no doubt that loss occurs through open joints.
	65'						46'6"-103'5" Brown and greyish brown medium grained massive quartz sandstone with cross bedding in part, micaceous in part.
	70'						There are some finer grained phases present ie at 75' + 84'
	75'						Degree of weathering decreases downwards, grey color becomes predominant below about 88'
	80'						Triassic sediments with open joints.
	85'						Lossing mud in this zone
	90'						
	95'						
	100'						

Joints some weathered, some clean, spaced 1/2" - 12" apart.

1/2" displacement on joint

Joints, some open, some weathered, spaced 1/2" - 30" apart

Drilling Mud

Lossing mud in this zone

Triassic sediments with open joints.

# DRILLING RECORD

SCHEME:- DERWENT DEE INVESTIGATION	POSITION	CO-ORDINATES	E	N:	HOLE No.
LOCATION:- Cluny		ON LINE	BEARING:	AT CH:	8995
POSITION PLOTTED ON DRAWING No.	LEVEL	FROM STN.	BEARING:	DIST.	FILE No.
DATES: (a) DRILLED: Aug '60 (b) WATER TABLE.		SURFACE	FORMATION:	WATER TABLE:	
METHOD USED: D.D. DIAMETER: No 4 - 8m	INCL	416			SHEET 2 OF 3 SHEETS
SITE REMARKS: On spur near centre		HOLE DRILLED	DEPRESSION ANG. 90°	INCL BEARING:	

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS
	100						Sl = Slickensides    C=clay Pellet    C=Carbonate    ch=Chlorite
	105						103'5"-123'4" Brownish grey and greenish grey medium grained quartz sandstone with coarse sandstone phases. Conglomerate phases with angular quartz fragments up to 3/8" and clay pellets up to 5/8" as indicated; micaceous in part; stained brown
	110						117'6" - 120'0"
	115						123'4"-124'3" Greenish grey conglomerate with angular quartz fragments up to 3/8" and scattered clay pellets up to 1/2"
	120						124'3"-125'4" Greenish grey medium and coarse quartz sandstone with hard clay pellets up to 1"
	125						125'4"-125'11" Dark grey conglomerate with angular quartz fragments up to 3/8" Cement is sparse.
	130						125'11"-127'9" Greenish grey and brownish grey siltstone with claystone phases grading down into fine sandstone at 127'9". Tiny mica flakes. Broken at 126'2", slickensides on clay parting at 127'7". Angle of bedding 77°
	135						127'9"-131'1" Brownish grey fine sandstone
	140						131'1"-131'8" Grey claystone with siltstone phases. Top 1" shows mudstone is milled up to form a breccia and bottom 1" shows slickensides
	145						131'8"-131'11" Brownish grey fine sandstone
	150						131'11"-132'8" Grey medium quartz sandstone with fine and siltstone phases, micaceous.
	155						132'8"-133'1" Brown and greenish grey claystone with siltstone phases. Broken at top
	160						133'1"-133'6" Greenish brown fine sandstone
	165						133'6"-134'4" Soft grey micaceous claystone with siltstone and fine sandstone phases. Claystone is milled up in part, slickensides present.
	170						134'4"-136'9" Hard grey and brownish grey claystone with siltstone phases. Milled up in part with slickensides; micaceous.
	75						136'9"-138'1" Soft grey claystone milled up to form breccia.
	80						138'1"-140'0" Grey and brownish grey fine sandstone and siltstone with claystone partings Broken at 139'2"
	85						140'0"-145'0" Hard grey claystone with siltstone phases, broken in part and with zone 143'1"-143'10" soft and milled up to form a breccia.
	90						145'0"-145'3" Brown and grey fine sandstone
	95						145'3"-145'11" Hard grey claystone with siltstone phases, siltstone.
							145'11"-146'0" Milled up grey claystone
							146'0"-147'4" Grey fine sandstone
							147'4"-156'1" Grey claystone with siltstone & fine sandstone phases & zones of milled up rock + soft clay, many ones at about 148'6" 149'6" 148'5'6" Some of the claystone is quite hard but contains slickensides
							156'1"-156'5" Grey medium quartz sandstone
							156'5"-157'0" Broken sandstone fragments due to drilling passing down into zone of milled up rock with sandstone fragments in a matrix of clay; breccia.

Joints spaced 1/2" - 30" apart open unweathered  
 Fluid Looping Drilling  
 Numerous irregular joints  
 Water

Chloritised dolomite

Triassic Sediments with open joints

Chloritised dolomite with numerous irregular joints

## DRILLING RECORD

SCHEME:— DERWENT - DEE INVESTIGATION		POSITION	CO-ORDINATES	E	N	HOLE No. <b>8995</b>
LOCATION:— <i>Cluny</i>			ON LINE	BEARING	AT CH	
POSITION PLOTTED ON DRAWING No. <i>A 6959</i> <i>A 6469</i>			FROM STN.	BEARING	DIST.	FILE No.
DATES: (a) DRILLED: <i>Aug. 60</i> (b) WATER TABLE		LEVEL	SURFACE	FORMATION	WATER TABLE	SHEET <b>3</b> OF <b>3</b> SHEETS
METHOD USED: <i>DD</i> DIAMETER: <i>No 4 - 8m</i>			<i>A16</i>			
SITE REMARKS: <i>On spur near centre</i>		INCL	HOLE DRILLED	DEPRESSION ANG.	INCL BEARING	
			VERT/HORIZ	<i>90°</i>		

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS
	0						<i>Continued from sheet 2.</i>
	5						<i>15'0"-15'11" Breccia with green chloritic clay + fragments of chloritized dolerite. No slickensides detected white material filling joints present in part some of it carbonate.</i>
	10						<i>15'11"-17'10" Extensively chloritized dolerite with remnant replacement breccia structure in part, white carbonate joint fillings + scattered slickensides. Rock is less chloritized from 16'0"-16'6" + contains lengths of hard rock upto 5"</i>
	20						<i>Hole Completed at 17'10"</i>
	25						<i>Logged by R.P. Mather Aug 1960.</i>
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