FORM No. H.E. 443

DRILLING RECORD

SCHEME:- PIEMAN

LOCATION:- Delville Saddle

POSITION PLOTTED ON DRAWING No S309863

DATES: (a) DRILLED: Feb.'61 (b) WATER TABLE:

METHOD USED: D.D. DIAMETER: No4-Axt

SITE REMARKS: At Creek Junction

POSITION — CO-ORDINATES: E: N:

ON LINE: W189/W186 BEARING: 0°00' AT CH:

FROM STN. W189 BEARING: 305°10' DIST 118'

LEVEL — SURFACE: FORMATION: WATER TABLE:

200'

INCL — HOLE DRILLED: DEPRESSION ANG.: INCL. BEARING:

VERT/~~HORIZ~~: 90°

HOLE No 6381

FILE No.

SHEET 1 OF 4 SHEETS

WATER PRESSURE TESTS	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG (Core Length)	JOINTS	WATER	REMARKS
	0						0'0" – 6'0" No core
	5					Br	6'0" – 9'0" Quartz sand + clay from adjacent creek.
	10						9'0" – 75'0" Mottled black, red, brown, yellow & cream clay with some scattered pieces of fresh basalt; residual joints, some with slickensides.
	15			V			
	20			V			
	25			V			
	30			V			
	35			V			
	40			V		Br	
	45			V	a few greater		
40 p.s.i. 0 g.p.m.	50			V	Up to 3"		
	55			V			
	60			V			
	65			V			
60 p.s.i. 0 g.p.m.	70			V		Br	
	75			V			75'0" – 115'3" No core; quartz sand + clay in the sludge
	80				Unable to indicate spaced ½" – 3" apart.		
80 p.s.i. 0 g.p.m.	85			No core			
	90						
90 p.s.i. 0 g.p.m.	95						
110 p.s.i.	100						

Talus and creek sand.

Clay derived from basalt weathered in situ.

Sub-basaltic sediments.

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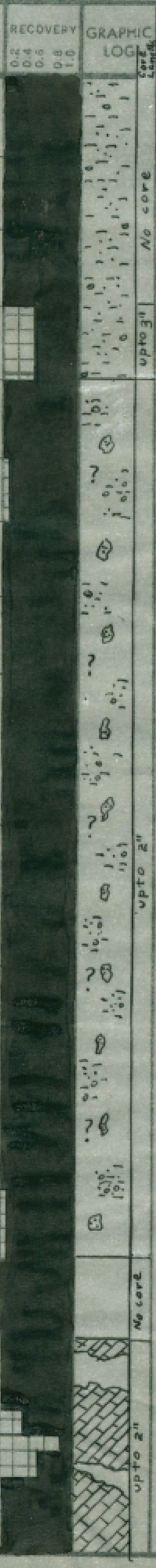
DRILLING RECORD

SCHEME:- *PIEMAN*	POSITION: CO-ORDINATES: E.	N:		HOLE No. *6381*
LOCATION:- *Delville Saddle*	ON LINE *W189 / W186*	BEARING: *0°00'*	AT CH.	
POSITION PLOTTED ON DRAWING No. *S309863*	FROM STN. *W 189*	BEARING *305°10'*	DIST. *118'*	FILE No.
DATES: (a) DRILLED: *Feb.'61* (b) WATER TABLE:	LEVEL: SURFACE:	FORMATION:	WATER TABLE:	
METHOD USED: *D.D.* DIAMETER *No.4-Axt.*	*200'*			SHEET *2* OF *4* SHEETS
SITE REMARKS: *At Creek Junction.*	INCL.: HOLE DRILLED: *VERT.* ~~HORIZ.~~	DEPRESSION ANG.: *90°*	INCL. BEARING:	

WATER PRESSURE TESTS	DEPTH	CORE DRAWN	JOINTS	WATER	REMARKS
90'↑	100				
90 psi.				Br	75'0"–115'3" No core. Quartz sand & clay in the sludge
0 gpm	105				
✕	110				
	115				115'3"–120'5" Light grey clay & quartz sand, grains up to 0.1"
110 p.s.i.					
0 gpm	120				120'5"–180'0" Chert fragments up to 2" with some clay
	125				
✕	130				
	135				
130 psi					
4 gpm water returning up hole past packer	140			Br	
	145				
✕	150				
	155				
150 psi.					
0 gpm	160				
	165				
✕	170			Br	
175 p.s.i.					
0 gpm	175				
↓	180				180'0"–185'0" No core
	185		Thin joints ½"–3" apart		185'6"–190'0" Chert & dolomite fragments up to 2". Rods dropped 186'0"–188'6" cavern, losing water (syphoning)
	190				190'0"–195'0" Mainly dolomite fragments up to 2" Lost water return again at 194'. Leakage greater than pump can deliver i.e. >8.8 gpm
unable to obtain a pressure on the gauge > 8.8 gpm.	195				195'0"–199'9" Dolomite fragments up to 3" with thin joints.
210' ↓	200				



Sub-basaltic sediments. (75'0"–120'5")

Either material derived from weathered dolomite & no longer in situ or sub-basaltic sediments; impermeable. (120'5"–180'0")

Dolomite with caverns leaking but improving with depth. (180'0"–199'9")

FORM No. H.E. 443

DRILLING RECORD

SCHEME:- PIEMAN

LOCATION:- Delville Saddle

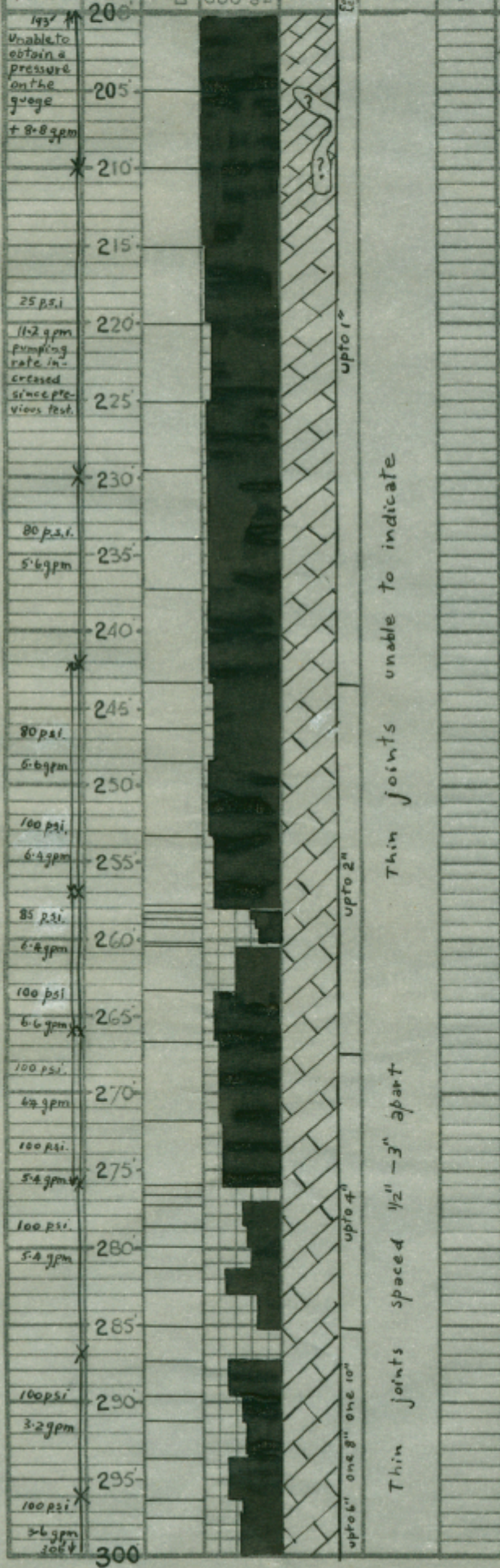
POSITION PLOTTED ON DRAWING No. S309863

DATES: (a) DRILLED Feb. '61 (b) WATER TABLE:

METHOD USED: D.D. DIAMETER: No.1-Axt.

SITE REMARKS: At Creek Junction

POSITION	CO-ORDINATES:	E:	N:	HOLE No. 6381
	ON LINE: W189/W186	BEARING: 0°00'	AT CH:	
	FROM STN.: W189	BEARING: 305°10'	DIST.: 118'	FILE No.
LEVEL	SURFACE:	FORMATION:	WATER TABLE:	
	200'			
INCL	HOLE DRILLED:	DEPRESSION ANG.:	INCL BEARING:	SHEET 3 OF 4 SHEETS
	VERT/~~HORIZ~~	90°		



REMARKS

199'9"-243'0" Dolomite fragments upto 1" with thin joints. Water pressure tests suggest that below about 215' the rock is satisfactory to at least the base of the hole.

243'0"-267'6" Dolomite; joints + core lengths as indicated.

Dolomite, leaking as indicated, improving with depth.

Below 267' Core improving

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DRILLING RECORD

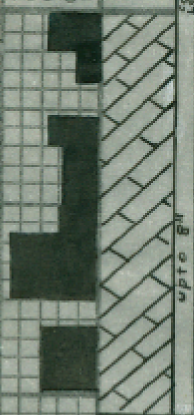
SCHEME:– *PIEMAN*	POSITION	CO-ORDINATES	E:	N:
LOCATION:– *Delville Saddle*		ON LINE: *W189 / W186*	BEARING: *0°00'*	AT CH:
POSITION PLOTTED ON DRAWING No. *S309863*		FROM STN. *W189*	BEARING: *305°10'*	DIST. *118'*
DATES: (a) DRILLED: *Feb '61* (b) WATER TABLE:	LEVEL	SURFACE: *200'*	FORMATION:	WATER TABLE:
METHOD USED: *D.D.* DIAMETER: *No.A-Axt.*				
SITE REMARKS: *At Creek Junction.*	INCL.	HOLE DRILLED: VERT/~~HOR/INC~~	DEPRESSION ANG.: *90°*	INCL. BEARING:

HOLE No. *6381*

FILE No.

SHEET *4* OF *4* SHEETS

WATER PRESSURE TESTS	DEPTH	CORE DRAWN	RECOVERY (0.2 0.4 0.6 0.8 1.0)	GRAPHIC LOG	JOINTS	WATER	REMARKS
296' ↑ 100 p.s.i. 3.6 gpm	300'				Thin joints spaced ½"–3" apart.		Dolomite, with slight leakage as indicated (300'–320')
100 p.s.i. 2.2 gpm	305'			upto 8"			
	310'						
175 p.s.i. 1.8 gpm ↓	315'						
	320'						
	325'						Hole Completed at 320' 11"
	330'						Logged by R. P. Mather Feb. + May 1961.
	335'						
	340'						
	345'						
	350'						
	355'						
	360'						
	365'						
	370'						
	375'						
	380'						
	385'						
	390'						
	395'						
	400'						



Note:– A few joints show brown staining, iron oxides (including limonite), but generally they are free from filling. Unable to recognise bedding with certainty but what appear to be sedimentary features are present in part.