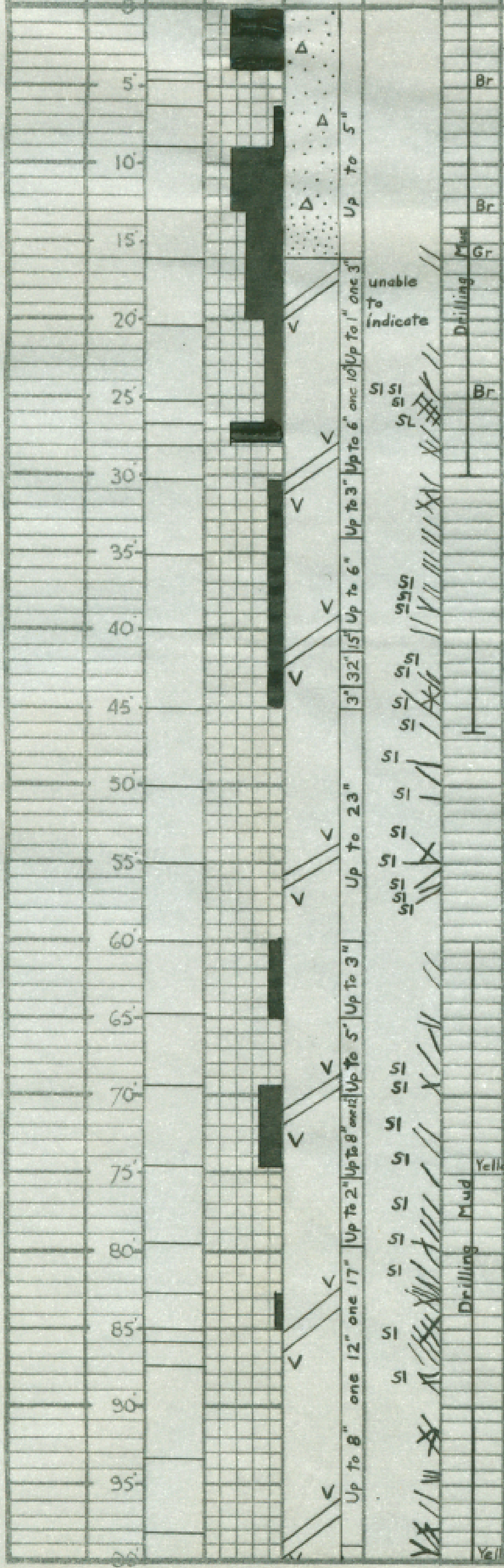
FORM No. H.E. 443

DRILLING RECORD

SCHEME:- *PIEMAN*	POSITION	CO-ORDINATES	E	N	HOLE No. *6383*
LOCATION:- *Delville Saddle*		ON LINE *W253 / W252*	BEARING *0°00'*	AT CH	
POSITION PLOTTED ON DRAWING No. *S309863*		FROM STN. *W 253*	BEARING *139°43*	DIST *47*	FILE No.
DATES: (a) DRILLED *March '61* (b) WATER TABLE	LEVEL	SURFACE	FORMATION	WATER TABLE	
METHOD USED *D.D.* DIAMETER *No.4-Axt*		*237'*			
SITE REMARKS: *Basalt talus slope.*	INCL	HOLE DRILLED	DEPRESSION ANG.	INCL. BEARING	SHEET *1* OF *3* SHEETS
		VERT/~~HORIZ~~	*90°*		

STANDARD LEVEL	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS



Sl - Slickensides

0'0"-16'0" Brown clay with some fine quartz sand; sand from 12'10"-16'0" — **Soil and Talus**

16'0"-122'9" Brown, Yellow and Cream mottled clay with zeolite and clay filled vesicules; residual joints, some with slickensides — **Clay derived from basalt weathered in situ**

Drilling mud lost through joints

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DRILLING RECORD

SCHEME:- PIEMAN

LOCATION:- Delville Saddle

POSITION PLOTTED ON DRAWING No. S309863

DATES: (a) DRILLED March '61 (b) WATER TABLE:

METHOD USED: D.D. DIAMETER No.4-Axt.

SITE REMARKS: Basalt talus slope.

POSITION — CO-ORDINATES: E: N: HOLE No. 6383

ON LINE W253 / W252 BEARING 0°00' AT CH:

FROM STN W 253 BEARING 139°43 DIST. 47 FILE No.

LEVEL — SURFACE: 237' FORMATION: WATER TABLE:

INCL. — HOLE DRILLED: DEPRESSION ANG.: 90° INCL BEARING:

VERT/~~HORIZ~~: SHEET 2 OF 3 SHEETS

WATER PRESSURE TESTS	DEPTH	CORE DRAWN	RECOVERY 0.2 0.4 0.6 0.8 1.0	GRAPHIC LOG	JOINTS	WATER	REMARKS	
	100'						SI - Slickensides	
					Unable To indicate	Yellow	160'0"-122'9" Brown, Yellow and Cream mottled clay with zeolite and clay filled vesicules; residual joints, some with slickensides	
	105'				Up to 3"		Core loss due to drilling 100'10"-104'4"	Clay derived from basalt weathered in situ
	110'				Up to 8"			
						SI		
	115'					SI		
						SI		
	120'				Up to 4"	SI		
						Drilling Mud	122'9"-124'6" Fine quartz sand with rounded grains, trace Brown clay, compacted in part but not cemented	
	125'						124'6"-127'0" Becomes red due to colour of clay trace changing	
							127'0"-128'4" Becomes yellowish brown with some fine red bandings ∠ 90° Coarse zone of rounded grains (3/16" max) from 128'0" to 128'4"	
	130'						128'4"-131'0" Brown fine clayey sand with grey patches and red and grey banding	
	135'					Yellow	131'0"-136'0" No core due to drilling	
							136'0"-140'0" Casing went down under own weight	
	140'		Casing Dropped		Up to 3"			
	145'						140'0"-148'6" No core	
							148'6"- Yellow 156'0" Light grey clay with some quartz and chert fragments up to 1", one chert fragment 3" at 148'6"	Sub-basaltic Sediments
	150'					Drilling Mud		
	155'				one 4"		156'0"-168'8" As above but clay changes to yellowish brown colour	
	160'				Up to 5"			
	165'						168'8"-168'11" Quartz sand and then fragments up to 1". The sand appears to be sediment which has settled in hole over night.	
	170'				Up to 12"		168'11"-177'3" Dark brown clay with quartz and chert fragments as above	
	175'						177'3"-179'0" Dolomite fragments up to 3"	
	180'				Up to 2"		179'0"-180'5" Brown clay and dolomite fragments up to 1". Either cavity filling or sediment in hole during casing operation.	Dolomite with caverns, leaking
Water syphoned down hole				Cavern			180'5"-185'3" 2" of core, dolomite fragments lost drilling mud return. Water syphoned down hole. Cavern from 180'5"-185'3"	
	185'				Up to 1"			
150psi 8gpm	190'				Up to 2"		185'3"-221'9" Dolomite with thin weathered joints spaced ½" to 12" apart.	Dolomite, some leakage
	195'				Up to 3" one 5'		Hole caving at 187' and 191'	
150psi 7gpm 221'	200					Thin weathered ½"-12" apart		

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SCHEME:– PIEMAN	POSITION: CO-ORDINATES: E.	N.		HOLE No. 6383
LOCATION:– Delville Saddle	ON LINE W253/W252	BEARING: 0°00'	AT CH:	
POSITION PLOTTED ON DRAWING No. S309863	FROM STN. W253	BEARING: 139°43'	DIST: 47	FILE No.
DATES: (a) DRILLED: March '61 (b) WATER TABLE:	LEVEL: SURFACE: 237'	FORMATION:	WATER TABLE:	
METHOD USED: D.D. DIAMETER: Nº4-Axt.				
SITE REMARKS: Basalt talus slope.	INCL.: HOLE DRILLED: VERT	DEPRESSION ANG.: 90°	INCL. BEARING:	SHEET 3 OF 3 SHEETS

WATER PRESSURE TESTS	DEPTH	CORE DRAWN	RECOVERY	GRAPHIC LOG	JOINTS	WATER	REMARKS
197' ↑	200'				3"		
	205'				Up to 1"		185'3"–221'9" Dolomite with thin weathered joints spaced ½" to 12" apart
							Hole caving at 207'
150 psi 7 gpm	210'				Thin weathered ½" to 12" apart		} Dolomite, some leakage
	215'				Up to 3"		213'1"–214'7" Drilling rods dropped, cavern, low leakage.
↓	220'				Up to 2" one 6"		
	225'						Hole abandoned at 221'9"
							Logged by R.P. Mather March & May 1961.
	30						
	35						
	40						
	45						
	50						
	55						
	60						
	65						
	70						
	75						
	80						
	85						
	90						
	95						
	00