

# Geologic Log For Site UMAT 5351

NWIS Site ID: 455115118393201

OWRD Log ID: UMAT 5351

Well location: 04N/33E-02CBD

Depth drilled, in feet below land surface: 1296

Land surface altitude, in feet above Nation Geodetic Vertical Datum of 1929: 1810

Logged by: T. L. Tolan

Date drilled: 11/14/1989

Depth	Symbol	Lithologic Description	Elevation	Water Bearing Zones	Geochem Sample	Remarks
0		<b>Loess</b> Ground Surface	0			
100		<b>Umatilla Member - Saddle Mountains Basalt</b> normal flow top	-79			
		dense interior - entablature	-100	150 gpm		
200		dense interior - colonnade	-190		125	
		<b>Mabton Member - Ellenburg Formation</b>	-205			
		<b>Frenchman Springs Member - Wanapum Basalt</b> Basalt of Sentinel Gap flow 1	-220			
		flow top breccia		35 gpm		
300		dense interior - colonnade	-285			
		flow top breccia	-330		325	flow 2
		dense interior - colonnade	-365	70 gpm		
400		normal flow top	-385			flow 3
		dense interior - colonnade	-405			
		internal vesicular zone	-465			
500		dense interior - colonnade	-480		435	

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		interbed - claystone 1 ft.	-535	100 gpm	575	
		<b>Frenchman Springs Member - Wanapum Basalt</b> Basalt of Sand Hollow flow 1	-550			
		normal flow top dense interior - colonnade				
		interbed - claystone 2 ft.	-585		600	
		flow 2	-600			
		dense interior - colonnade dense interior - colonnade				
		normal flow top dense interior - colonnade	-625		650	
		flow 3	-635			
		internal vesicular zone dense interior - colonnade	-655			
		flow top breccia	-665		690	
		flow 4	-690			
		dense interior - colonnade				
		internal vesicular zone	-715		710	
		flow 5	-725			
		dense interior - colonnade				
		normal flow top dense interior - colonnade	-740		765	
		flow 5	-750			
		<b>Vantage Interbed</b> claystone	-816	150 gpm	765	
		<b>Sentinel Bluffs Member - Grande Ronde Basalt</b> flow 1	-845			
		normal flow top dense interior - colonnade				
		fault breccia	-870		975	
		dense interior - colonnade	-880			
		flow top breccia	-920			
		flow 2	-940			
		dense interior - colonnade				
		normal flow top	-990		975	
		flow 3	-1000			

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		dense interior - colonnade				
		normal flow top dense interior - colonnade	flow 4 -1015 -1030		1030	
					1065	
1100		normal flow top dense interior - colonnade	flow 5 -1085 -1090			
		<b>Winter Water Member - Grande Ronde Basalt</b>	-1115			
		normal flow top dense interior - entablature	flow 1 -1130		1130	
					1170	
		dense interior - colonnade	-1180			
1200		flow top breccia	flow 2 -1195			
				50 gpm		
		dense interior - entablature	-1230		1230	
		dense interior - colonnade	-1250			
		flow top breccia	flow 3 -1265			
				75 gpm		
1300		<b>TD 1296 ft.</b>		-1296		
1400						
1500						