

Geologic Log For Site CLAC 18421

NWIS Site ID: 451856122324701

OWRD Log ID: CLAC 18421

Well location: 03S/02E-15ABC

Depth drilled, in feet below land surface: 1416

Land surface altitude, in feet above Nation Geodetic Vertical Datum of 1929: 522

Logged by: T. L. Tolan and M. H. Beeson

Date drilled: 07/07/1992

Depth	Symbol	Lithologic Description	Elevation	Water Bearing Zones	Geochem Sample	Remarks
0		Ground Surface	544			
		Boring Lavas				
		deeply weathered to clay with corestones	522			
		dense interior				
		deeply weathered to clay with a few corestones				
		Troutdale Formation	482			
		tan clay	460			
100		gray clay				
		green clay	362			
200		gravel, some exotic clast lithologies	330			
		sandy gravel	316			
		blue-green clay				
300		gray clay	253			
		green clay	218			
		sandy gravel	203			
		blue-green clay	196			
		gray black gravelly sand	188			
400		gray clay	157			
		sandy gravel	138	NA		
		gray clay				
		clayey sand, with mica	68			
500		gray clay	61			
		gray sand	16			
		gray clay	6			
		gravelly sand with mica and exotic clast lithologies	-23			
		clay and gray sand	-34			
600		gray clay	-49			
		clayey gray sand	-114			
		blue silty clay	-128			
700		gray sand	-142			
		gray clay with brown sand	-151			
		gray clay	-164			
		gray silty clay	-180			
		gray clay	-245			
		gray clay				
800		gray silt	-248			

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Depth	Symbol	Lithologic Description	Elevation	Water Bearing Zones	Geochem Sample	Remarks
		clayey gravel				
		gray clayey sand	-283			
			-296		845	840 ft: Top of CRBG; no flow top, removed by erosion
		Wanapum Basalt - Frenchman Springs Member Basalt of Sentinel Gap				Basalt of Sentinel Gap: aphyric
900		weathered dense interior			900	
			-389			
		Wanapum Basalt - Frenchman Springs Member Basalt of Sand Hollow, flow 1	-398			Basalt of Sand Hollow
		weathered flow top				flow 1: very sparsely plagioclase phyric with large phenocrysts
		dense interior - colonnade	-428			flow 2: very sparsely plagioclase phyric with large phenocrysts
			-436			
1000		weathered flow top, red oxidation			1005	
		dense interior - colonnade	-469			
			-478			
		Wanapum Basalt - Frenchman Springs Member Basalt of Silver Falls				Basalt of Silver Falls: plagioclase phyric with large glomerocrysts; abundantly microphyric
		weathered flow top			1070	
		dense interior - colonnade				
1100				NA		
		interbed - bedded sandstone & claystone	-566			
		Wanapum Basalt - Frenchman Springs Member Basalt of Ginkgo, flow 1				Basalt of Ginkgo
		normal flow top	-601			flow 1: abundantly plagioclase phyric with large glomerocrysts
		dense interior - colonnade				flow 2: abundantly plagioclase phyric with large glomerocrysts
		pillow complex	-646			
1200		interbed - claystone	-661			1205 ft: Interbed approx. 5 ft. thick
					1225	
		normal flow top	-681			
		dense interior - colonnade	-701			
		pillow complex	-719			
		Vantage Interbed interbed - bedded siltstone and claystone	-741			1263 ft: Vantage Interbed estimated to be approx. 2 ft. thick
1300						
		Grande Ronde Basalt - Sentinel Bluffs Member flow 1				Sentinel Bluffs Member flow 1: aphyric
		normal flow top	-844			
		dense interior - colonnade				
1400						flow 2: sparsely plagioclase phyric with small phenocrysts
		normal flow top	-865			
		dense interior - colonnade	-872			
		TD 1416 ft				Note: CRBG sampled from 845 to 1225 ft; no samples below 1225 ft.
1500						
1600						