

# Geologic Log For Site WASC 50312

NWIS Site ID: 453208121054901

OWRD Log ID: WASC 50312

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

Well location: 01N/14E-29CDB

Depth drilled, in feet below land surface: 1142

Land surface altitude, in feet above Nation Geodetic Vertical Datum of 1929: 920

Depth	Symbol	Lithologic Description	Elevation	Water Bearing Zones	Geochem Sample	Remarks
0		Ground Surface	920			
		<b>The Dalles Formation</b> Gray and brown sandstone				
		<b>Weathered basalt</b> (Based on video)	829			
100		100'-135' - microvesicular, glassy, yellow coated fragments	820			
		<b>Rosalia flow - pillow basalt</b> (Video - yellow and black, irregular hole)				
		135'-150' - denser, few vesicles			140	
		<b>Rosalia flow lobe?</b>	765			
		<b>Vesicular flow top</b> Few small vesicles, slightly oxidized and weathered	760			
			734			
200		<b>Sentinel Gap flow</b> (Video - columnar joints, no water)			210	
		Some glassy chips, pillows?	683			
		<b>Vesicular flow top</b> Small vesicles, some oxidation, few sediment chips	677			
		260'-270' - black, microvesicular	662			
		<b>Sand Hollow flow</b> Phyric, microphyric, dark gray to black			270	
		(Video - water entering at 276')	644			
		<b>Vesicular flow top</b> Vesicular, slightly oxidized, some yellow opaline fragments				
300			623			

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		<b>Sand Hollow flow</b> Abundantly phyric, microphyric, coarse grained, fresh black			320	
		finer grained at base (Video - water entering at 330' downward)	590			
		<b>Vesicular flow top</b> Fresh, black, vesicular (Video - yellow material filling vugs and horizontal joints from 239' to 364')				
		350'-380' - diktytaxitic	555			
		<b>Sand Hollow flow</b> Aphyric Sand Hollow flow				
		<b>Vesicular zone</b> (Video - yellow filled cavities; open vesicles deeper)	538		390	
400		No samples available from 400' to 460'	525			
		<b>Sand Hollow flow</b> Aphyric Sand Hollow flow				
		<b>Pillow basalts</b> Mix of vesicular, glassy, dense chips; rounded pebbles of quartzite and granite (from w here?) (Video - spraying w water at 507' and a lot of w water in this interval)	429		505	
500		<b>Sand Hollow flow lobe</b>	403			
		<b>Vesicular flow top</b> Microvesicular, mostly fresh; large phenocrysts (Video - larger vesicles from 550' to 560')	390			
		<b>Ginkgo flow</b> Phyric, scattered vesicles throughout (Video - yellow patches and lots of water near 573')	360			
		(Video - too much falling water to see drill hole from 580' to SWL)	350		575	
600						

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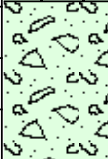

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		<p><b>Ginkgo pillow basalt</b> Fresh black glass w ith large plagioclase phenocrysts; calcite fillings common</p>				
		<p><b>Sediment interbed (?)</b> (Video - enlarged, irregular hole at 674' - 679'; probable caving zone)</p>	264			
700		<p><b>Vesicular zone, weathered</b> (Video - fewer vesicles below 687') (Video - particles floating slowly downward)</p>	217			
		<p>Few weathered, vesicular chips mixed with fresh dense chips, but video shows no changes - from caving zone at flow top?</p> <p><b>Sentinel Bluffs flow</b> Medium grained, w eathered on joints</p>				
800		<p>Some w eathered vesicular chips - from caving zone at flow top? (Video - no evidence of contact or vesicles)</p>	115			
			100			
		<p><b>Flow-top breccia?</b> (Video - irregular hole, light and dark patches, like pillow lava, but no glass found in cuttings - is probably flow -top breccia) (Video - accumulation of chips from about 845' to 892' - may be due to rising water from deeper and flowage into thieving zone)</p>	91		830	
		<p>(Video - water flowing upward at 160') Very few cuttings available from 850' to total depth</p>	60			
900		<p><b>Vesicular zone</b> (Video - alternating vesicular zones of different sizes and abundances; may be several flow units; contact may be obscured)</p>				

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0		<p><b>Sentinel Bluffs flow</b>                      Small equant plagioclase phenocrysts                      (Video - strong water flow carries chips upward)                      (Video - scattered vesicles and vugs to 942')</p>	-5		950	
1000		<p><b>Vesicular flow top</b>                      1080'-1093' - vugy</p>	-146			
1100		<p><b>Sentinel Bluffs flow</b>                      (Descriptions for this flow based on video only - no chip samples available)</p>	-173			
		<p><b>Pillow lava</b>                      Vesicular</p>	-210			
		<p><b>Clay interbed?</b></p>	-218			
			-222			
1200						