

Geologic Log For Site MULT 72561

NWIS Site ID: 452649122092501

OWRD Log ID: MULT 72561

Well location: 01S/05E-26CDD01

Depth drilled, in feet below land surface: 675

Land surface altitude, in feet above Nation Geodetic Vertical Datum of 1929: 710.62

Logged by: M. H. Beeson

Date drilled: 12/18/2003

Depth	Symbol	Lithologic Description	Elevation	Remarks
0		Ground Surface	707	
			702	
		<i>Volcanic debris</i>	697	
		<i>Mix - fluvial clasts and volcanic debris</i>		
			676	
		<i>Sand Hollow flow</i>	669	Chemistry: BR Pw3 30-35
		Gray, coarse grained, dense basalt		
		Vesicular, phyrlic; siltstone and carbonaceous chips; Microvesicular and fewer large vesicles down to 53'	654	
		<i>Ginkgo or Sand Hollow?</i>		
		Sparsely phyrlic, diktytaxitic, dark gray, fine to medium grained	642	
		Black, vesicular, very few phenocrysts	632	Chemistry: BR Pw3 65-70
		<i>Ginkgo flow</i>		
		Phyrlic, medium-fine grained, diktytaxitic, dark gray;		
100		Black, microvesicular, sooty, fine grained	607	Chemistry: BR Pw3 95-100
		Pillow lava? - minor glass, black, mostly dense, phyrlic	602	
			597	
		<i>Vantage Interbed</i>		
		Some sediment, coarse grained (like Sentinel Bluffs) but is above the vesicular zone - Interbed with SB boulders??	582	
		Vesicular flow top - dark gray to black, weathered gray but not oxidized; fewer vesicles downward; sediment chips??		
		<i>Sentinel Bluffs 1 flow</i>		
		Diktytaxitic to microvesicular (coarse texture), medium to fine grained		
		No sediment or weathering, fine grained, slightly diktytaxitic	547	Chemistry: BR Pw3 150-155
		Vesicular flow top - large vesicles, decreasing in number and more vugy downward; medium-fine grained, black coatings in vesicles; no oxidation		
		170-175' a few dark green claystone? chips	532	
		175-195' - finer grained, dull dark gray, diktytaxitic patches		
200				

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		195-225' - diktytaxitic, dark gray, medium-fine grained		
		225-250' - dark gray, dense, medium-fine grained		
		<i>Sentinel Bluffs II flow</i> Medium to medium-course grained		
		250-300' - Medium grained, dense, dark gray, phytic, black (clay?) on joints		
300		Finer at base, a few vesicles and some clay chips	402	Chemistry: BR Pw3 290-295
		Vesicular, glass, clay - pillows?		
		<i>Interbed</i>		310' - Artesian flow
		Vesicular flow top - slightly oxidized (purplish cast); vesicles are coated with powder blue clays, pyrite	382	
		<i>Winter Water flow</i> Very fine grained, dark gray to black, dense, rare small phenocrysts		
		370-390' - some calcite	317	
400				

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Depth	Symbol	Lithologic Description	Elevation	Remarks
		<i>Winter Water flow</i> Gray to dark gray, fine to medium-fine grained, diktytaxitic patches; rare small plagioclase phenocrysts		
500		Vesicular zone- slightly altered, some glass, blue coatings on vesicles, pyrite	207	
		Pillow lava - vesicular basalt, black, glass, pyrite, calcite rhombs; rare small phenocrysts, sediment chips (515-520')	203	
		Sediment interbed - a mix of white to gray claystone chips and glass; vesicular basalt; pyrite Wood fragments	182	Chemistry: BR Pw3 480-485
		Vesicular zone, no oxidation, blue lining in vesicles	167	
		Black, dense, fine grained	145	
		<i>Ortley flow</i> Fine grained, dense, dark gray, dull A bit finer grained at base	128	Chemistry: BR Pw3 565-570
		Carbonaceous & greenish silty sediment, minor glass (frothy)		
600		Vesicular flow top, blue coated vesicles, very fine grained, black, pyrite A few large vesicles and wugs	112	

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Depth	Symbol	Lithologic Description	Elevation	Remarks
		Darker gray, fine grained, blue coated vugs	92	Chemistry: BR Pw3 625-630
		Ortley flow Gray, fine grained, mostly dense; minor diktytaxitic patches Slightly finer grained, one sediment chip	65	
		A few carbonaceous (?) chips - sediment? Vesicular, dark gray to black, very fine grained, blue coatings on vesicles A few vesicles down to 665'	52	
		Ortley flow? Dark gray, dull, fine grained, dense	32	Chemistry: BR Pw3 665-670
		End of Log		
700				
800				

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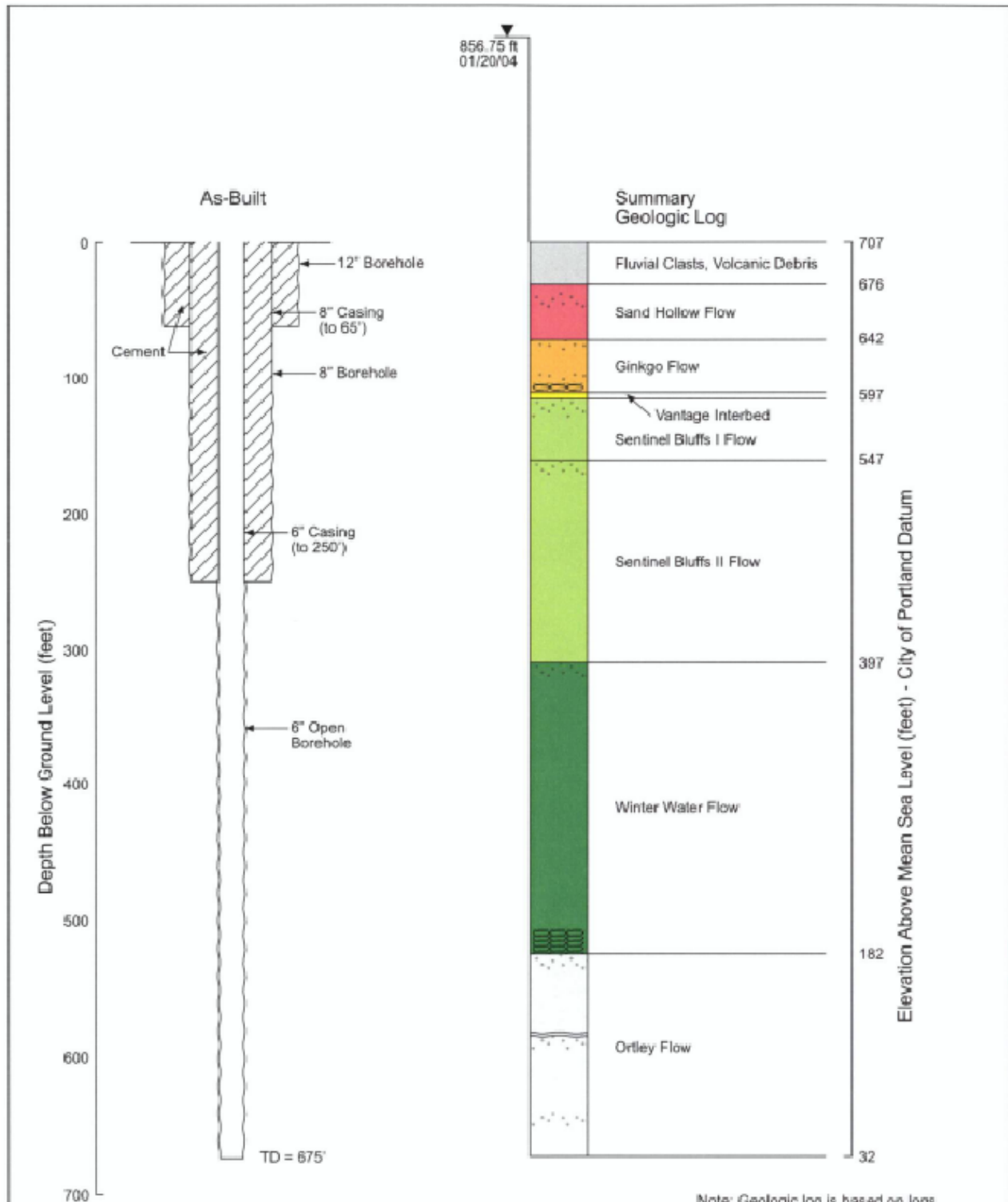
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LEGEND

- Flow Top
- Interbed
- Static Water Level Just Before Flow Test
- Pillows
- Vesicular

Note: Geologic log is based on logs developed by Dr. Marvin Beeson (See Appendix B)

FIGURE 2-1
PILOT WELL 3
AS-BUILT AND GEOLOGIC LOG
 CITY OF PORTLAND/BULL RUN GRW/OR