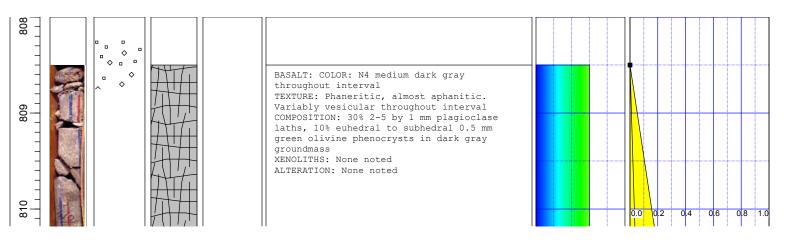
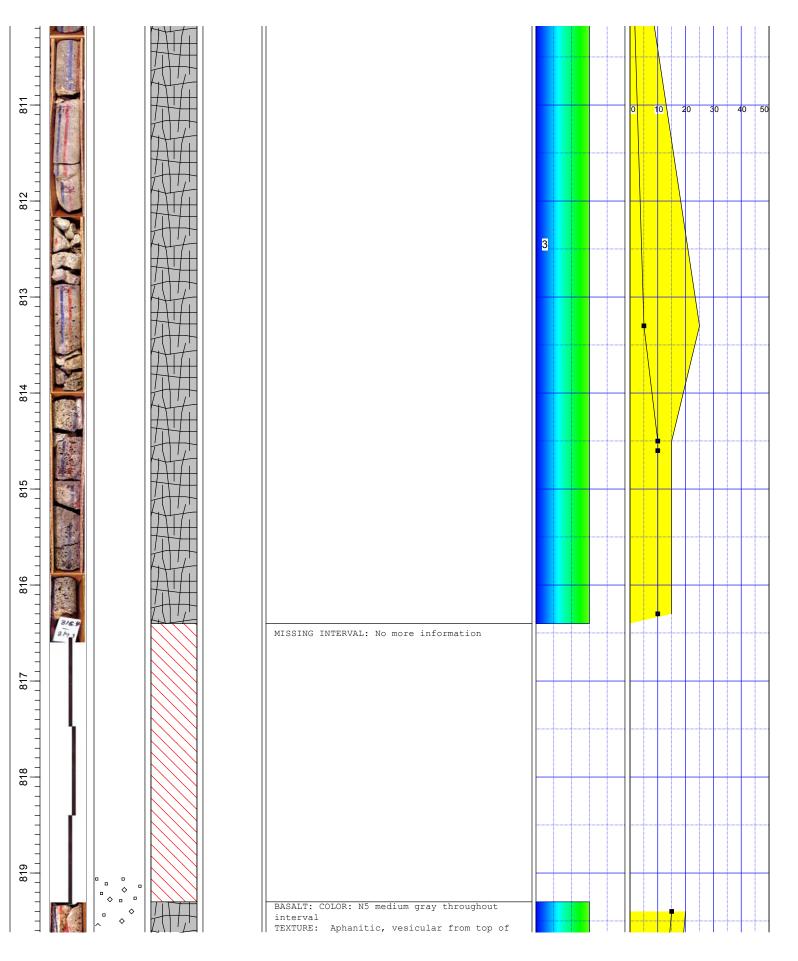
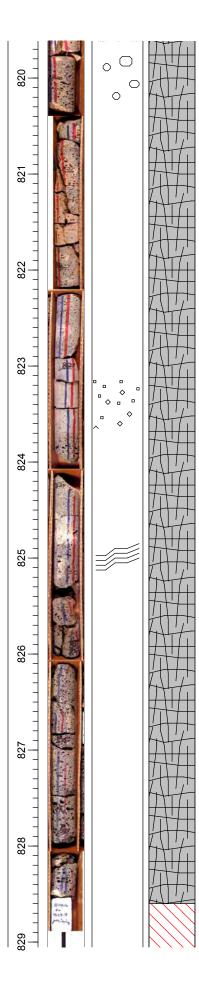
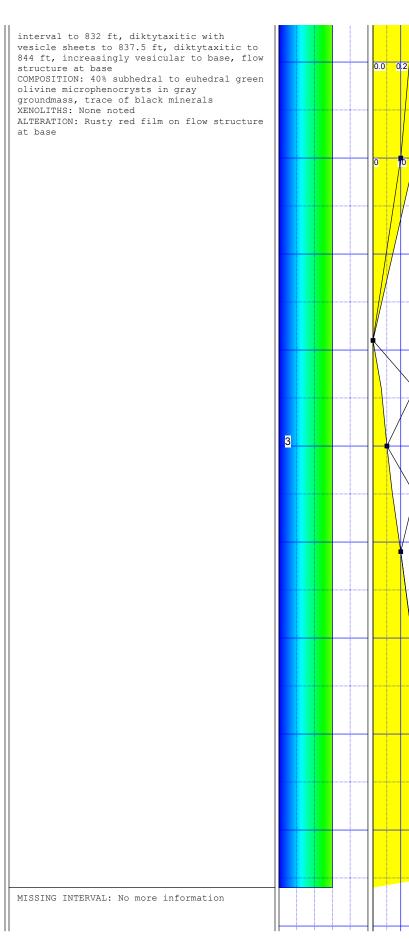
Science for a changing world	INL	Lithologic Core Storage Library Idaho National Laboratory Building CFA-663 Operated by the U.S. Geological Survey for the U.S. Department of Energy
Official Name: USGS 131		Logged By: M. K. V. Hodges
Selected Aliases: None USGS Site ID:433036112581601	Total Core Recovered (ft): 416	County & State: Butte Co., ID
Contractor Well ID:None	Beginning Depth (ft): 808	Quadrangle Name: Circular Butte 3 SW
	Ending Depth (ft):	Lat / Lng: N 43 30 36.28 W112 58 16.05
Drilling Agency: USGS Year Drilled: 2009	X Continuous Recovery	Tns / Rng / Sec: 02N 29E 11
Names of Drillers: M. Gilbert, J. Blom	Selected Intervals Recovered	UTM Coordinates: 340665.996 4819132.320
		Surface Elevation (ft): 4,977.3
Well Status: Complete	Notes:	
Total Depth of Hole (ft): 1,239		
<u><u>Co</u></u>	re Geological P	<u>rofile</u>
Lithologic Patterns       Soil Patterns         Basalts       Gravels         Rhyolites       Gravels         Sedimentary Rock       Sands - degrades	vith fines	Intervals in Absentia         Intervals in Absentia         Intervals in Absentia         Interval         Interval
Mega vesicles	esicles Ripple marks	edding Structureless - Massive Platy Prismatic Granular Columnar
Depth (feet & tenths) Core Photo Igneous, Soil and Sed Structures Lithology	Description Lithologic Description	Fracture       Vesicle Characteristics         Frequency       (See fracture classification on website.)       0       0.2       0.4       0.6       0.8       1.0         0       1       2       3       4       5       0       10       20       30       40       50

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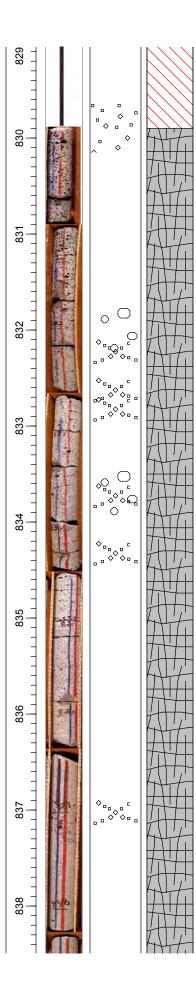
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### Page 3 of 47



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BASALT: COLOR: N4 Medium dark gray TEXTURE: Aphanitic, vesicular from top of the interval to 832.3 ft, diktytaxitic with very few vesicles from 832.3 ft to 844.4 ft, vesicular to base, pipe vesicles near base, flow texture at base COMPOSITION: 50% plagioclase in framework,		
30% suhedral to anhedral olivine phenocrysts, 20% gray groundmass, trace tiny small black phenocrysts XENOLITHS: None noted ALTERATION: Buff color carbonate deposits at		
top and base, white film on surfaces of fractures		 

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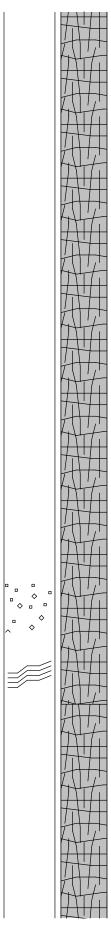
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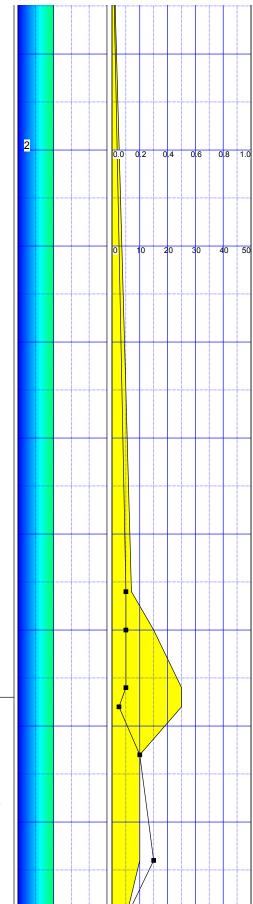
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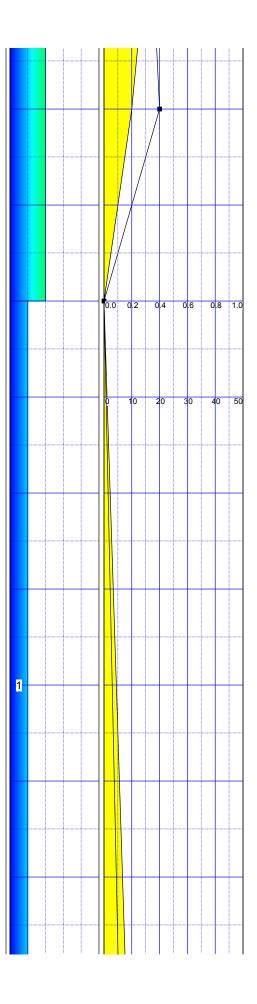


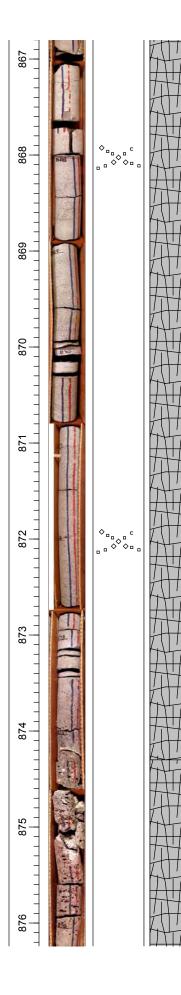
BASALT: COLOR: N4 Medium dark gray TEXTURE: Aphanitic, vesicular from top of interval to 848 ft, diktytaxitic to 853 ft, vesicular to base, pipe vesicles near base, spatter at base
COMPOSITION: 20% white plagioclase laths, 10% green olivine phenocrysts, 70% gray groundmass XENOLITHS: None noted
ALTERATION: White film on fracture surfaces, buff carbonate in crevices and vesicles at base





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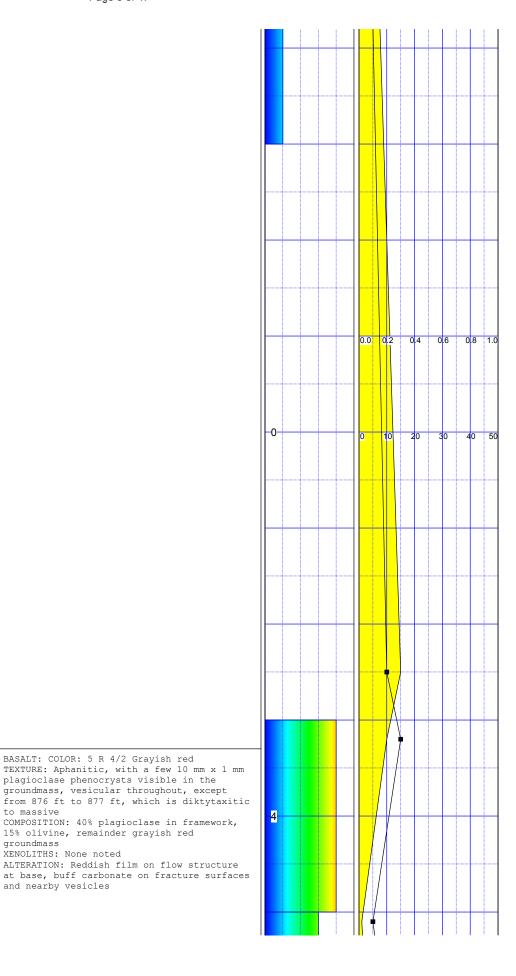
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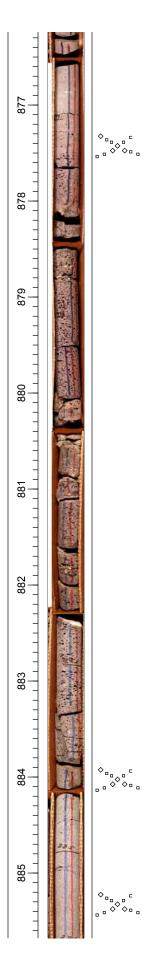
to massive

groundmass

XENOLITHS: None noted

and nearby vesicles

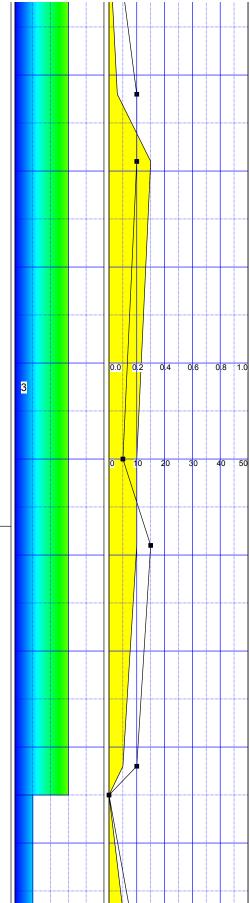


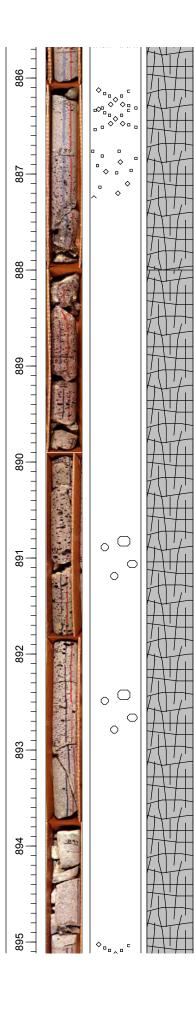


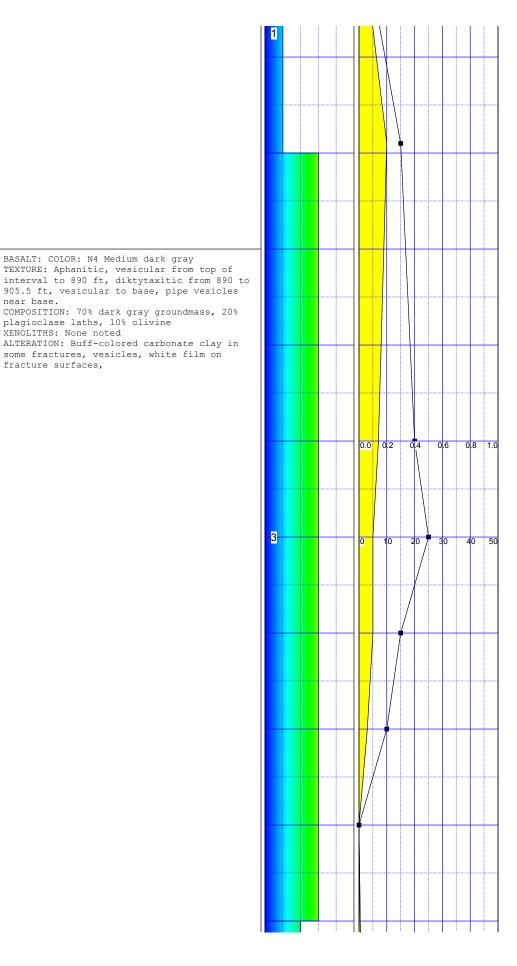
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COLOR: N4 Medium dark gray Aphanitic, microporphyritic, r from top of interval to 884.3 ft, itic form 884.3 to 886.9 ft, r to base, flow structure at base. ION: 50% white plagioclase in c, with a few 1 cm plagioclase
sts, 30% olivine microphenocrysts in
c spaces, 20% gray groundmass k spaces, 20% gray groundmass S: None noted DN: Buff carbonate at base, sparry fills a few vesicles



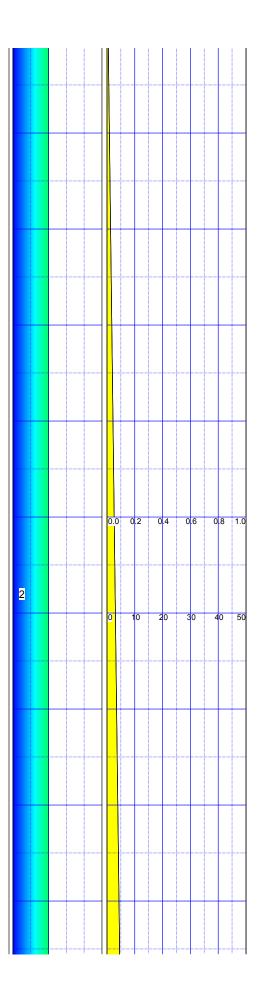


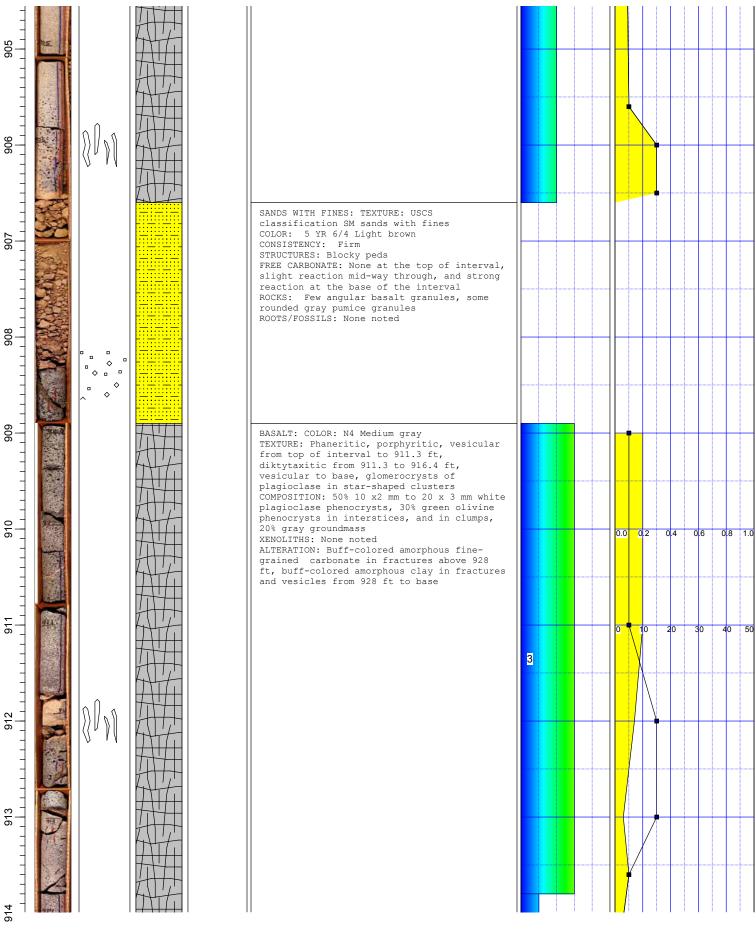


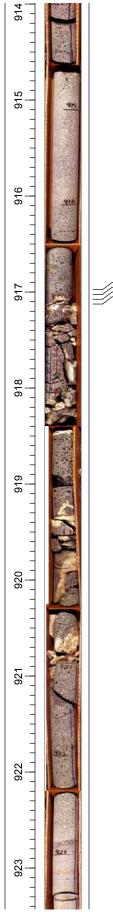
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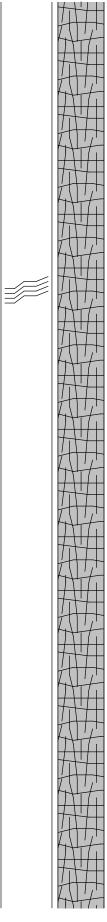
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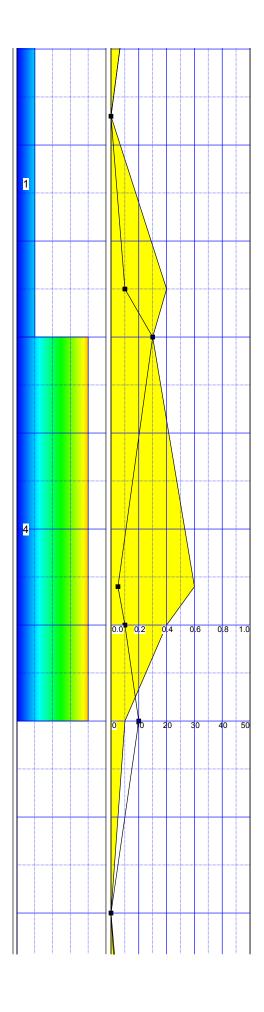
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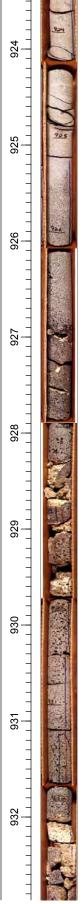


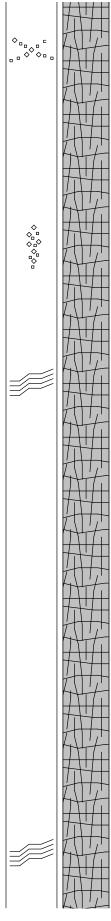


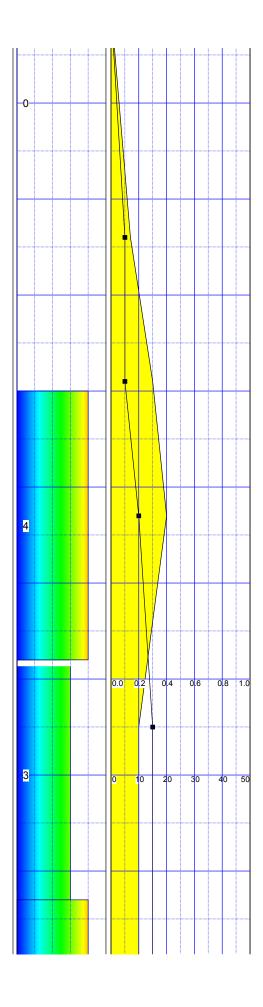


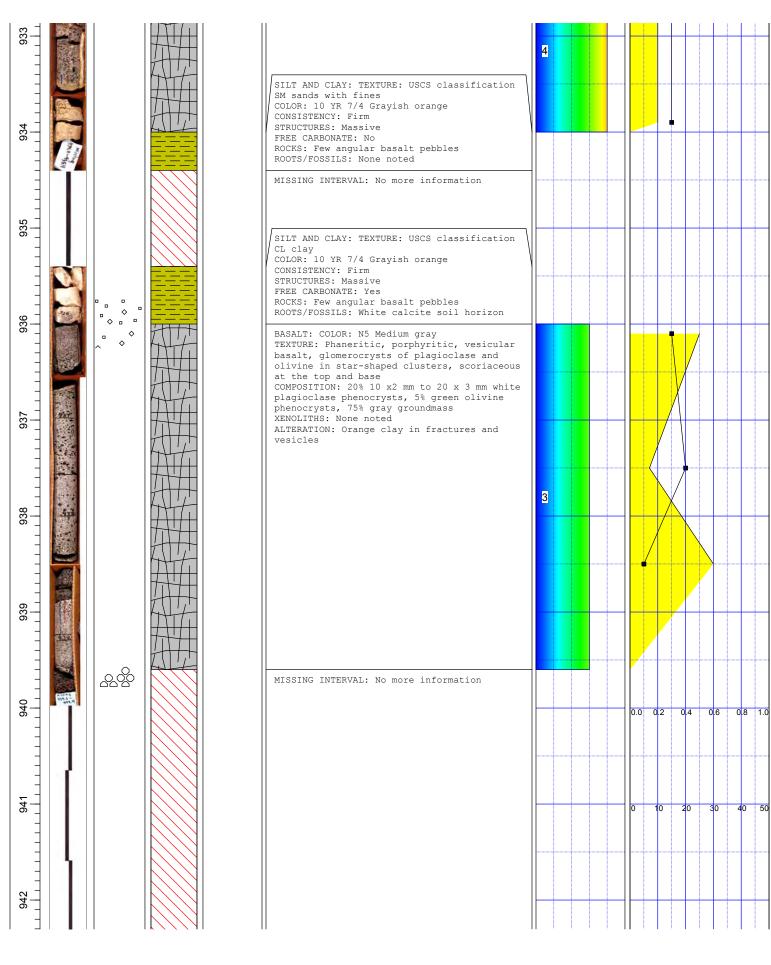






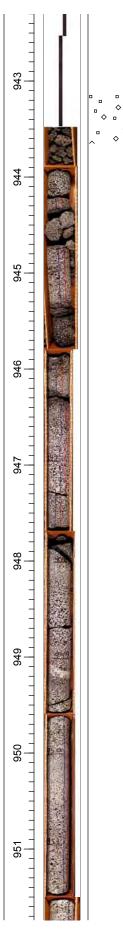


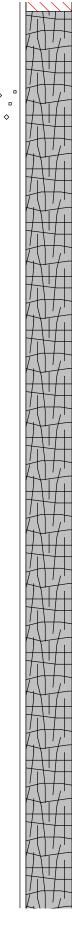




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BASALT: COLOR: N2 dark gray at top of the interval, grading to N5 medium gray at 948	
ft, then TEXTURE: Phaneritic, porphyritic, vesicular basalt, glomerocrysts of plagioclase and olivine in star-shaped clusters, scoriaceous	
at the top and base COMPOSITION: 30% 10 x2 mm to 20 x 3 mm white plagioclase phenocrysts,15% green olivine	
phenocrysts, 55% gray groundmass XENOLITHS: None noted ALTERATION: Reddish film on surfaces at base	
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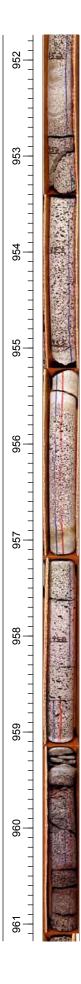
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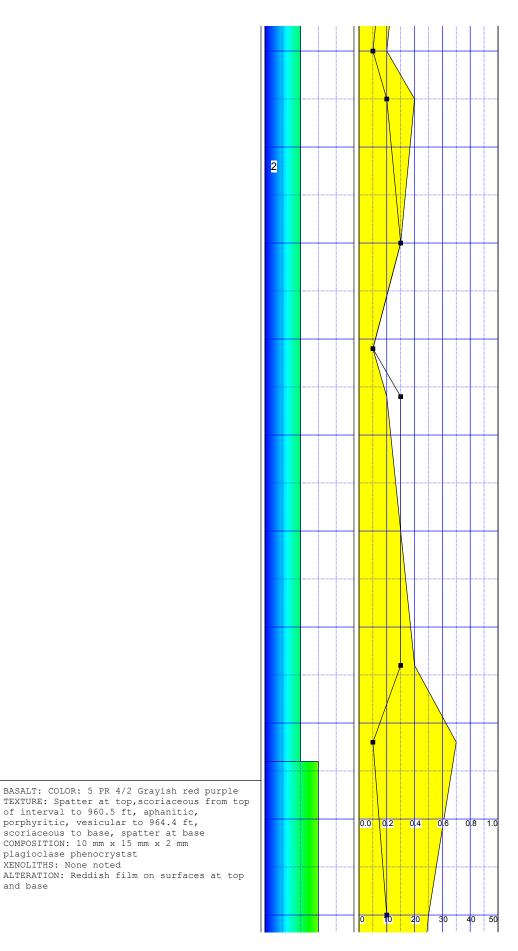
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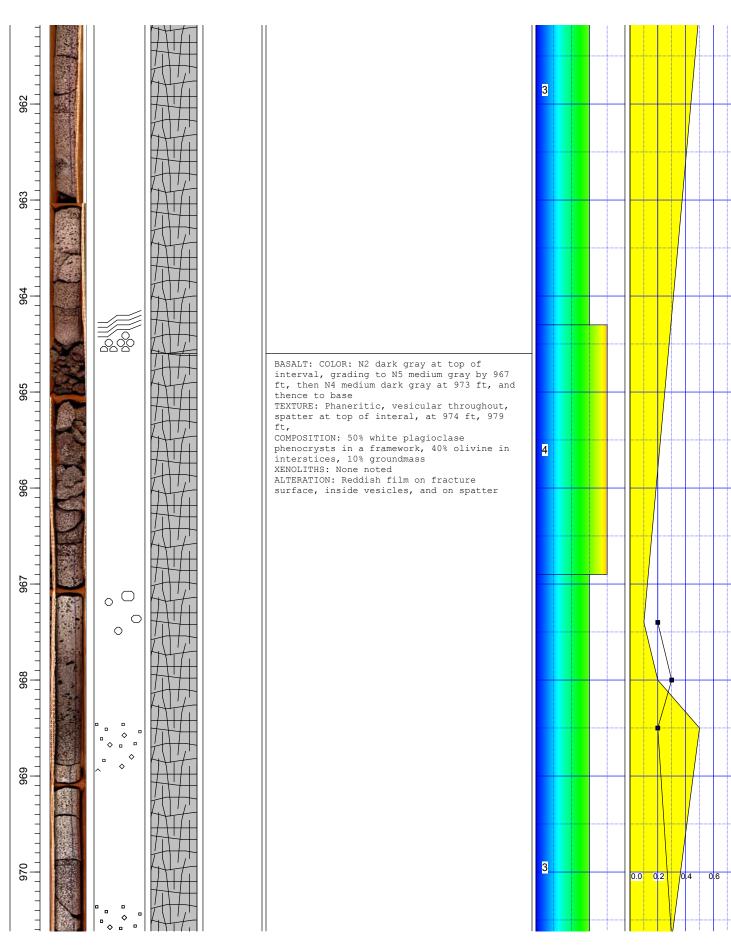
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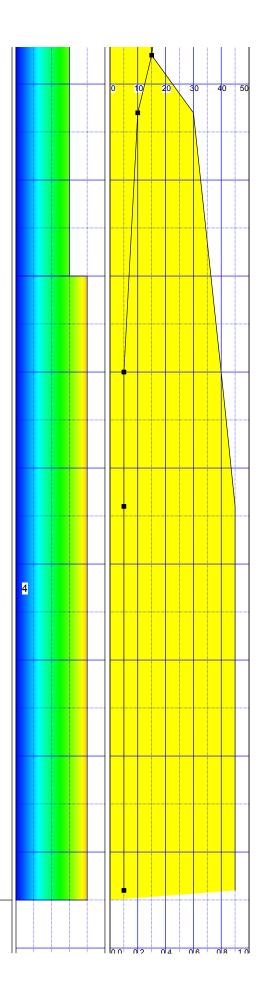




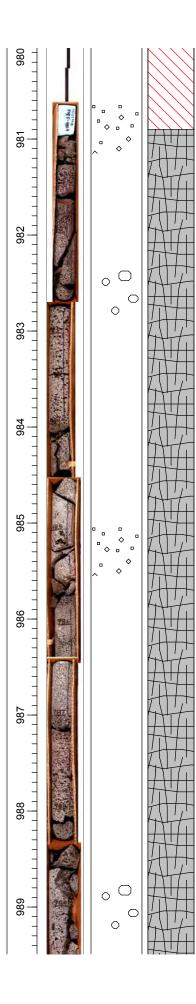
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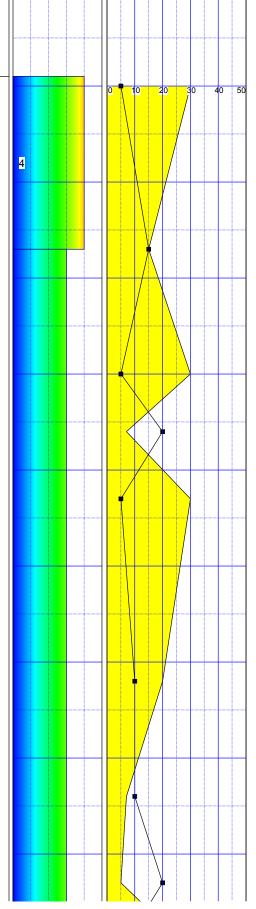


# Page 20 of 47

BASALT: COLOR: N4 medium dark gray throughout

TEXTURE: Almost aphanitic, scoriaceous from top to 982.7 ft, vesicular from 982.7 ft to 996.4 ft, large vesicles from 982.7 ft to 985.3 ft, relatively massive with a few small vesicles from 996.4 to 1,000.3 ft, vesicular from 1,000.3 ft to base of interval, spatter and flow features at 990.6 ft, 985.7 ft, 990 ft, 990.8 ft, and at base COMPOSITION: 50% white plagioclase laths 2-4 mm long by 1-2 mm wide almost touching in 40% dark gray groundmass, 10% euhedral brownish green olivine XENOLITHS: None noted ALTERATION: Reddish film on surfaces and

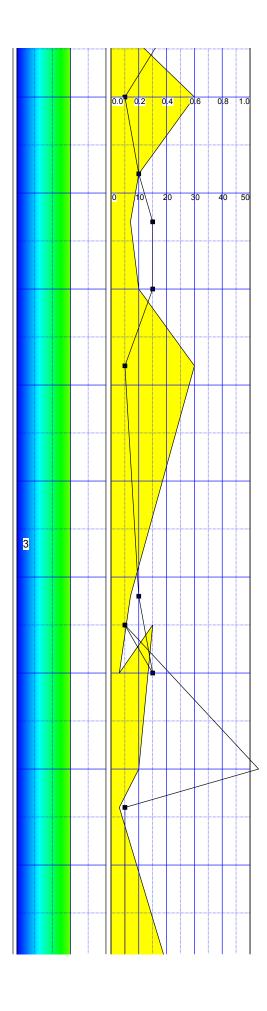
inside vesicle on spatter and flow features, yellow-green film on surfaces at 985.6 ft



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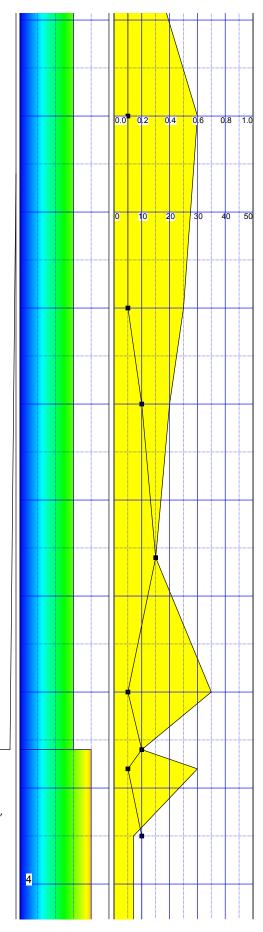
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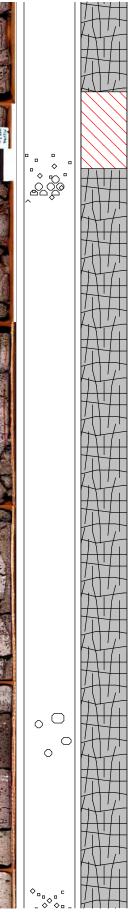
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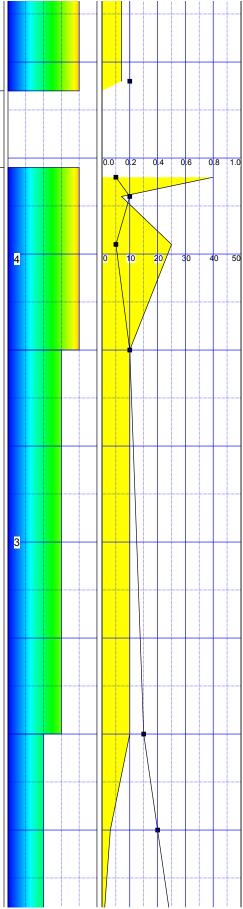
BASALT: COLOR: N3 dark gray, reddish alteration inside of all vesicles and fractures impart a reddish tinge TEXTURE: Phaneritic, vesicular throughout, spatter at top and base of interval COMPOSITION: 45% euhedral white plagioclase, 5% very tiny, anhedral brown olivine, suspended in 50% dark gray matrix XENOLITHS: None noted ALTERATION: Reddish film inside all vesicles, and on all fracture surfaces





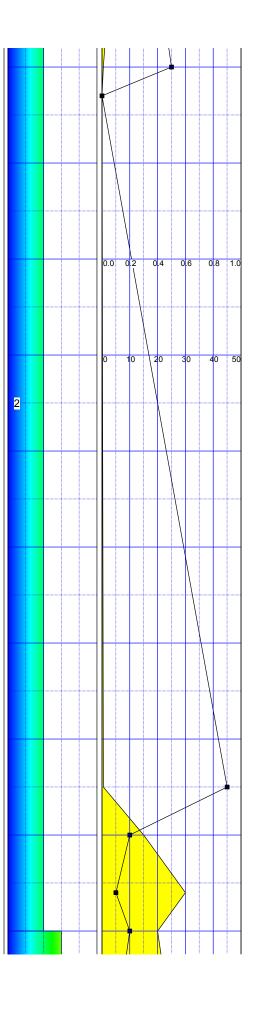


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BASALT: COLOR: N3 dark gray to 1029.4 ft,	
where color changes to 5 YR 4/1 brownish gray, which continues to base	
TEXTURE: Aphanitic, decreasinsgly vesicular from top to 1,018.3 ft, massive to 1,022.5	
ft, diktytaxitic from 1,022.5 ft to 1,026 ft, vesicular from 1,026 ft to 1,036 ft,	
slightly diktytaxitic from 1,036 to 1,038	4
ft, vesicular from there to base of interval, flow texture at base	
COMPOSITION: 50% white euhedral plagioclase microphenocrysts, 40% green olivine	
microphenocrysts, 9% gray or brown groundmass, trace black mineral	
XENOLITHS: None noted ALTERATION: Reddish film on surfaces of flow	
structures at base, and fractures and vesicles at top	
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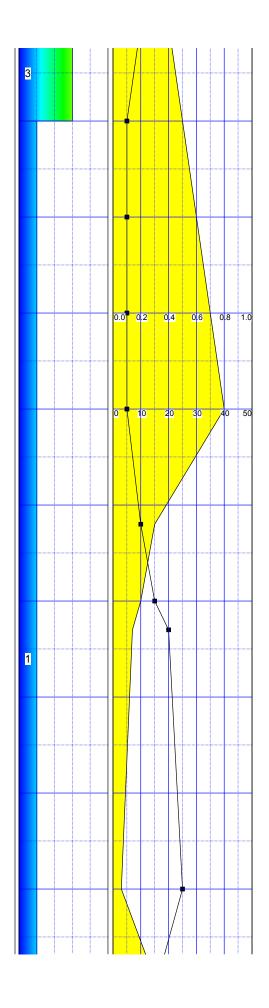
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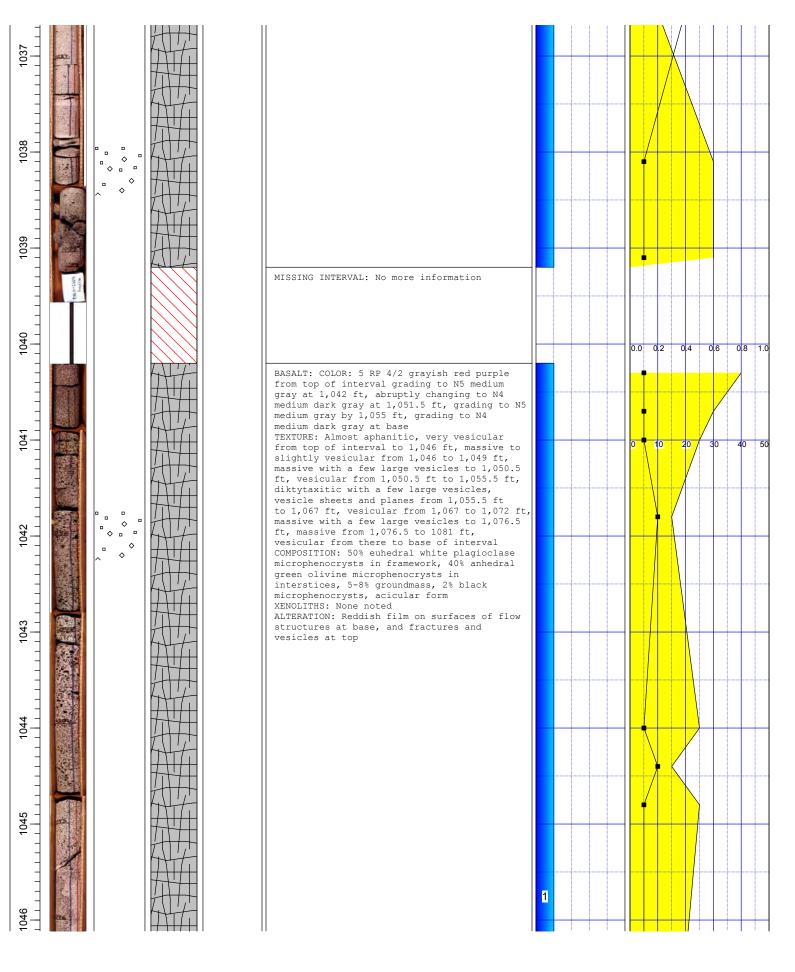
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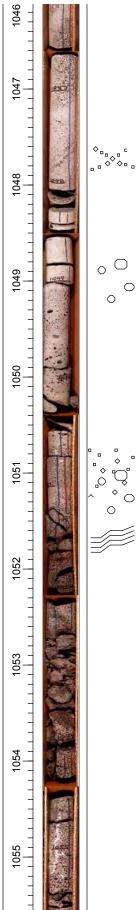
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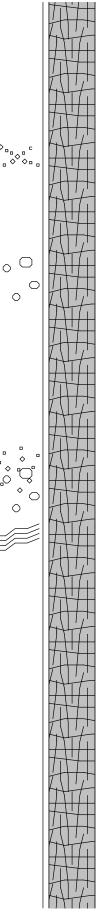
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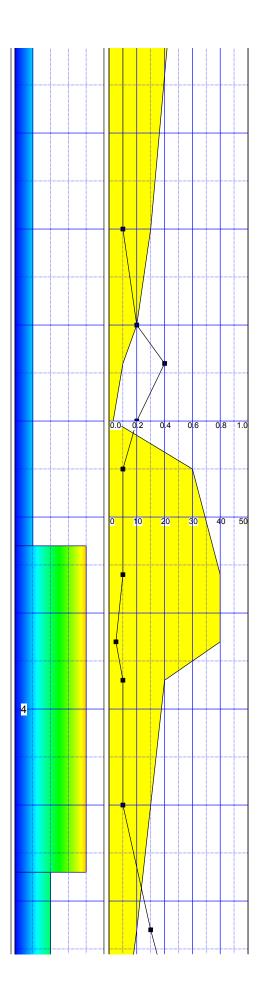
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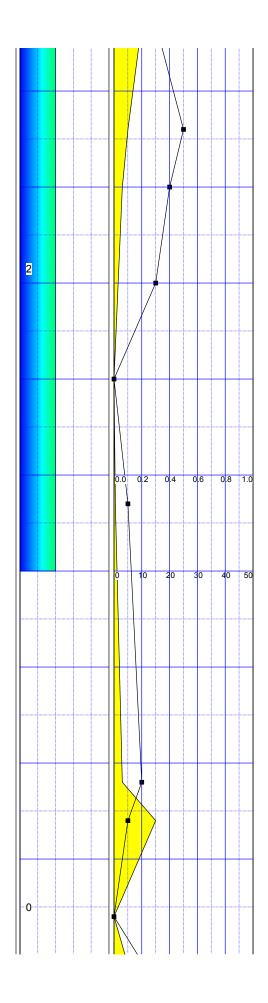


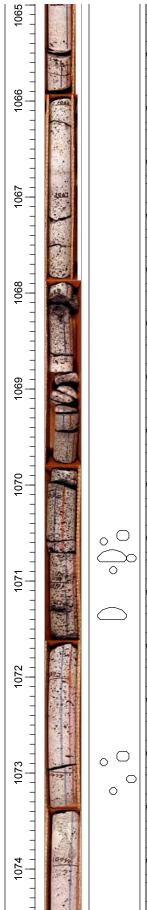




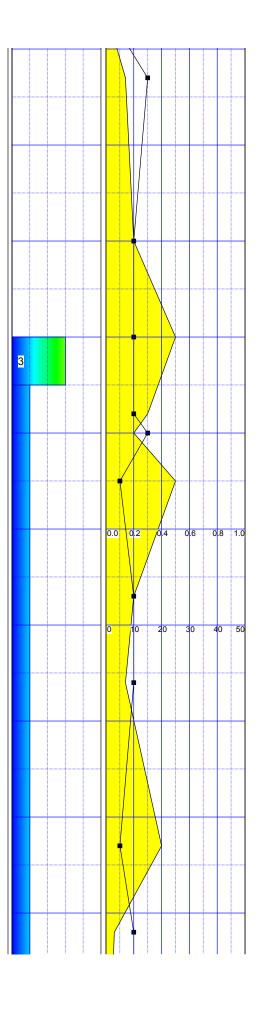
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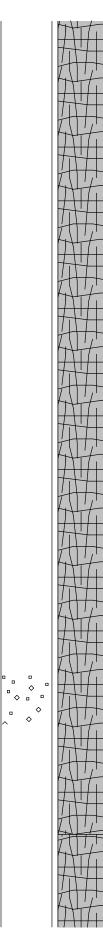












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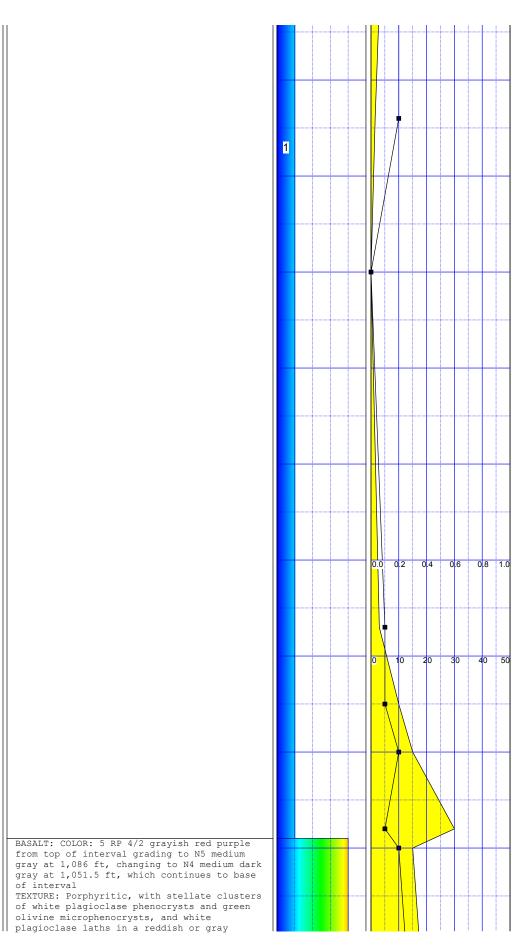
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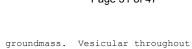
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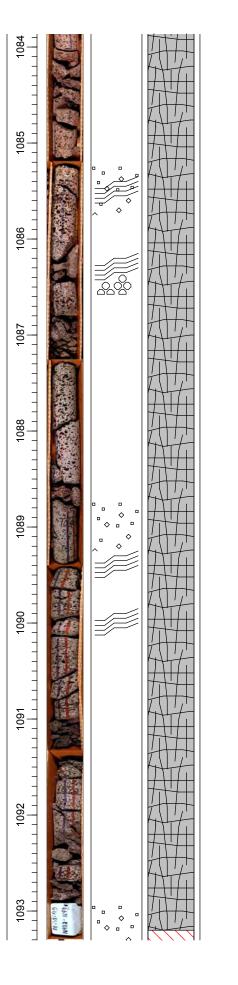
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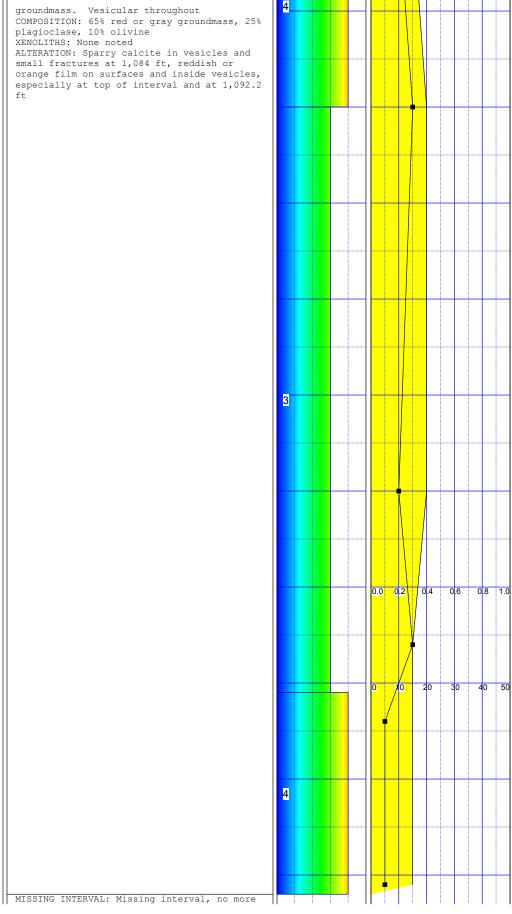
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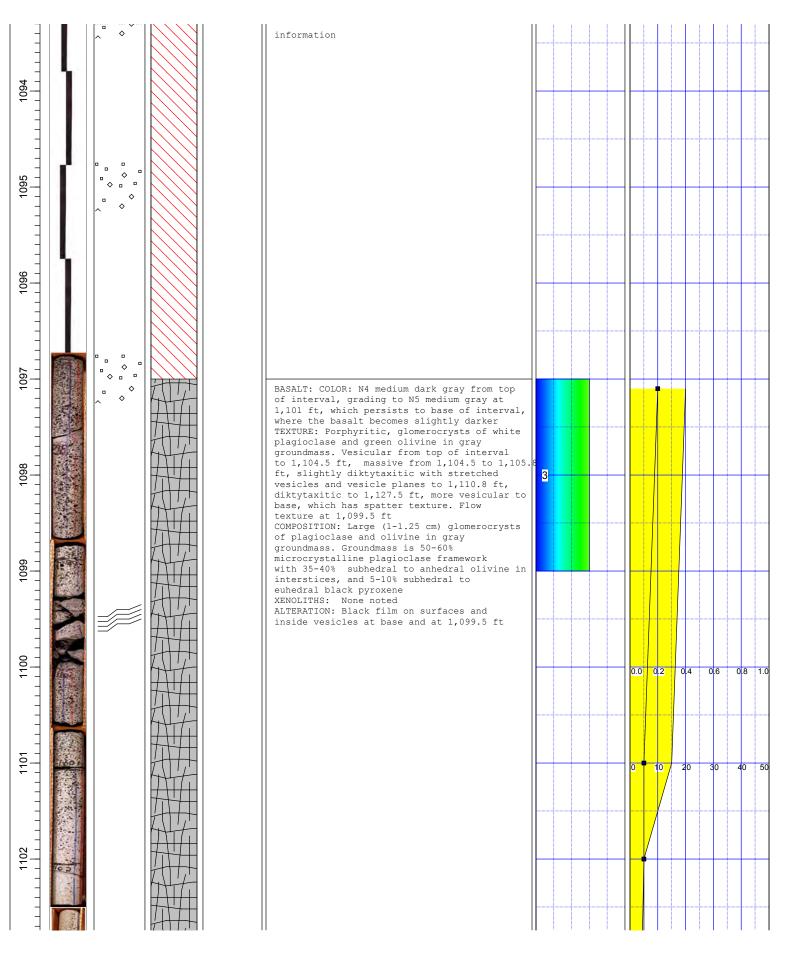






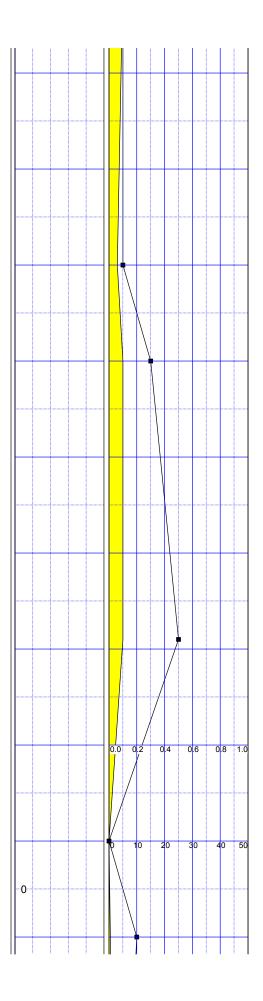


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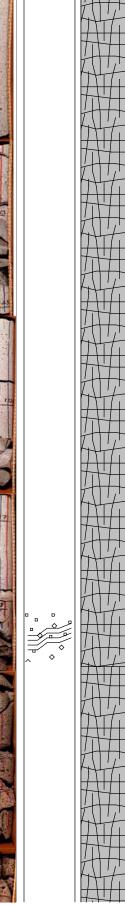
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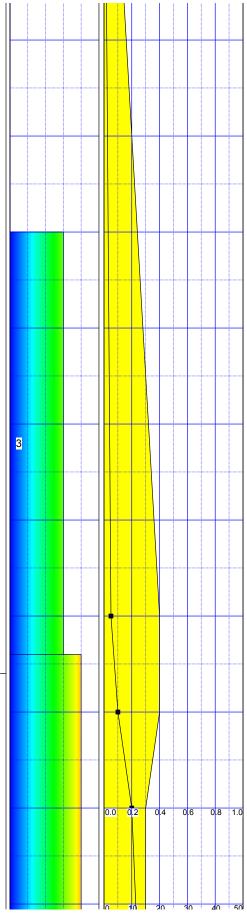
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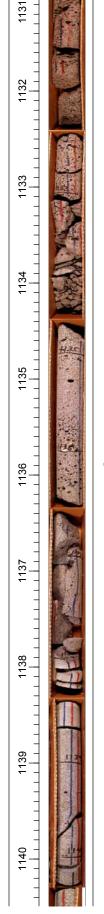


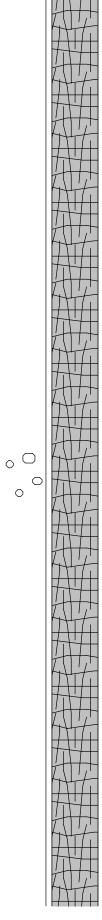


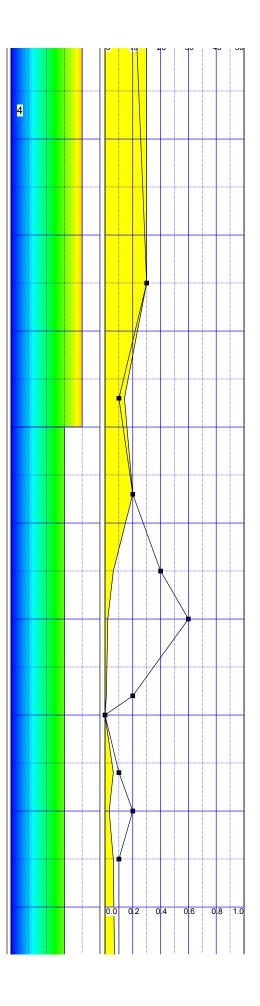
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BASALT: COLOR: N4 medium dark gray at top of metric changes abruptly to 5R 4/2 grayish red at 1,129.5 ft, then grades to N4 medium dark gray at 1,133 ft, then N3 dark gray from 1,153 ft to base TEXTURE: Almost aphantic. Vesicular from top of interval to 1,136.7 ft, diktytaxitic from 1,136.7 ft to 1,144.6 ft, slightly diktytaxitic with a few vesicles from 1144.6 to 1,151.7 ft, increasingly vesicular from 1,151.7 ft to base. spatter texture at 1,132, 1,133, 1,155.3, 1,155.5, 1,156, 1,157.2 ft, agglomerated spatter at 1,155.3 ft. COMPOSITION: 50% white euhedral plagioclase, 30% green subhedral olivine,10% black subhedral to euhedral pyroxene,  $10\,\%$ gray groundmass XENOLITHS: None noted ALTERATION: Sparry calcite in vesicles at 1,136 ft, and from 1,152 to 1,153 ft, black film on surfaces and inside vesicles, especially at base of interval









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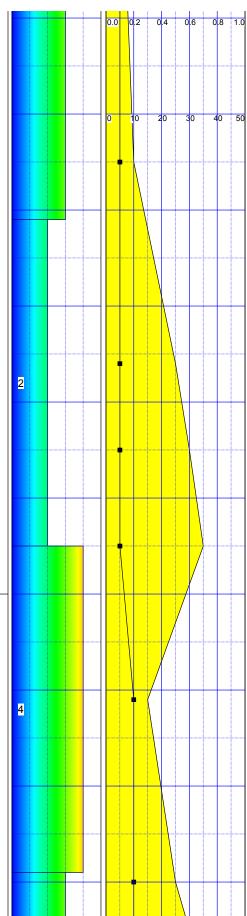
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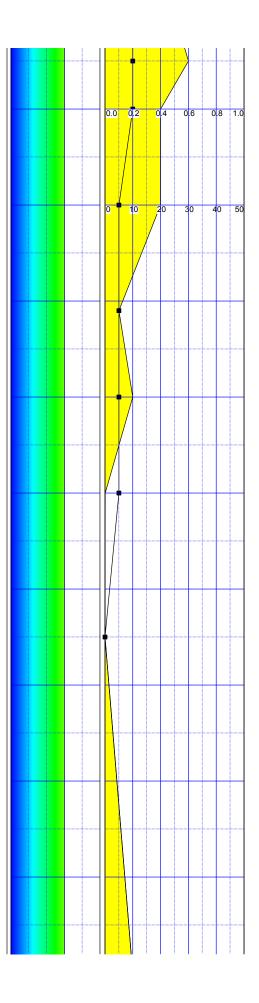
BASALT: COLOR: 10 R 4/6 moderate reddish brown at top of interval, grading to N4 medium dark gray about 1,165 ft, which persist to base of interval TEXTURE: Almost aphanitic, porphyritic, white plagioclase framework in brown or gray
groundmass. Vesicular from top of interval
to 1,162.3 ft, diktytaxitic with vesicles,
vesicle sheets and planes to 1,165.7 ft,
massive from 1,165.7 to 1,166.2 ft,
diktytaxitc with vesicle columns to 1,169 ft,
vesicular to base, agglomerated spatter at
base
COMPOSITION: 50% white euhedral
plagioclase, 25% subhedral to euhedral

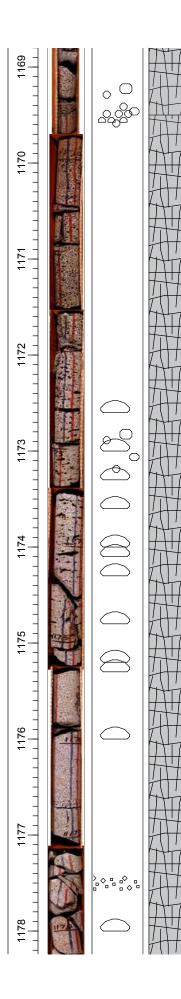
plagioclase, 25% subhedral to euhedral olivine in spaces between plagioclase phenocrysts 15% brown or gray groundmass 10% black anhedral to euhedral pyroxene XENOLITHS: None noted ALTERATION: Sparry calcite in vesicles, fractures and cracks at 1,164 ft

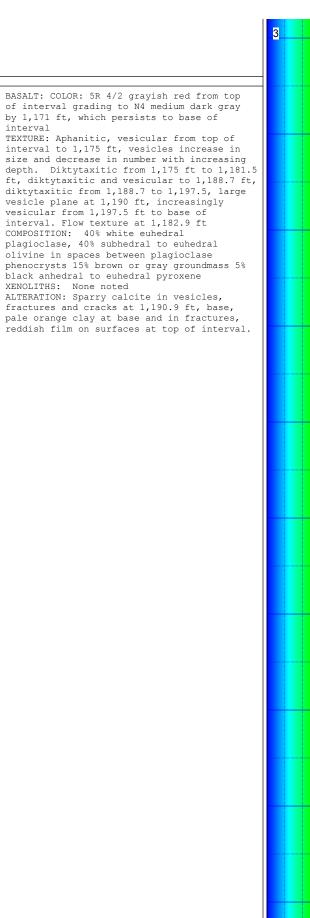


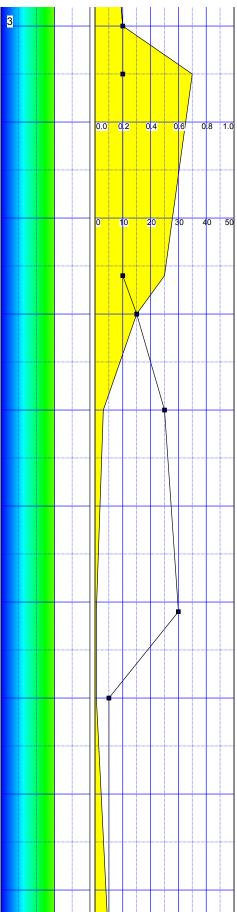
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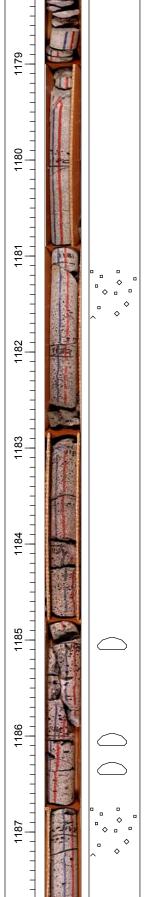
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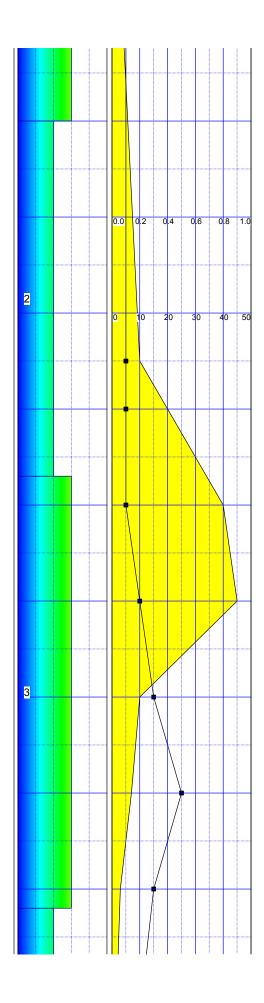






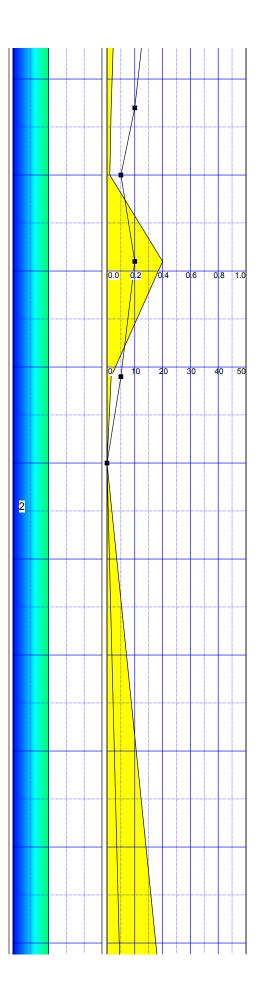


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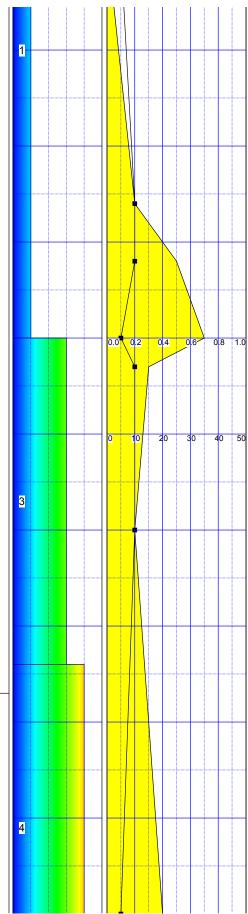


	<pre>BASALT: COLOR: N4 medium dark gray TEXTURE: Aphanitic, vesicular from top of interval to 1,204.1 ft, vesicles increase in size and decrease in number with increasing depth. Diktytaxitic with a few very large vesicles from 1,204.1 ft to 1,205.5 ft, diktytaxitic to 1,208.6 ft, vesicular to base. Spatter Lexture at base. COMPOSITION: 60% white enhedral plagiclase, 30% subhedral to enhedral olivine in spaces between plagicclase phenocrysts 8% black anhedral to enhedral pyroxene, trace groundmass XENOLITES: None noted ALTERATION: Sparry calcite in vesicles, fractures and cracks at top of interval and at 1,210 ft, pale orange clay at base and in fractures</pre>	
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T: COLOR: 5R 4/2 grayish red, gradually ng to N5 medium gray at 1,239 ft E: Aphanitic, vesicular from top of val to 1,230.5 ft, vesicles increase in and decrease in number with increasing Diktytaxitic with a few very large es from 1,230.5 ft to 1,232.8 ft, axitic with vesicle columns and planes 36 ft, diktytaxitic to end of core ole did not penetrate through this flow). Flow texture at 1,230 ft SITION: 60% white euhedral oclase, 30% subhedral to euhedral e in spaces between plagioclase rysts 8% black anhedral to euhedral ene, trace groundmass THS: None noted ATION: Sparry calcite and pale orange ceous clay in vesicles, fractures and s at top of interval and from 1,210 to ft, pale orange clay in fractures



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