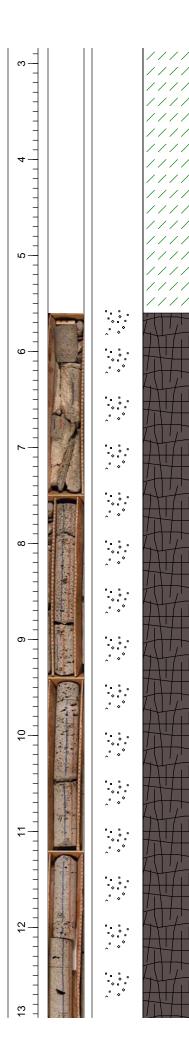
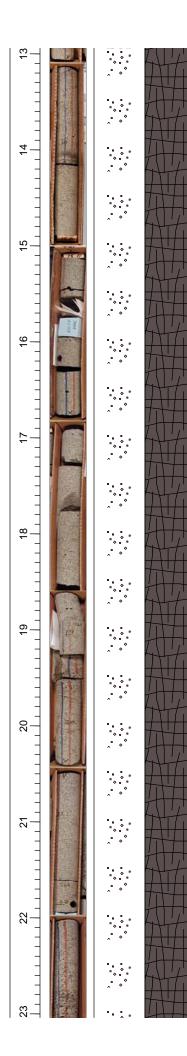
Science for a changing world				Opera	Iogic Core Storage Library Idaho National Laboratory Building CFA-663 ted by the U.S. Geological Survey the U.S. Department of Energy	Contact: Linda C. Davis PO Box 8072 Pocatello, ID. 83209
Official Name:USGS 126	6A			Logge	d By: S.M. Orr, July 2006	
Selected Aliases: 132A						
USGS Site ID:435529112471301		Total Core Recovere	d (ft):642.3	County	/ & State: Butte Co. ID	
Contractor Well ID:		Beginning Depth (ft):	5.6	Quadra	angle Name: Richard Butte	
Drilling Agency: USGS		Ending Depth (ft): 64	7.9	Lat / Li	ng: 43°55'28.75", 112°47'12.90" NAI	27
Year Drilled: 1996		x Continuous Reco	overy	Tns / F	Rng / Sec: T7N, R31E, Sec 20 bdb1	
Names of Drillers: Matson, Daus, B	ois	Selected Interval	s Recovered	UTM C	Coordinates: N 823515.13, E 336582	.93 NAD 27
Well Status: Completed		Total # of Core Boxe	s: 78	Altitude	e (ft): 4988.69 ft, NGVD 29	
· · ·		Notes: The core's marked measurements may not be accurate.				
	Cor	e Geolo	gical P	roti	le	
Lithologic Patterns S	Soil Patterns	See Unified Soil Classifica	ation System.)	Interv	vals in Absentia	
Basalts	Gravels - c	lean s	Sands with fines	11	Surficial material	terval not cored
Rhyolites	Gravels wi	th fines	Silts and clays		Natural void M	issing interval
Sedimentary Rock	Sands - cle	ean				
Igneous and Sedimentary	Structure Symbol	ols			Soil Structure Symbols	
Vesicle zone	Pipe ves	icles	Ripple mar	ks	Structureless - Single	Grained
	Pillows	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Mud cracks	s	Structureless - Massive	e
Vesicle planes	Vesicle S	Sheet 2	22 Imbricated	bedding	Platy	Prismatic
Mega vesicles	_ <b>≋</b> ≋ Flow/Mo	ld 🖉	Graded be	dding	Granular	
Vesicle Cylinders	Spatter f	opturo 77		ding	Blocky HRXX	

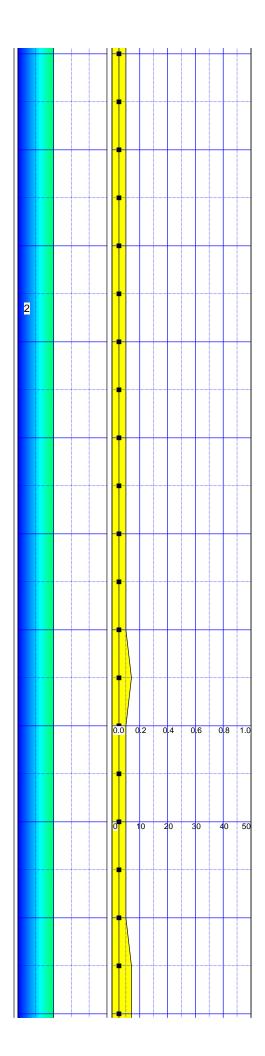
	Ves	sicle Cylinde	ers	Spat	tter feature	Cross bedding	g   [	Blocky		Colu	mnar
(feet & tenths)	hoto	ls, Soil and Structures	ology	Description		Fracture Frequency (See fracture classification on website.)	0 0.2	Charact - Mean S 0.4 0.6	ize (in) 0.8 1.0 ⊥		
Depth	Core F	Igneou	Lithold	Miscellaneous Text	t	Lithologic Description				20 30	40 50

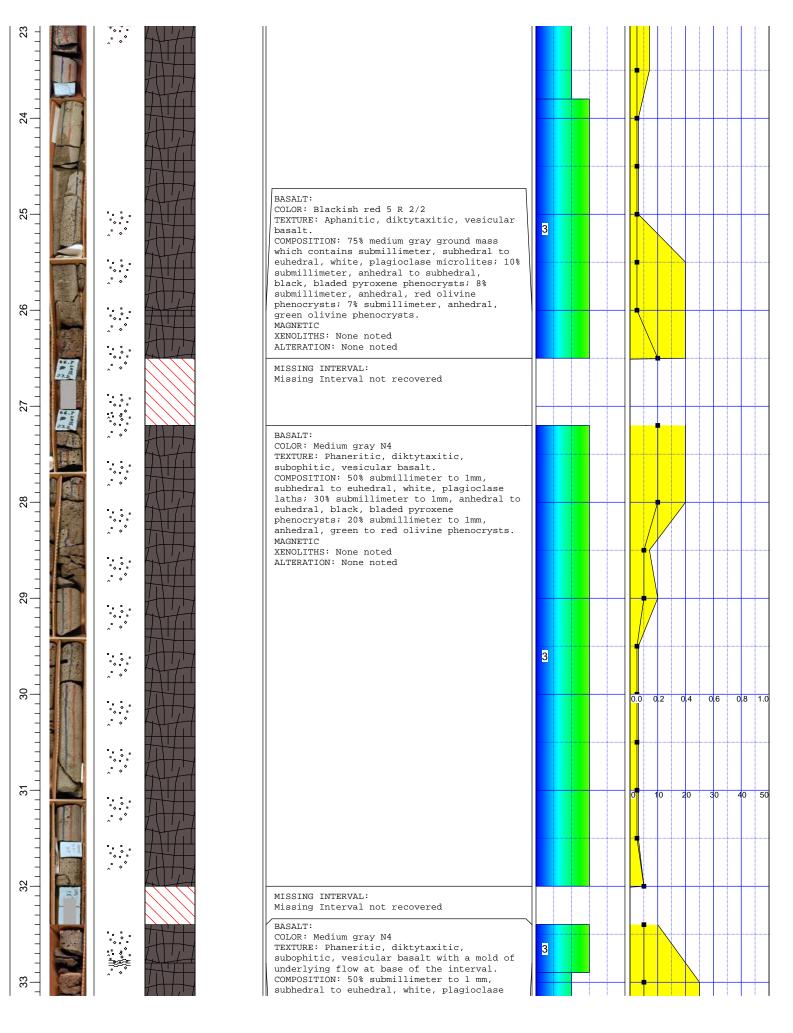
•	////	SURFICIAL MATERIAL:	
-	1111	Surficial material not recovered.	
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BASALT: COLOR: Medium light gray N5		
TEXTURE: Phaneritic, diktytaxitic, subophitic, vesicular basalt. Vesicles		
decrease in frequency from 5.6 feet to 23.4 feet and increase from 25.1 feet to 26.0 feet.		
COMPOSITION: 40% submillimeter to 1mm, subhedral to euhedral, white, plagioclase	3	
<pre>laths; 35% submillimeter to 1mm, anhedral to euhedral, black, bladed pyroxene phenocrysts; 25% submillimeter to 1mm,</pre>		
anhedral, green olivine phenocrysts. MAGNETIC XENOLITHS: None noted		
ALTERATION: Yellowish gray 5 Y 7/2 clay on fractured surfaces.		
		1.0
	0 10 20 30 40	50







### Page 5 of 65

MAGNETIC

BASALT:

interval.

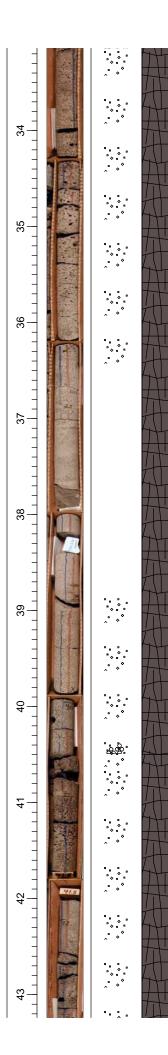
MAGNETIC

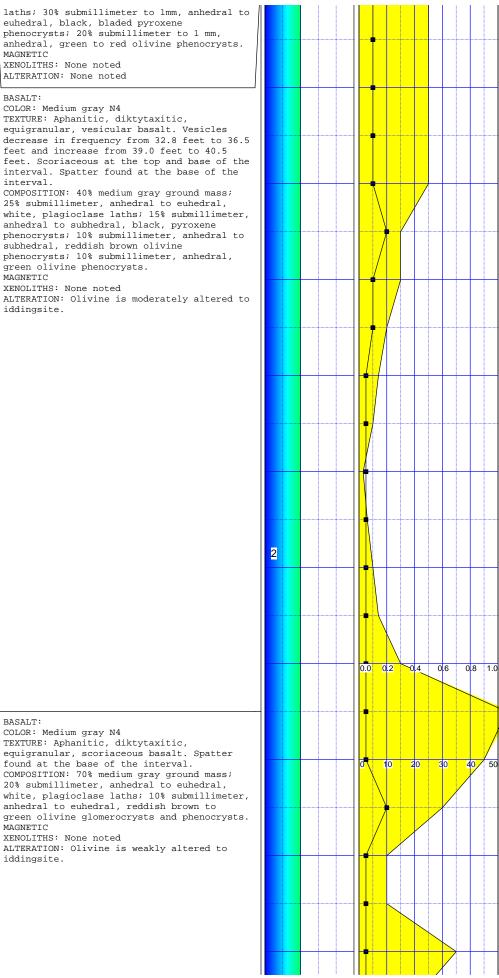
iddingsite.

XENOLITHS: None noted ALTERATION: None noted

COLOR: Medium gray N4

XENOLITHS: None noted

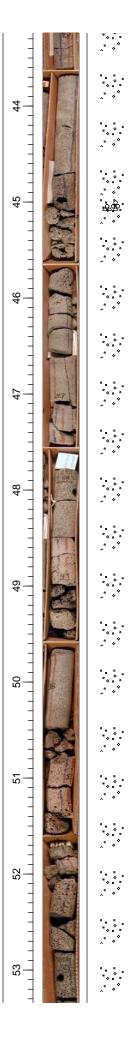


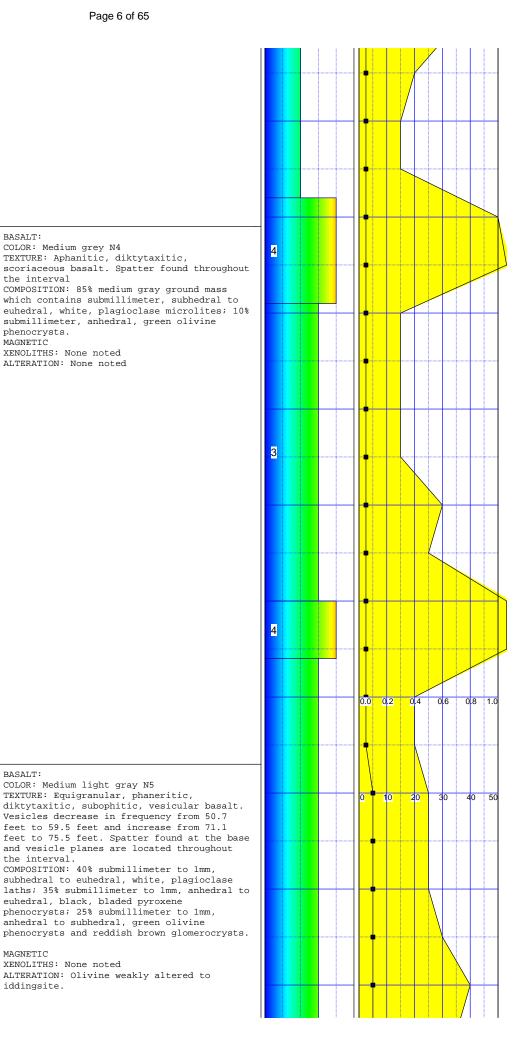


BASALT:

COLOR: Medium grav N4 TEXTURE: Aphanitic, diktytaxitic, equigranular, scoriaceous basalt. Spatter found at the base of the interval. COMPOSITION: 70% medium gray ground mass; 20% submillimeter, anhedral to euhedral, white, plagioclase laths; 10% submillimeter, anhedral to euhedral, reddish brown to green olivine glomerocrysts and phenocrysts. MAGNETIC XENOLITHS: None noted ALTERATION: Olivine is weakly altered to

iddingsite.





BASALT:

the interval

phenocrysts. MAGNETIC

BASALT:

the interval.

MAGNETIC

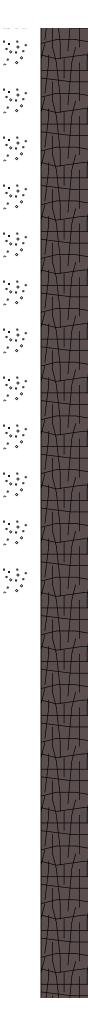
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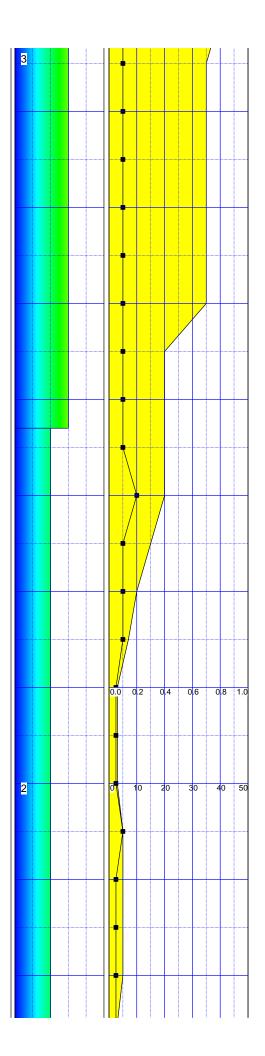
XENOLITHS: None noted

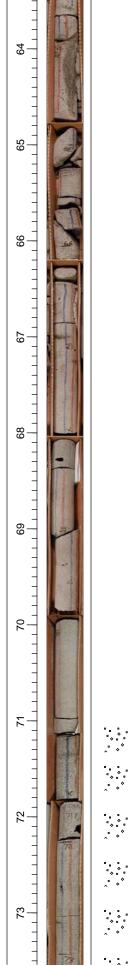
COLOR: Medium grey N4

XENOLITHS: None noted ALTERATION: None noted





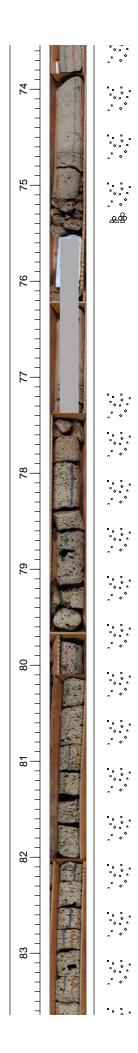






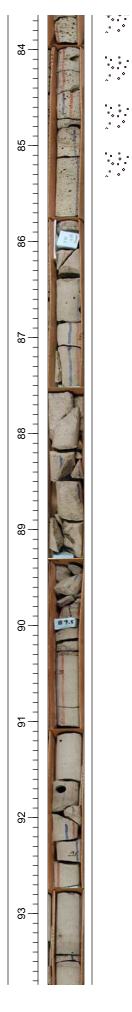


	<b>*</b>
3	
	0.0 0.2 0.4 0.6 0.8 1.0
1	
	0 10 20 30 40 50

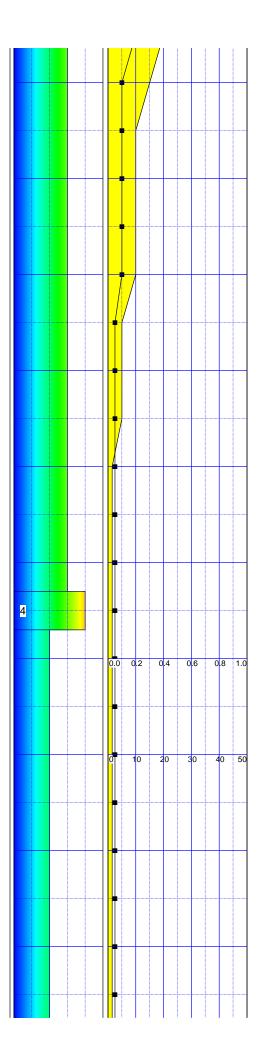


TI

Page 9 of 65	
Page 9 of 65 MISSING INTERVAL: Missing Interval not recovered BASALT: COLOR: Medium light gray N5 TEXTURE: Massive, phaneritic, diktytaxitic, vesicular basalt. Vesicles decrease in frequency from 7.4 feet to 108.4 feet. Vesicle column found at 97.8 feet. Spatter found at the base and vesicle planes are found throughout the interval. COMPOSITION: 90% medium gray ground mass which contains submillimeter, subhedral to euhedral, white, plagioclase microlites; 10% submillimeter to lmm, subhedral, green olivine phenocrysts and Smm glomerocrysts. MACNETIC XENOLITHS: None noted ALTERATION: Very light gray N7 clay on fractured surfaces.	

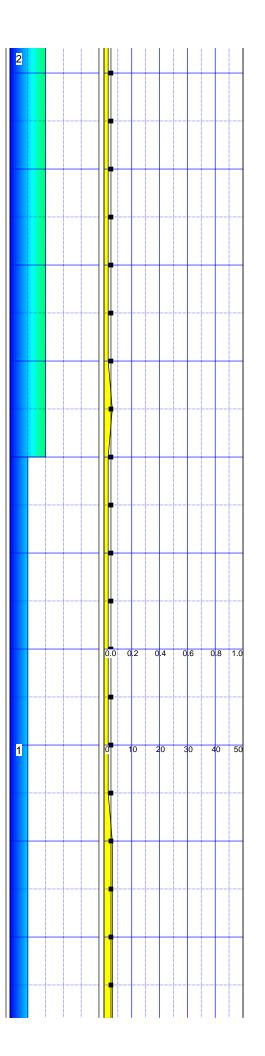


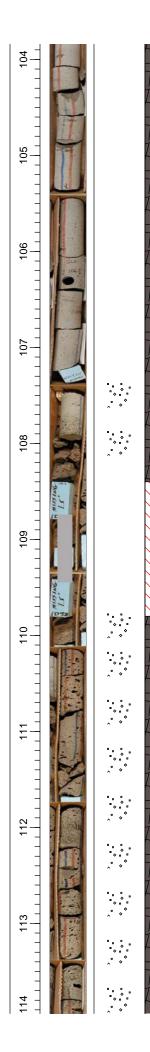


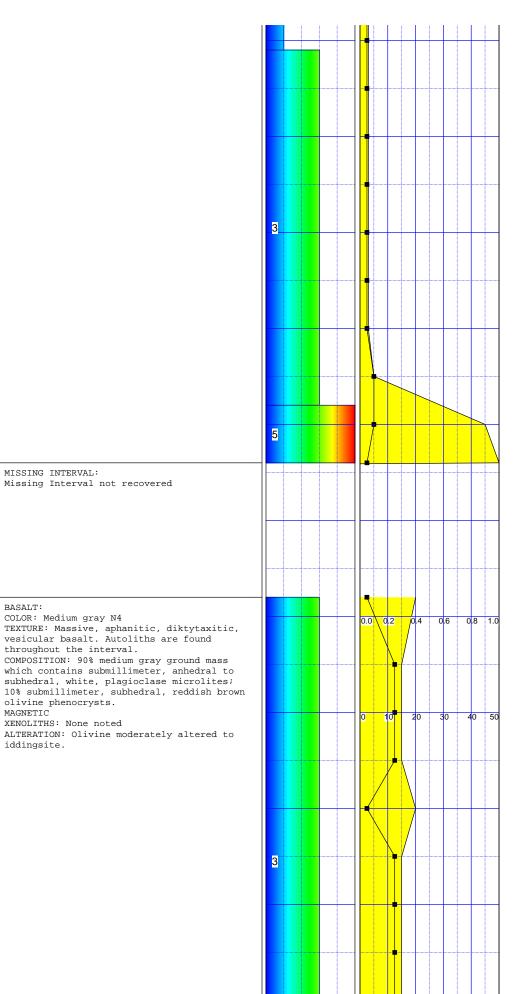


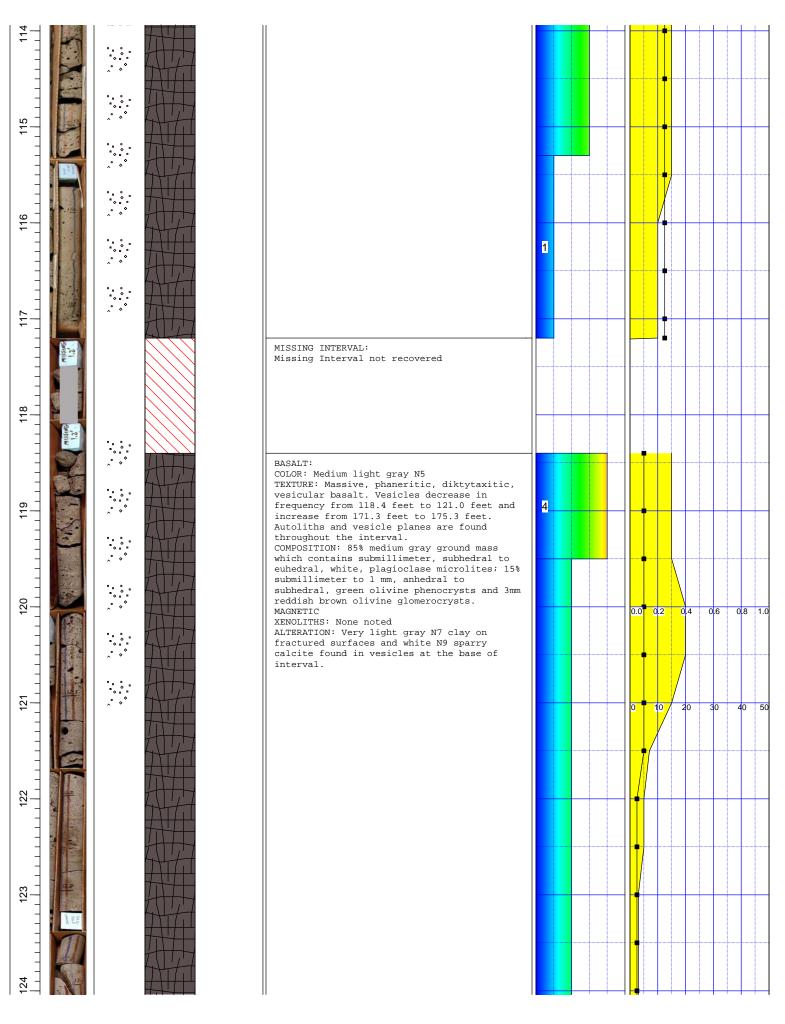






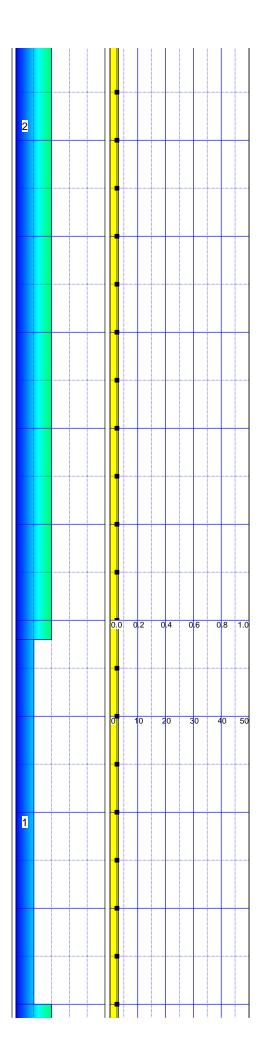






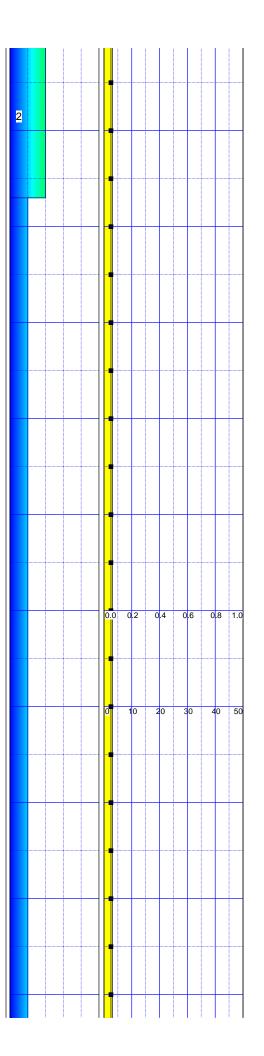






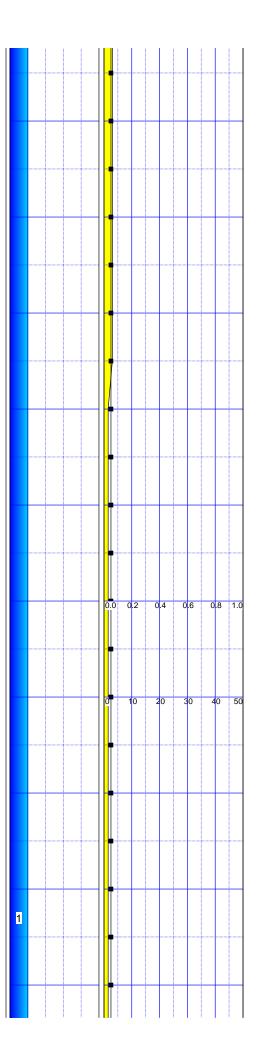






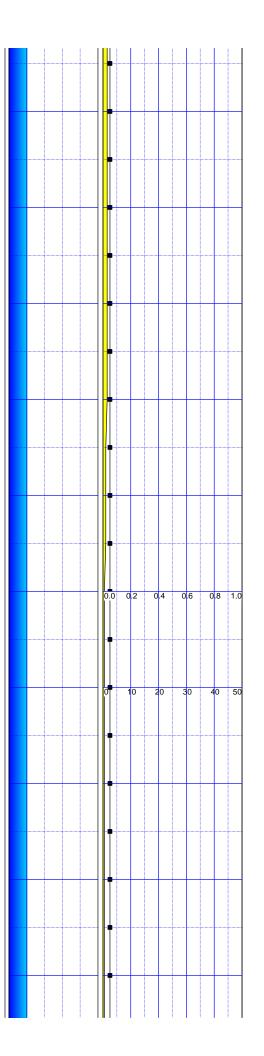


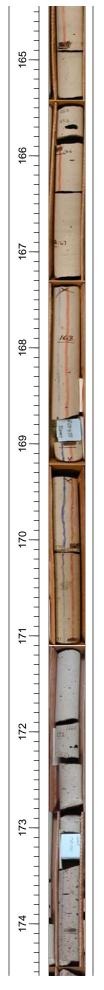






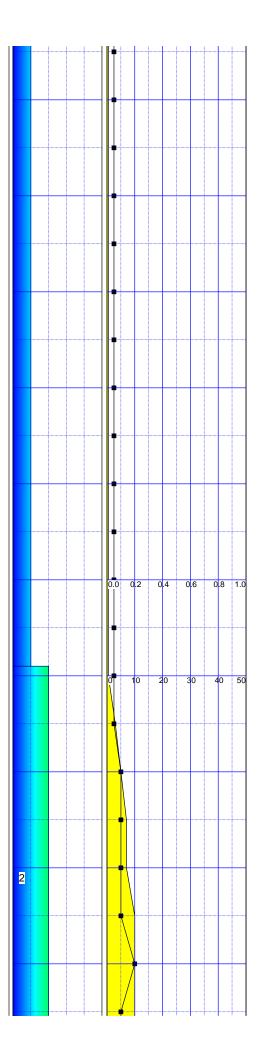








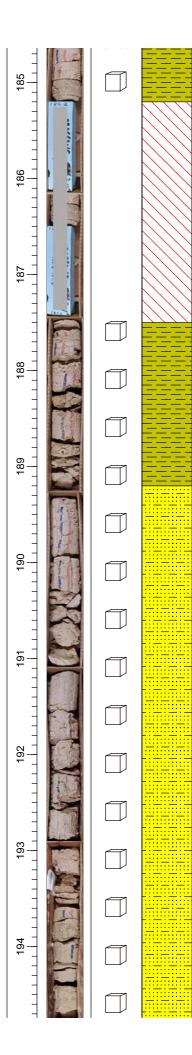




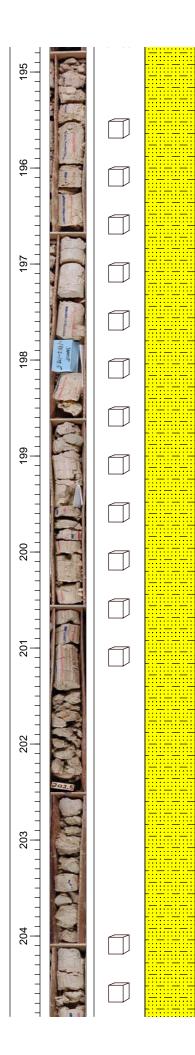
SANDS WITH FINES: TEXTURE: Sands with silt fines, USCS Classification SM. Sediment consists of sands with silt fines and fines up. The interval has a baked contact with the 176 overlying basalt COLOR: Moderate orange pink 5 YR 8/4 CONSISTENCE: Firm to friable STRUCTURES: Massive \_ FREE CARBONATES: Yes. White N9 calcite fills mud cracks and voids. ROCK: None noted ROOTS/FOSSILS: None noted 177 \_ 178 MISSING INTERVAL: Sediment not recovered 179 5 TTE ST 180 SANDS WITH FINES: 0.0 0.2 0.4 0.6 0.8 1.0 TEXTURE: Sands with silt fines, USCS Classification SM. Sediment consists of fine to very fine grained sands with silt that fines upward. Rounded pebbles are located at the base of the interval. COLOR: Grayish orange 10 YR 7/4 CONSISTENCE: Firm to friable STRUCTURES: Massive 18 FREE CARBONATES: Yes. 40 50 20 ROCK: Light brownish gray 5 YR 6/1, rounded, pebble sized quartzite at the base of interval. ROOTS/FOSSILS: None noted MISSING INTERVAL: Sediment not recovered 182 SILT AND CLAY: TEXTURE: Silt and clay, USCS Classification OH. Sediment is very fine grained and rounded pebbles are located throughout the 183 interval. COLOR: Grayish orange 10 YR 7/4 CONSISTENCE: Firm STRUCTURES: Massive FREE CARBONATES: Yes. ROCK: Light brownish gray 5 YR 6/1, rounded, pebble sized quartzite throughout the interval. ROOTS/FOSSILS: None noted 184

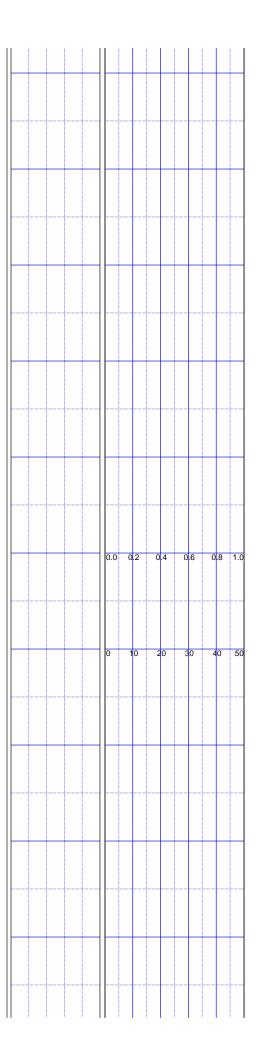
## Page 19 of 65

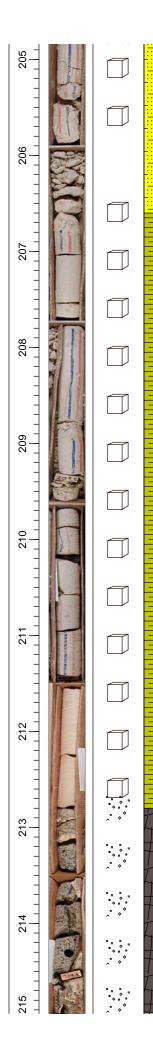
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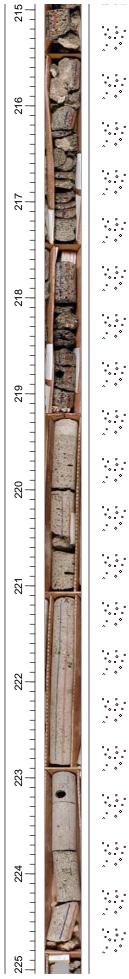
MISSING INTERVAL: Sediment not recovered						
Sediment not recovered						
SILT AND CLAY: TEXTURE: Silt and clay, USCS Classification OH. Rounded pebbles are located throughout the interval. COLOR: Grayish orange 10 YR 7/4						
CONSISTENCE: Firm STRUCTURES: Massive FREE CARBONATES: Yes.						
ROCK: Rounded, pebble sized quartzite throughout the interval. ROOTS/FOSSILS: None noted						
SANDS WITH FINES: TEXTURE: Sands with silt fines, USCS Classification SM. Sediment consists of coarse fine grained sands with silt that	-					
fines upward. COLOR: Yellowish gray 5 Y 8/1						
CONSISTENCE: Firm to Friable STRUCTURES: Massive		0.0 0	.2 0.4	0.6	0.8 1.	.0
CONSISTENCE: Firm to Friable		0.0 0	.2 0.4	0.6	0.8 1.	.0
CONSISTENCE: Firm to Friable STRUCTURES: Massive FREE CARBONATES: Yes. ROCK: None noted		0.0 0	.2 0.4	0.6	0.8 1.	.0
CONSISTENCE: Firm to Friable STRUCTURES: Massive FREE CARBONATES: Yes. ROCK: None noted			2 0.4 0 20	0.6	0.8 1. 40 5	
CONSISTENCE: Firm to Friable STRUCTURES: Massive FREE CARBONATES: Yes. ROCK: None noted						
CONSISTENCE: Firm to Friable STRUCTURES: Massive FREE CARBONATES: Yes. ROCK: None noted						
CONSISTENCE: Firm to Friable STRUCTURES: Massive FREE CARBONATES: Yes. ROCK: None noted						
CONSISTENCE: Firm to Friable STRUCTURES: Massive FREE CARBONATES: Yes. ROCK: None noted						
CONSISTENCE: Firm to Friable STRUCTURES: Massive FREE CARBONATES: Yes. ROCK: None noted						
CONSISTENCE: Firm to Friable STRUCTURES: Massive FREE CARBONATES: Yes. ROCK: None noted						
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CONSISTENCE: Firm to Friable STRUCTURES: Massive FREE CARBONATES: Yes. ROCK: None noted						
CONSISTENCE: Firm to Friable STRUCTURES: Massive FREE CARBONATES: Yes. ROCK: None noted						



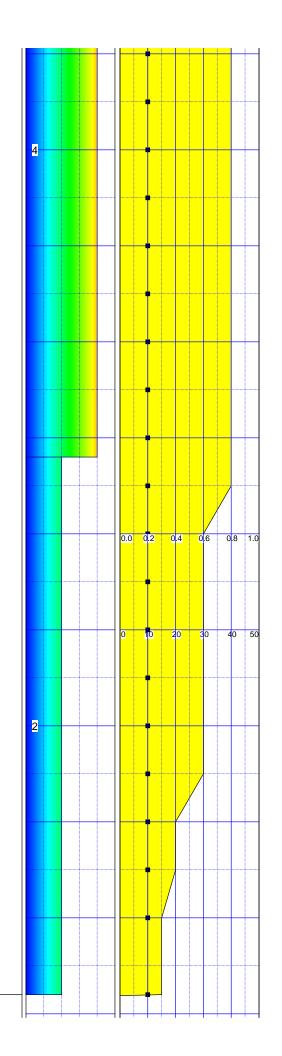




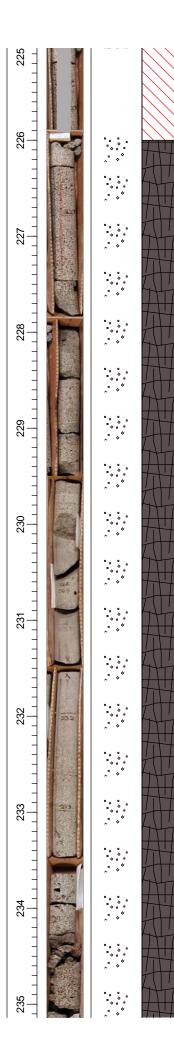
SILT AND CLAY: TEXTURE: Silt and clay, USCS Classification OH.	
COLOR: Yellowish gray 5 Y 8/1 CONSISTENCE: Firm STRUCTURES: Massive FREE CARBONATES: Yes. ROCK: None noted	
ROOTS/FOSSILS: None noted	
	0.0 0.2 0.4 0.6 0.8 1.0
	0 10 20 30 40 50
BASALT: COLOR: Medium light gray N5 TEXTURE: Phaneritic, diktytaxitic, vesicular	
<pre>basalt. COMPOSITION: 25% medium gray ground mass, 65% 1mm to 5mm, subhedral to euhedral, white, plagioclase phenocrysts; 15% submillimeter to 1 mm, anhedral to subhedral, green olivine phenocrysts. MAGNETIC</pre>	
XENOLITHS: None noted ALTERATION: Vesicle walls have iron staining and olivine is weakly altered to iddingsite.	





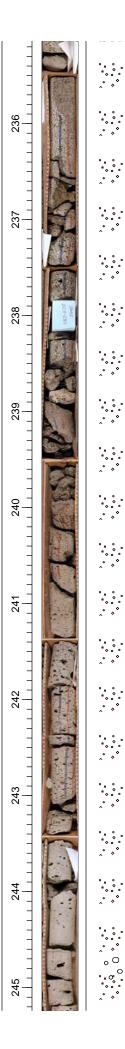


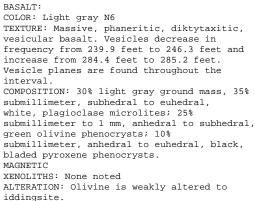
MISSING INTERVAL: Rubble zone not recovered

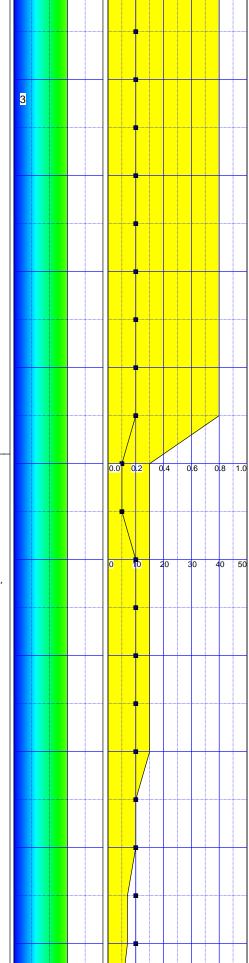


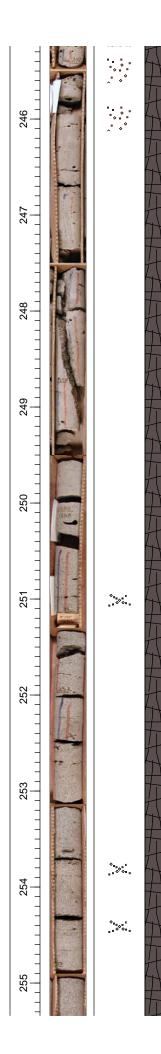
Page 24 of 65		
		ī
BASALT:		_
COLOR: Medium light gray N5 TEXTURE: Phaneritic, diktytaxitic, vesicular basalt. COMPOSITION: 25% medium gray ground mass, 65% 1 mm to 5 mm, subhedral to euhedral, white, plagioclase phenocrysts; 15%		
submillimeter to 1mm, anhedral to subhedral, green olivine phenocrysts. MAGNETIC XENOLITHS: None noted ALTERATION: Vesicle walls have iron staining		
and olivine is weakly altered to iddingsite.		
	<b>│</b>	
		1.0
	0 70 20 30 40	50
		_
		_

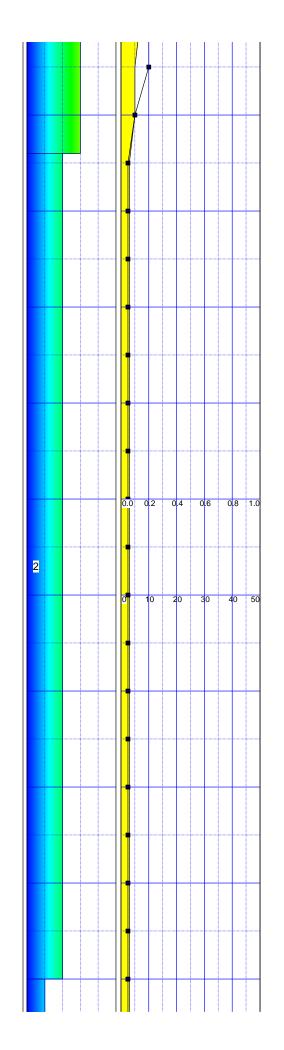
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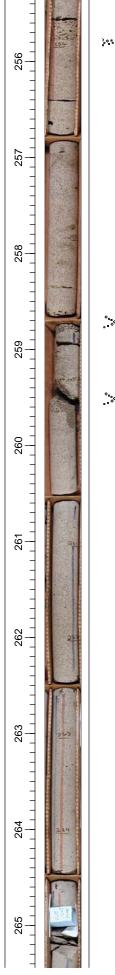




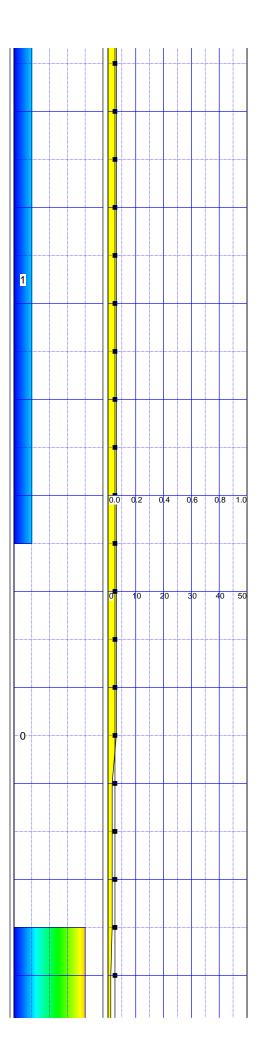






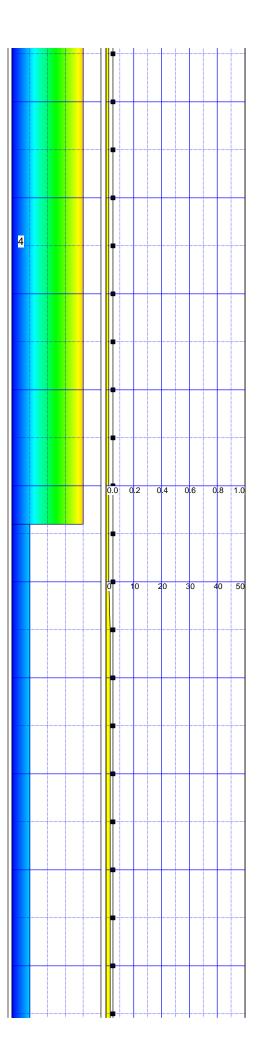






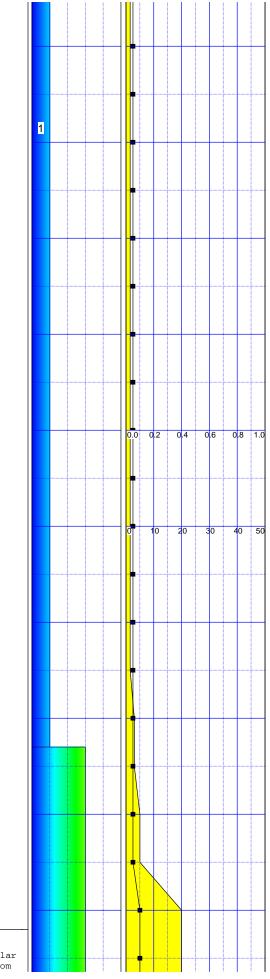




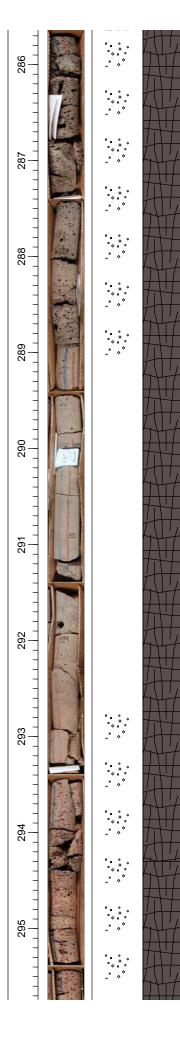


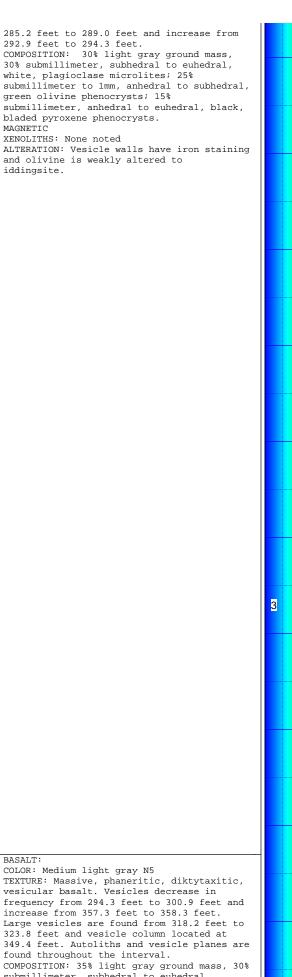




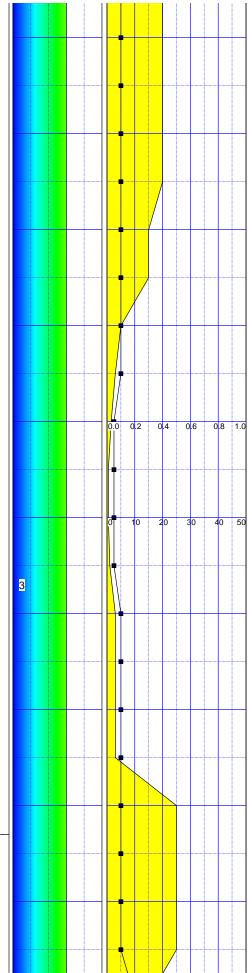


BASALT: COLOR: Medium light gray N5 TEXTURE: Phaneritic, diktytaxitic, vesicular basalt. Vesicles decrease in frequency from

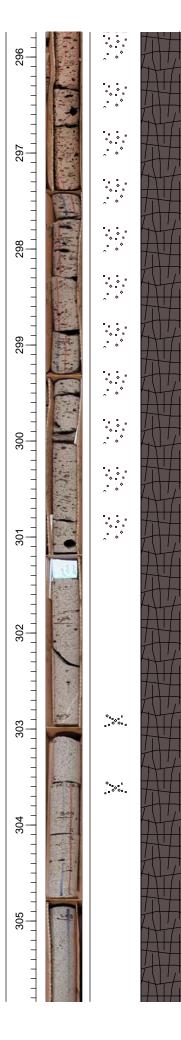




submillimeter, subhedral to euhedral, white, plagioclase microlites; 20%

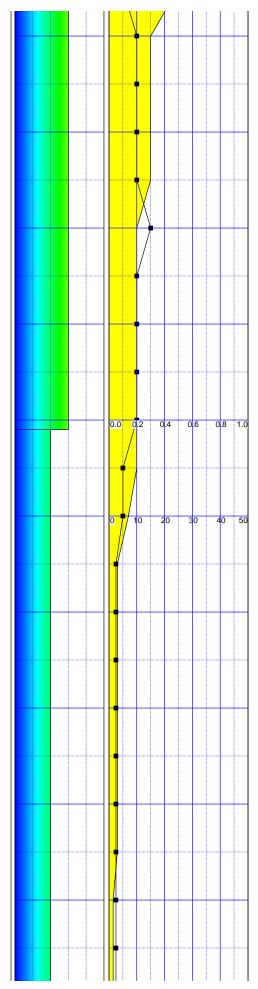


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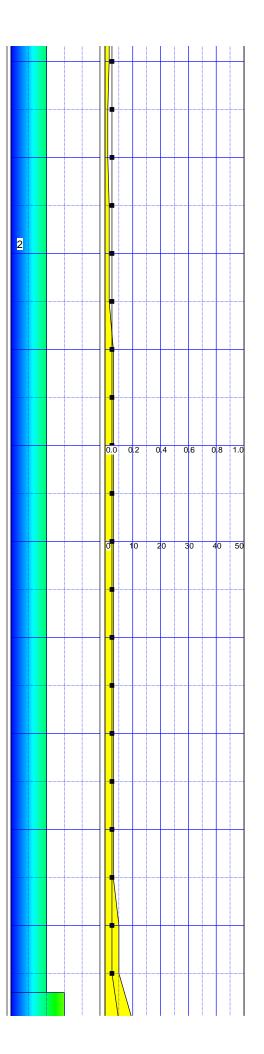


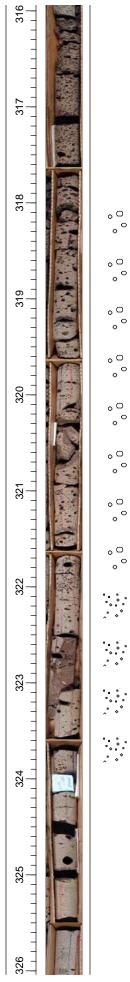
submillimeter to 1mm, anhedral to subhedral, green olivine phenocrysts; 15% submillimeter, anhedral to euhedral, black, bladed pyroxene phenocrysts. MAGNETIC XENOLITHS: None noted ALTERATION: Olivine is weakly altered to iddingsite.



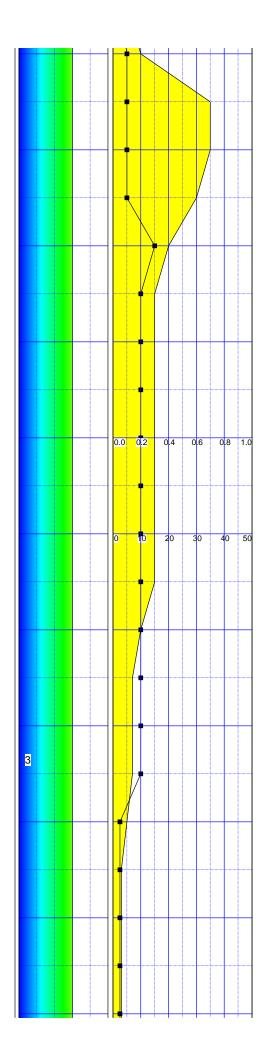


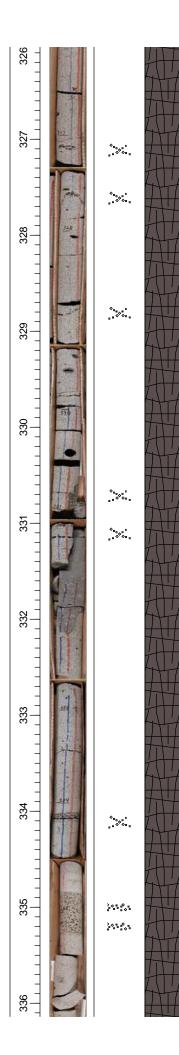


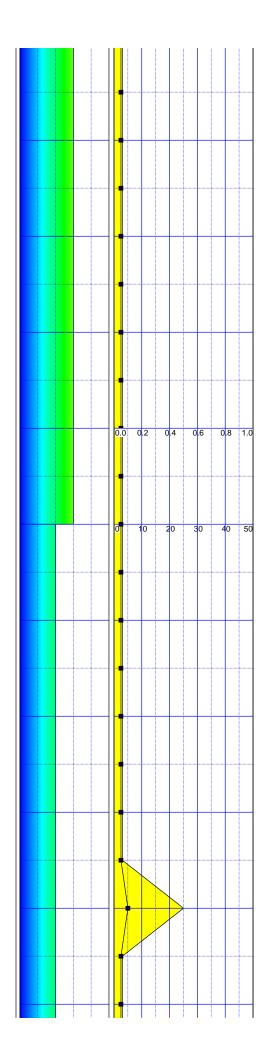


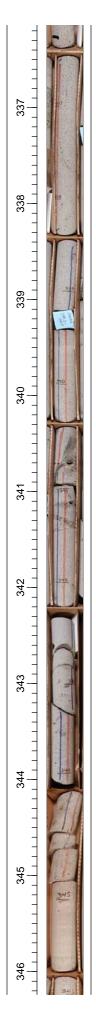




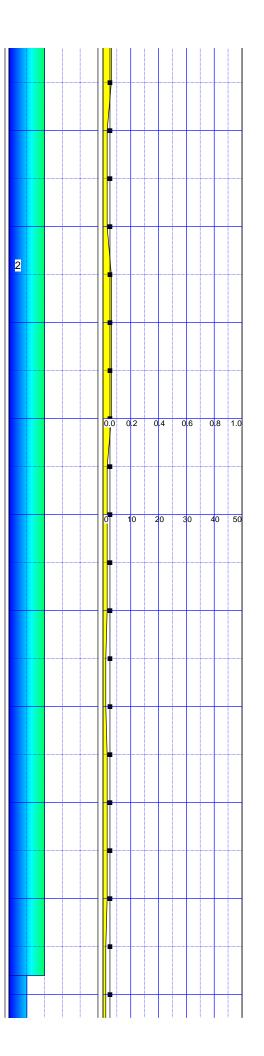








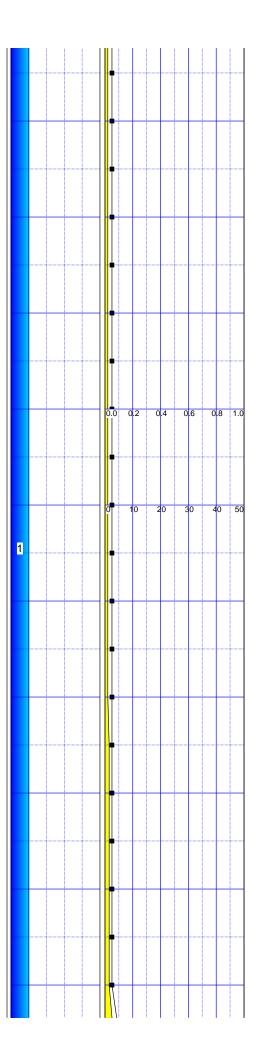


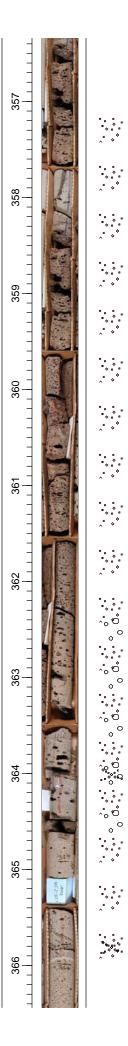






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### BASALT:

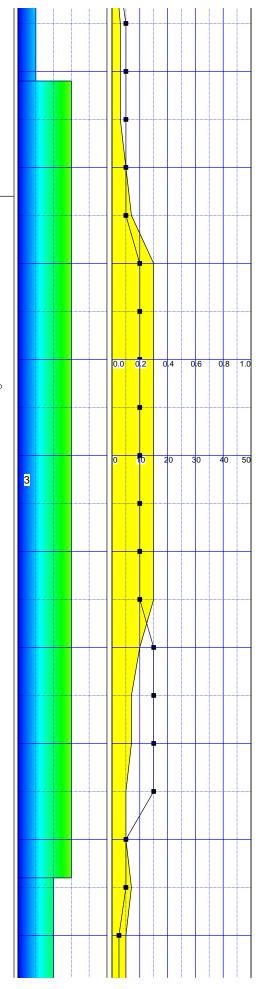
#### COLOR: Medium gray N4

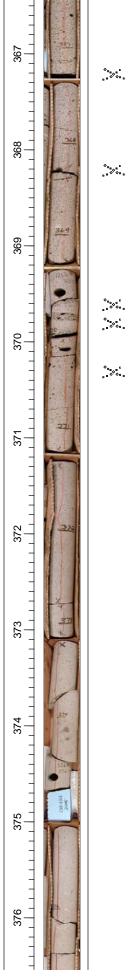
TEXTURE: Massive, phaneritic, diktytaxitic, vesicular basalt. Vesicles decrease in frequency from 358.3 feet to 365.8 feet and increase from 397.3 feet to 398.1 feet. Vesicle Zone found from 385.6 feet to 393.9 feet. Vesicle planes are found throughout the interval.

COMPOSITION: 15% medium gray ground mass; 40% submillimeter, subhedral to euhedral, white, plagioclase microlites; 35% submillimeter to 2 mm, subhedral, green olivine phenocrysts and glomerocrysts; 10% submillimeter, anhedral, black, pyroxene. MAGNETIC

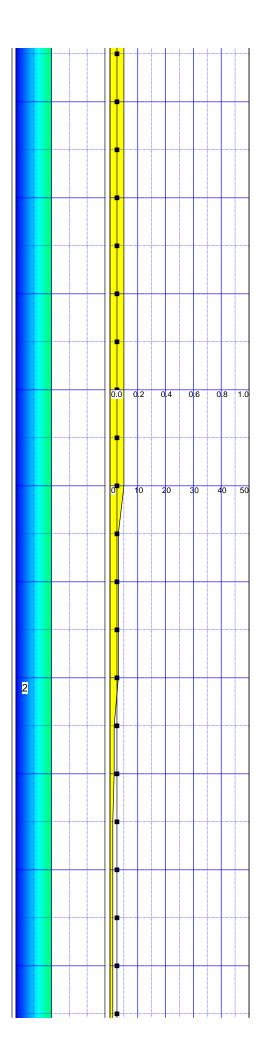
## XENOLITHS: None noted

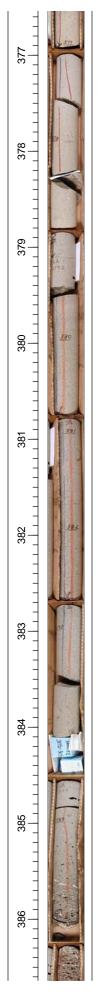
ALTERATION: Olivine is moderately altered to iddingsite. Fractures and vesicles are filled to partially filled with white N9 calcite.







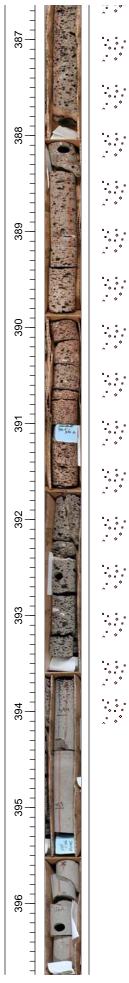




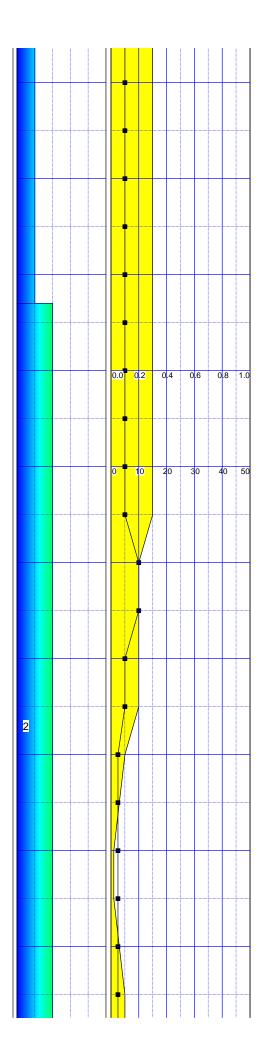


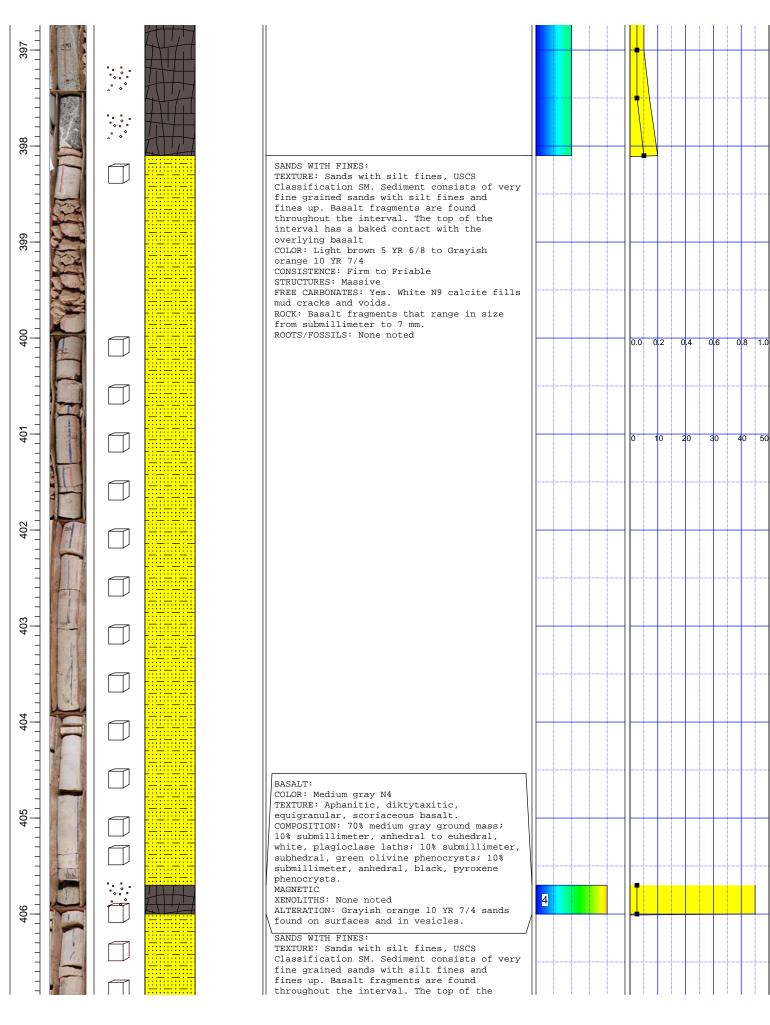


0.0 0.2 0.4	0.6 0.8 1.0
0 10 20	30 40 50





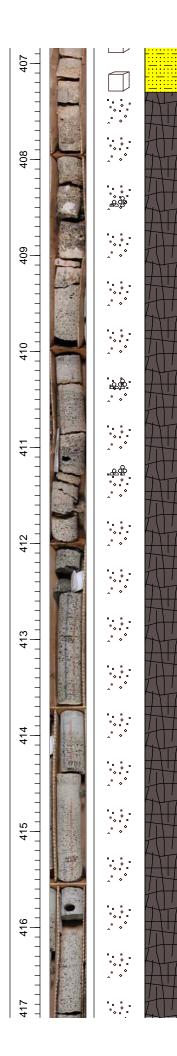




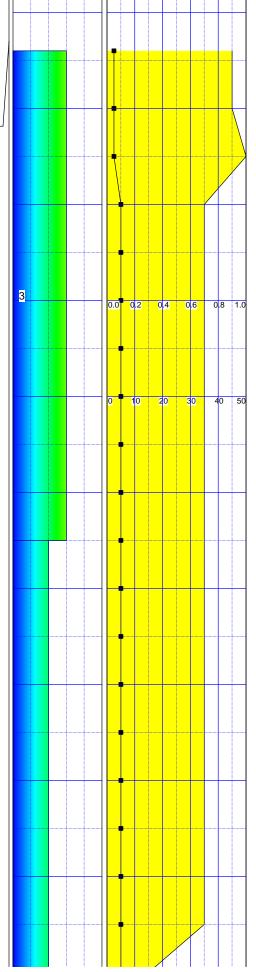
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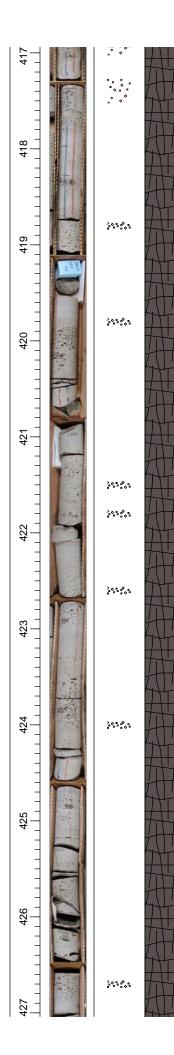
interval has a baked contact with the

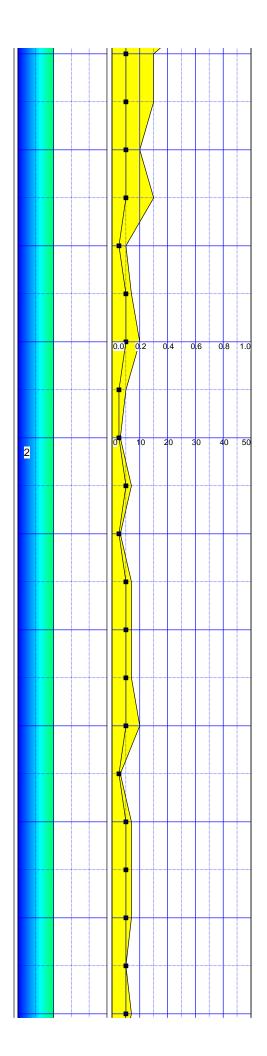
overlying basalt

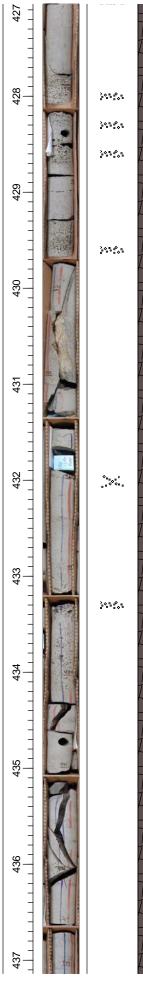


COLOR: Light brown 5 YR 6/8 to Grayish orange 10 YR 7/4 CONSISTENCE: Firm to Friable STRUCTURES: Massive FREE CARBONATES: Yes. White N9 calcite fills mud cracks and voids. ROCK: Basalt fragments that range in size from submillimeter to 7 mm. ROOTS/FOSSILS: None noted BASALT: COLOR: Medium gray N4 TEXTURE: Aphanitic, diktytaxitic, equigranular, vesicular basalt. Vesicles decrease in frequency from 407.4 feet to 417.5 feet and increase from 471.6 feet to 473.5 feet. Spatter is found near the top of the interval. Vesicle zones and autoliths found throughout the interval. COMPOSITION: 55% medium gray ground mass containing submillimeter, subhedral to euhedral, white plagioclase microlites; 20% submillimeter, subhedral to euhedral, white plagioclase phenocrysts; 15% submillimeter, subhedral, green olivine phenocrysts; 10% submillimeter, anhedral to subhedral, black pyroxene phenocrysts. MAGNETIC XENOLITHS: None noted ALTERATION: Yellowish gray 5 Y 7/2 calcareous clay on fractured surfaces and in vesicles

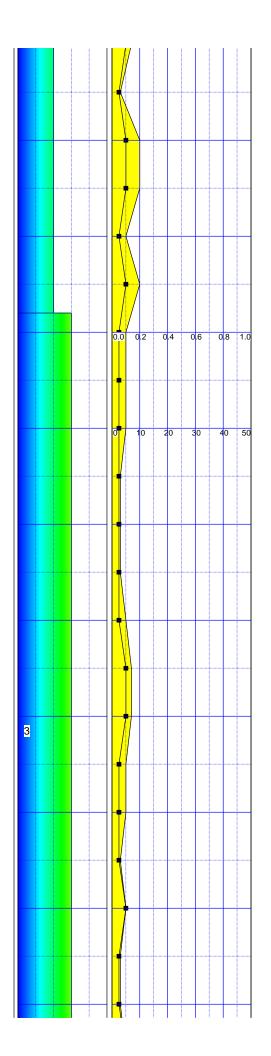


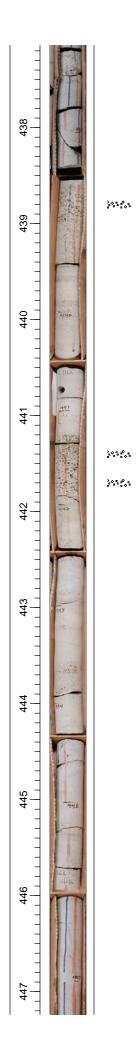


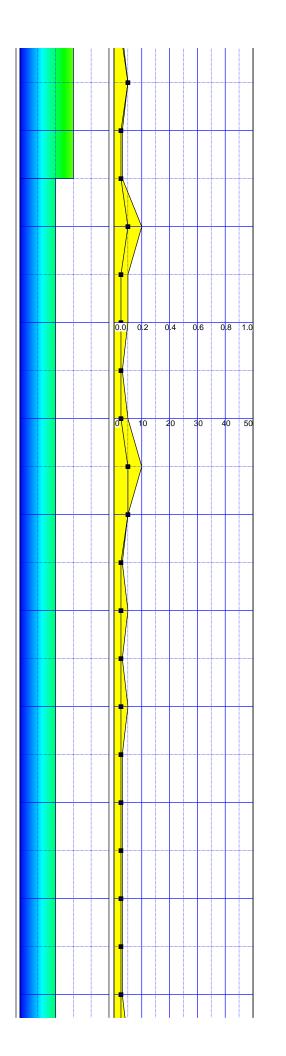






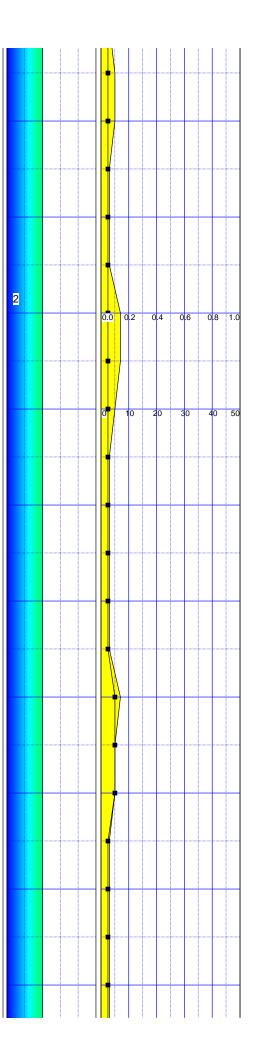






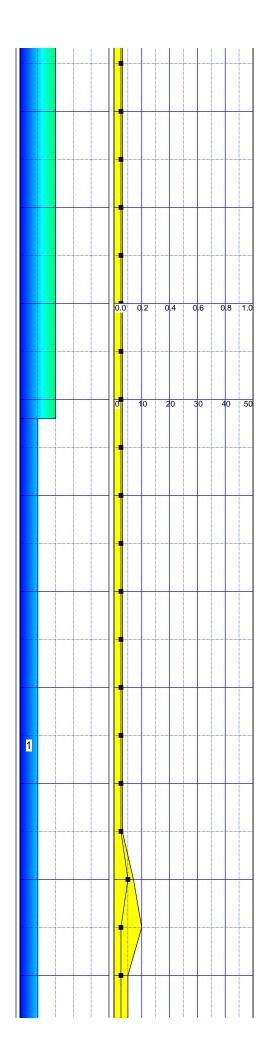




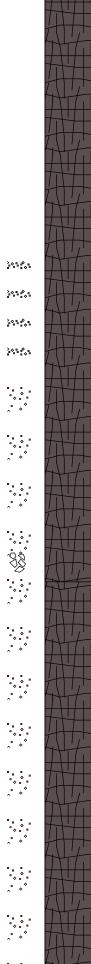










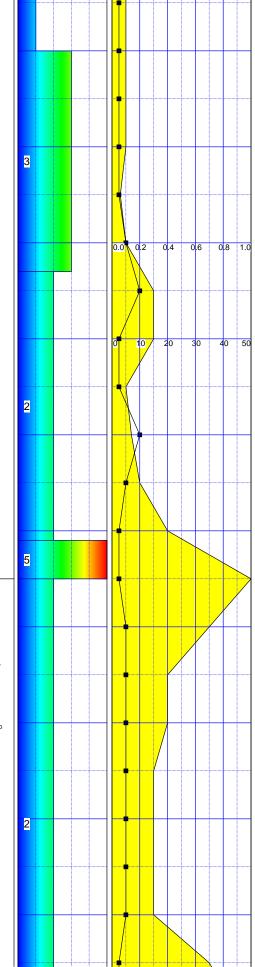


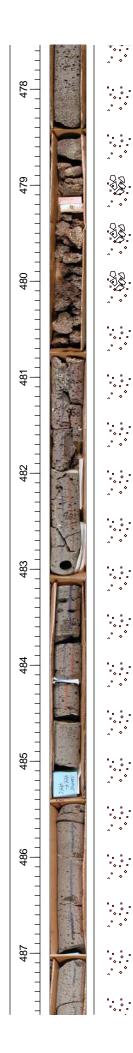
#### BASALT: COLOR: Medium gray N4 TEXTURE: Aphanitic, diktytaxitic, equigranular, vesicular basalt. Scoriaceous basalt found at the base of the interval.

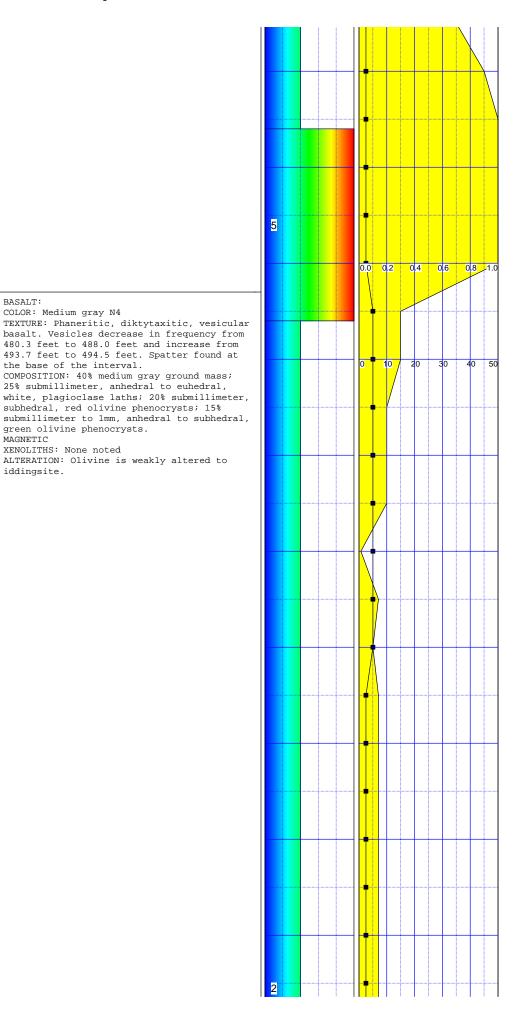
COMPOSITION: 70% medium gray ground mass; 15% submillimeter, anhedral to euhedral, white, plagioclase laths; 10% submillimeter, subhedral, red olivine phenocrysts; 5% submillimeter, anhedral to subhedral, green olivine phenocrysts. MAGNETIC

# XENOLITHS: None noted

ALTERATION: Olivine is moderately altered to iddingsite.







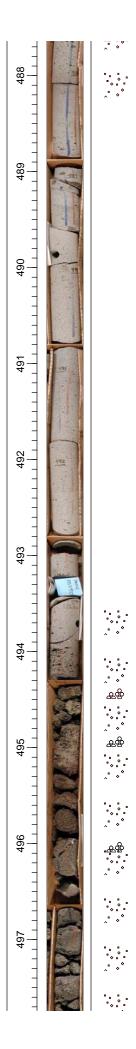
BASALT:

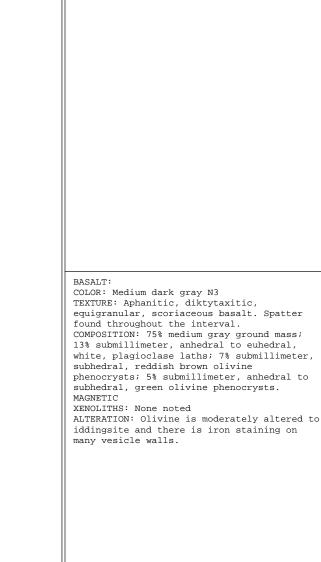
MAGNETIC

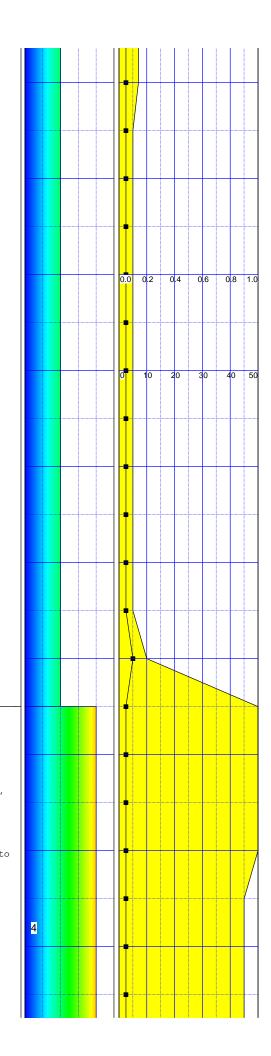
iddingsite.

COLOR: Medium gray N4

XENOLITHS: None noted







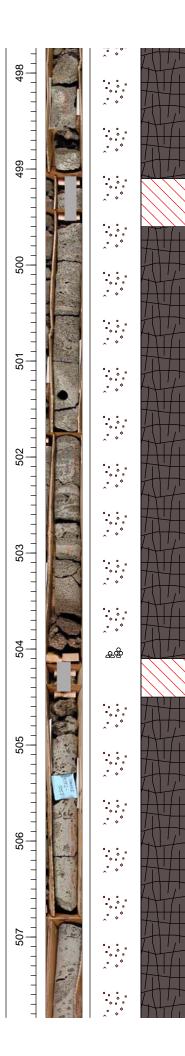
BASALT:

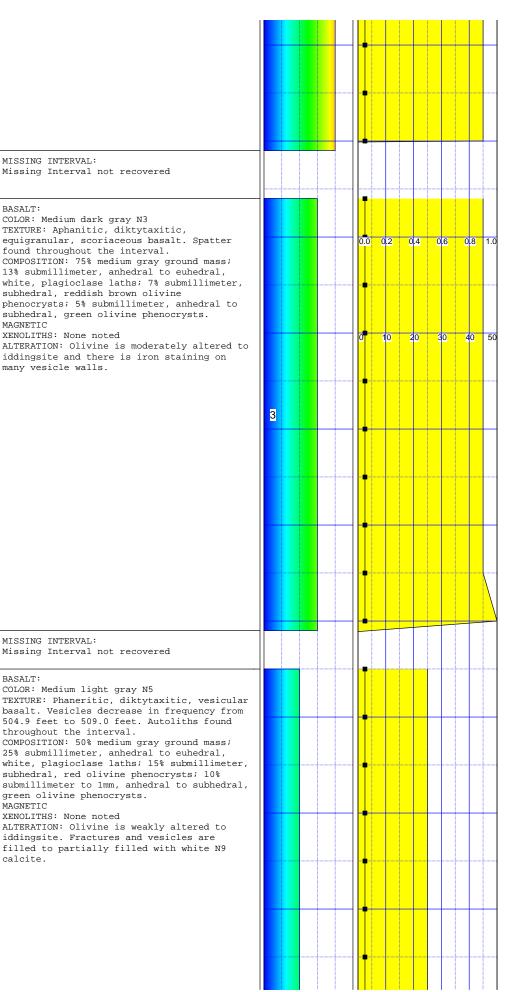
MAGNETIC

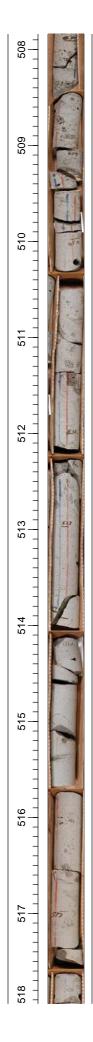
BASALT:

MAGNETIC

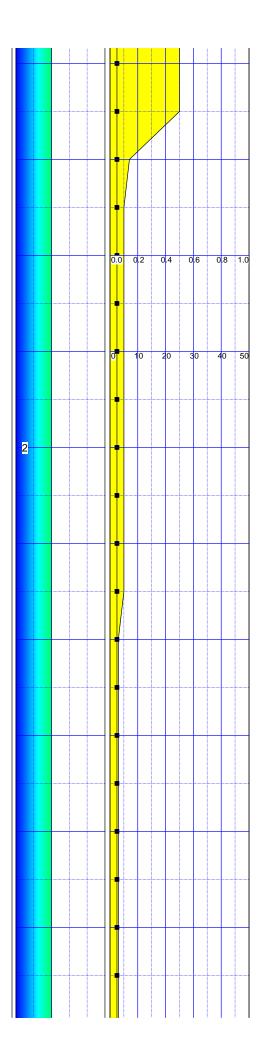
calcite.

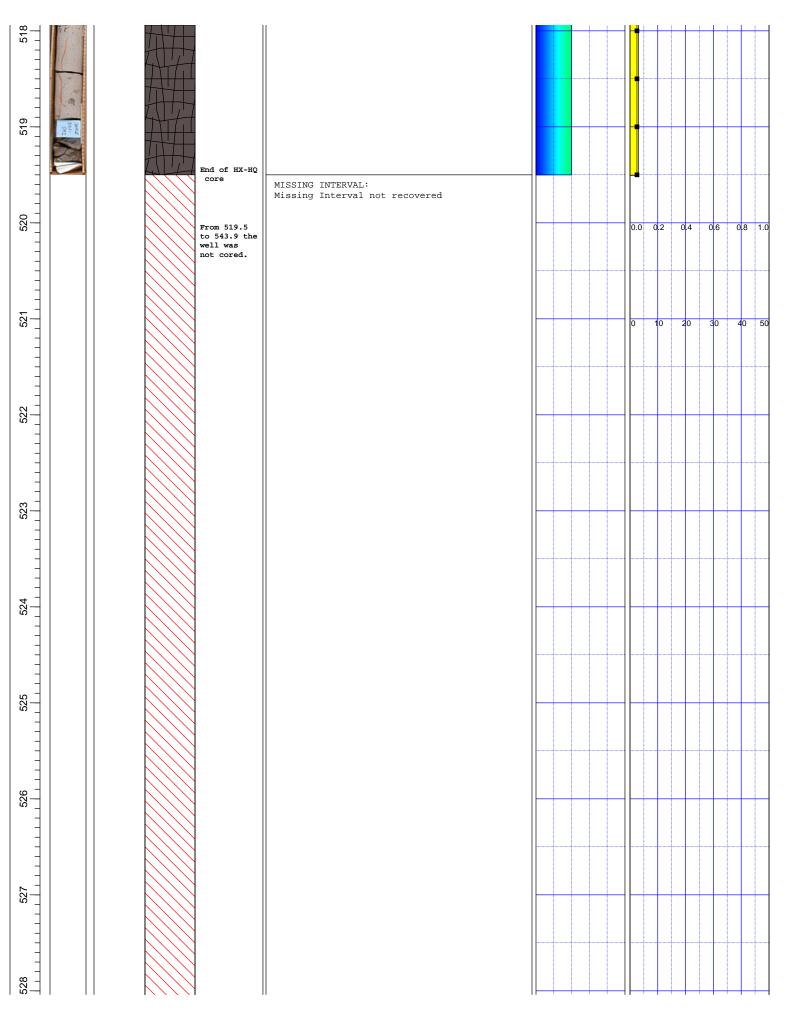


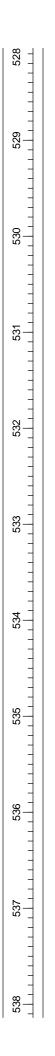




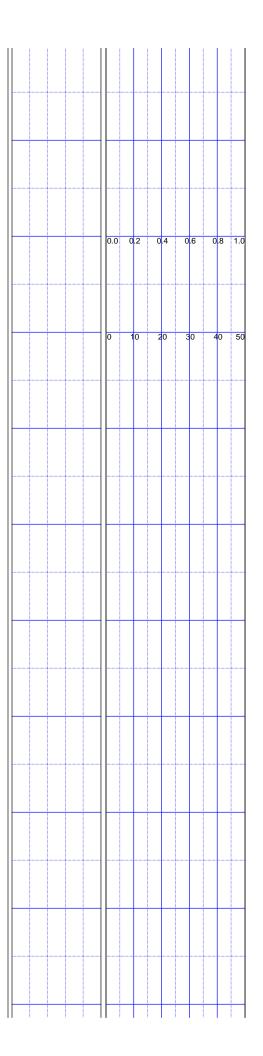


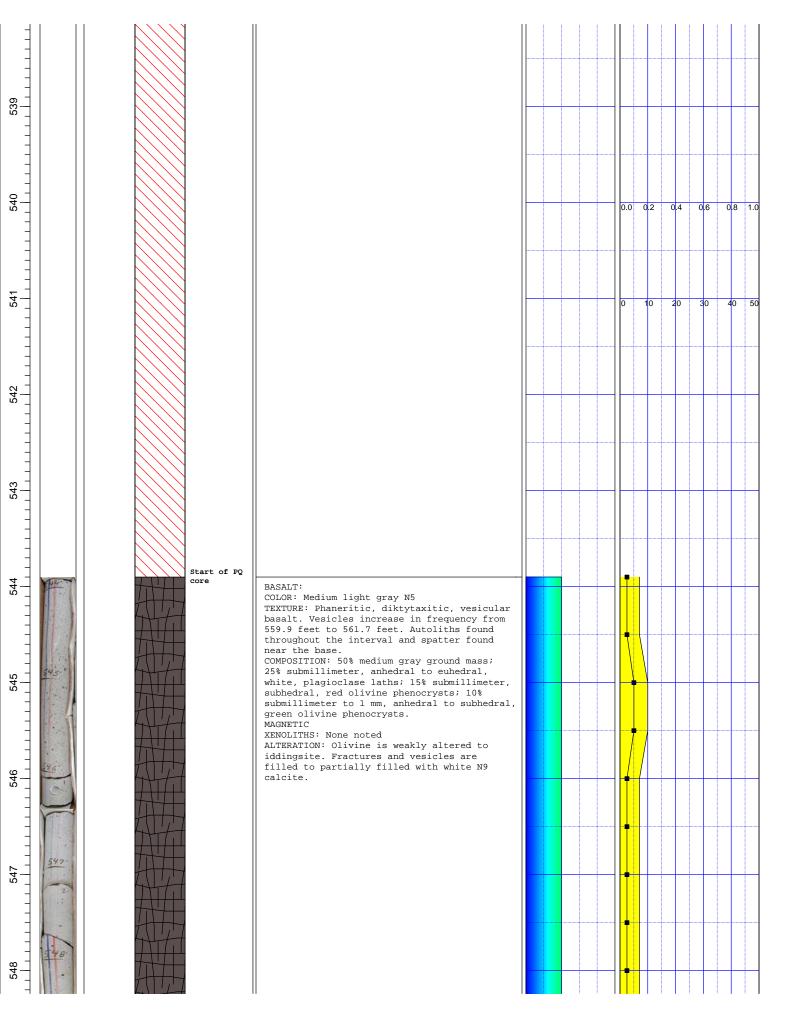


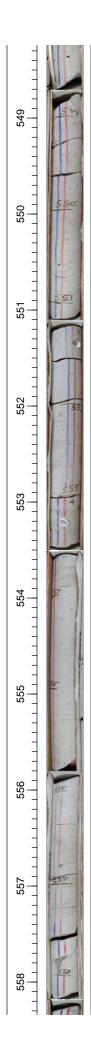




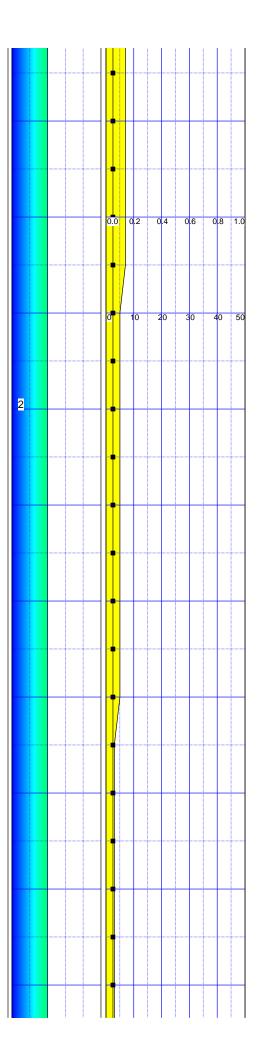


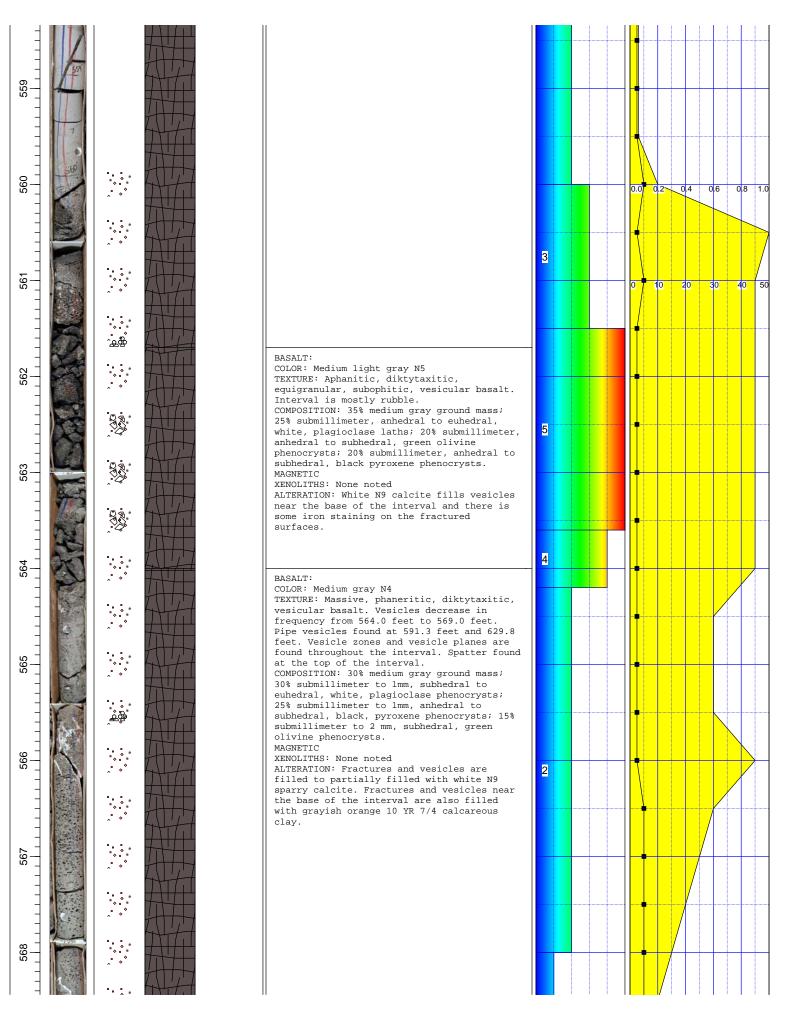


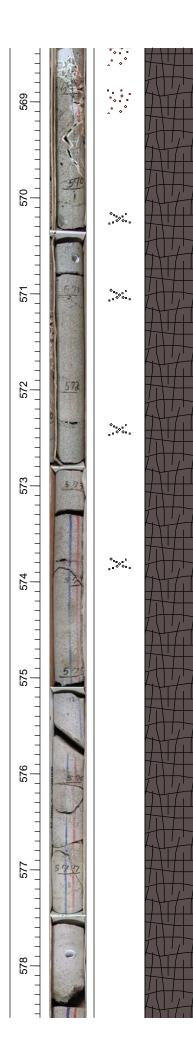


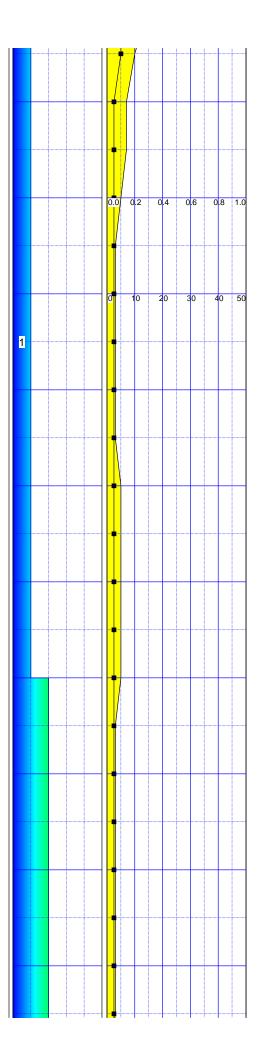




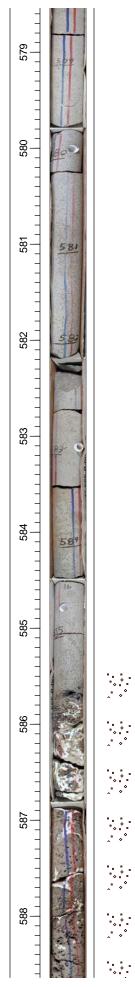




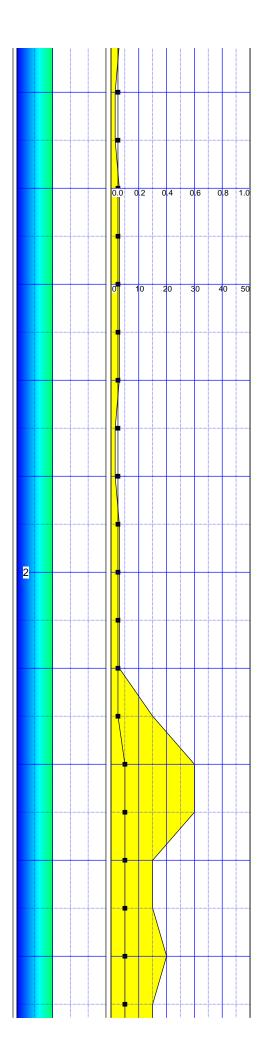


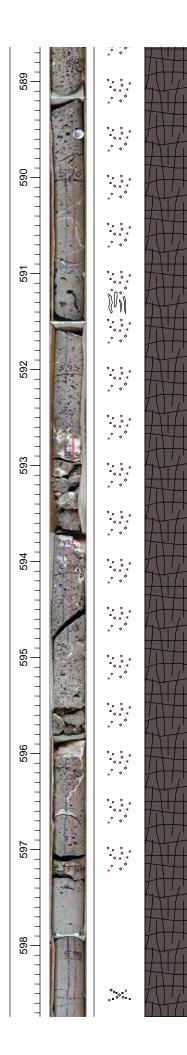


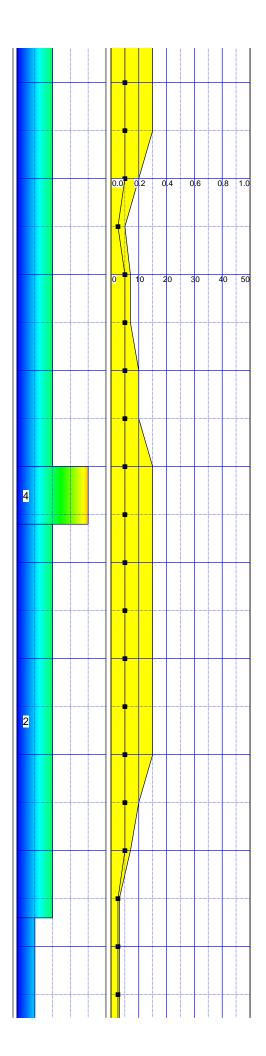
Drilling cement partially fills fracture.

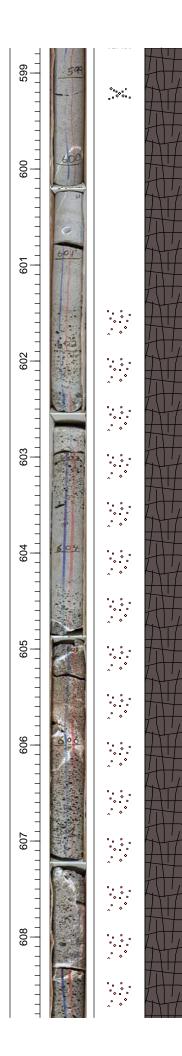


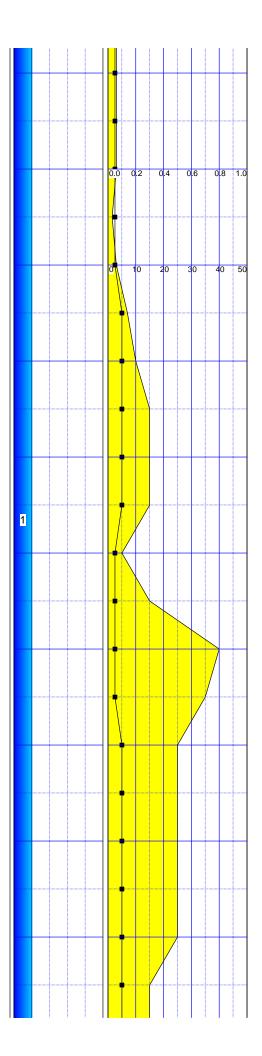


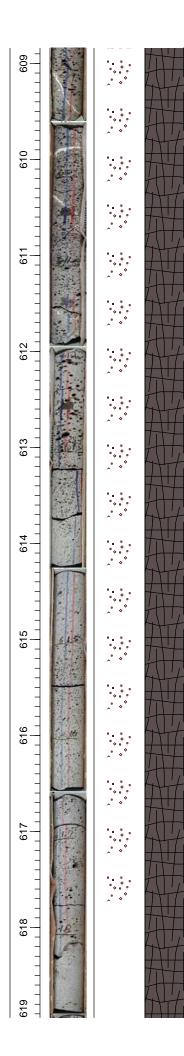


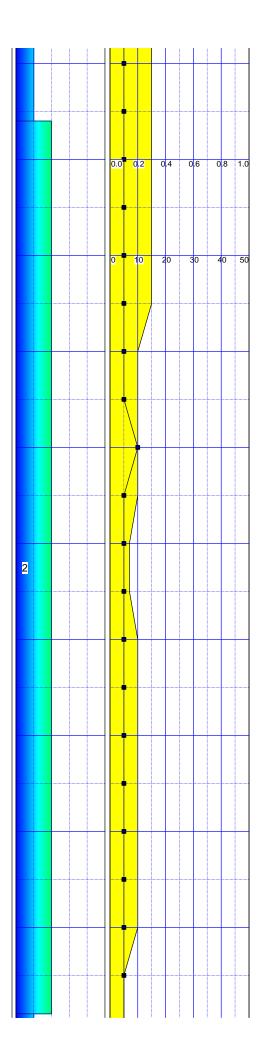


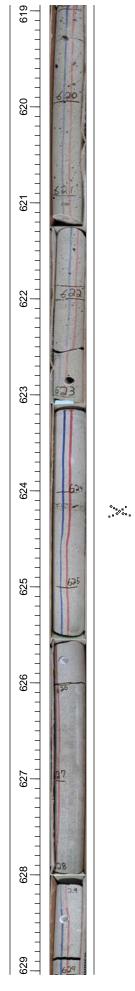




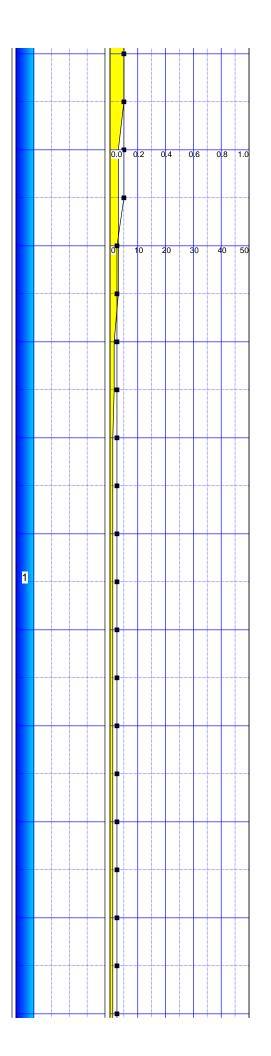


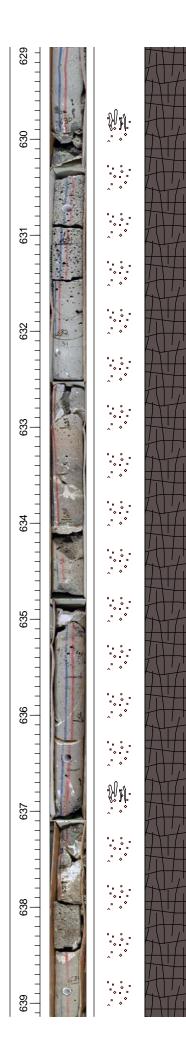


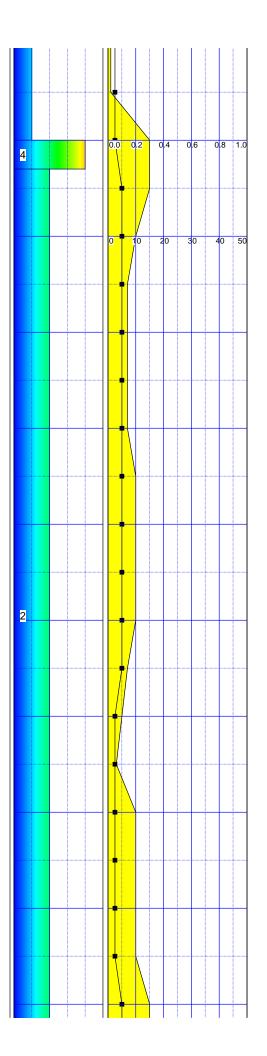


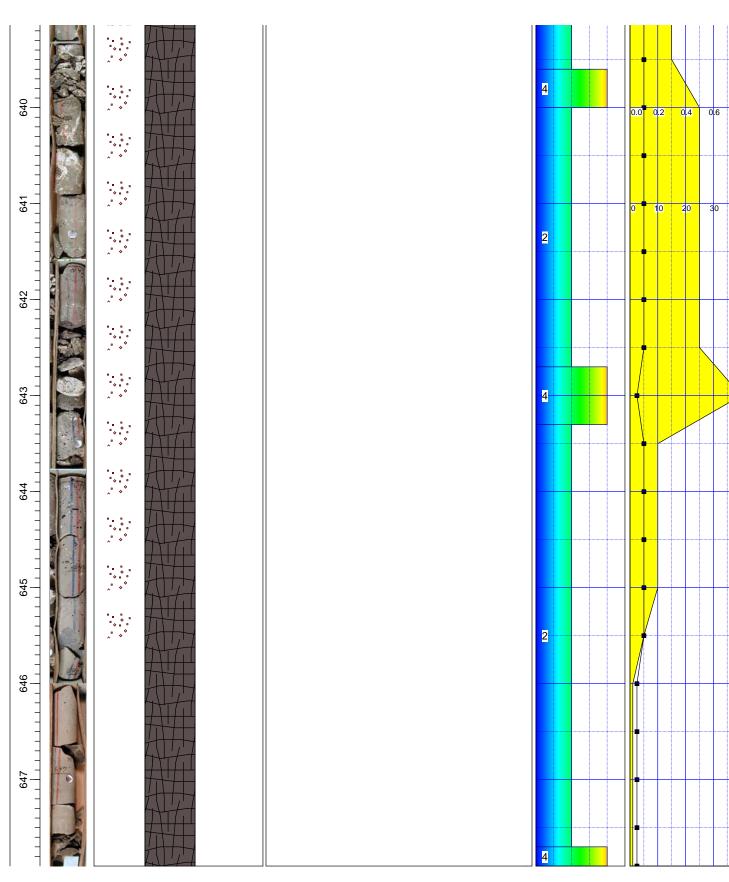












0.8 1.0

40 50