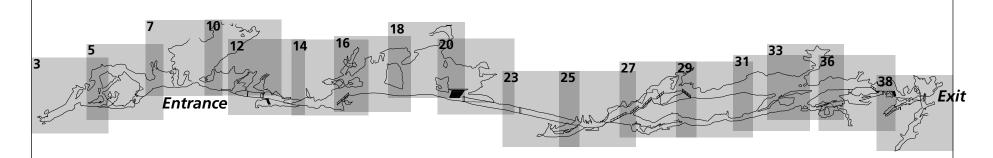
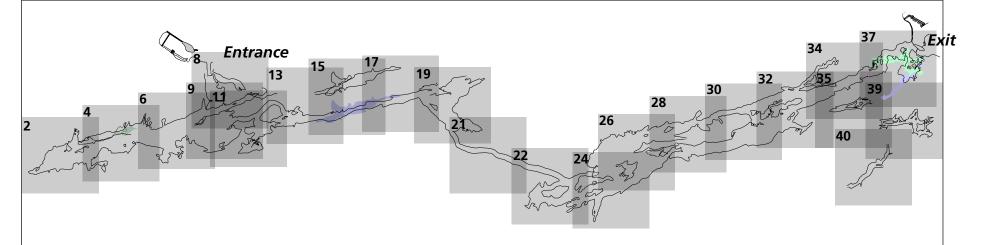
TIMPANOGOS CAVE ATLAS **Brandon Kowallis** Utah County, Utah **Cover Photo by Jon Jasper**

Profile View North

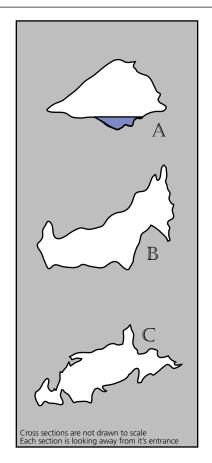


Plan View



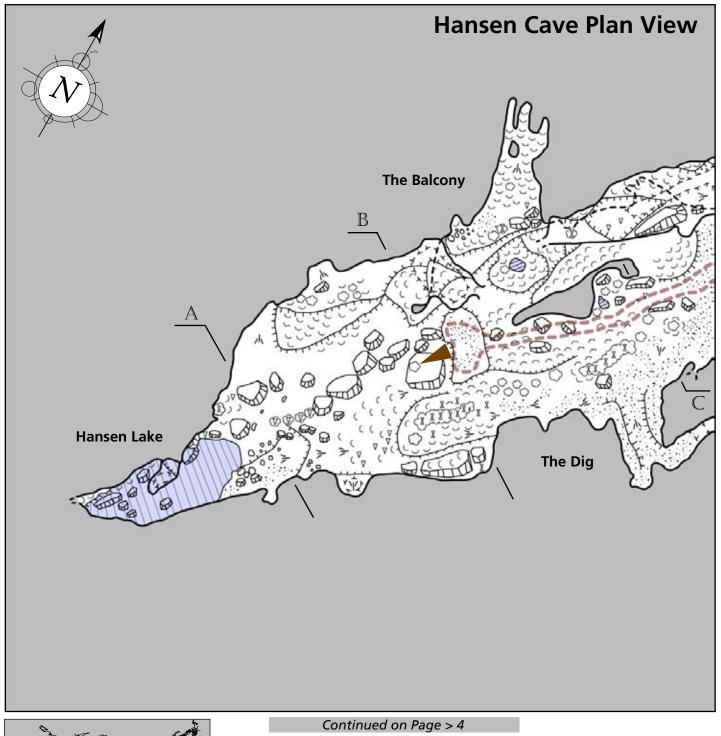
This atlas has been created from the full scale map of the Timpanogos Cave System in order to provide a quick and easy to use reference guide of the cave for resource management and maintenance purposes, as well as to help answer questions regarding the behavior of the many restricted areas. It is not to be used as a navigation guide for recreational caving. Never venture off the main trail unless you have a good reason that is both approved by the Monument Supervisors and beneficial to the cave.

E ach gray square quadrant above is numbered according to a page in the atlas. The plan view is a birds-eye view and the profile view is a side view. Each page contains the expanded section of the map, a photograph of the area, a scale bar, a north arrow for plan view sections, a small map showing the quadrant you are viewing, and a legend explaining the symbols used throughout the atlas. The Timpanogos Cave System was surveyed by Rodney D. Horrocks from 1991 to 1993 and the map was created, designed, and drafted during the summer of 2003 by Brandon K. Kowallis.





Resource Management stands at the back of Hansen Lake during low water levels. NPS Photo





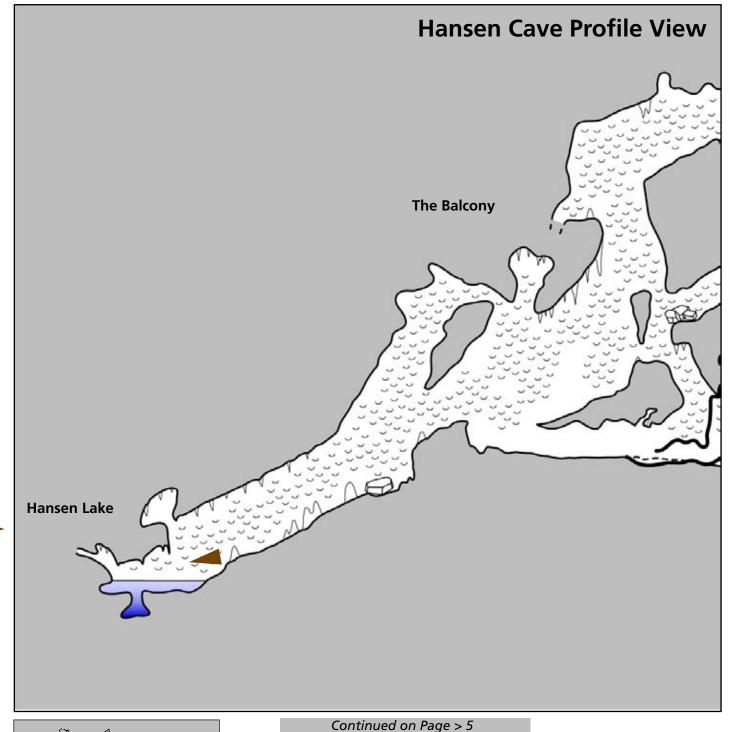




Flowstone	U
Ledge	K
Stalactite	∇
Stalagmite	0
Helictite	3
Pool	
Main Trail	~
Intro to Caving Trail	明治立
Rocks	.00
Boulders	@
Slope	人
Pit	3
Column	X
Ceiling Ledge	17 کرد _د
Ceiling Dome	۲ ₄ ۲
Silt	99



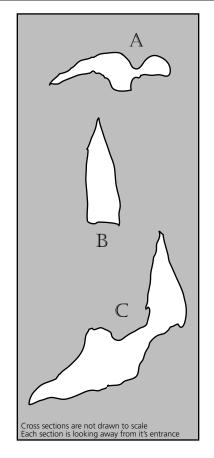
Hansen Lake at high levels. NPS Photo.

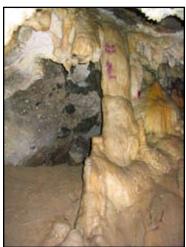




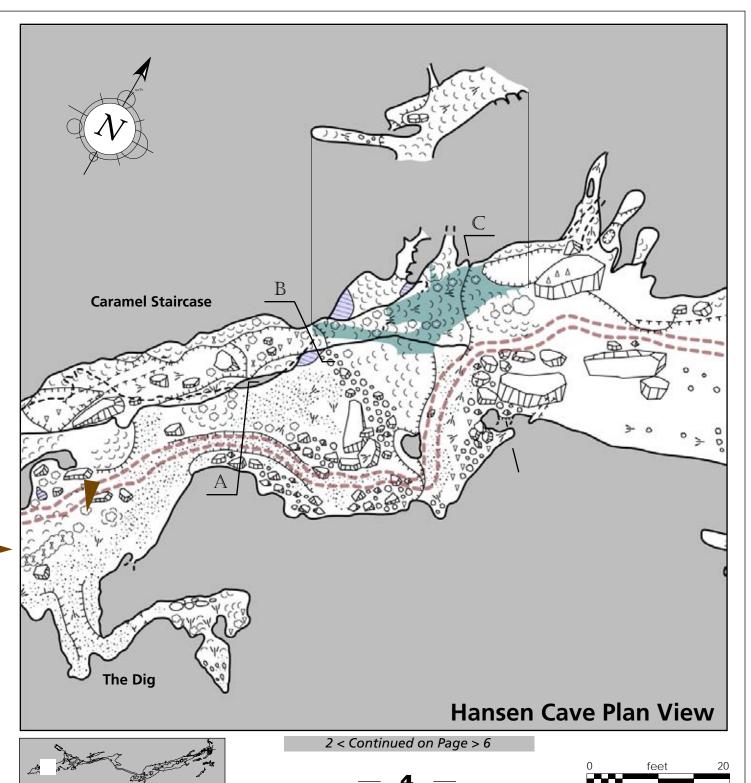








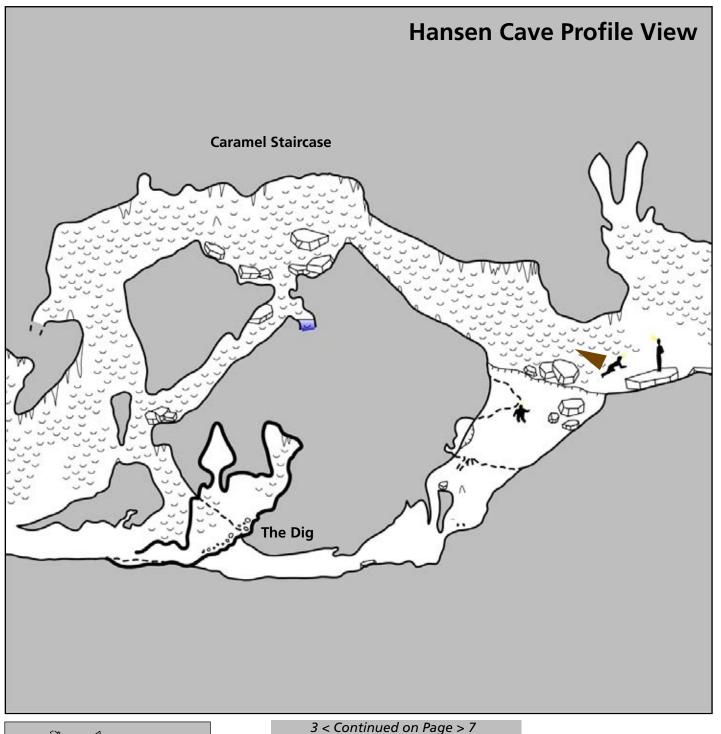
Just behind these columns is where The Dig area is located. Rod Horrocks dug this out during the 1990's cave survey. NPS Photo.



Flowstone	U
Ledge	Kr
Stalactite	∇
Stalagmite	0
Helictite	3
Pool	
Main Trail	~
Intro to Caving Trail	FF No. 2
Rocks	్యిర్తి
Boulders	
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Column	X
Ceiling Ledge	17 کرد پ
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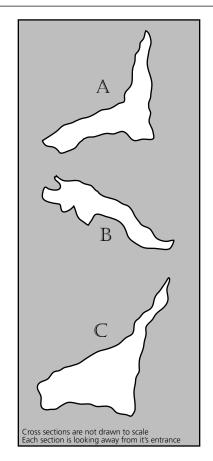


A view up into the Caramel Staircase as seen from the Introduction to Caving trail. NPS Photo.



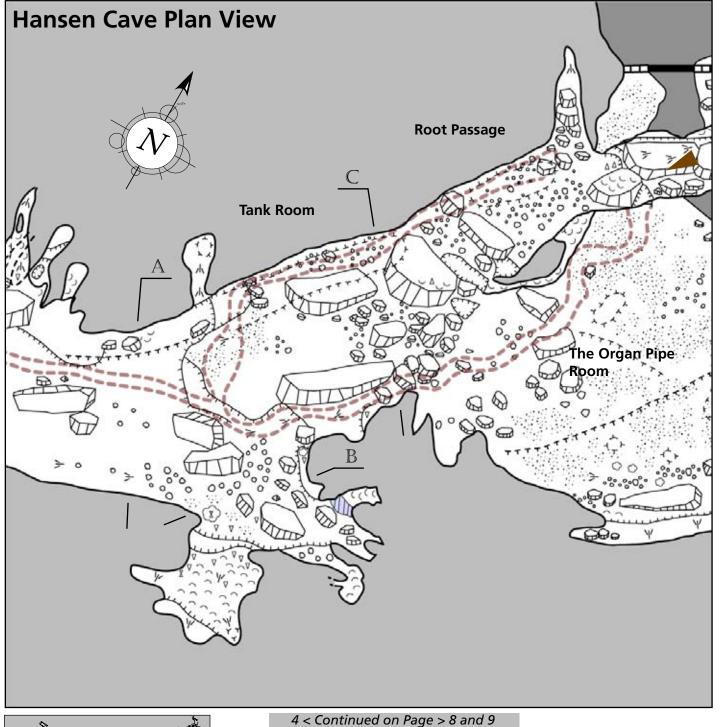








Jon Jasper navigates through a section of the Root Passage. NPS Photo.



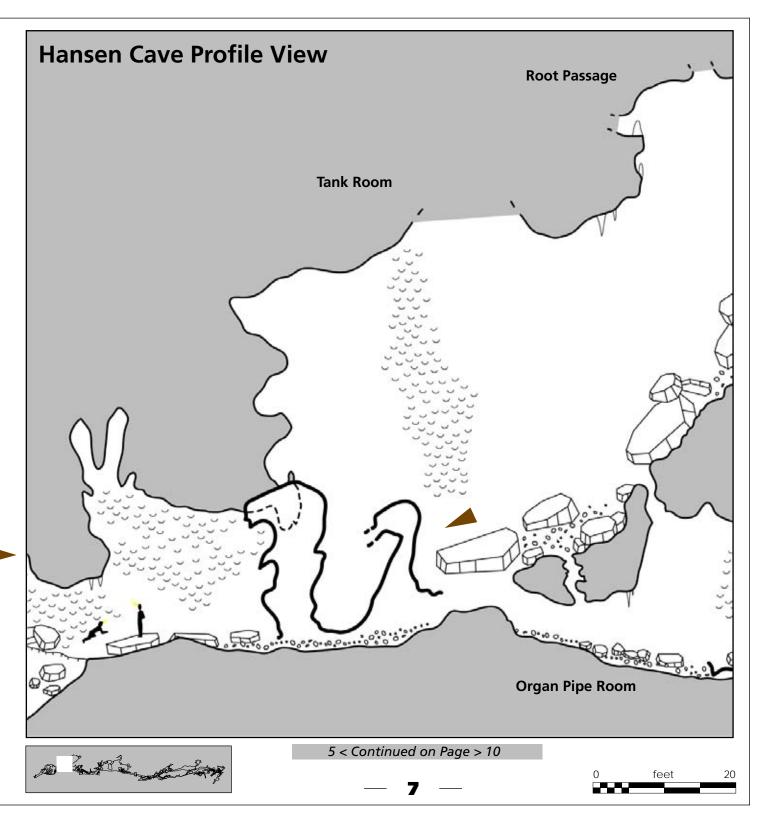


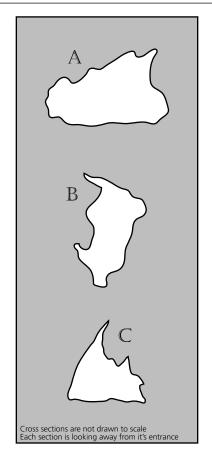


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Flowstone	\cup
Ledge	Kr
Stalactite	∇
Stalagmite	0
Helictite	3
Pool	
Main Trail	~
Intro to Caving Trail	TO THE REAL PROPERTY.
Rocks	·\$0
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Column	X
Ceiling Ledge	777,7
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Silt	100



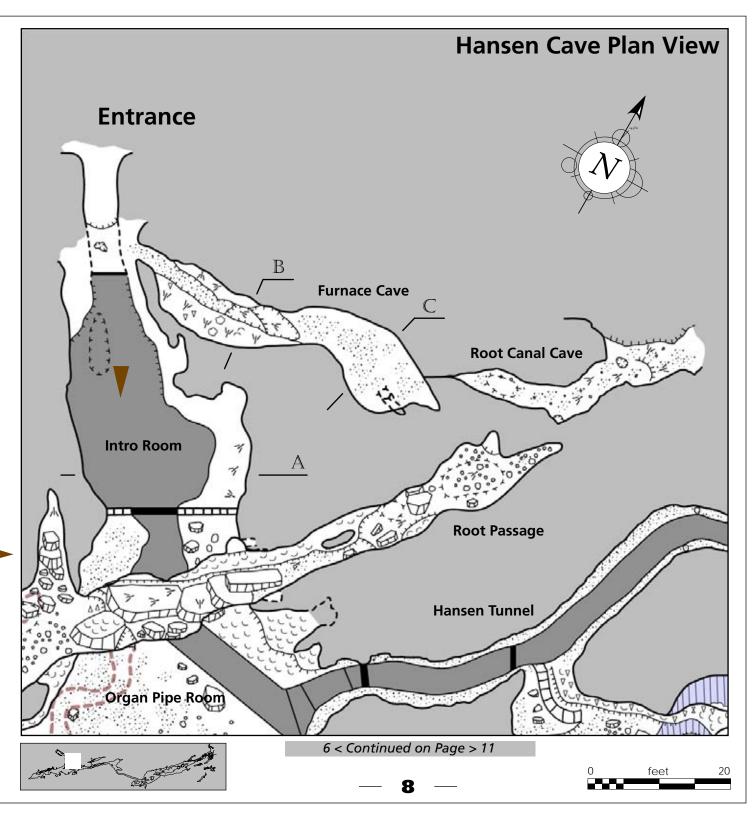
Jon Jasper standing on the Introduction to Caving trail in the Tank Room. NPS Photo.

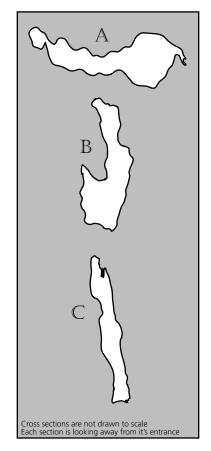






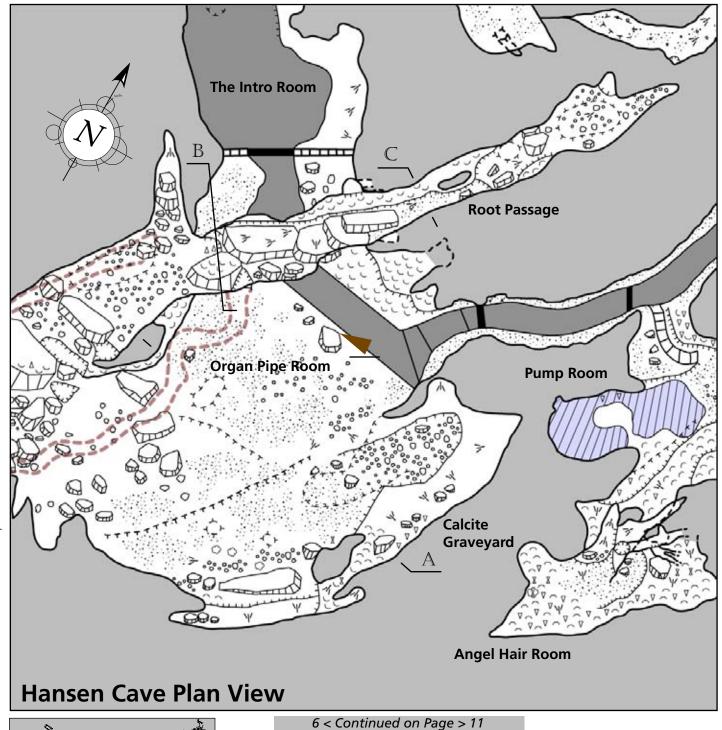
Hansen Cave entrance gate in the Intro Room. Photo by Brandon Kowallis 2003.







The Organ Pipe formation in the Organ Pipe Room of Hansen Cave. Photo by Brandon Kowallis 2003.

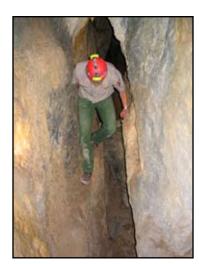




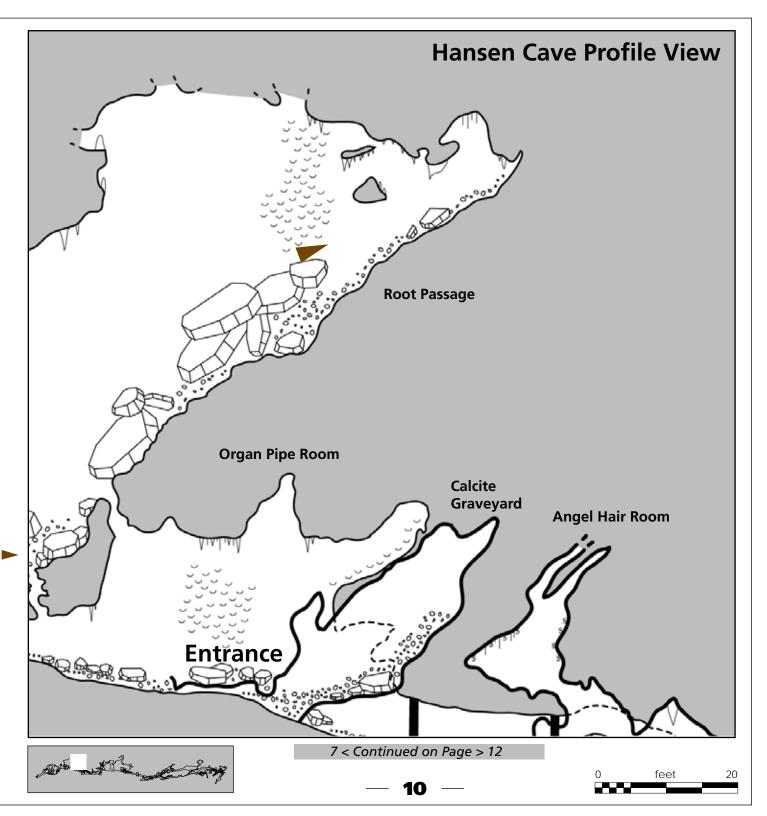


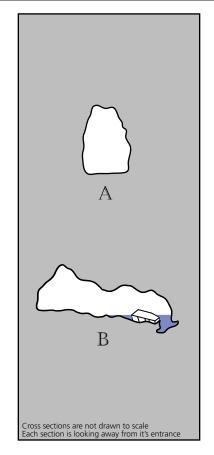


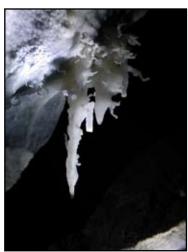
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Flowstone	\cup
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Stalactite	∇
Stalagmite	0
Helictite	3
Pool	
Main Trail	\sim
Intro to Caving Trail	平线点
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Boulders	
Slope	人
Pit	3
Column	X
Ceiling Ledge	17 کرد پ
Ceiling Dome	۲ ₄ ۲
Silt	13.73



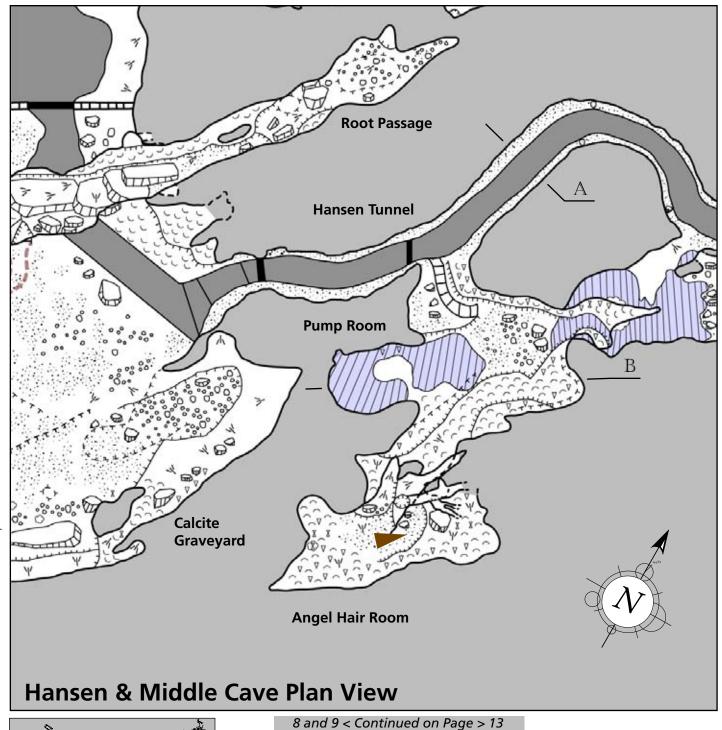
Jon Jasper maneuvering through upper section of the Root Passage. NPS Photo.







Helictite covered stalactite in the Angel Hair Room of Middle Cave. Photo by Brandon Kowallis 2003.



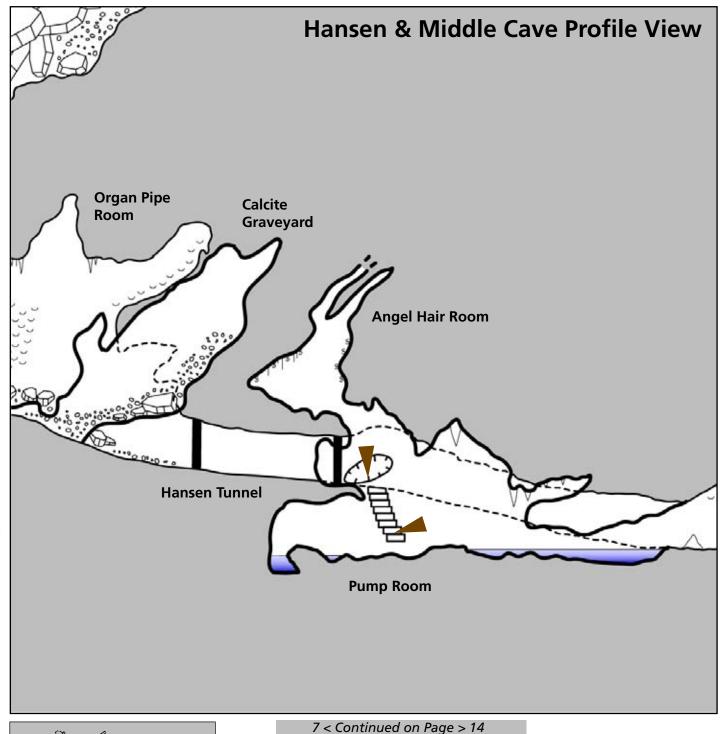


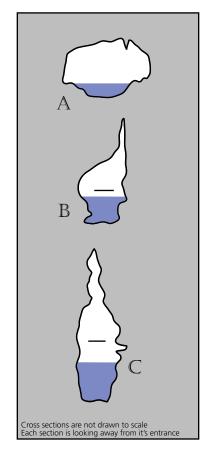
Flowstone	U
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Pool	
Main Trail	~
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Ceiling Dome	۲ ₄ ۲
Silt	99





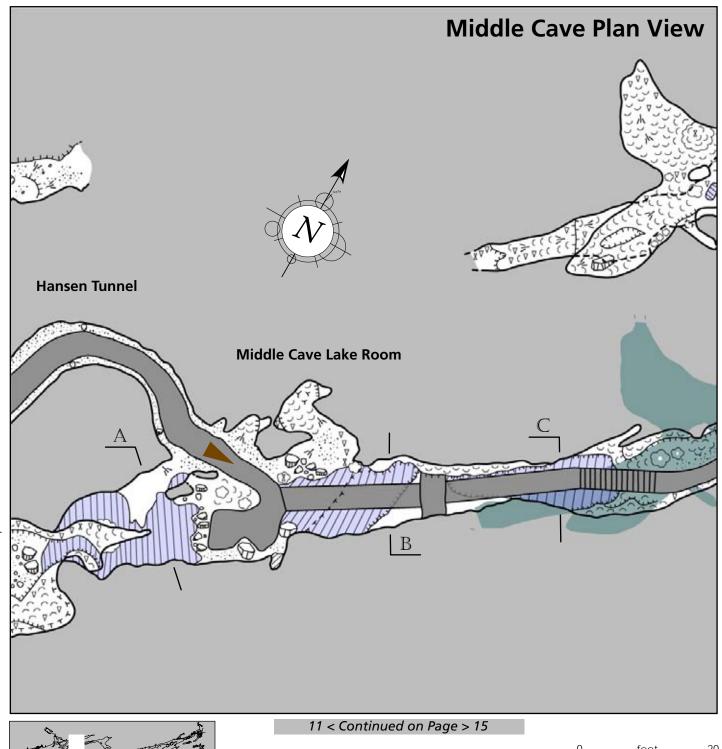
The Pump Room at the bottom of the stairs (top) and as seen from the main trail (bottom). NPS Photo.







Middle Cave Lake during Spring run off when the pump stopped working during April of 2004. Photo by Jon Jasper.



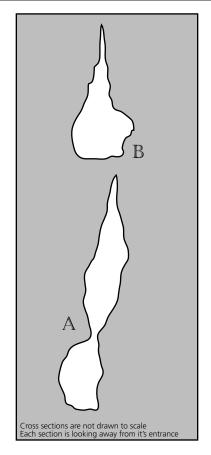
Middle Cave Profile View

7	
Flowstone	\cup
Ledge	4
Stalactite	∇
Stalagmite	©
Helictite	3
Pool	
Main Trail	~
Intro to Caving Trail	TO THE REAL PROPERTY.
Rocks	·\$0
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Slope	人
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Silt	14.5



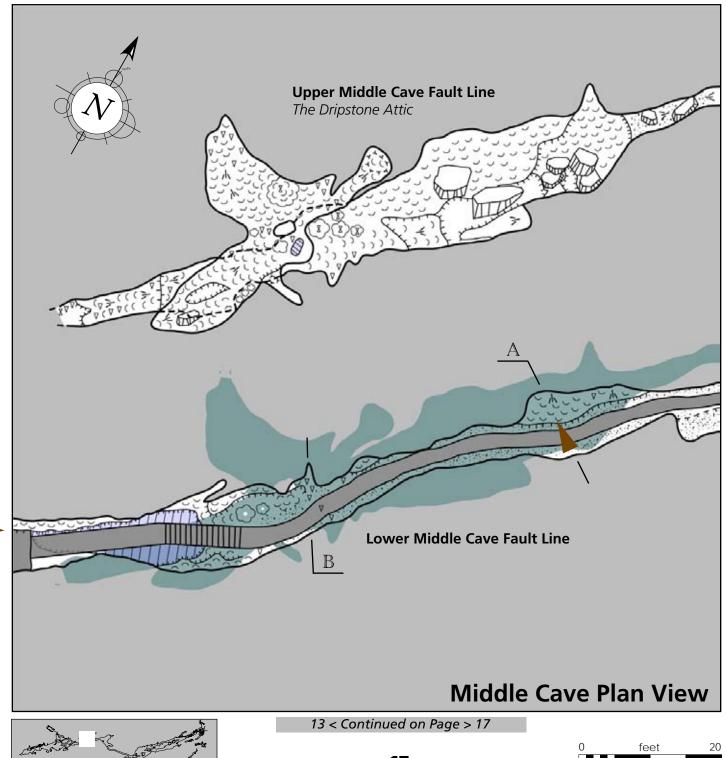
Middle Cave Lake Room. NPS Photo.

Dripstone Attic Middle Cave Lakes 12 < Continued on Page > 16





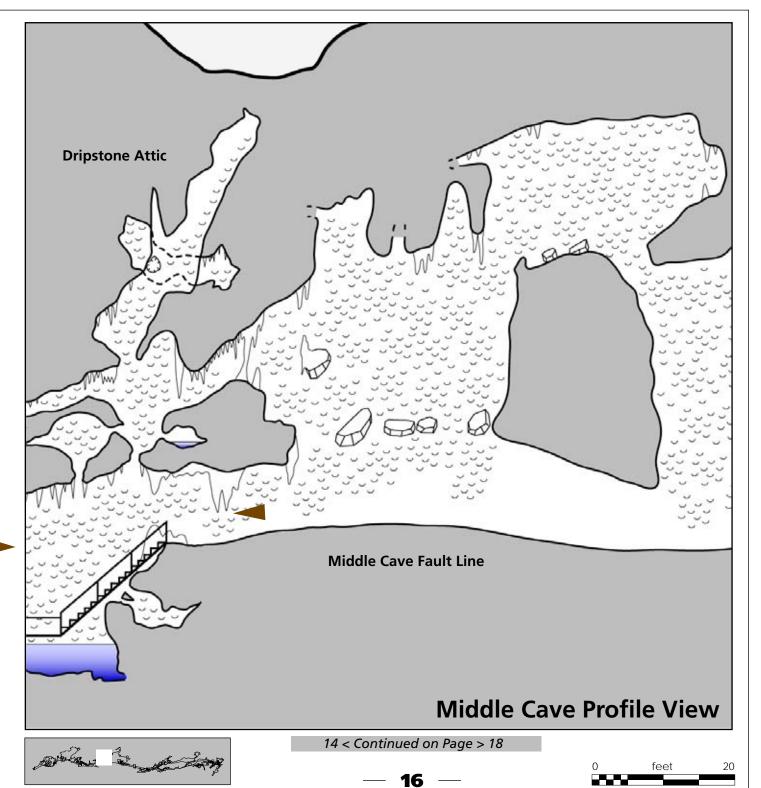
Ceiling passage leading to the Dripstone Attic in the Middle Cave Fault Line. Passage as seen along the main trail. NPS Photo.

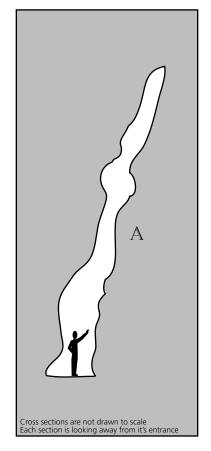


Flowstone	V
Ledge	4
Stalactite	∇
Stalagmite	0
Helictite	3
Pool	
Main Trail	~
Intro to Caving Trail	TONG I
Rocks	.50
Boulders	
Slope	人
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Ceiling Dome	۲ ₄ ۲
Silt	100



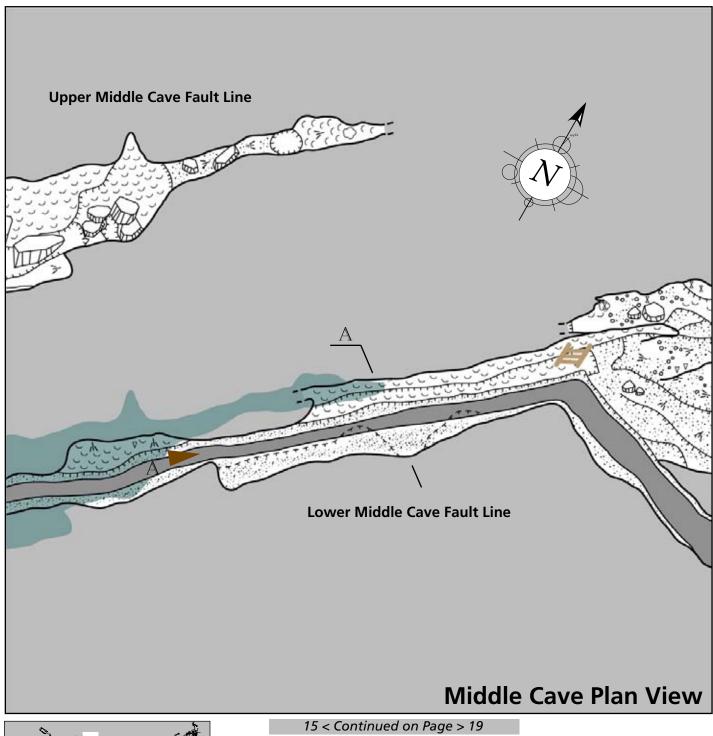
Jon Jasper stands in the Middle Cave Fault Line passage just below the Dripstone Attic. NPS Photo.







The Middle Cave fault line. NPS Photo.

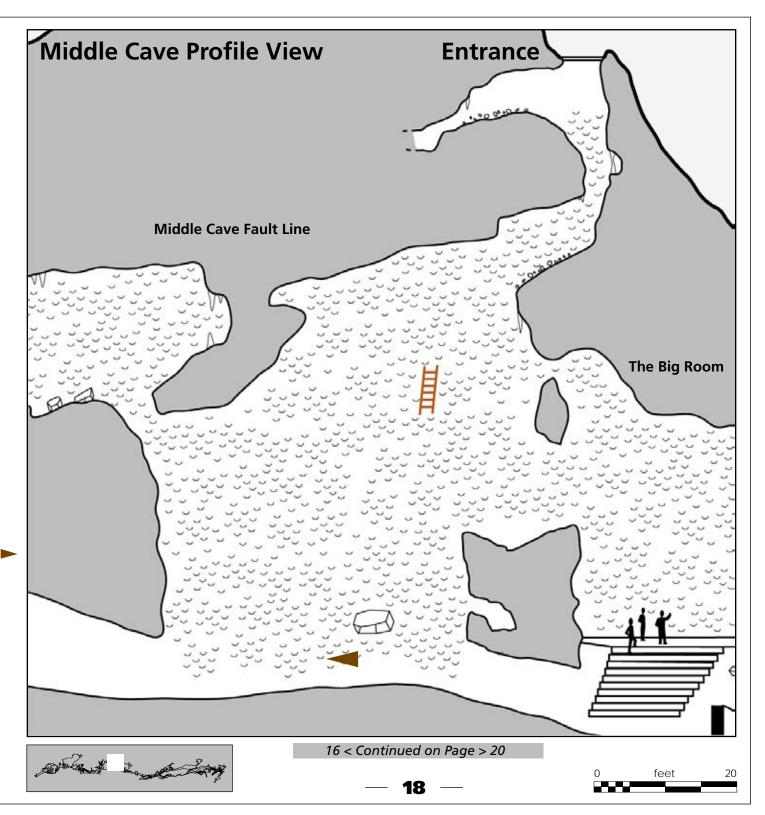


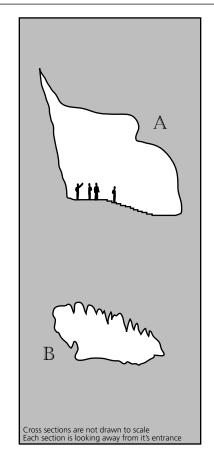


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Flowstone	\cup
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Stalactite	∇
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Helictite	3
Pool	
Main Trail	\sim
Intro to Caving Trail	四次立
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Boulders	
Slope	人
Pit	3
Column	X
Ceiling Ledge	1 ⁷ 2/ ₇ 1
Ceiling Dome	۲ ₄ ۲
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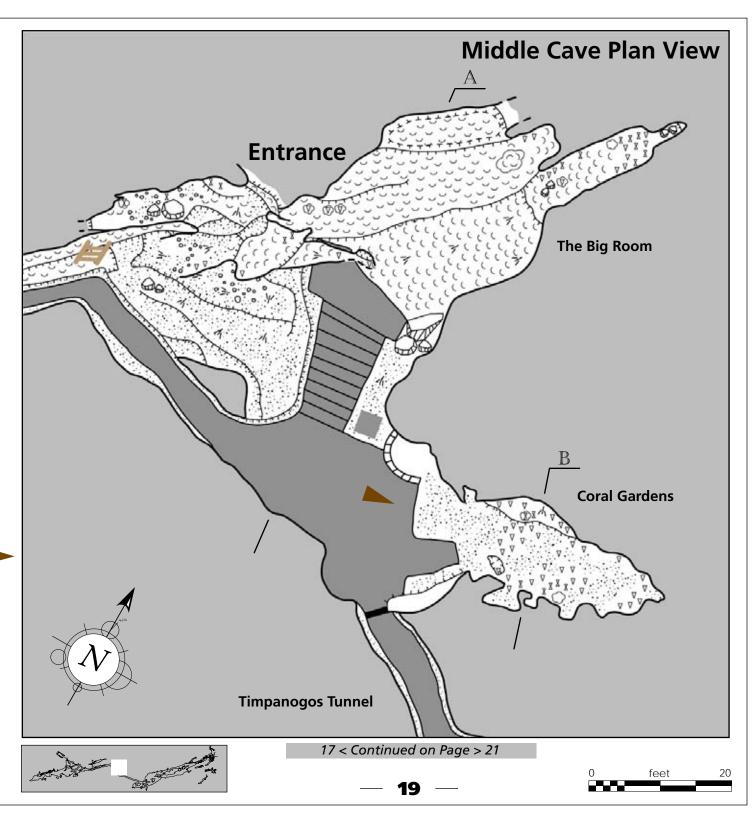
Popcorn covered wall in the Middle Cave Fault Line passage. NPS Photo.



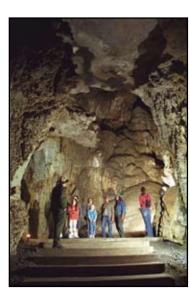




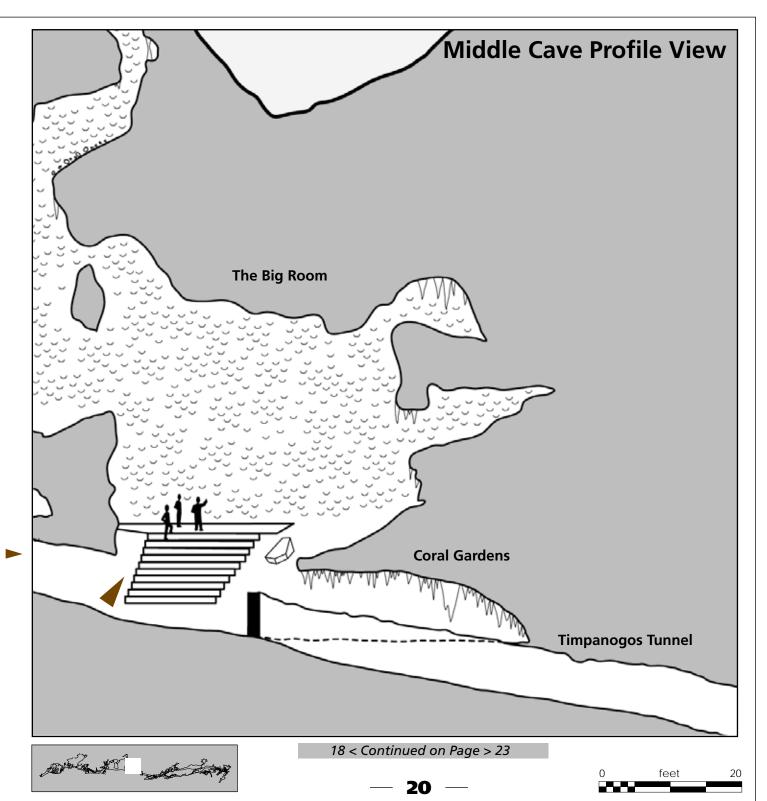
The Coral Gardens in Middle Cave. NPS Photo.

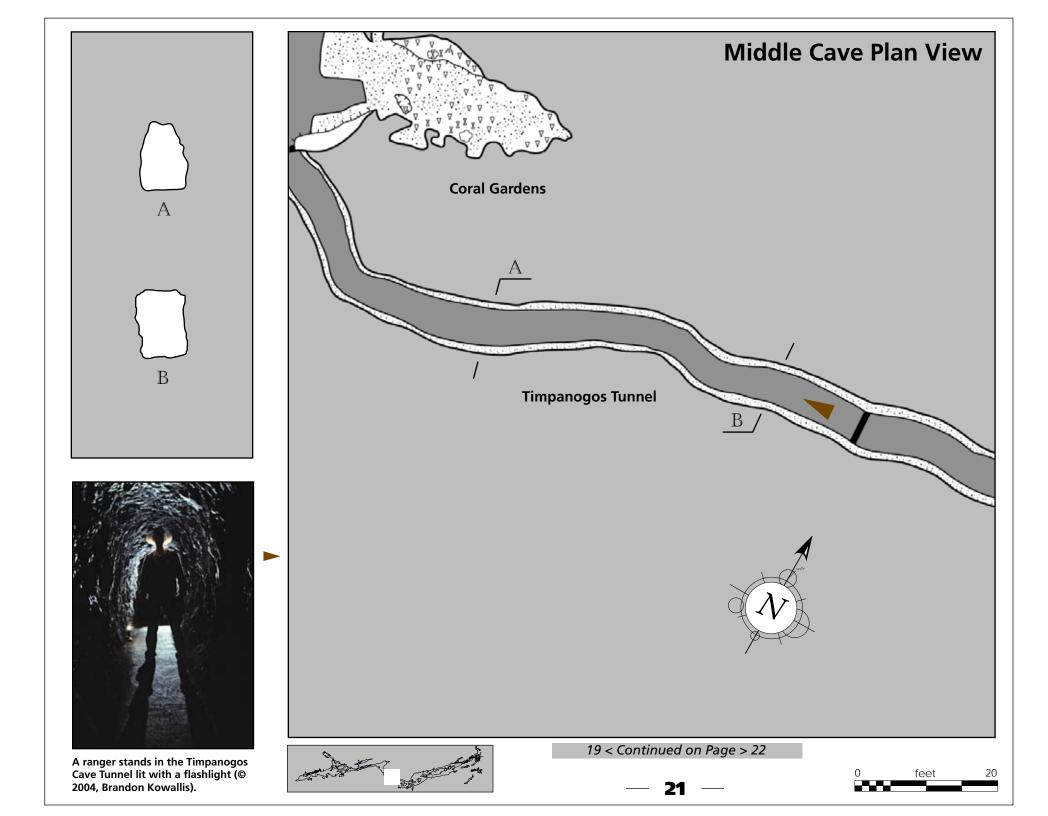


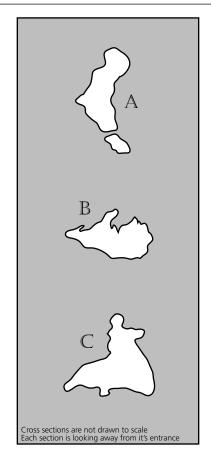
Flowstone	U
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Stalagmite	0
Helictite	3
Pool	
Main Trail	~
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Pit	3
Column	X
Ceiling Ledge	۲ کر _{۱۳}
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Silt	14.75



A Ranger Leads a tour in The Big Room of Middle Cave (© 2004, Brandon Kowallis).

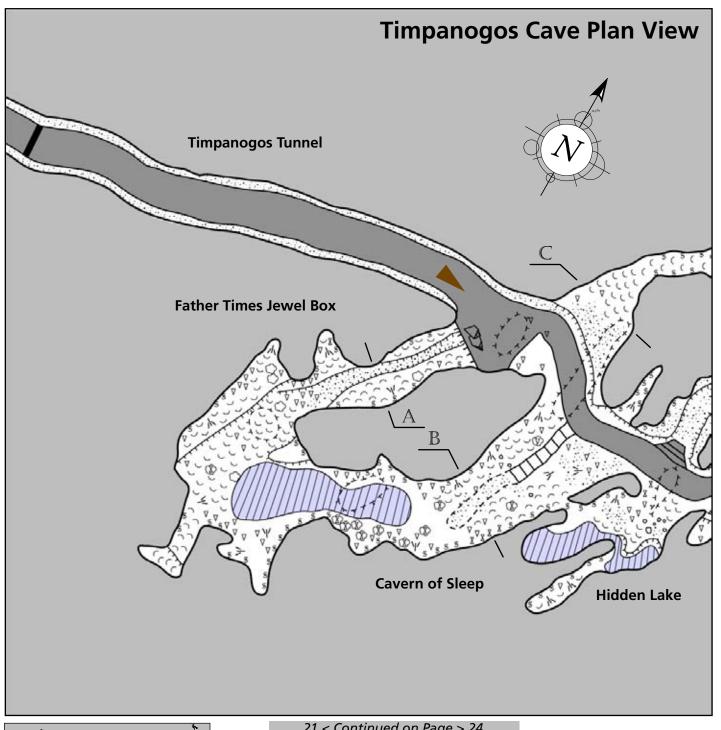








First glimpse of Timpanogos Cave after exiting the man-made tunnel. This large stalactite is stained yellow from the presence of nickel. NPS Photo.



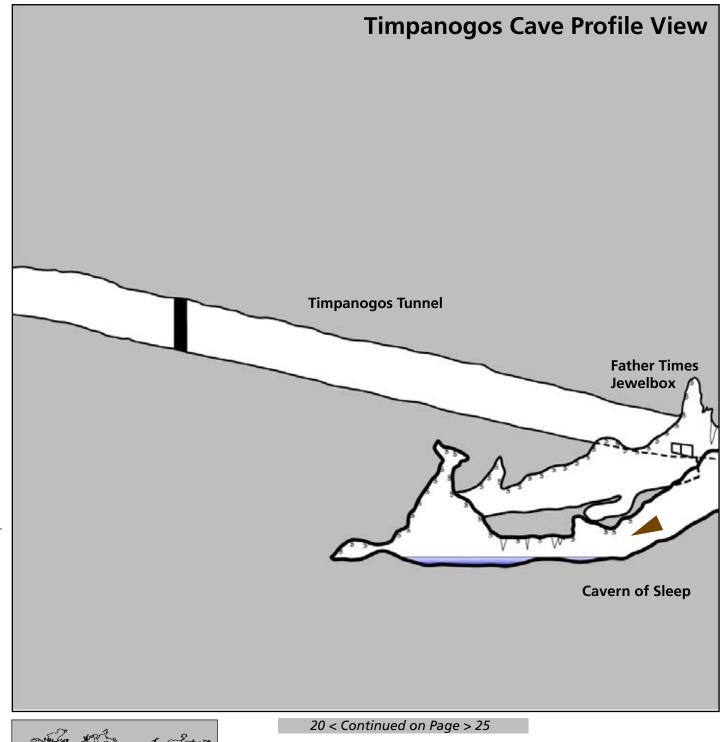


>	
Flowstone	J
Ledge	K
Stalactite	∇
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Helictite	3
Pool	
Main Trail	~
Intro to Caving Trail	TO THE REAL PROPERTY.
Rocks	·;°
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Silt	1413



Anthodites in the Cavern of Sleep. NPS Photo.

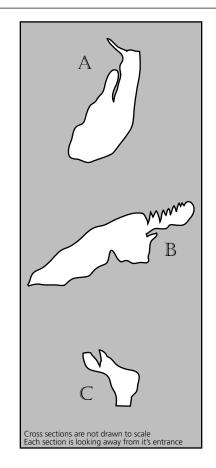
Brown Arrows indicate where the photograph was taken and the direction the camera was pointing when the images was shot.





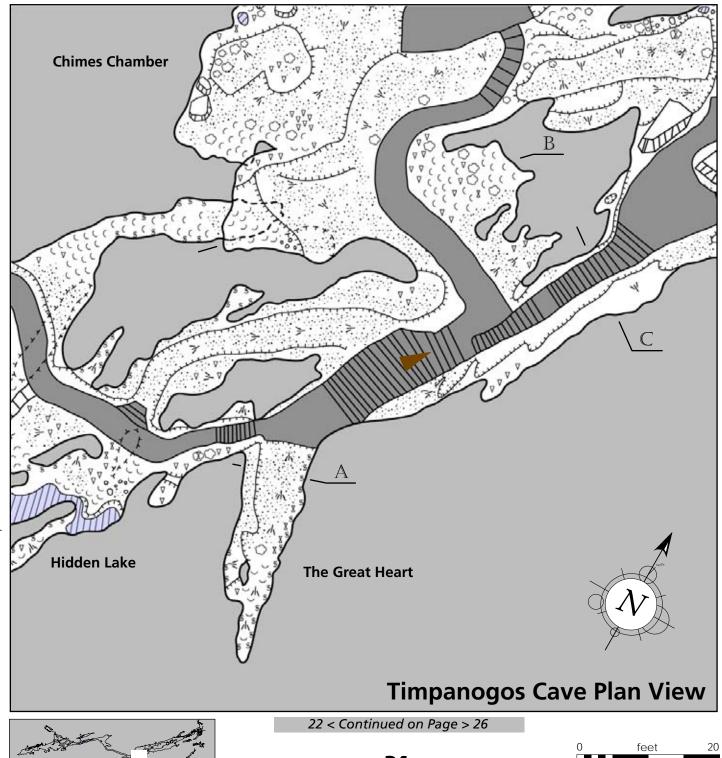
— 23 —







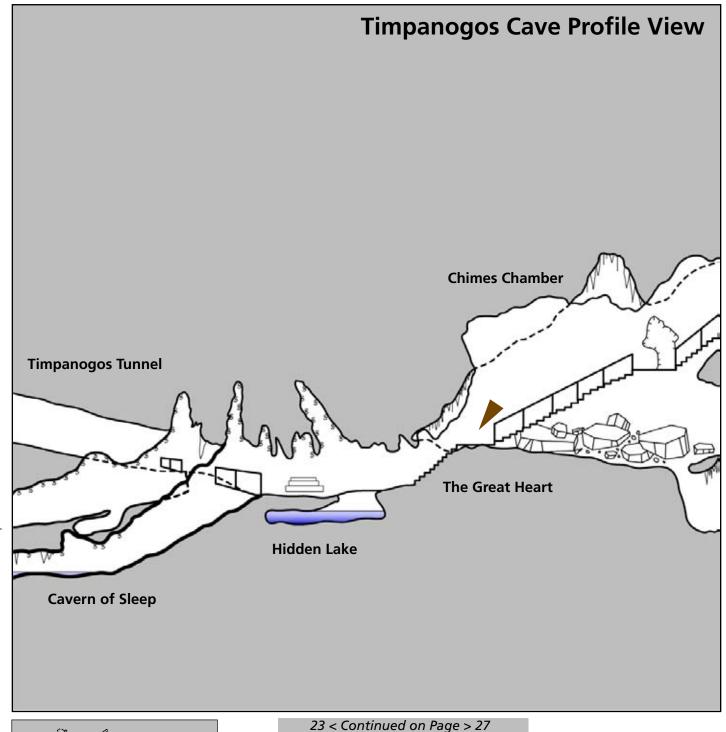
Cave trail at the junction to the Chimes Chamber. NPS Photo.



Flowstone	U
Ledge	K
Stalactite	∇
Stalagmite	0
Helictite	3
Pool	
Main Trail	~
Intro to Caving Trail	明治立
Rocks	.00
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Slope	人
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Column	X
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Ceiling Dome	۲ ₄ ۲
Silt	99

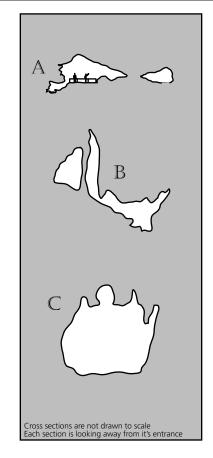


The Great Heart of Timpanogos. Photo by Jon Jasper 2004.



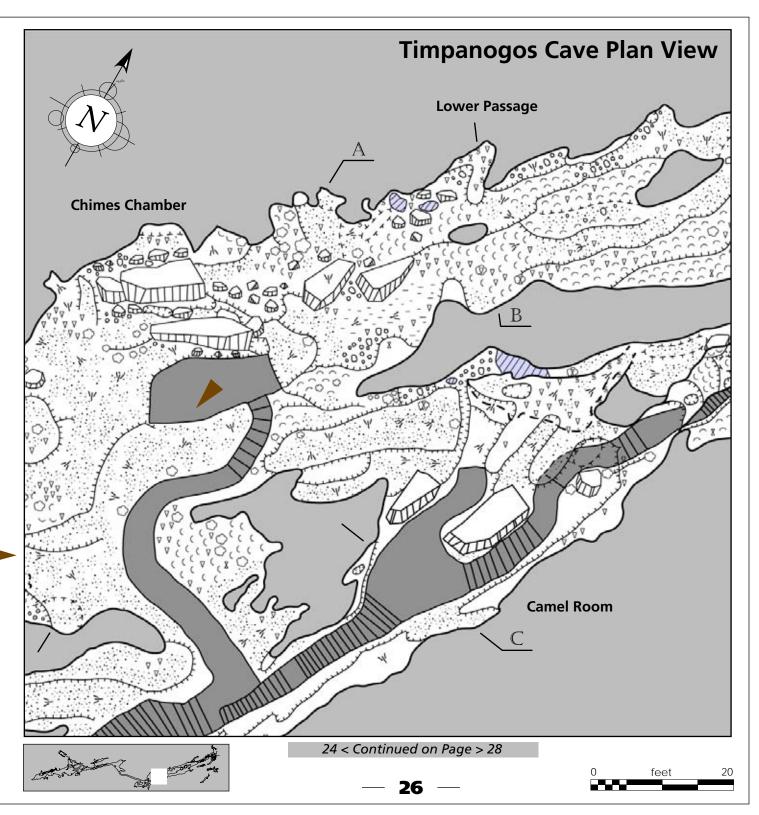




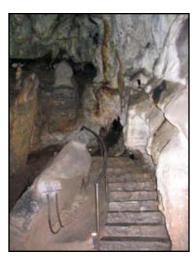




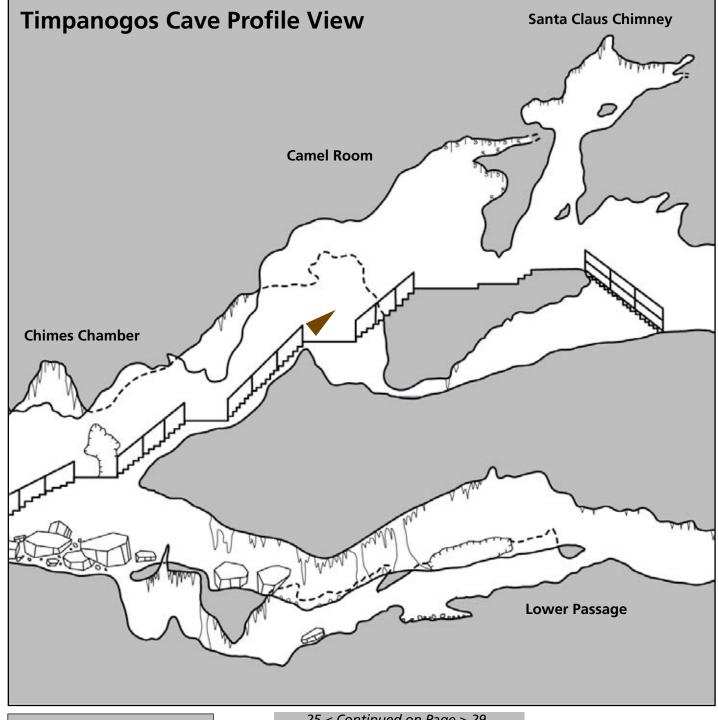
Formation covered ceiling in the Chimes Chamber. NPS Photo.



Flowstone	U
Ledge	K
Stalactite	∇
Stalagmite	©
Helictite	3
Pool	
Main Trail	~
Intro to Caving Trail	TO THE REAL PROPERTY.
Rocks	.20
Boulders	
Slope	人
Pit	3
Column	X
Ceiling Ledge	777,7
Ceiling Dome	۲ <u>۰</u> ۶
Silt	344



Looking into the Camel Room. NPS Photo.

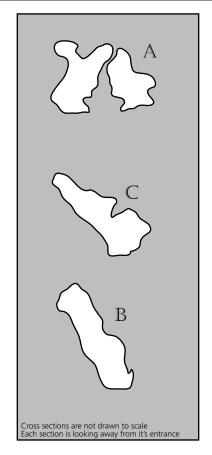




25 < Continued on Page > 29

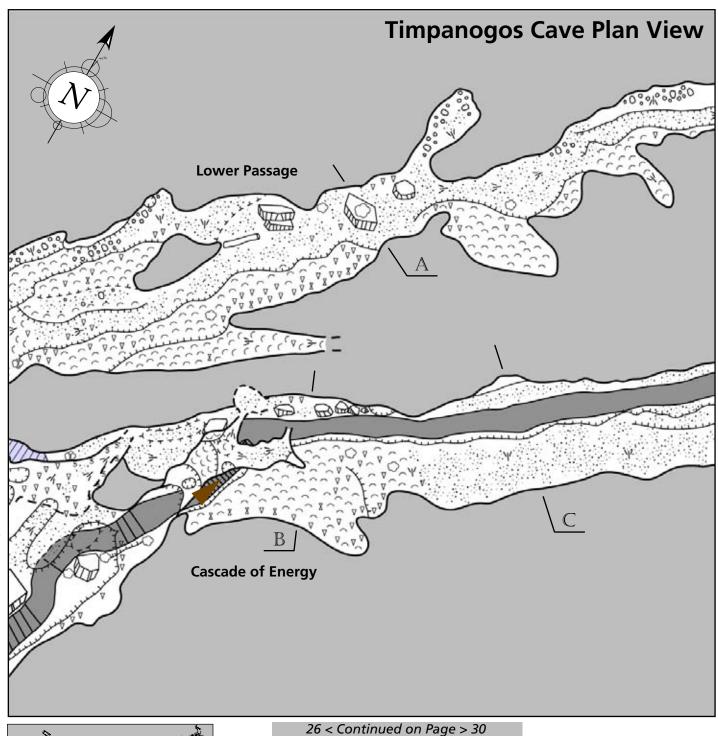








A tour group passes by the Cascade of Energy flowstone formation. NPS Photo.

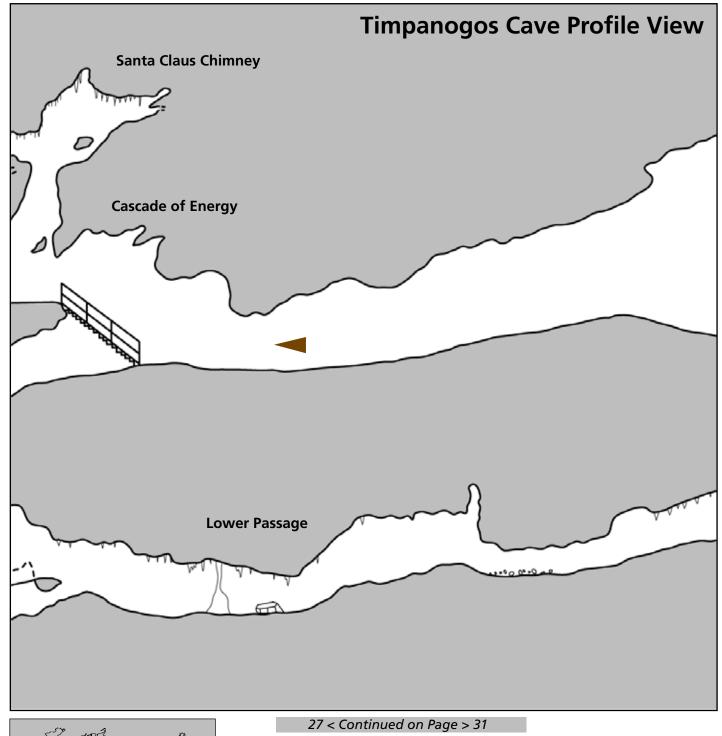




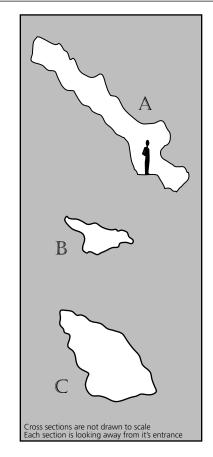
Flowstone	J
Ledge	4
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Stalagmite	0
Helictite	3
Pool	
Main Trail	~
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Rocks	.20
Boulders	
Slope	人
Pit	3
Column	X
Ceiling Ledge	777,7
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Silt	14.5

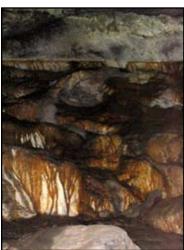


Drapery below the Cascade of Energy. NPS Photo.

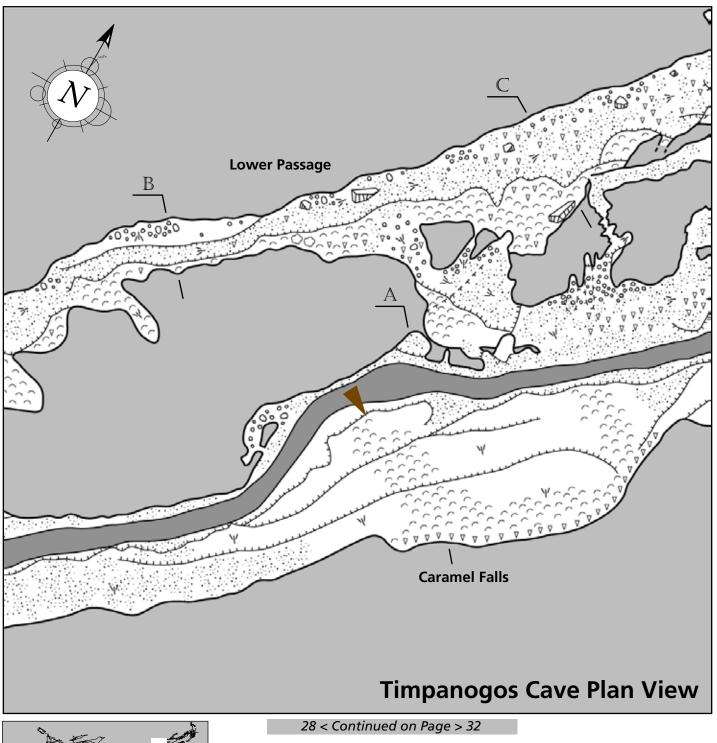








The Caramel Falls flowstone formation. Orange coloration is cause by the presence of Iron. NPS Photo.

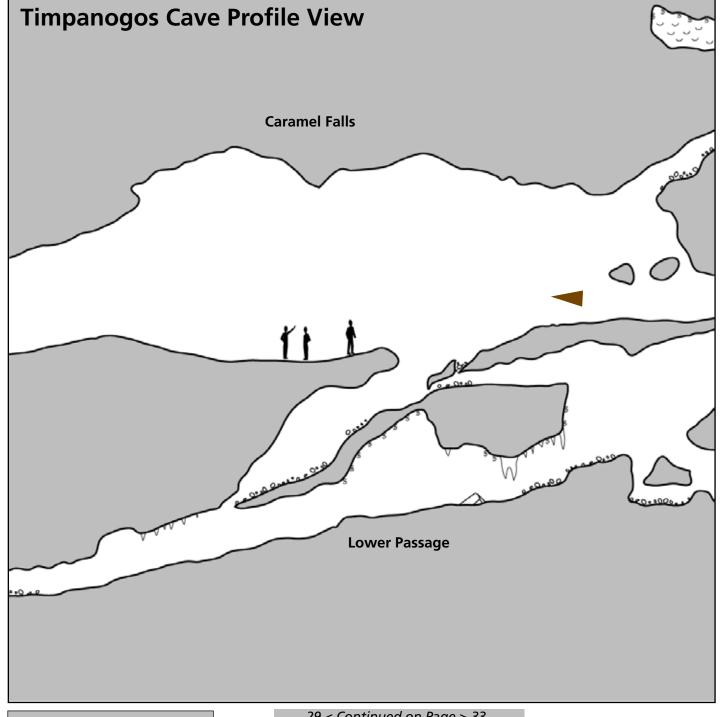




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Flowstone	U
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Stalactite	∇
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Helictite	3
Pool	
Main Trail	\sim
Intro to Caving Trail	平线点
Rocks	%9
Boulders	
Slope	人
Pit	3
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Ceiling Dome	۲ <u>.</u> ۲

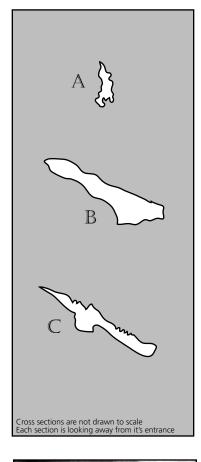


Passageway at the Caramel Falls. NPS Photo.





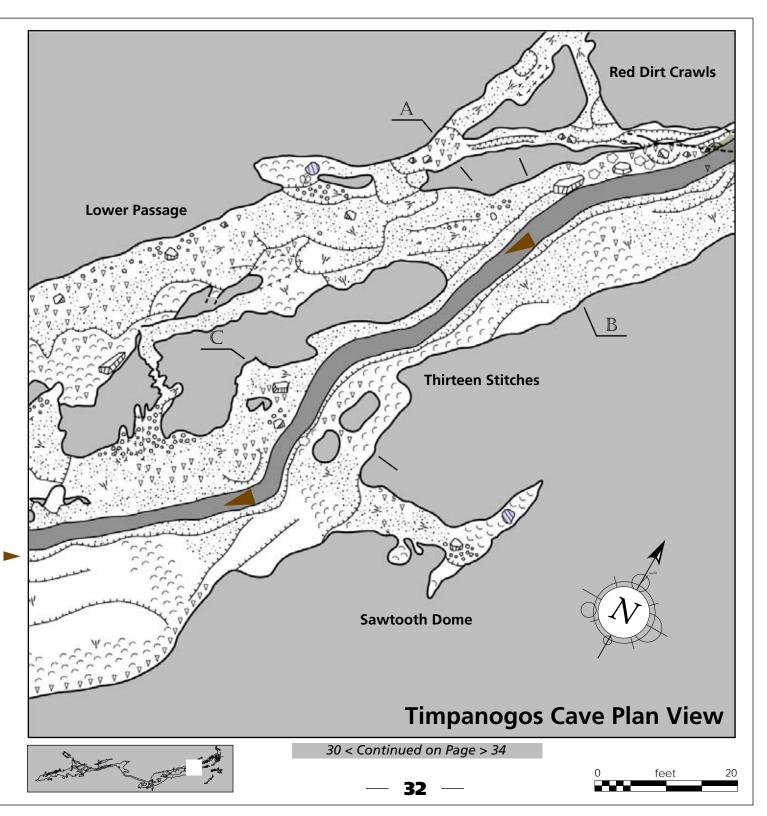
29 < Continued on Page > 33







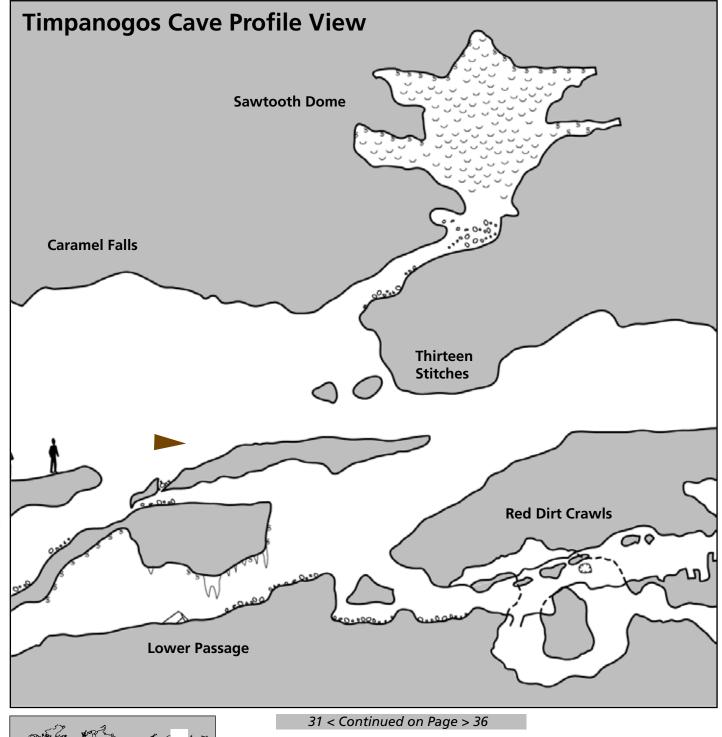
Two access areas into the lower passage. The top image shows the better route. NPS Photos.



Flowstone	\cup
Ledge	Kr
Stalactite	∇
Stalagmite	©
Helictite	3
Pool	
Main Trail	\sim
Intro to Caving Trail	學就立
Rocks	.20
Boulders	
Slope	人
Pit	3
Column	X
Ceiling Ledge	17 کرد پ
Ceiling Dome	۲ ₄ ۲
Silt	444



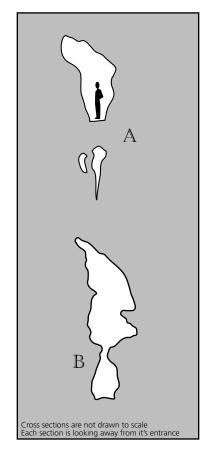
Passage way just before the Thirteen Stitches formation. It is here at the bend in the trail and up to the right where the Sawtooth Dome is accessed. This slope is extremely loose and can cause rocks and debris to fall onto the trail below.





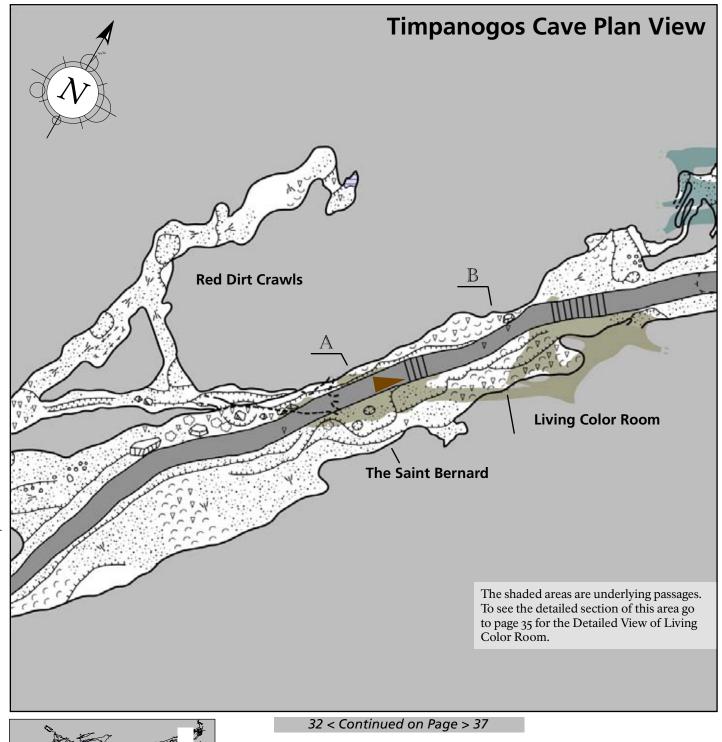


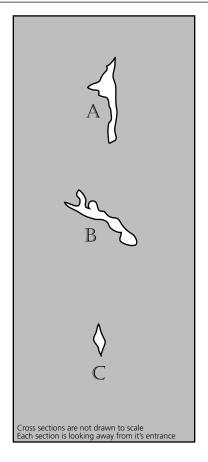






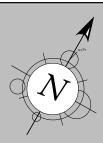
The Saint Bernard flowstone formation. NPS Photo.



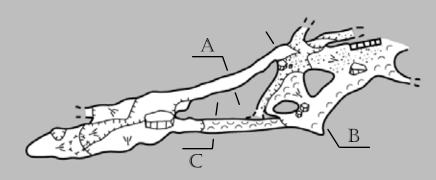




Hole on the left shows one entrance to the Living Color Room. It is located before the Bone Yard and just after the stairs past the Saint Bernard. This passage goes from where you see above, to just below the bridge before the Saint Bernard. The best way to describe the Living color room is tight, disgustingly muddy, and miserable. NPS Photo.



Timpanogos Cave Plan View



Detailed View Living Color Room Connects on Page 34

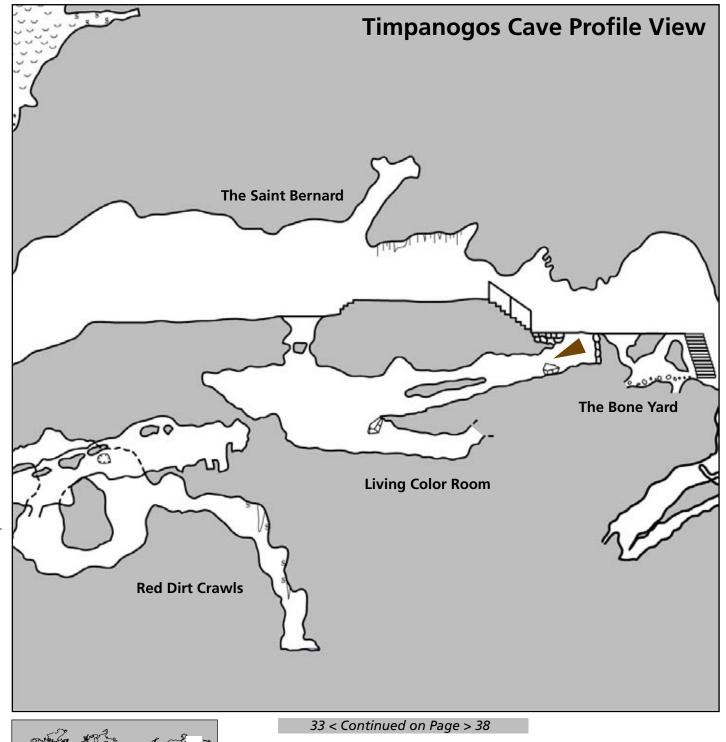


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Flowstone)
Ledge	É
Stalactite	∇
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Helictite	3
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Main Trail	(
Intro to Caving Trail	и 22
Rocks	%0
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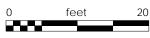


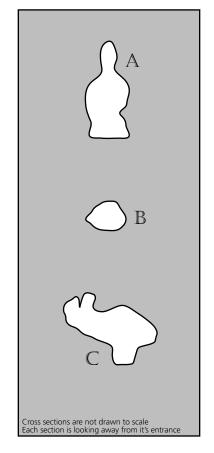
Brandon Kowallis squeezing through a clean section of the Living Color Room. Photo by Jon Jasper 2004.





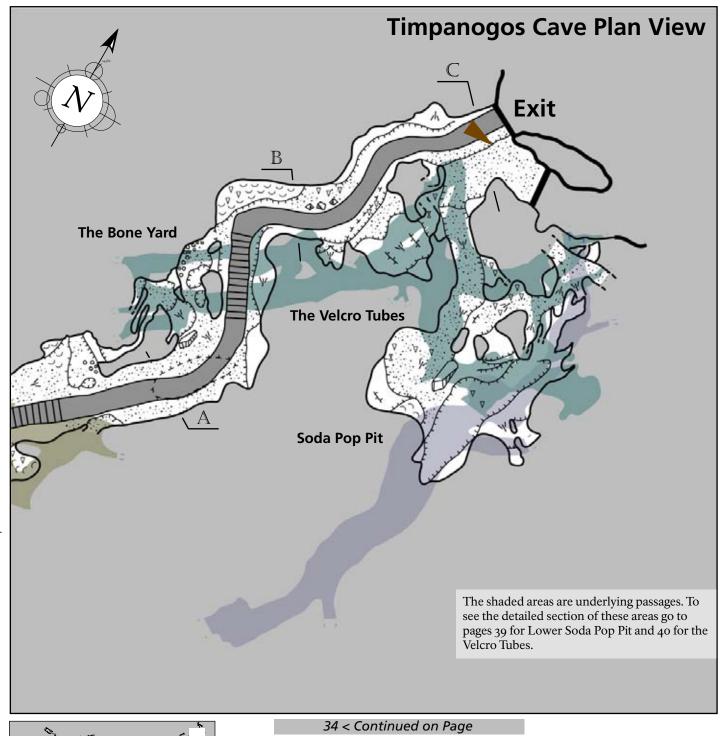








Installing the cave gate at the Timpanogos Cave exit. NPS Photo.

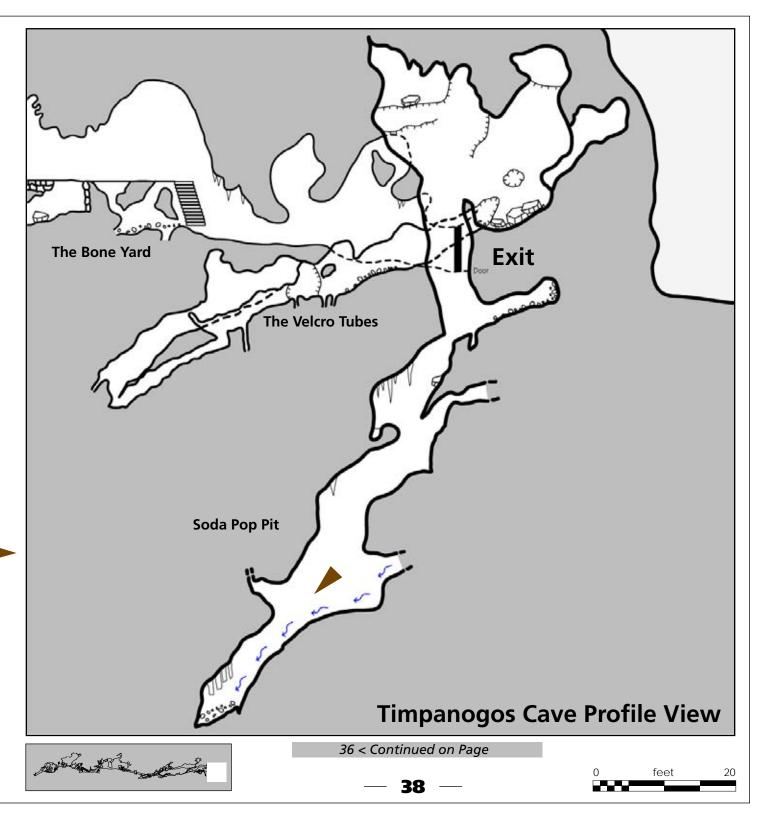


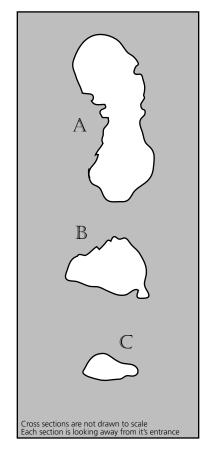


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Flowstone	J
Ledge	4
Stalactite	∇
Stalagmite	©
Helictite	3
Pool	
Main Trail	~
Intro to Caving Trail	TONG T
Rocks	.50
Boulders	
Slope	人
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Column	X
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Ceiling Dome	۲ ₄ ۲
Silt	14.5



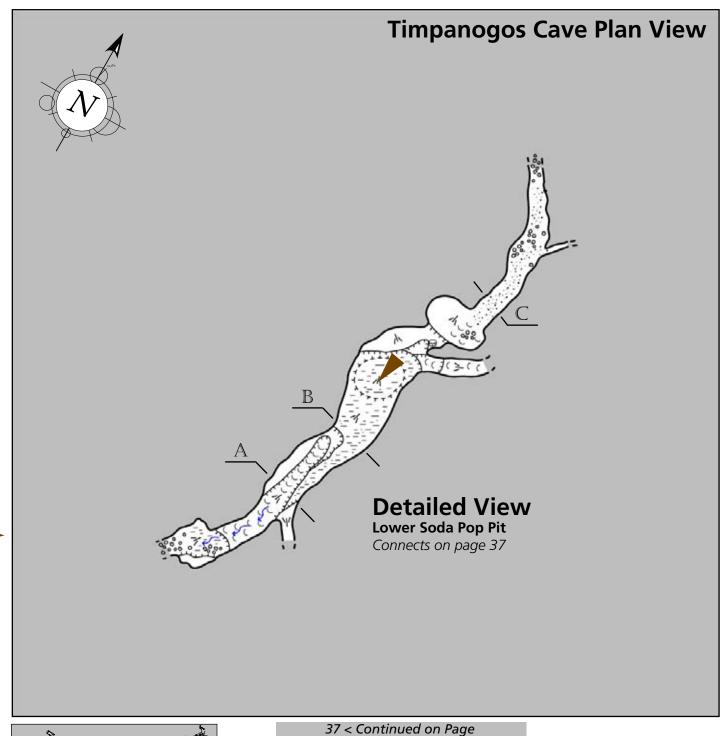
Jon Jasper at the flooded bottom of Soda Pop Pit. NPS Photo.



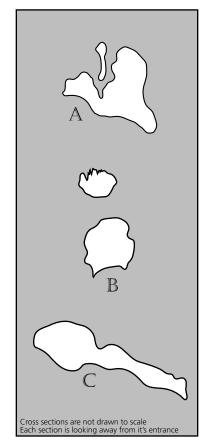




Cami Pulham preparing to descend into Soda Pop Pit. NPS Photo.











Jon Jasper (top) and Brandon Kowallis (bottom) in popcorn lined, velcro sections of the Velcro Tubes. NPS Photos.

