



**Nevada Bureau of Mines and Geology
Educational Series E-62**

**Scavenger Hunt for Rocks Used
to Build the Stewart Indian School**

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Photograph of the southeast side of the Cultural Center & Museum (former Administration Building). The Stewart Indian School, which is located at 5500 Snyder Avenue, Carson City, NV 89701 (south of town), was listed in the National Register of Historic Places as a Historic District in 1985. The site (approximately 110 acres) is managed by the State of Nevada. See <http://stewartindianschool.com/> for more information about the school.

Scavenger Hunt for Rocks Used to Build the Stewart Indian School

Hunt #1 (easier) Find any buildings where these kinds of rocks can be found.

Hunt #2 (harder) Find these exact rocks (the ones pictured here). Identify the building number (labeled on the map) and whether the rock is on the northeast (NE), southeast (SE), northwest (NW), or southwest (SW) wall; then check the key. Find the first nine or all 27.

The Stewart Indian School operated from 1890 to 1980. When Superintendent Frederic Snyder arrived in 1919, the wooden buildings were deteriorating. Under Snyder's leadership and with the guidance of Hopi and Italian stonemasons, students learned the vocation of masonry and built over 60 buildings at the school, mostly from 1922 to 1942, using multi-colored rocks that were collected locally. Snyder also added landscaping with trees, flowers, and trellises. Stewart is one of few intact historical American Indian boarding-school campuses in existence in the United States.



Quartz, SiO_2 , perhaps from the Comstock Lode, Virginia City.
Which building? _____
Which wall? NE/SE/NW/SW



Sandstone, quarried from the old Nevada State Prison, Carson City.
Which building? _____
Which wall? NE/SE/NW/SW



Opal, $\text{SiO}_2 \cdot n\text{H}_2\text{O}$, perhaps from the Steamboat Hot Springs, Reno.
Which building? _____
Which wall? NE/SE/NW/SW



Thinolite, variety of **calcite**, CaCO_3 , in tufa, from the shores of ancient Lake Lahontan (now Pyramid, Winnemucca, and Walker lakes).
Which building? _____
Which wall? NE/SE/NW/SW



Conglomerate, quarried from the old Nevada State Prison, Carson City.
Which building? _____
Which wall? NE/SE/NW/SW



Malachite, $\text{Cu}_2\text{CO}_3(\text{OH})_2$, probably mined from the Singatse Range, near Yerington.
Which building? _____
Which wall? NE/SE/NW/SW



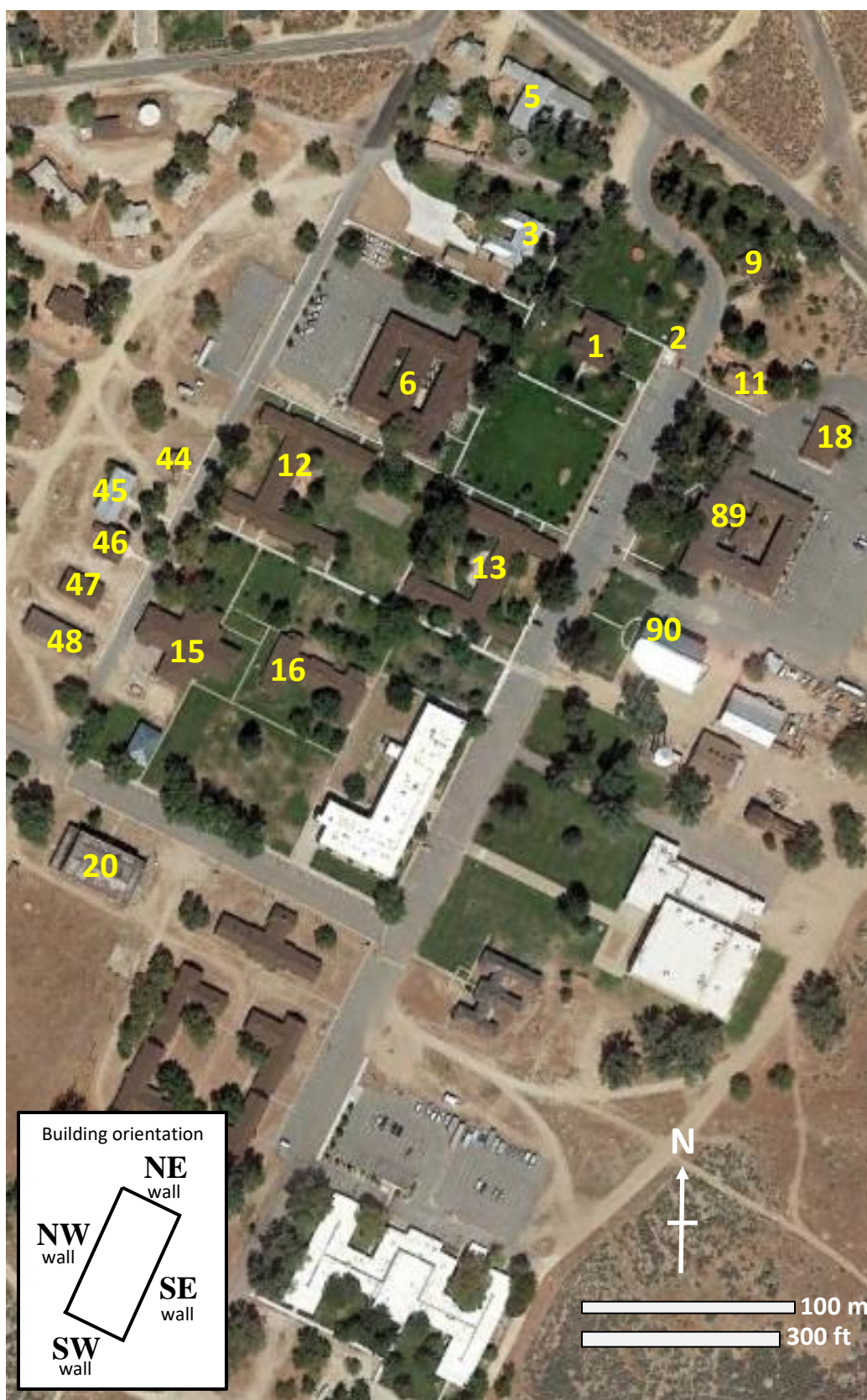
Ferricrete, probably quarried from Nevada Route 341 between Reno and Virginia City.
Which building? _____
Which wall? NE/SE/NW/SW



Dacite porphyry, probably collected in the Carson City/Reno area.
Which building? _____
Which wall? NE/SE/NW/SW



Metamorphosed basalt with green **epidote**, $\text{Ca}_2(\text{Fe,Al})_3(\text{SiO}_4)_3(\text{OH})$, collected in Carson City.
Which building? _____
Which wall? NE/SE/NW/SW



Map (Google Earth, imagery date 8/11/2017) of Stewart Indian School with building numbers.



Quartz, SiO_2 , crystals on vein, perhaps from the Comstock Lode, Virginia City.
Which building? _____
Which wall? NE/SE/NW/SW



Rhyolite tuff, stained with **goethite**, $\text{FeO}(\text{OH})$, probably from the Carson City/Reno area.
Which building? _____
Which wall? NE/SE/NW/SW



Basalt, from the Carson City area.
Which building? _____
Which wall? NE/SE/NW/SW



Tufa, made of **calcite**, CaCO_3 , from the shores of ancient Lake Lahontan (now Pyramid, Winnemucca, and Walker lakes).
Which building? _____
Which wall? NE/SE/NW/SW



Andesite lahar (mud flow breccia), probably from the Silver City/Virginia City area.
Which building? _____
Which wall? NE/SE/NW/SW



Rhyolite tuff (ignimbrite), probably from the Carson City area.
Which building? _____
Which wall? NE/SE/NW/SW



Azurite, $\text{Cu}_3(\text{CO}_3)_2(\text{OH})_2$, probably mined from the Singatse Range near Yerington.
Which building? _____
Which wall? NE/SE/NW/SW



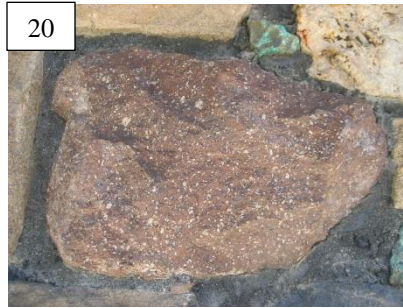
Granodiorite, cut by a dike of **granite**, from the Sierra Nevada (Carson Range).
Which building? _____
Which wall? NE/SE/NW/SW



Chrysocolla, $\sim\text{CuSiO}_3 \cdot 2\text{H}_2\text{O}$, probably mined from the Singatse Range, near Yerington.
Which building? _____
Which wall? NE/SE/NW/SW



Dacite porphyry, probably from the Carson City/Reno area.
Which building? _____
Which wall? NE/SE/NW/SW



Dacite porphyry, probably from the Carson City/Reno area.
Which building? _____
Which wall? NE/SE/NW/SW



Rhyolite tuff, probably from the Carson City area.
Which building? _____
Which wall? NE/SE/NW/SW



Rhyolite tuff, probably from the Carson City area.
Which building? _____
Which wall? NE/SE/NW/SW



Goethite, $\text{FeO}(\text{OH})$, stained volcanic rock, probably from the Carson City/Virginia City/Reno area.
Which building? _____
Which wall? NE/SE/NW/SW



Andesite, probably from the Carson City/Virginia City area.
Which building? _____
Which wall? NE/SE/NW/SW



Granite with schorl (tourmaline), $\text{NaFe}_3\text{Al}_6(\text{BO}_3)_3\text{Si}_6\text{O}_{18}(\text{OH})_4$, from the Sierra Nevada (Carson Range).
Which building? _____
Which wall? NE/SE/NW/SW



Vesicular **basalt**, probably from the Carson City area.
Which building? _____
Which wall? NE/SE/NW/SW



Rhyolite tuff, probably from the Carson City area.
Which building? _____
Which wall? NE/SE/NW/SW

Key to the Scavenger Hunt

Rock or mineral	Building	Number on Map	Wall
1. Quartz	Cultural Center/Administration	1	SE
2. Sandstone	Welcome Center/Post Office	2	SE
3. Opal	Welcome Center/Post Office	2	SW
4. Thinolite	Nevada Indian Commission/ Superintendent's House (on pillar)	3	SE
5. Conglomerate	Church (Tahoe Indian Parish)	5	SE
6. Malachite	Peace Officers Standards & Training (POST)/ Small Girls Dormitory	6	SE
7. Ferricrete	POST/Small Girls Dormitory	6	SW
8. Dacite porphyry	Dept. of Corrections/Garage	18	SW
9. Metamorphosed basalt with epidote	Dept. of Corrections/Small Boys Dormitory	89	SE
10. Quartz crystals	Dept. of Corrections/Small Boys Dormitory	89	SE
11. Rhyolite tuff	POST/Girls Dormitory	12	NE
12. Basalt	Dept. of Public Safety/Girls Dormitory	13	NE
13. Tufa	Auditorium	90	NW
14. Andesite lahar	Auditorium	90	NW
15. Rhyolite tuff (ignimbrite)	Auditorium	90	NW
16. Azurite	Buildings and Grounds Storage/Sewing Room	46	SE
17. Granodiorite	Garage	47	SE
18. Chrysocolla	Gym	20	SE
19. Dacite porphyry	Welcome Center/Post Office	2	SW
20. Dacite porphyry	Welcome Center/Post Office	2	SW
21. Rhyolite tuff	Dept. of Corrections/Small Boys Dormitory	89	NE
22. Rhyolite tuff	Capitol Police Substation/Cottage	44	SE
23. Goethite	Buildings and Grounds Storage/Sewing Room	46	SW
24. Andesite	Garage	47	SE
25. Granite with schorl (tourmaline)	Auditorium	90	SW
26. Vesicular basalt	Auditorium	90	SE
27. Rhyolite tuff	Auditorium	90	SW

This scavenger hunt was prepared by Jonathan G. Price, Elisabeth M. Price, and Dennis P. Bryan, with the help of Bobbi Rahder, Chris Gibbons, Charlotte Stock, and Jack Hursh. To find opportunities to collect these and other rocks and minerals, please see the Science Education section of the Nevada Bureau of Mines and Geology website at UNR, <http://www.nbmng.unr.edu/>, including Earth Science Week field trips for the general public, <http://www.nbmng.unr.edu/ScienceEducation/Geotripping.html>, and EarthCache sites, <http://www.nbmng.unr.edu/ScienceEducation/EarthCaches/EarthCaches.html>.

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