United States Department of the Interior National Park Service

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Invento	ory—Nomina			received APR 9 095 date entered
Type all entrie	ns in How to Complete N s—complete applicable s			
<u>1. Nan</u>	ne			
historic	Sheep Mountain Tunn	el Mill/ <u>Crystal Mil</u>	<u>L</u>	5GN 1627
and/or common	Crystal Mill			
2. Loca	ation		· · · · · · · · · · · · · · · · · · ·	
street & number	r County Road	3, 7 miles southeast	of Marble	n/a not for publication
city, town		vicinity of Cry	vstal	
state Col	lorado cod	e 08 county (Gunnison	code 051
3. Clas	sification			
Category district XX building(s) structure site object	Ownership public XX_ private both Public Acquisition n/a in process n/a being considered	Status occupied XX unoccupied work in progress Accessible XX yes: restricted yes: unrestricted no	Present Use agriculture commercial educational entertainment government industrial military	museum park private residence religious scientific transportation XX other: Vacant
	Dorothy Tidwell	rty		
street & number		in Ranch, Star Route		
	rbondale	n/a vicinity of	stat	e Colorado 81623
5. Loca	ation of Lega	al Descriptio	n	
courthouse regi	istry of deeds, etc. Gunn	ison County Courthou	se	
street & number	200 Fact Virgini	a		
city, town	Gunnison		stat	e Colorado
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Colorado	Inventory of Histo	ria Citaa		
itle Ongoing		has this prop	erty been determined	eligible? yes XX n
date	·			state county loca
lepository for s	urvey records Colo	rado Historical Soci	ety, OAHP	

7. Description

Condition		Check one
excellent	XX deteriorated	unaltere
good	ruins	XX altered
fair	unexposed	

Check one XX_ original site moved date

Describe the present and original (if known) physical appearance

_ unaltered

The Crystal Mill is a log and frame structure built in 1892 originally as a powerhouse. The building has a dramatic location on a rock outcrop on the Crystal River in mountainous terrain near Marble, Colorado. The mill is composed of three parts: the compressor house, the gear house, and the penstock.

The compressor house is hand peeled round log construction, V-notched at the corner joints. It is 20' by 50'¹ with board and batten gabled ends. The west wall, which faces an adjacent building (now in ruins), contains a door roughly in the center of the wall, a double hung window to the south end, and a small window on the north end of the wall. On the opposite (east) wall is another door, roughly in the center with one window on the north end of the wall. The south wall, only sections of which remain, probably contained no openings. The north wall has a window in the gable and an open portal into the gear house.

The small one-story gear house is board and batten with gabled ends, the pitch of its roof matching that of the compressor house. The structure was once supported by the penstock posts on the water side and the bottom log of the compressor equipment house on the land side. A door is located on the north wall which once led onto a railed platform (now gone). The west wall contains a small window, roughly in the middle.

Beneath the gear house are the remains of the penstock, constructed of rough milled beams using common mine timbering techniques. The horizontal braces, roughly 6" by 6", are bolted onto large 12" by 12" vertical beams.²

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The water wheel and all mill machinery are no longer present. The dam system which once diverted water from the Crystal River to drive the mill machinery has not survived.

The present condition of the mill is deteriorated. However, recent restoration efforts (1984) have attempted to create support for the penstock and gear house. In 1976 a new roof and partial concrete footings were installed, along with a cable system which sought to prevent the mill from leaning further into the stream, (Undercutting by the river of the gearhouse and penstock had resulted in severe shifting of those portions of the structure and caused structural problems in the compressor house as well.)

¹Silver Lance, December, 1892, p.3.

 2 Gary Long and Kathleen Hoeft, "Crystal Mill Report", September 9, 1984.

8. Significance

1500–1599 1600–1699 1700–1799 XX 1800–1899	Areas of Significance—C archeology-prehistoric archeology-historic agriculture architecture art commerce communications	community planning conservation economics education	Iandscape architectur Iaw Iiterature Iiterature Iiterature Iitary IIII IIIII IIIII IIIIII IIIIII IIIIIII	science sculpture social/ humanitarian theater
Specific dates	1892–1917	Builder/Architect	Unknown	

Statement of Significance (in one paragraph)

The powerhouse at Crystal known as Crystal Mill is notable in Colorado for its association with the development of the metal mining industry. It may be unique in the state for its use of water to generate power for historic underground mining operations. The powerhouse was also locally significant in that it facilitated the mining process and allowed mining to continue in Crystal at the period of the Silver Crash when mining was not generally lucrative. Therefore the survival of the community of Crystal owes much of its existence to this power generating facility.

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The log and frame building on the Crystal River for many years has incorrectly carried the label of "mill".¹ In fact the structure was built in 1892 for use as a powerhouse, containing machinery to generate power to run equipment for mining in the Sheep Mountain Tunnel. A turbine water wheel which generated over 90 horsepower was the propelling force which operated a compressor. The compressed air was carried through pipe lines to air drills.² The power to run the machinery was acquired by daming the Crystal River near the entrance to the Sheep Mountain Tunnel at the confluence of the north and south forks of the Crystal.

The project was part of the mining operation of the Sheep Mountain Mining and Tunnel Company. In addition to the mine at Sheep Mountain, the powerhouse supplied power for the Inez, Bear Mountain, and later the Black Queen³ in the Crystal area. Electric lighting was also provided in the mines by a dynamo that was later installed in the powerhouse.⁴

The plant continued to produce power for the mines until 1917 when mining operations ceased.⁵ At some point after 1917, all the existing equipment inside Crystal Mill was removed. This may have taken place during World War II when scrap metal and unused machinery was removed in most of the accessible mills and many mine-related structures in the state as part of the war effort. As a result, few historic mills in Colorado survive with their integrity of equipment intact.

Crystal Mill has been owned since 1954 by Treasure Mountain Ranch, Inc.,who have demonstrated an interest in its preservation. It has come to represent to many Coloradoans and tourists early day mining. Reportedly, it is one of the most highly photographed sites in the state and appears in many publications, calendars, and other printed matter. The mill's recent endangerment was a concern given state-wide attention. Fund-raising efforts were initiated and some stabilization work conducted.

¹Known historically as Sheep Mountain Tunnel Mill and Crystal Mill, the structure has also been referred to as Lost Horse Mill and Dead Horse Mill.

²Duane Vandenbusche, <u>The Gunnison Country</u> (Gunnison: Gunnison, Inc., 1980), p. 247.

³The Silver Lance, December 29, 1892. Published at Crystal, Colorado, p.3.

⁴Ibid.

⁵Dorothy Tidwell, Treasure Mountain Brochure.

9. Major Bibliographical References

See footnotes.

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Verbal boundary description ar	nd justification			
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List all states and counties for	properties over	lapping state or cou	unty boundaries	
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11. Form Prepa	red By			
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city or town Gunnison		state Colorado 81230		
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12. State Histo	116 6163			
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National Register of Historic Places Inventory—Nomination Form

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Crystal Mill, Gunnison County

Continuation sheet

Item number 10

Addendum

<u>Item #10 Geographical Data</u> Verbal Boundary Description and Justification

The nominated area includes the building and the surrounding rock outcropping which composes the dramatic setting for the powerhouse. The rock outcropping is bounded on three sides by the South Fork and the Crystal River and extends approximately 10' from the rear of the powerhouse (Crystal Mill).