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UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES INVENTORY -- NOMINATION FORM

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FOR NPS USE ONLY

RECEIVED DCT 2 3 1978

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FOR FEDERAL PROPERTIES

SEE INSTRUCTIONS IN HOW TO COMPLETE NATIONAL REGISTER FORMS TYPE ALL ENTRIES -- COMPLETE APPLICABLE SECTIONS

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DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

The tunnel is 5.8 miles in length and has a capacity of 1,000 cfs. The upstream portion of the bore is constructed in crystalline rock and is unlined. This section is rectangular in shape with an arched roof and has cross section dimensions of 11 ft. (width) by 12 ft. (length). The down-stream portion of the bore is constructed in Mancos Shale and is concrete lined for stability. Some short sections of this portion have been renovated and now form a modified horseshoe with a diameter of 12 ft.

The elevation of the tunnel's mouth on the floor of the Black Canyon of the Gunnison River is approximately 6,520 ft. asl. When the tunnel emerges at the South Canal in the Uncompany Valley, it has dropped approximately 40 ft. in elevation to 6480 ft. asl. At its deepest point, the tunnel channel is approximately 2,200 ft. beneath the dome of Vernal Mesa. UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

Form 1.0. 10-300a (Rev. 10-74)

FOR NPS USE ONLY

NATIONAL REGISTER OF HISTORIC PLACES **INVENTORY -- NOMINATION FORM**

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LOCATION ITEM NUMBER 2 CONTINUATION SHEET PAGE 2

The Gunnison Tunnel is reached by traveling approximately 61 miles east of Montrose, Colorado, on U.S. Highway 50. From just below its intersection with this highway, the tunnel extends in a northeasterly direction for 5.8 miles to the diversion dam on the Gunnison River.

While there is access to the east portal and while the Bureau has withdrawn approximately 1,000 contiguous acres surrounding it for the Uncompanyre and Curecanti Projects, the area immediately surrounding the tunnel mouth is, because of its configuration, wholly unsuited for visitor facilities. Correspondingly, it is felt simply placing a plaque at the mouth of the tunnel is the only reasonable form of commenoration at this portal.

At the west portal, the Bureau has withdrawn approximately 40 acres which are herein described: Section 26: SE¹₂NW¹₂; T49N, R8W, MNPM. But any visitor development at this portal is, in the opinion of this office, ill advised, for the canal banks immediately below the tunnel are quite steep and the water as it leaves the tunnel is traveling at a fairly high velocity. These two conditions would pose a definite safety hazard to visitors.

8 SIGNIFICANCE

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SPECIFIC DATES

BUILDER/ARCHITECT

STATEMENT OF SIGNIFICANCE

In 1882 the Denver and Rio Grande Western Railroad completed a railhead through the Uncompany Valley in western Colorado. With improved access and the desire for peace and prosperity, homesteaders began to settle the valley in ever-increasing numbers. They soon discovered, however, that the annual rainfall and the irrigation supply from their one river, the Uncompany, were inadequate for continuously successful farming and ranching operations. To the north in the awesomely deep gorge of the Black Canyon, the Gunnison River held the potential to satisfy their water needs--if only a way could be found to tap it.

Beginning in 1890 F. C. Lauzon, Montrose farmer, one-time miner, and full-time visionary, fired the imaginations of local residents with his dream of an irrigation tunnel through the Vernal Mesa, which separated the Gunnison River from the Uncompany Valley. By 1894 he had sparked enough interest so that funds could be secured and a survey taken. The first survey demonstrated that Lauzon's dream was something more than merely a dream. However, further surveys needed to be taken from the canyon floor before a tunnel site could be selected.

In 1901 E. B. Anderson, a Delta, Colorado, farmer, led four men in an ill-fated attempt to survey the canyon by floating the river in wood and canvas boats. After four weeks on what was expected to be a five-day journey and after traversing less than half of the 40-mile canyon, the party abandoned the project in understandable despair.

Finally in 1901 an engineer from the U.S. Geological Survey, A. Lincoln Fellows, and William W. Torrence of the Montrose Electric Light and Power Company, a member of the aborted expedition of 1901, made a survey using rubber air mattresses and waterproof bags to carry their equipment. In nine days they examined, photographed, and surveyed the best sites for a diversion dam and tunnel, and Fellows' account of this perilous exploration furnishes, according to one historian, "one of the most thrilling chapters in the engineering annals of America."

In 1901, 850 feet of tunnel was actually drilled, but work soon stopped when the \$25,000 in funds allocated by the State of Colorado were exhausted. Funding for the project became a realizable possibility with the passage of the Reclamation Act in 1902, and on June 7, 1903, the Secretary of the Interior approved, as one of the five first projects to be built by the newly-created Reclamation Service, the allocation of funds for the Uncompany Project.

9 MAJOR BIBLIOGRAPHICAL REFERENCES

Beidleman, Richard G. "The Gunnison River Diversion Project." reprinted from The Colorado Magazine, XXXVI, (1959).

Brownell, Fran. "Gunnison Tunnel Opening." The Grand Junction Daily Sentinel, August 6, 1972, Colorado West Section, 4-9.

"The Gunnison Tunnel and the Uncompangre Project." Bureau of Reclamation pamphlet. Washington, D.C.: GPO 843-656, ND.

10GEOGRAPHICAL DATA

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VERBAL BOUNDARY DESCRIPTION

The structure is a tunnel with its eastern portal on the Gunnison River between UTM references A and B described above and its western portal between UTM reference D and C described above.

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CONTINUATION SHEET Significance ITEM NUMBER 8 PAGE 2

Late in 1904, a private contractor began construction of the tunnel, but because of financial difficulties soon withdrew, and the Reclamation Service assumed the re-sponsibility of completing the project.

The difficulties encountered were in some cases gargantuan. A wagon road had to be built across Vernal Mesa and onto the floor of the canyon. In some places the grade was nearly 30 percent, and much of the massive drilling equipment had to be eased down on skids and held with block and tackle. Four separate drill headings were begun-one in from each portal and east and west from a shaft sunk in at the mesa.

Tunnel drillers prefer hard, solid rock; but in this tunnel they also ran into clay, sand, shale, and a badly fractured fault zone. In December of 1906 a seam was tapped carrying warm water surcharged with carbonic acid. The drillers were forced to abandon the heading for six months while a 400-foot shaft was driver into the mountain side for ventilation.

After the ventilation shaft was installed, and according to official Bureau records, "the tunnel was driven for two thousand feet through a geological fault which furnishes a weird and unholy assortment of grief." Not only were the drillers working in a saturated atmosphere at a temperature above 90° F, but they had to observe the utmost caution as well; for at frequent intervals "great rushes of water would break from the sides and face, carrying hundreds of yards of sand, which buried tracks, tools, and everything else 500 or 600 feet from the breast." From December 1906 to March 1909 much water was encountered. A volume estimated as 8 cubic feet per second ran steadily through the bore. Perhaps it can be understood why, while the pay and benefits were considered good for the time, the men, up to 500 at a given time, rarely lasted longer than two weeks on the job.

On July 6, 1909, the bore was "holed through" and at the time was one of the longest tunnels in the world, and was the longest irrigation tunnel in the world.

President William Howard Taft, accompanied by an entourage of local, state, and federal dignitaries, arrived by train on September 23, 1909, to officially dedicate the diversion of water through the tunnel onto what he called the "incomparable valley with the unpronounceable name."

Before the Gunnison Tunnel and the attendant canals, laterals, and diversion dams which constitute the Uncompany Reclamation Project were completed, farming in the valley was at desperate ebb. At the turn of the century about 100,000 acres in the valley had been taken up and patented; but less than 30,000 acres were under cultivation and often there was not even water for this land. In addition, many settlers were being forced to abandon their homesteads for lack of water; and, moreover, foreclosures had been made on approximately 20,000 acres by loan companies. The irrigation water flowing through the Gunnison Tunnel helped reverse this onerous process, and today 85,990 acres of farmland flourish within the boundaries of the Uncompany Project. -

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DATE ENTERED

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ITEM NUMBER 8 PAGE 3 CONTINUATION SHEET Significance

In 1972, 63 years after its completion, the Gunnison Tunnel was acclaimed by the American Society of Civil Engineers as a National Historic Civil Engineering Landmark. The tunnel became only the 26th structure of man's ingenuity to be accorded this honor.

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OCT 2 3 1970 JUL 2 2 1979 DATE ENTERED

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P31-427-4NA Uncompahere Project--Colorado View of the inlet portal and gate structure of the Gunnison Tunnel. 1-25-66--Bureau of Heclamation Photo by V. Jetley

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P31-427-5NA Uncompanyere Project--Colorado View showing condition of the rock in a typical unlined portion of the Gunnison Tunnel. 1-25-66--Bureau of Reclamation Photo by V. Jetley

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P31-L27-57NA JUL 22 1979 Uncompany Project--Colorado Copy of old photograph taken from Uncompany water users albums showing construction of the Gunnison Tunnel. Bureau of Reclamation Photo

Junnison Tunnel Mentrese County

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P31-427-62NA Uncompany Project--Colorado Copy of old photograph taken from Uncompany water users albums showing construction of the Gunnison Tunnel. Bureau of Reclamation Photo

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P31-427-279 NA - Uncompanying Project - Colorado View from the right abutment showing the Gunnison Diversion Dam. Note the portal of the tunnel at upper left. 5-4-71 - Bureau of Reclamation Photo by V. Jetley.

P31-427-339 NA Uncompany Project - Colorado Gunnison Tunnel: Copy of old photograph showing the construction camp at East Portal.

Gunnison Junnel

MAY 3 0 1979

Montrose County