



OIL, GAS & MINING

Abandoned Mine Reclamation Program PROJECT SUMMARY

Mohrland Culvert Maintenance Emery County, Utah

AMR/015/931

Project Location and Background

The Mohrland Culvert Maintenance Abandoned Coal Mine Project was conducted in Nov/Dec 2017. The site is located near Huntington, Utah in Cedar Creek Canyon. Mining at Mohrland occurred periodically between 1907 and 1938, with peak production occurring in the early 1920's. AMRP conducted reclamation activities at Mohrland in 1993-1995 and again in 1996-1997. Reclamation efforts in 1996-1997 included the stabilization of a 216 foot long, historic sandstone culvert (Smithsonian Site #42EM1642). In 2015, AMRP identified a failure in the stone culvert wall which required a maintenance project to prevent further collapse and degradation of the historic culvert. Failure of the culvert would have dammed Cedar Creek, creating a potential flood hazard. The project was completed in December, 2017 by the AMRP and was assigned project number AMR/015/931.

Public Involvement

Public participation was solicited via a media release in March 2017 which appeared in the *Price Sun Advocate*, *Emery County Progress*, and on KOAL radio.



Above: (Pre-construction) Partially collapsed culvert wall
Below: (Post-construction) Repaired culvert wall



The AMRP in the Division of Oil, Gas and Mining, Utah Department of Natural Resources was created in 1983 to address physical safety hazards associated with abandoned mines as authorized by the Surface Mining Reclamation and Control Act (SMCRA) of 1977. The Program is funded by The Utah Coal Producers who pay an abandoned mine reclamation fee to the Office of Surface Mining (OSM) on each ton of coal mined in Utah.

Owner:
ANR Company Inc.

General Contractor:
NELCO Contractors

AMRP Project Manager: Kent Phillips



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Mohrland Culvert Maintenance, 2017 -- Construction Summary

The purpose of this project was to repair the partial collapse of a historic stone culvert located at the Mohrland Mine. In order to complete the repair, over 350 cubic yards of material was first removed to expose the stone culvert wall. Next, the collapsed stone was hoisted out of the trench and stockpiled on-site to provide a sufficient working area for the crew. The culvert could then be shored and braced to prevent further collapse. Following stabilization, the stone was hoisted back into the trench, chiseled and cut as needed, and the wall carefully rebuilt by a skilled mason in order to preserve the cultural integrity of the site. A 28 cubic yard cement retaining wall was then poured, using the stone wall as the inside form. The retaining wall was allowed four days to cure and then the trench was backfilled with the excavated material. A perforated PVC and gravel drain was also installed in the trench to stimulate drainage into the culvert.

Change Orders

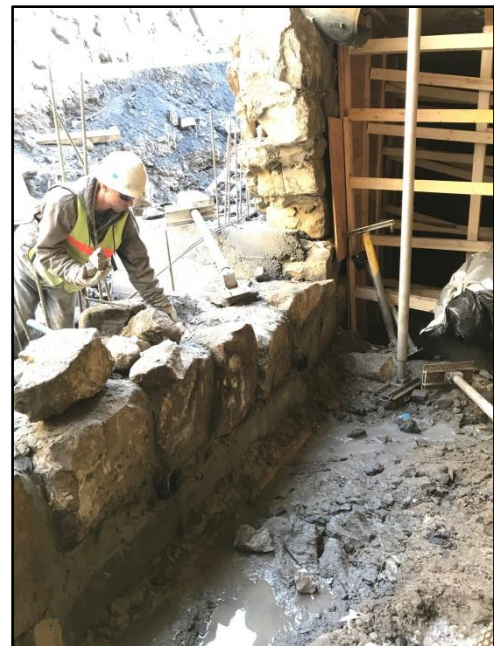
Change Order #1: \$6,518.72

-Delete Bid Items #1 (clean road culverts) & #2 (erosion repair)

-Add additional excavation, retaining wall yardage, and shoring due to partial collapse during construction

Monitoring And Maintenance

Emery County should continue monitoring the Mohrland culvert and tributary culverts for debris.



Above: Stone mason fits cut native stone into wall, taking care to preserve cultural integrity
Left: Form and shoring in-place for cement retaining wall

Mohrland Culvert Maintenance Project:
AMLIS KEY: UT099
Completed: 12/12/2017

Construction Cost:
\$ 115,888.72