

MISSOURI HEIGHTS – MOUNTAIN MEADOW IRRIGATION COMPANY

P O Box 548

Carbondale, CO 81623

May 24, 2020

State of Colorado
Colorado Water Conservation Board
Department of Natural Resources
Attn.: Cole Bedford, Project Manager, Finance Section
Denver, Colorado, 80203

RE: Final Report WSRF Grant – POGG1 2020-2754 – Ditch Lining Final Phase B2
Approved January 15, 2020
Colorado River Basin Round Table

Mr. Cole Bedford,

We would like to thank you and the staff of the Colorado Water Conservation Board for your assistance and financial funding of our project. The Missouri Heights – Mountain Meadow Irrigation Company Final Phase has been completed. The project includes the design and installation of 2,295 feet of 36 inch HDPE pipe, 3,221 feet of 42 inch HDPE pipe, 15 cubic yards of concrete in junction box structure and a concrete outlet structure. The work was designed and supervised by USDA Natural Resources Conservation Service (NRCS) personnel in the Glenwood Springs, CO field office.

All work was completed under a single task called “Construction”. Field construction work started during last half of January of 2020. The pipeline and structures needed to be in place before spring irrigation season of 2020.


Included in the construction was delivery of necessary excavators, dozers, backhoes, pipe, mulching material and seed to finalize the project just prior to their need on the project site.

Earth moving was completed in segments as the pipeline installation progressed through the ditch. This included the removal of vegetation and rock, as well as the completion of a smooth bed on which to lay the pipe.

The final graded area and reclamation area of approximately 11 acres was mulched and seeded.

The project will serve to significantly reduce water loss in the ditch conveyance system. Historically, this segment alone was losing as much as 7 cfs due to seepage. Saving this amount of water will allow water stored in the reservoir to provide another irrigation for most of the acres served by this lateral.

Again, this effort would not have been possible without the assistance of the Colorado Water Conservation Board and staff.

A handwritten signature in blue ink, reading "Leslie H. Lewis".

Leslie Lewis, Treasurer
Missouri Heights - Mountain Meadow Irrigation Company
gaylord.lewis@gmail.com
970 963 3653

Attachments:

- A - Engineering Certification Co. Eng. 12 with as build information
- B - Invoices for work

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2020 Irrigation Pipeline Final Project Highline Ditch



Ditch turnout structure giving positive control of irrigation water to the proper place and proper time.

On site storage of HDPE irrigation pipe before use.





Construction of trench and preparing the bedding material for HDPE pipe.

Pipe installation with the use of excavators in handling the pipe and clearing the trench of large rock.





Excavator sorting large rock from finer materials to be used for bedding against the pipe.

Removing larger rock and excavation of the trench. Large boulders and rock add to the cost of this project. This large fractured rock was the cause of water loss through this area.





Forming of the connection box
at the end of one of the section
of pipe.

Forming of the inlet structure.





Splitter box for water to go to separate ranches.

Structure to change from one size of pipe to another and to divert water to other users along the ditch.





Another splitter box with water flowing after completion of the pipeline. Area has been smoothed, seeded and mulched as part of the final reclamation.

Buried pipeline after final grading, seeding and mulching of pipeline scar.





A concrete structure used to reduce to a smaller pipe, provide access for cleaning and repair of pipe if needed. Also has a screen cover to keep people, wildlife and trash out of the system.

end