



WATER-RIGHT DOCKET

Craters of the Moon National Monument

Docket No: 2

LITTLE COTTONWOOD CREEK AND SPRINGS.

Preliminary Docket Information

07-21-1927: water docket information ; july 21, 1927

WATER DOCKET INFORMATION

A R E A CRATERS OF THE MOON N. M.

DOCKET NO. 1

APPLICATION NO. 23630 SUPPLEMENTAL APPLICATION 36950

PERMIT NO. 16711 - SUPPLEMENTAL 28964

CERTIFICATE NO.

TITLE OF DOCKET HEADQUARTERS WATER SYSTEM

PRIORITY JULY 21, 1927

REMARKS:



STATE OF IDAHO
OFFICE OF THE ATTORNEY GENERAL
BOISE 83720-1000

LARRY ECHOHAWK
ATTORNEY GENERAL

TELEPHONE
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NATURAL RESOURCES
TELECOPIER
(208) 334-2890

June 11, 1992

Peter Monson
U.S. Department of Justice
Enviro. & Natural Res. Division
Indian Resources Section, Rm. 6702
P.O. Box 44378
Washington, D.C. 20026-4378

Re: Executed Settlement Agreements for Craters of the Moon
National Monument and Yellowstone National Park.

Dear Mr. Monson:

Enclosed are two executed originals for each of the following two Settlement Agreements: (1) Craters of the Moon National Monument and (2) Yellowstone National Park. The State of Idaho is retaining two originals of each of these settlement agreements and one original for submission with the Director's Report.

We are pleased that the United States and the State of Idaho reached agreement on the scope of the water rights for these federal reservations in Idaho.

Sincerely,

A handwritten signature in cursive script, reading "Clive J. Strong".

Clive J. Strong
Deputy Attorney General
Chief, Natural Resources Division

CJS/cjc

cc: Owen Williams
David B. Shaw

L2160NBA

STATE OF IDAHO
OFFICE OF THE ATTORNEY GENERAL
BOISE 83720-1000



Owen Williams
Chief, Water Rights Branch
National Park Service
419 Canyon Avenue, Suite 315
Fort Collins, CO 80521



Peter

INDIAN RESOURCES SECTION
DIVISION

92 JUN 18 PM 2:18

INDIAN RESOURCES SECTION

WATER RIGHTS AGREEMENT BETWEEN THE STATE OF IDAHO
AND THE UNITED STATES FOR THE
CRATERS OF THE MOON NATIONAL MONUMENT

The State of Idaho and the United States agree as follows:

1. Preamble

- 1.1 The State of Idaho, pursuant to Idaho Code § 42-1406A (1990), has commenced in the Fifth Judicial District Court of the State of Idaho in and for the County of Twin Falls a general adjudication of the rights to the use of the water from that portion of the Snake River Basin located within the State of Idaho.
- 1.2 Idaho Code § 42-1409(3) (1990) provides that a claimant of a water right reserved under federal law may submit a negotiated agreement between the State of Idaho and the claimant in lieu of a notice of claim.
- 1.3 Executive Order Nos. 85-9, 87-9, and 91-8 provide that it is in the interest of the State of Idaho to quantify federal reserved water rights through negotiations.
- 1.4 The State of Idaho and the United States desire to exercise the right to submit a negotiated agreement quantifying the rights of the United States to the use of water, pursuant to both federal and Idaho law, for the Craters of the Moon National Monument.

2. Definitions

2.1 The following definitions apply for the purpose of this Agreement:

- .1 "Acre foot" or "AF" means the amount of water necessary to cover one acre of land to a depth of one foot and is equivalent to 43,560 cubic feet or 325,851 gallons.
- .2 "Acre feet per year" or "AFY" means the number of acre feet of water used in a calendar year commencing January 1 and ending December 31.
- .3 "Annual diversion volume" means the maximum volume of water in AFY that can be diverted or stored by the holder of a water right.
- .4 "Annual volume of consumptive use" means the maximum volume of water in AFY that can be consumptively used by the holder of a water right.
- .5 "Aquifer" means a geologic formation, group of formations, or part of a formation or other body of earth material capable of transmitting water at a rate sufficient for water supply purposes.
- .6 "Basis of right" refers to the legal authority pursuant to which the water right is established or the document by which the right is evidenced.
- .7 "Consumptive use" means the amount of water that is used by any action or process and is not returned to the water system. For an instream flow right, the

term "natural consumption" shall mean consumption of water by natural processes.

- .8 "Craters of the Moon National Monument" or "Monument" means all lands within the exterior boundaries of the area described on the boundary map which is attached hereto as Attachment I and incorporated herein by reference. The following proclamations, which are attached hereto as Attachment II and incorporated herein by reference, describe lands that are included or excluded from the Monument:
 - .i Proclamation No. 1694, 43 Stat. 1947 (May 2, 1924), designated as Area A on Attachment I.
 - .ii Proclamation No. 1843, 45 Stat. 2959 (July 23, 1928), designated as Area B on Attachment I.
 - .iii Proclamation No. 1916, 46 Stat. 3029 (July 9, 1930), designated as Area C on Attachment I.
 - .iv Proclamation No. 3506, 77 Stat. 960 (November 19, 1962), designated as Area D on Attachment I.
 - .v Proclamation No. 2499, 55 Stat. 1660 (July 18, 1941), which excludes certain lands from this federal reservation.
- .9 "Date of Priority" means the priority date assigned to the water right.
- .10 "Director" means the Director of the Idaho Department of Water Resources or any successor.

- .11 "Diversion" means the removal of water from its natural course or location by means of a ditch, canal, flume, bypass, pipeline, conduit, well, pump, or other act of man, or the impoundment of water in a reservoir.
- .12 "Ground water" means any water contained in an aquifer.
- .13 "Idaho Department of Water Resources" or "IDWR" means, the executive agency of the State of Idaho created by Idaho Code § 42-1701 (1990), or any successor agency.
- .14 "Idaho Water Resource Board" means the Idaho State Water Resource Agency constituted in accordance with Idaho Const. art. XV, § 7, or any successor agency.
- .15 "Instream flow use" means the use of water for the maintenance of natural stream conditions.
- .16 "Monument commercial use" means the use of water for the maintenance and administration of the Monument, including visitor centers and other related facilities.
- .17 "Monument domestic use" means the use of water for homes, organization camps, and public campgrounds within the Monument for visitors and Monument personnel use.
- .18 "Monument irrigation use" means the application of water to the land surface or root zone of the soil for the purpose of producing a garden, lawn, or landscaping on Monument lands.

- .19 "Parties" means the United States and the State of Idaho.
- .20 "Perched ground water" means unconfined subsurface water separated from an underlying body of ground water by unsaturated material.
- .21 "Period of use" means the time of the year when water may be used for a particular purpose.
- .22 "Person" means an individual, a partnership, a trust, an estate, a corporation, a municipal corporation, the State of Idaho or any political subdivision, the United States, an Indian tribe, or any other public or private entity. Idaho Code § 42-1401A(8) (1990).
- .23 "Place of use" means the location where water is used.
- .24 "Point of diversion" means any location at which water is diverted from the water system.
- .25 "Purpose of use" means the nature of use of the water right.
- .26 "Right number" means the number assigned to each decreed water right for purposes of identification. The first two numerals of the right number indicate the IDWR's hydrologic basin number.
- .27 "Snake River Basin Adjudication" or "SRBA" means Civil Case No. 39576 filed in the Fifth Judicial District Court of the State of Idaho in and for Twin Falls County on June 17, 1987 entitled "In Re the General Adjudication of Rights to the Use of Water from the

Snake River Basin Water System," which was commenced pursuant to Idaho Code § 42-1406A (1990).

- .28 "Snake River Regional Aquifer," also known as the "Snake Plain Aquifer," refers to the aquifer underlying the Monument, which is composed of a heterogeneous body of permeable material which acts as a water-yielding hydrological unit of regional extent.
- .29 "Source" means the named or described source of water within the water system.
- .30 "Spring" means a concentrated discharge of subsurface water to the ground surface.
- .31 "Surface water" means any lake, spring, creek, stream, river, or other natural body of standing or moving water on the surface of the earth.
- .32 "United States" means the United States of America.
- .33 "Water Table" means the upper surface of a zone of saturation where the body of ground water is not confined by an overlying impermeable formation. Where an overlying impermeable confining formation exists, the aquifer in question has no water table.

3. Scope of Agreement

- 3.1 The purpose of this Agreement is to quantify all existing rights of the United States under state and federal law for present and future use of water for the Monument.

- 3.2 This Agreement relates to all waters on, under, adjacent to, or otherwise appurtenant to the Monument in the State of Idaho.

4. Parties and Authority

- 4.1 The Governor has authority to execute this Agreement pursuant to Idaho Constitution art. IV, § 5, and Idaho Code § 67-802 (1990).
- 4.2 The Idaho Attorney General, or any duly designated official of the Office of the Idaho Attorney General, has authority to execute this Agreement pursuant to the authority to settle litigation as provided for in Idaho Constitution, art. IV, § 1, and Idaho Code § 67-1401 (1990).
- 4.3 The Idaho Water Resource Board has authority to execute this Agreement pursuant to Idaho Code § 42-1734(3) (1990) and Executive Order Nos. 85-9, 87-9, and 91-8.
- 4.4 The United States Attorney General, or any duly designated official of the United States Department of Justice, has authority to execute this Agreement on behalf of the United States pursuant to the authority to settle litigation contained in 28 U.S.C. § 516-517 (1982).
- 4.5 The Secretary of the Interior, or any duly designated official of the United States Department of the Interior, has authority to execute this Agreement on behalf of the United States Department of Interior pursuant to 43 U.S. C. § 1457 (1982).

5. Water Rights of the United States for the Monument

- 5.1 The name and address of the claimant for all the water rights negotiated and settled by this Agreement is as follows:

United States of America
c/o National Park Service
Pacific Northwest Regional Office
83 South King Street, Suite 212
Seattle, WA 98121

- 5.2 Water Rights for Consumptive Use in Area A:

- .1 Right No. 34-12383, also known as 36-15342.
 - .i Source: All surface water and ground water sources arising on, occurring on, or under, Area A as shown on Attachment I.
 - .ii Annual Diversion Volume: The maximum annual diversion volume for all consumptive use water rights set forth in this Agreement is 54.5 AFY, except as provided in Article 5.10 *infra*.
 - .iii Date of Priority: May 2, 1924.
 - .iv Points of Diversion: Any point within Area A as shown on Attachment I.
 - .v Purpose of Use: Monument commercial use, Monument domestic use, and Monument irrigation use.
 - .vi Period of Use: January 1 - December 31.
 - .vii Annual Volume of Consumptive Use: The maximum consumptive use for all consumptive use water rights set forth in this Agreement is 19.9 AFY.

The quantity consumed for fire suppression in accordance with Article 5.10, *infra*, is not limited by this Agreement.

- .viii Place of Use/Legal Description of Reservation:
Any place within the boundaries of the Monument.
- .ix Basis of Right: Reservation under Proclamation No. 1694.
- .x Comments: No diversions presently exist.

5.3 Water Rights for Non-consumptive Use in Area A:

- .1 Right No. 34-12384, also known as 36-15343.
 - .i Source: All surface water within Area A as shown on Attachment I.
 - .ii Amount of Water: Entire flow of each source in excess of amount diverted by Right No. 34-12383, also known as 36-15342 [Article 5.2.1].
 - .iii Date of Priority: May 2, 1924.
 - .iv Beginning and Ending Point of Instream Flow or Location of Each Source: Within Area A as shown on Attachment I.
 - .v Purpose of Use: Instream flow uses.
 - .vi Period of Use: January 1 - December 31.
 - .vii Annual Volume of Consumptive Use: None other than natural consumption.

- .viii Place of Use/Legal Description of Reservation:
Within Area A as shown on Attachment I.
- .ix Basis of Right: Reservation under Proclamation
No. 1694.
- .x Comments: None.

5.4 Water Rights for Consumptive Use in Area B:

- .1 Right No. 34-12385, also known as 36-15344.
 - .i Source: All surface water and ground water
sources arising on, occurring on, or under Area
B as shown on Attachment I, including but not
limited to Little Cottonwood Creek and its
tributaries.
 - .ii Annual Diversion Volume: The maximum annual
diversion volume for all consumptive use water
rights set forth in this Agreement is 54.5 AFY,
except as provided in Article 5.10, *infra*.
 - .iii Date of Priority: July 23, 1928
 - .iv Points of Diversion: Any point within Area B
as shown on Attachment I.
 - .v Purpose of Use: Monument commercial use,
Monument domestic use, and Monument irrigation
use.
 - .vi Period of Use: January 1- December 31
 - .vii Annual Volume of Consumptive Use: Included in
Right No. 34-12383, also known as 36-15342
[Article 5.2.1]. The quantity consumed for

fire suppression in accordance with Article 5.10 *infra* is not limited by this Agreement.

- .viii Place of Use/Legal Description of Reservation:
Any place within the boundaries of the Monument.
- .ix Basis of Right: Reservation under Proclamation No. 1843.
- .x Comments: The present diversions are from surface water and from a perched ground water aquifer.

5.5 Water Rights for Non-consumptive Use in Area B:

- .1 Right No. 34-12386.
 - .i Source: Little Cottonwood Creek
 - .ii Amount of Water: Entire flow of source in excess of amount diverted by Right No. 34-12385, also known as 36-15344 [Article 5.4.1].
 - .iii Date of Priority: July 23, 1928.
 - .iv Beginning and Ending Point of Instream Flow:
Beginning in the headwaters of Little Cottonwood Creek in Section 21, and in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ and S $\frac{1}{2}$ SE $\frac{1}{4}$ Section 16, all in Township 2 North, Range 24 East, Boise Meridian, and wholly within the Monument's boundaries; and ending where the stream disappears, in the SW $\frac{1}{4}$

NE $\frac{1}{4}$ of unsurveyed Section 27, Township 2 North,
Range 24 East, Boise Meridian.

- .v Purpose of Use: Instream flow uses.
 - .vi Period of Use: January 1 - December 31.
 - .vii Annual Volume of Consumptive Use: None other than natural consumption.
 - .viii Place of Use/Legal Description of Reservation.
Within Area B as shown on Attachment I.
 - .ix Basis of Right: Reservation under Proclamation No. 1843.
 - .x Comments: None.
- .2 Right No. 34-12387.
- .i Source: Unnamed stream which is a tributary of Little Cottonwood Creek.
 - .ii Amount of Water: Entire flow of source in excess of amount diverted by Right No. 34-12385, also known as 36-15344 [Article 5.4.1].
 - .iii Date of Priority: July 23, 1928.
 - .iv Beginning and Ending Point of Instream Flow:
Beginning where the unnamed tributary crosses the exterior boundary of the Monument at approximately 1,300 feet west and 1,000 feet south of the Northeast Corner of Section 28 (SW $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$), Township 2 North, Range 24 East, Boise Meridian; and ending at the stream's confluence with Little Cottonwood Creek in the

SE $\frac{1}{4}$ NW $\frac{1}{4}$ of unsurveyed Section 27, Township 2
North, Range 24 East, Boise Meridian.

- .v Purpose of Use: Instream flow uses.
- .vi Period of Use: January 1 - December 31
- .vii Annual Volume of Consumptive Use: None other
than natural consumption.
- .viii Place of Use/Legal Description of Reservation:
Within Area B as shown on Attachment I.
- .ix Basis of Right: Reservation under Proclamation
No. 1843.
- .x Comments: None.

5.6 Water Rights for Consumptive Use in Area C:

- .1 Right No. 34-12388.
 - .i Source: All surface water and ground water
sources arising on, occurring on, or under Area
C as shown on Attachment I.
 - .ii Annual Diversion Volume: The maximum annual
diversion volume for all consumptive use water
rights set forth in this Agreement is 54.5 AFY,
except as provided in Article 5.10, *infra*.
 - .iii Date of Priority: July 9, 1930.
 - .iv Points of Diversion: Any point within Area C
as shown on Attachment I.
 - .v Purpose of Use: Monument commercial use,
Monument domestic use, and Monument irrigation
use.

- .vi Period of Use: January 1- December 31
- .vii Annual Volume of Consumptive Use: Included in Right No. 34-12383, also known as 36-15342 [Article 5.2.1]. The quantity consumed for fire suppression in accordance with Article 5.10 *infra* is not limited by this Agreement.
- .viii Place of Use/Legal Description of Reservation: Any place within the boundaries of the Monument.
- .ix Basis of Right: Reservation under Proclamation No. 1916.
- .x Comments: No diversions presently exist.

5.7 Water Rights for Non-consumptive Use in Area C:

- .1 Right No. 34-12389.
 - .i Source: Surface water within Area C as shown on Attachment I.
 - .ii Amount of Water: Entire flow of surface water in excess of amount diverted by Right No. 34-12388 [Article 5.6.1].
 - .iii Date of Priority: July 9, 1930.
 - .iv Beginning and Ending Point of Instream Flow or Location of Each Source: Within Area C as shown on Attachment I.
 - .v Purpose of Use: Instream flow uses.
 - .vi Period of Use: January 1 - December 31.

- .vii Annual Volume of Consumptive Use: None other than natural consumption.
- .viii Place of Use/Legal Description of Reservation: Within Area C as shown on Attachment I.
- .ix Basis of Right: Reservation under Proclamation No. 1916.
- .x Comments: None.

5.8 Water Rights for Consumptive Use in Area D:

- .1 Right No. 36-15345.
 - .i Source: All surface water and ground water sources arising on, occurring on, or under Area D as shown on Attachment I.
 - .ii Annual Diversion Volume: The maximum annual diversion volume for all consumptive use water rights set forth in this Agreement is 54.5 AFY, except as provided in Article 5.10, *infra*.
 - .iii Date of Priority: November 19, 1962.
 - .iv Points of Diversion: Any point within Area D as shown on Attachment I.
 - .v Purpose of Use: Monument commercial use, Monument domestic use, and Monument irrigation use.
 - .vi Period of Use: January 1 - December 31
 - .vii Annual Volume of Consumptive Use: Included in Right No. 34-12383, also known as 36-15342 [Article 5.2.1]. The quantity consumed for

fire suppression in accordance with Article
5.10 *infra* is not limited by this Agreement.

.viii Place of Use/Legal Description of Reservation:
Any place within the boundaries of the
Monument.

.ix Basis of Right: Reservation under Proclamation
No. 3506.

.x Comments: No diversions presently exist.

5.9 Water Rights for Non-consumptive Use in Area D:

.1 Right No. 36-15346.

.i Source: All surface water within Area D as
shown on Attachment I.

.ii Amount of Water: Entire flow of surface water
in excess of amount diverted by Right
No. 36-15345 [Article 5.8.1].

.iii Date of Priority: November 19, 1962.

.iv Beginning and Ending Point of Instream Flow:
Within Area D as shown on Attachment I.

.v Purpose of Use: Instream flow uses.

.vi Period of Use: January 1 - December 31.

.vii Annual Volume of Consumptive Use: None other
than natural consumption.

.viii Place of Use/Legal Description of Reservation:
Within Area D as shown on Attachment I.

.ix Basis of Right: Reservation under Proclamation
No. 3506.

.x Comments: None.

5.10 The United States may also divert water for fire suppression in accordance with the following paragraph to be included in the final decree in this matter:

"The use of water for fire suppression benefits the public. Water diverted for fire suppression may be taken randomly, without a definition of the specific elements of a recordable water right, and if so diverted for fire suppression, existing water rights shall not be diminished."

5.11 The rights described in this Agreement are Federal Reserved Water Rights with all the characteristics appertaining thereto. Non-use of all or any part of the Federal Reserved Water Rights shall not constitute a relinquishment, forfeiture or abandonment of the rights.

5.12 The United States shall not change any element of any Federal Reserved Water Right described in Article 5.

5.13 For purposes of this Agreement only, the surface water within the Monument boundaries and perched ground water underlying the Monument shall be treated as a self-contained water system. If the United States believes, however, that proposed or existing water uses or diversions outside the boundaries of the Monument will adversely affect or are adversely affecting the Monument's water

rights from surface water or perched ground water as defined in this Agreement, the United States may seek relief against those uses or diversions outside the boundaries of the Monument, except as provided in paragraph 5.14.

- 5.14 For purposes of this Agreement only, the United States disclaims any right to seek on behalf of the Monument the maintenance of any specific water table elevation in the Snake River Regional Aquifer.

6. Finality of Settlement Agreement

- 6.1 The parties understand that this Agreement will be submitted to the Director in lieu of a notice of claim in the Snake River Adjudication, that the Director will submit this Agreement and an abstract of this Agreement to the Fifth Judicial District Court of the State of Idaho in and for the County of Twin Falls as part of a Director's Report, and that state law allows other persons not a party to this Agreement to file objections to the approval of this Agreement by the District Court.
- 6.2 The United States agrees that License Nos. 34-2381 [old no. 28964] and 34-2254 [old no. 16711] will be superseded by the water rights identified herein, only upon completion of all judicial proceedings, including appeals if any, together with entry of a final decree containing the water rights set forth in this Agreement.

- 6.3 The parties agree to move the Court for adoption of a decree awarding the United States the water rights set forth in this Agreement, and to jointly support and defend this Agreement against any and all objections or other challenges that may arise in any phase of the SRBA, including any appeals, and in securing any necessary ratification of the Agreement. If the Court, after notice and hearing, fails to approve the terms of this Agreement, then this Agreement shall be null and void.
- 6.4 The United States' water rights for the Monument confirmed in Article 5 shall be final and conclusive as to all parties to the SRBA upon the completion of all judicial proceedings, including any appeals, relative to this Agreement.

7. Disclaimers and Reservation of Rights

- 7.1 Except for the United States' water rights recognized in Article 5, the United States hereby relinquishes forever any and all existing claims to water under federal and state law from any source for present and future use on the Monument.
- 7.2 This Agreement has been reached through good faith negotiations for the purpose of resolving legal disputes, including pending litigation, and all parties agree that no offers and/or compromises made in the course thereof shall be construed as admissions against interest or be used in any legal proceeding.

7.3 Entry of judgment as set forth above has been consented to by the parties without trial or adjudication of fact or law herein and without the judgment constituting evidence or an admission by any party with respect to any issue, which is, will be, or could be litigated in any proceeding other than the SRBA. See McShan v. Omega Louis Brandt et Frere, S.A., 536 F.2d 516, 519 (2d Cir. 1976). Once this Agreement becomes effective as provided by Article 13.1, the water right described in Article 5 of this Agreement shall be binding upon all parties to the SRBA, whether signatory to the Agreement or not.

7.4 Nothing in this Agreement shall be so construed or interpreted:

- .1 To establish any standard to be used for the quantification of Federal Reserved Water Rights in any judicial or administrative proceeding;
- .2 To determine the relative rights inter sese of persons using water under the authority of state law or to authorize the taking of a water right which is vested under state or federal law;
- .3 To limit in any way the rights of the parties or any person to litigate any issue or question not resolved by this Agreement;
- .4 To restrict the acquisition or exercise of an appropriative right to the use of water under state law for the Monument, provided the water rights confirmed in the Agreement have been fully used at the

time the application is made, or are not physically available for use through reasonable diversion facilities.

.5 To restrict the power of the United States to reserve water in the future, in accordance with applicable law.

7.5 The parties are unable to agree upon who may administer the water rights set forth in this Agreement. Accordingly, this Agreement does not address or resolve this issue. Each party reserves the right to litigate the issue of administration, if and when the need arises.

8. Severability

8.1 This Agreement is not severable.

9. Successors

9.1 This Agreement shall bind and inure to the benefit of the respective successors of the parties.

10. Entire Agreement

10.1 This Agreement sets forth all the covenants, promises, provisions, agreements, conditions, and understandings between the parties and there are no covenants, provisions, promises, agreements, conditions, or understandings, either oral or written between them other than are herein set forth.

11. Effect of Headings

11.1 Headings appearing in this Agreement are inserted for convenience and reference and shall not be construed as interpretations of the text.

12. Multiple Originals

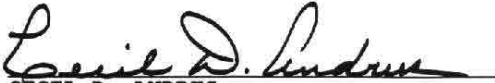
12.1 This Agreement is executed in quintuplicate. Each of the five (5) Agreements with an original signature of each party shall be an original.

13. Effective Date

13.1 This Agreement shall be effective when all of the following events have occurred:

- .1 This Agreement is executed; and
- .2 The water rights described in Article 5 of this Agreement have been confirmed in a decree in the SRBA and such decree has become final and nonappealable.

The parties have executed this Agreement on the date following their respective signatures.


CECIL D. ANDRUS
Governor, State of Idaho

5-13-92
Date


LARRY ECHOHAWK
Attorney General, State of Idaho

5-14-92
Date


F. DAVE RYDALCH
Chair, Idaho Water Resource Board

1/16/1992
Date


United States Dept. of the Interior

1/24/92
Date


United States Department of Justice

1/17/92
Date

LOCATION AND DATE OF LAND RESERVATION

CRATERS OF THE MOON NATIONAL MONUMENT

ATTACHMENT I

LEGEND

Presidential Proclamation
No. 1694 dated May 2, 1924
(43 Stat. 1947)



Area A

Presidential Proclamation
No. 1843 dated July 23, 1928
(45 Stat. 2669)



Area B

Presidential Proclamation
No. 1916 dated July 9, 1930
(46 Stat. 3029)



Area C

Presidential Proclamation
No. 3506 dated November 19, 1962
(77 Stat. 907)

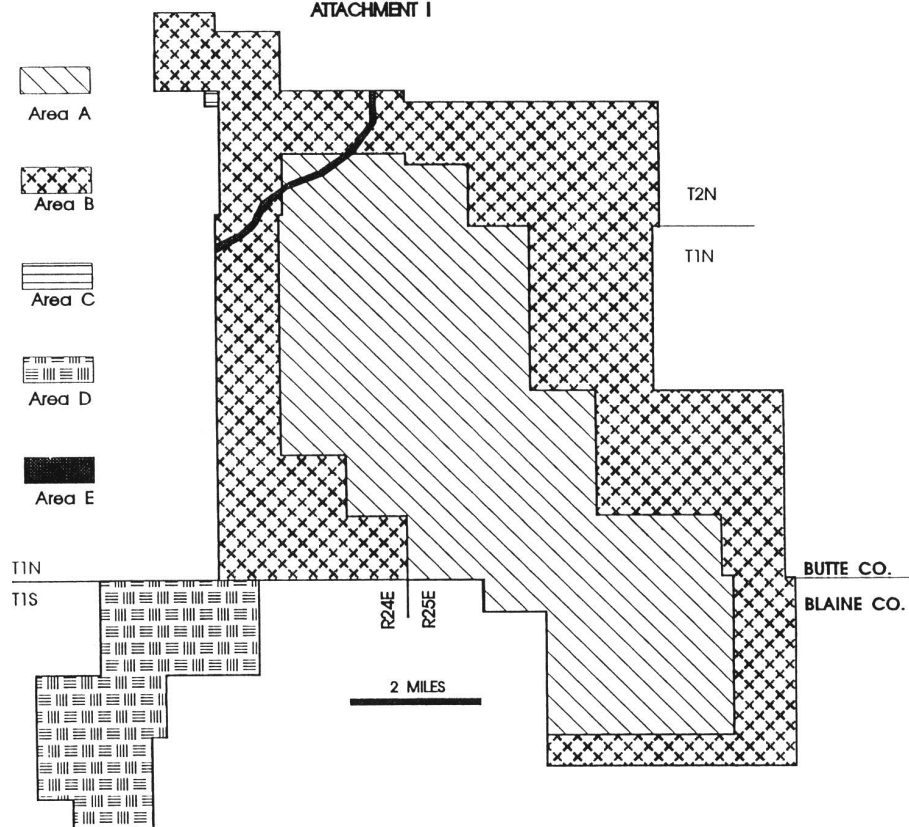


Area D

Presidential Proclamation
No. 2499 dated July 18, 1941
(55 Stat. 1657)



Area E



ATTACHMENT II

Presidential Proclamations

Craters of the Moon National Monument

- A. Presidential Proclamation No. 1694 dated May 2, 1924
(43 Stat. 1947)
- B. Presidential Proclamation No. 1843 dated July 23, 1928
(45 Stat. 2959)
- C. Presidential Proclamation No. 1916 dated July 9, 1930
(46 Stat. 3029)
- D. Presidential Proclamation No. 3506 dated November 19, 1962
(77 Stat. 960)
- E. Presidential Proclamation No. 2499 dated July 18, 1941
(55 Stat. 1660)

BY THE PRESIDENT OF THE UNITED STATES OF AMERICA

A PROCLAMATION

[No. 1694—May 2, 1924—5 Stat. 1947]

WHEREAS, there is located in townships one south, one and two north, ranges twenty-four and twenty-five east of the Boise Meridian, in Butte and Blaine Counties, Idaho, an area which contains a remarkable fissure eruption together with its associated volcanic cones, craters, rifts, lava flows, caves, natural bridges, and other phenomena characteristic of volcanic action which are of unusual scientific value and general interest; and

WHEREAS, this area contains many curious and unusual phenomena of great educational value and has a weird and scenic landscape peculiar to itself; and

WHEREAS, it appears that the public interest would be promoted by reserving these volcanic features as a National Monument, together with as much land as may be needed for the protection thereof.

NOW, THEREFORE, I, Calvin Coolidge, President of the United States of America, by authority of the power in me vested by section two of the act of Congress entitled, "An Act for the preservation of American antiquities," approved June eighth, nineteen hundred and six (34 Stat., 225) do proclaim that there is hereby reserved from all forms of appropriation under the public land laws, subject to all valid existing claims, and set apart as a National Monument all that piece or parcel of land in the Counties of Butte and Blaine, State of Idaho, shown as the Craters of the Moon National Monument upon the diagram hereto annexed and made a part hereof.

Warning is hereby expressly given to all unauthorized persons not to appropriate, injure, destroy or remove any feature of this Monument and not to locate or settle upon any of the lands thereof.

The Director of the National Park Service, under the direction of the Secretary of the Interior, shall have the supervision, management, and control of this Monument as provided in the act of Congress entitled, "An Act to establish a National Park Service and for other purposes," approved August twenty-fifth, nineteen hundred and sixteen (39 Stat., 535) and Acts additional thereto or amendatory thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the seal of the United States to be affixed.

DONE in the City of Washington this 2d day of May in the year of our Lord one thousand nine hundred and twenty-four and of the [SEAL] Independence of the United States of America the one hundred and forty-eighth.

CALVIN COOLIDGE.

By the President:
CHARLES E. HUGHES,
Secretary of State.

BY THE PRESIDENT OF THE UNITED STATES OF AMERICA

A PROCLAMATION

[No. 1843—July 23, 1923—45 Stat. 2959]

WHEREAS, it appears that the public interest would be promoted by adding to the Craters of the Moon National Monument in the State of Idaho, certain adjoining lands for the purpose of including within said monument certain springs for water supply and additional features of scientific interest located thereon.

Now, THEREFORE, I, Calvin Coolidge, President of the United States of America, by authority of the power in me vested by section two of the act of Congress entitled, "An Act for the Preservation of American antiquities", approved June eighth, nineteen hundred and six (34 Stat., 225), do proclaim that Sections sixteen, twenty-one, twenty-two, twenty-five, twenty-six, twenty-seven, and thirty-four in Township two North, Range twenty-four East; Unsurveyed Sections twenty-seven, twenty-eight, twenty-nine, thirty, thirty-two, thirty-three and thirty-four in Township two North, Range twenty-five East; Unsurveyed Sections three, ten, fifteen, twenty-two, twenty-six, twenty-seven, thirty-four, thirty-five and thirty-six in Township ten, fifteen, sixteen, twenty-two, twenty-three, twenty-four, twenty-five, twenty-six, twenty-seven and thirty-six in Township one North, Range twenty-five East; Unsurveyed Sections one, twelve, thirteen and the north half of Sections twenty-one, twenty-two, twenty-three and twenty-four in Township one South, Range twenty-five East; all Boise Meridian, Idaho; are hereby reserved from all forms of appropriation under the public land laws, subject to all valid existing claims, and set apart as an addition to the Craters of the Moon National Monument and that the boundaries of the said National Monument are now as shown on the diagram hereto annexed and made a part hereof.

Warning is hereby expressly given to all unauthorized persons not to appropriate, injure, destroy or remove any feature of this Monument and not to locate or settle upon any of the lands thereof.

The Director of the National Park Service, under the direction of the Secretary of the Interior, shall have the supervision, management, and control of this Monument as provided in the Act of Congress entitled "An Act to establish a National Park Service and for other purposes," approved August twenty-fifth, nineteen hundred and sixteen (39 Stat., 555) and Acts additional thereto or amendatory thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the seal of the United States to be affixed.

DONE at the City of Washington this 23 day of July in the year of our Lord one thousand nine hundred and twenty-eight and of the [SEAL] Independence of the United States of America the one hundred and fifty-third.

CALVIN COOLIDGE.

By the President:
FRANK B. KELLOGG,
Secretary of State.

BY THE PRESIDENT OF THE UNITED STATES OF AMERICA

A PROCLAMATION

[No. 1916—July 9, 1930—46 Stat. 1029]

WHEREAS lot 1, section 28, township 2 north, range 24 east, Boise meridian, Idaho, is bounded on the north and east by the Craters of the Moon National Monument; and

WHEREAS said lot 1, section 28, contains a spring which is needed to furnish the said monument with an adequate water supply; and

WHEREAS said lot 1, section 28, is vacant unappropriated public land of the United States;

NOW, THEREFORE, I, Herbert Hoover, President of the United States of America, do proclaim that the lands hereinafter described shall be, and are hereby, added to and included within the Craters of the Moon National Monument, and as part of said monument shall be, and are hereby, made subject to the provisions of the act of August 25, 1916 (39 Stat. 555), entitled "An act to establish a national park service, and for other purposes" and all acts supplementary thereto and amendatory thereof and all other laws and rules and regulations applicable to, and extending over, the said monument:

BOISE MERIDIAN

In township 2 north, range 24 east, lot 1, section 28.

Nothing herein shall affect any existing valid claim, location, or entry on said lands made under the land laws of the United States whether for homestead, mineral, right of way, or any other purposes whatsoever, or shall affect the right of any such claimant, locator, or entryman to the full use and enjoyment of his land.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the seal of the United States to be affixed.

DONE at the City of Washington this 9th day of July, in the year of our Lord nineteen hundred and thirty, and of the Independence of [SEAL] the United States of America the one hundred and fifty-fifth.

HERBERT HOOVER.

By the President:

HENRY L. STIMSON,
Secretary of State.

Proclamation 3506

ADDITION TO THE CRATERS OF THE MOON NATIONAL
MONUMENT, IDAHO

November 19, 1962

By the President of the United States of America
A Proclamation

43 Stat. 1947.

WHEREAS the Craters of the Moon National Monument, Idaho, established by Proclamation No. 1654 of May 2, 1924, was reserved and set apart as an area that contains a remarkable fissure eruption, together with its associated volcanic cones, craters, rifts, lava flows, caves, natural bridges, and other phenomena characteristic of volcanic action that are of unusual scientific value; and

WHEREAS it appears that it would be in the public interest to add to the Craters of the Moon National Monument a 150-acre kipuka, a remnant of Hawaiian origin for an island of vegetation completely surrounded by lava, that is scientifically valuable for ecological studies because it contains a mature, native sagebrush-grassland association which has been undisturbed by man or domestic livestock; and to add to the monument the intervening lands between the kipuka and the present monument boundaries:

NOW, THEREFORE, I, JOHN F. KENNEDY, President of the United States of America, by virtue of the authority vested in me by Section 2 of the Act of June 8, 1906 (34 Stat. 225; 16 U.S.C. 497), and subject to valid existing rights do proclaim that the following-described lands are hereby added to and reserved as a part of the Craters of the Moon National Monument:

BOISE MERIDIAN, IDAHO

T. 1 S., R. 24 E.
sec. 3, W-1/4
All of section 4, S. 3, 9, 17, 18 and 19
sec. 10, W-1/4
sec. 20, W-1/4 and W-1/4 E-1/4
sec. 20, NW-1/4 and W-1/4 NE-1/4
sec. 30, NE-1/4;
comprising 5,260 acres, more or less.

Warning is hereby expressly given to all unauthorized persons not to appropriate, injure, destroy or remove any of the features or objects of this monument and not to locate or settle upon any of the lands thereof.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the Seal of the United States of America to be affixed.

DONE at the City of Washington this nineteenth day of November in the year of our Lord nineteen hundred and sixty-two, and [SEAL] of the Independence of the United States of America the one hundred and eighty-seventh.

JOHN F. KENNEDY

By the President:

DEAN RUSK,
Secretary of State.

BY THE PRESIDENT OF THE UNITED STATES OF AMERICA

A PROCLAMATION

[No. 2499—July 18, 1941—55 Stat. 1660]

WHEREAS it appears that certain public land which is now a part of the Craters of the Moon National Monument in the State of Idaho, established by proclamation of May 2, 1924, 43 Stat. 1947, and enlarged by proclamations of July 23, 1928, 45 Stat. 2959, and July 9, 1930, 46 Stat. 3029, is not necessary for the proper care and management of the objects of scientific interest situated on the lands within the said monument; and

WHEREAS it appears that such land is needed for the construction of Idaho State Highway No. 22, by the State of Idaho:

NOW, THEREFORE, I, Franklin D. Roosevelt, President of the United States of America, under and by virtue of the authority vested in me by section 2 of the act of June 8, 1906, c. 3060, 34 Stat. 225, U. S. C., title 16, sec. 431, do proclaim that a strip of land situated in section 3, Township 1 North, Range 24 East, and sections 25, 34, 35 and 36, Township 2 North, Range 24 East, Boise Meridian, Butte County, Idaho, as shown on a map prepared by the Department of Public Works, Bureau of Highways, State of Idaho, on file in the General Land Office, Department of the Interior, bearing the title

"FAP 128-E(1)

Map showing right-of-way across

Craters of the Moon National

Monument—Butte County—Idaho

February 1941 — Scale 1"=400'

is hereby excluded from the Craters of the Moon National Monument.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the seal of the United States to be affixed.

DONE at the City of Washington this 18th day of July in the year of our Lord nineteen hundred and forty-one, and of the Independence [SEAL] of the United States the one hundred sixty-sixth.

By the President:

FRANKLIN D. ROOSEVELT.

SUMNER WELLES.

Acting Secretary of State.

RECEIVED
U.S. WESTERN R. DIVISION
4 11

NOV 22 1966

Craters of the Moon National Monument
Arco, Idaho 83213

November 18, 1965

L 54

Mr. Carl E. Tappan
State Reclamation Engineer
Department of Reclamation
107 State House
Boise, Idaho 83701

RE: Permit No. 28964

Dear Mr. Tappan:

We enclose a money order for \$10.00 covering statutory fees for the Certificate of Completion of Works and License and Certificate of Water Right, as described in your letter of November 15.

Thank you very much for your cooperation.

Sincerely yours,

(Sgd) Roger J. Connor

Roger J. Contor
Superintendent

✓ copy to: Reg. Dir., Western Region
w/c of incoming

ROBERT E. SMYLYE
Governor

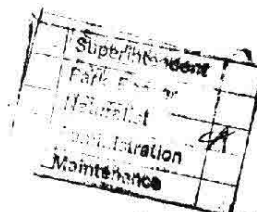


CARL E. TAPPAN
State Reclamation Engineer

STATE OF IDAHO

DEPARTMENT OF RECLAMATION
107 STATE HOUSE
BOISE, IDAHO 83701

November 15, 1965



RECEIVED

NOV 17 1965

CRMO

RE: Permit No. 28964

Daniel E. Davis, Superintendent
Craters of the Moon National Monument
Department of the Interior
Arco, Idaho

Dear Mr. Davis:

Our field engineer's report on his inspection of proof of completion of works and application of water to beneficial use under the terms of Permit No. 28964 shows the check dams, collection basins, storage reservoirs, and pipe line are capable of conveying 10 miner's or 0.20 c.f.s. of water for domestic use and irrigation.

Upon receipt of the statutory fees totaling \$10.00 we will issue the Certificate of Completion of Works and License and Certificate of Water Right, confirming the right, with priority of August 25, 1960, to the use of 0.20 c.f.s. of surface water from Little Cottonwood Springs, Little Cottonwood Creek and Unnamed Stream in the NW~~1~~SE~~1~~, SE~~1~~NW~~1~~ (2), NW~~1~~NE~~1~~, SW~~1~~NE~~1~~, Sec. 21; SW~~1~~NW~~1~~, Sec. 27, T. 2 N., R. 24 E.B.M. for domestic use and irrigation at the Craters of the Moon National Monument in the S~~1~~NE~~1~~, Sec. 35, T. 2 N., R. 24 E., B.M.

Very truly yours,

CARL E. TAPPAN
State Reclamation Engineer
By

Edna P. Rule
(Mrs.) Edna P. Rule
Chief Clerk

EPR:mr

Form 16
L.S.M. - 7-31-62

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

Permit No. 28964

PROOF OF APPLICATION OF WATER TO BENEFICIAL USE
and Completion of Works

DEPOSITION OF HOLDER

Ques. 1. State your name, residence, occupation and postoffice address: Daniel E. Davis,

Superintendent, Craters of the Moon National Monument, Arco, Idaho

Ques. 2. If acting in behalf of corporation, state its name, principal place of business (if a foreign corporation, give name of postoffice of statutory agent), your position with reference to same, and your authority for appearing in its behalf:

Craters of the Moon National Monument, National Park Service, Department of the Interior. Superintendent - in charge of the Monument.

Ques. 3. State number, approval date of permit, and date of priority you propose to establish under the permit; Permit # 28964, Approved September 1, 1960, date of priority September 21, 1963

Spring, (A) NW $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ NE $\frac{1}{4}$, of Sec. 21; Ques. 4. State source of water supply: (B) SW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 21 (C) SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 27 all in T2N, Give location of point of diversion, showing subdivision, section, township and range:

Ques. 5. Describe your works of diversion: Two small diversion dams were constructed at
diversion points (B) and (C) and connected to the existing water system by 2 inch pipe.

; state amount of water they are capable of conveying from point of diversion to place of use 0.49 CFS ; Give name of canal or ditch

or other works by which water is conducted to such place of use: Pipe line under Permit #16711

; if a well, state depth of well None ; depth and size of casing:

None ; depth to water None ; if pump is used,

state discharge of pump: None ; tell how it was measured or determined: By Regional

Engineer ; if sprinkler irrigation, give number and size of nozzles and

operating pressure: N/A

Ques. 6. State for what purpose water is used: Irrigation and domestic purposes.

If for irrigation, name each subdivision in which used and number of acres in each

subdivision that have actually been irrigated with said water : SW $\frac{1}{4}$ NW $\frac{1}{4}$ 2.5 acres

SE $\frac{1}{4}$ NE $\frac{1}{4}$ 15.2 acres, all in Sec. 35, T2N, R 24 E, EM

State nature of all improvements which have been made as a direct result of said use:

Lawn, shrubs and trees at Visitor Center, Service Area, Residential Area and Campground

Ques. 6-a: If this is a ground water permit, give name and address of person that drilled the well: N/A

Ques. 7. If for other than irrigation purposes, state purpose and how used:

Daily use by residents and visitors. Vehicle washing and other uses incidental
to the operation and maintenance of the National Monument.

Ques. 8. What is the minimum amount of water required for the purpose specified above:

0.20 CFS

Ques. 9. If you are not the person or representative of the corporation to whom above mentioned permit was originally issued, please state how ownership was acquired by present holder:

N/A

Ques. 10. State when and in what amount the water diverted under above mentioned permit has been first used: Diversions A, B & C, Sept. 21, 1963 Time used since first use:

0.20 CFS after four weeks, B & C were shut off and drained for winter use.

Ques. 11. Describe all other water rights appurtenant to same place of use:

Water License No. 16711, Priority July 21, 1927, Department of the
Interior, National Park Service.

(sign) *Samuel Davis*

I hereby certify that the foregoing testimony was read to the above subscribed, before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me, at my office in

Arco, County of Butte

State of Idaho, on this 10th day of December, A.D. 1963.

Henry D. Phillips

My Commission expires: Sept. 20, 1964

Form 17A
1.5 ~~M~~ 7-31-62

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO
Permit No. 28964

PROOF OF APPLICATION OF WATER TO BENEFICIAL USE

and Completion of Works

DEPOSITION OF WITNESS

The deposition of two witnesses on this form, taken separately, required in each case

Ques. 1. State your name, age, residence, occupation and postoffice address:

Ronald G. Varble, 33, 414 Mary Drive, Arco, Idaho, Idaho State Police
Officer, P. O. Box 593, Arco, Idaho

Ques. 2. Are you acquainted with Daniel E. Davis (Representing the National Park Service), the holder of
Permit No. 28964? How long have you known him and where does he reside:

8 Months, Craters of the Moon N.M., Arco, Idaho.

Ques. 3. Have you read or heard said Permit No. 28964 read, and are you familiar
with its provisions and conditions: Yes: XX No: _____

Ques. 4. State source of water supply: Natural Springs

State place of diversion: (A) Little cotton wood springs (B) Little Cotton wood creek (C) Tributary of Little Cotton wood creek.

Describe works for conveying water to place of use: (A) Existing collecting boxes near springs 1, 2, 3, & 4, small diversion dams in little cottonwood creek (B) and in a tributary of little Cottonwood Creek (C) Pipe lines from each dam connected to the existing water line.

Ques. 5. How many second feet of water do you estimate said works will safely conduct
to place of use: 0.49 CFS How much water have you seen being so
conveyed: 0.20 CFS

Ques. 6. If for irrigation, show number of acres irrigated in each subdivision, giving
full legal description:

SW 1/4 NE 1/4: 2.5 ac s and SE 1/4 NE 1/4: 15.2 acres, all in Section 35, T2N R24E BM

Ques. 7. If for power or other purposes (i.e. irrigation, etc.) how water has been used:

Irrigation and domestic

Ques. 8. (If for irrigation) state character of land that has been reclaimed, and give your estimate of the amount of water required for its profitable cultivation:

Cinders covered with top soil, lawn shrubs, and trees, 0.15 CFS

Ques. 9. Have you any interest in the works, water or lands above mentioned? If so, in what way and to what extent: No

Ques. 10. When did you first see this water used: With the last diversion connected September 21, 1963.

Other times you have seen such use: Four

(Signed)

[Signature]

I hereby certify that the foregoing testimony was read to the above subscriber before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me in Arco

 , County of Batte, State of Idaho, on this 10th day of December,
A. D., 1963

[Signature]

Notary Public for State of Idaho

Residing: Arco, Idaho

My commission expires: September 2, 1964

Form 17A
1.5 M 7-31-62

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO
Permit No. 28964

PROOF OF APPLICATION OF WATER TO BENEFICIAL USE

DEPOSITION OF WITNESS

The deposition of two witnesses on this form, taken separately, required in each case

Ques. 1. State your name, age, residence, occupation and postoffice address:

DEAN G. TRESCH, 27, 335 Challis Ave, Arco, Idaho, Fish & Game Conservation
officer, State of Idaho, P.O. Box 92, Arco, Idaho

Ques. 2. Are you acquainted with Daniel E. Davis (Park Service), the holder of
Permit No. 28964 ? How long have you known him and where does he reside:

4 months, Craters of the Moon N.M. Arco, Idaho

Ques. 3. Have you read or heard said Permit No. 28964 read, and are you familiar
with its provisions and conditions: Yes: XX No: _____

Ques. 4. State source of water supply: Natural Springs

(A) little cottonwood springs, (B) little cottonwood
State place of diversion: creek (C) Tributary of little cottonwood creek.

(A) Existing collecting boxes near
Describe works for conveying water to place of use: springs 1, 2, 3, & 4, small diver-
sion dams in little cottonwood creek (B) and in a tributary of little
Cottonwood Creek (C) Pipe lines from each dam connected to existing water
lines.

Ques. 5. How many second feet of water do you estimate said works will safely conduct

to place of use: 0.49 CFS How much water have you seen being so

conveyed: 0.20 CFS

Ques. 6. If for irrigation, show number of acres irrigated in each subdivision, giving
full legal description:

S. 1/4, NE 1/4, 2.5 Acres, and SE 1/4, NE 1/4 15.2 Acres, all in section 35, T2N R24E, BM

Ques. 7. If for power or other purposes than irrigation, state how water has been used:

Irrigation and domestic.

Ques. 8. (If for irrigation) state character of land that has been reclaimed, and give your estimate of the amount of water required for its profitable cultivation:

Cinders covered with top soil, lawn, shrubs, and trees, 0.15 CFS

Ques. 9. Have you any interest in the works, water or lands above mentioned? If so, in what way and to what extent: No

Ques. 10. When did you first see this water used: With the last diversion connected September 21, 1963.

Other times you have seen such use: Four

(Signed) 

I hereby certify that the foregoing testimony was read to the above subscriber before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me in Arco

 , County of Butte, State of Idaho, on this 10th day of December

A. D., ~~1962~~ 1963.


Notary Public for State of Idaho

Residing: Arco, Idaho

My commission expires: September 20, 1964

Affidavit of Publication

I, Gale M. Prantner, of the
Arco Advertiser, a weekly newspaper of general
circulation, published weekly at Arco, Idaho, since
March, 1909, do solemnly swear that a copy of
this notice, per clipping attached, was published
weekly in the regular and entire issue of said
newspaper, and not in any supplement thereof,
for four consecutive weeks commencing
with the issue dated May 1, 1963
and ending with the issue dated Nov. 23, 1963

and sworn to before me this

1st day of Dec, 1963

Lucy J. Maye
Notary Public.

Residence: Arco, Idaho.
My commission expires

24 1965

PUBLIC NOTICE

NOTICE OF PROOF OF COM- PLETION OF WORKS AND APPLICATION OF WATER TO BENEFICIAL USE

NOTICE is hereby given that
at 2 p. m. on the 10th day of
December, 1963, at Arco, Coun-
ty of Butte, State of Idaho, be-
fore Glenn Phillips, Notary Pub-
lic, at the City Hall in Arco, Ida-
ho, proof will be submitted of
the completion of works for the
diversion of 0.20 cubic feet per
second of the waters of (A) Lit-
tle Cottonwood Springs, (B) Lit-
tle Cottonwood Cr., (c) tributary
to Cottonwood Cr., and of the
application to beneficial use of
said water, in accordance with
the terms and conditions of Per-
mit No. 28984, heretofore issued
by the Department of Reclama-
tion of the State of Idaho.

1. The name and postoffice
address of the person or corpora-
tion holding said permit is: Crat-
ers of the Moon, Department of
Interior, National Park Service,
Arco, Idaho.

2. Said works of diversion will
be fully completed on the date
set for such completion and the
amount of water said works are
capable of conveying to the place
of use is 0.49 cubic feet per sec-
ond.

3. The use to which said water
has been applied is for irrigation
and domestic purposes, and the
amount applied to beneficial use
is 0.20 cubic feet per second.

4. The point of diversion of
said water is (A) NW $\frac{1}{4}$ SE $\frac{1}{4}$,
SE $\frac{1}{4}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ NE $\frac{1}{4}$ of Sec.
21; (B) SW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 21; (C)
SW $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 27, all in T. 2
N., R. 24 E., E. M.

5. The place where said water
is used is SW $\frac{1}{4}$ NE $\frac{1}{4}$; 2.5 acres
and SE $\frac{1}{4}$ NE $\frac{1}{4}$ 15.2 acres, all in
Sec. 35, T. 2 N., R. 24 E., E. M.
Total, 17.7 acres.

6. The date of priority which
said user is prepared to estab-
lish is August 25, 1890.

CARL E. TAPPAN,
State Reclamation Engineer.
Pub. Nov. 7 thru Nov. 28, 1963.

Form 36-A

Kitchan

NOTICE OF PROOF OF COMPLETION OF WORKS
and
APPLICATION OF WATER TO BENEFICIAL USE

NOTICE is hereby given that at 1 P. M., on the 10th day of December
19 63 at Arco, County of Butte, State of Idaho, before
Glenn Phillips, Notary Public, at (address) The City Hall in Arco
_____, proof will be submitted of the completion of works for the diversion of
0.20 cubic feet per second of the waters of (A) Little Cottonwood Springs
(B) Little Cottonwood Cr (c) tributary
to
Cottonwood Cr., and of the application to beneficial use of said water, in accordance with
the terms and conditions of Permit No. 28962, heretofore issued by the Department of
Reclamation of the State of Idaho.

1. The name and postoffice address of the person or corporation holding said permit
is: Craters of the Moon, Department of Interior, National Park Service, Arco, Idaho
2. Said works of diversion will be fully completed on the date set for such completion
and the amount of water which said works are capable of conveying to the place of use is
0.49 cubic feet per second.
3. The use to which said water has been applied is for irrigation and domestic

purposes, and the amount applied to beneficial use is 0.20 cubic
feet per second.
4. The point of diversion of said water is (A) NW $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ NE $\frac{1}{4}$
of Sec. 21; (B) SE $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 21; (C) SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 27, all in T2N, R 24 E, E4
5. The place where said water is used is SW $\frac{1}{4}$ NE $\frac{1}{4}$; 2.5 acres and SE $\frac{1}{4}$ NE $\frac{1}{4}$
15.2 acres, all in Sec. 35, T2N, R24E E4

Total 17.7 acres.
6. The date of priority which said user is prepared to establish is September 21, 1963

State Reclamation Engineer



ROBERT E. SMYTHE
Governor



State Reclamation Engineer

STATE OF IDAHO

DEPARTMENT OF RECLAMATION
107 STATE HOUSE
BOISE

October 4, 1963

Re: Permit No. 28964

L54

W. R. Docket No. 1

~~Craters Lake~~

Craters of the Moon

JMS
James M. Siler, Regional Chief of Lands
National Park Service
Western Regional Office
San Francisco, California, 94105

Dear Mr. Siler:

Enclosed are Forms 6, Proof of Completion of Works, with instructions; Forms 36A and 11, with instructions.

Your letter of October 1, showed you could make proof of completion of works and beneficial use of the water claimed under Permit No. 28964 at Craters of the Moon National Monument. You requested Forms 6, 16 and 17.

Form 6, Proof of Completion of Works, can be completed and returned to this office with the \$5.00 fee for the Certificate of Completion of Works. Two Forms 36A and one Form 11 can be completed and returned to this office. We will check Form 36A against our record of the permit. Upon approval, the original Form 36A will be sent to the paper noted on Form 11. The paper must be published in the county, which is Butte. The forms for depositions will be mailed to you at the time the notice is sent to the paper. The deposition forms probably will be completed by the Arco, Idaho office.

This office will inspect the works after proof of completion of works and beneficial use of the water and you will be advised of the total cost for the Certificate of Completion of Works and Certificate and License of Water Right.

Very truly yours,

Ralph W. Thomas
RALPH W. THOMAS, Deputy
State Reclamation Engineer



Forms 6, 36A - 11
instructions

Western Regional Office
180 New Montgomery Street
San Francisco, California 94105

Ketcham

Siler

154

W.R. Docket No. 1

October 1, 1963

~~Grater Lake~~

Caters of the Moon

Mr. George N. Carter
State Reclamation Engineer
Department of Reclamation
107 State House
Boise, Idaho

Dear Mr. Carter:

Application to appropriate public waters of the State of Idaho No. 36950 and subsequent Permit No. 28964 require proof of entire completion of works on or before September 5, 1965. As of this date we have completed the entire project and have started to put the water to beneficial use.

We will appreciate it if you will send to this office 10 blank copies of your Form 6 "Proof of Completion of Works" and 10 each of Forms 16 and 17, "Proof of Application of Water to Beneficial Use". Upon completion of the forms they will be returned to your office as required under paragraph 41-206 of the water laws State of Idaho.

(SGD) JAMES M. SILER

James M. Siler
Regional Chief of Lands

RWKetcham:lsr 10/1/63

Ready
to type
Write letter to region
pointing out that some
states require starting
work within 6 mos
or a year. Application
should be filed on
basis of when B+U visit
program calls for start
of work. ~~See~~ If poss.
of other parties approp.
with application should
be filed + then delay
asked for

2/7

Before filing in
Docket, Gordon
should reorganize letter
of 11/8 & 11/9 to show
sequence, upward in
docket.

Also check date of filing
of applications (in docket),
and water laws regarding
timing. I think Alaska
presents 6 months for start
of work. If so, Reg should
be advised to time from filing bell.

*WRL
2/1/62*

180 New Montgomery
San Francisco 5, California

LS4
Docket 1

December 4, 1962

Memorandum

To: Director
From: Assistant Regional Director - Western Region
Subject: Supplemental Water Right Application No. 36950, Permit No. 28964, Headquarters Water System, Craters of the Moon NM

Enclosed is the following data for inclusion in Docket No. 1 Headquarters Water System, Craters of the Moon National Monument.

1. Memorandum of November 15, 1962 from Superintendent to Regional Director transmitting data on construction of diversion at point "B"
2. Letter of November 8, 1962 from Superintendent to Idaho State Reclamation Engineer advising the State of completed work at diversion "B"
3. Letter of November 9, 1962 from State Reclamation Engineer Carter to Superintendent Stitt acknowledging the above construction project.
4. Four photographs of the diversion during and after construction.
5. Plan of diversion work by Engineer Otake, Western Office of Design and Construction.

This construction complies with the requirement in the approval of Permit No. 28964, dated September 1, 1960, that one-fifth of the specified construction be completed on or before March 1, 1963.

(S, L) Leo J. Diederich
Leo J. Diederich

Enclosures 5

cc:
Superintendent, Craters of the Moon w/s of enclosures
Chief, WQDC (2) w/s of enclosures



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Craters of the Moon National Monument
Arco, Idaho

IN REPLY REFER TO:

154

November 15, 1962



Memorandum

To: Regional Director, Western Region

From: Superintendent, Craters of the Moon

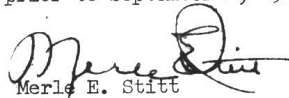
Subject: Supplemental Water Right Application No. 36950, Permit No. 28964, Headquarters Water System, Craters of the Moon NM

Permit No. 28964, approved by the State Reclamation Engineer, September 1, 1960, provides that one-fifth of the work specified therein must be completed on or before March 1, 1963.

Normal spring temperatures, snow and road conditions would preclude the execution of work in the vicinity of these water diversion locations next spring. Work was therefore initiated September 17 to construct the necessary water diversion structures as provided in the permit for diversion at point "B". All structures were completed, and water was diverted through the new facilities on September 26. The diversion structure was constructed in accordance with a plan prepared by Civil Engineer Otake, WODC. (Copy enclosed in duplicate.)

Total direct costs for construction amount to \$265.57. The water diverted by this structure is piped through 125 feet of cast iron line from the diversion structure to the previously existing two-inch iron line located between Spring 1 and 4, which terminates in the old five-thousand-gallon collection tank. The permit provides for the diversion of .05 CFS at point "B".

The State Reclamation Engineer was advised of the completion of one-fifth of the work as required by the permit. No further reporting is necessary until all work is completed prior to September 1, 1965.


Merle E. Stitt

Enclosures:

- Copy (2) Superintendent's letter to State Reclamation Engineer
- Copy (2) State Reclamation Engineer's letter to Superintendent
- Photographs (2 ea.) of three photographs of Structure at Point "B"
- Copy (2) Structure Plan - Point "B"

Craters of the Moon National Monument
Arco, Idaho

154

November 8, 1962

Mr. George Carter
State Reclamation Engineer
Boise, Idaho

Dear Mr. Carter:

Water Permit No. 28964, issued to the United States of America and approved September 1, 1960, provides that one-fifth of the work specified in the application must be completed prior to March 1, 1963.

This is to advise you that all work has been completed at diversion Point "B", and that beneficial use is being made of the water appropriated at Point "B" in accordance with this permit. The work now completed exceeds one-fifth of the total work as outlined on the subject permit.

Will you please advise us of what reporting action should be taken prior to March 1, 1963, to assure compliance with permit requirements.

Your assistance in this matter is appreciated.

Sincerely yours,

Merle E. Stitt
Superintendent

ROBERT F. SHYLER
Remover



STATE OF IDAHO
DEPARTMENT OF RECLAMATION
107 STATE HOUSE
BOISE

November 9, 1962

GEO. N. CARTER
State Reclamation Engineer



RE: Permit No. 28964
United States of America

Merle E. Stitt, Superintendent
National Park Service
Craters of the Moon National Monument
Arco, Idaho

Dear Mr. Stitt:

Thank you for your letter in regard to progress on your proposed water system.

There is no further report necessary until you prove completion of works on or before September 1, 1965. The form will be sent to you on request, or the routine of the office work requires that the form will be sent to you about two months prior to the date the proof is due.

You may request forms to make proof of completion of works and beneficial use at the same time, if the water has been used.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer
By

Ralph W. Thomas

Ralph W. Thomas
Deputy State Reclamation Engineer

Craters of the Moon National Monument	
Superintendent	<i>[Signature]</i>
Asst. Park Ranger	<i>[Signature]</i>
Adm. Asst.	
Maintenance Men	
Watermaster	



RWT:ar



Water Diversion Point "B" Looking Upstream



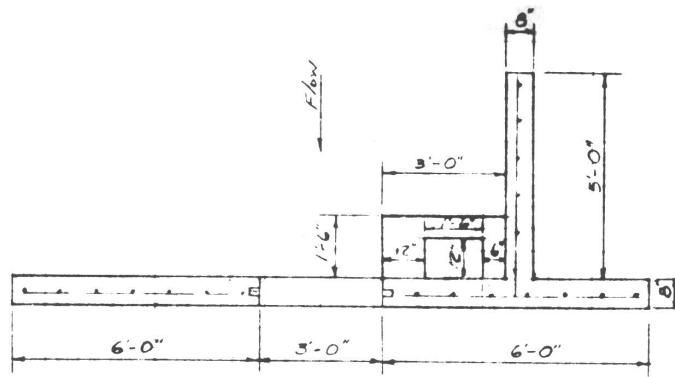
Water Diversion Point "B" Looking Downstream



Forms set preparatory to pouring concrete for water diversion Point "B". 9/18/62

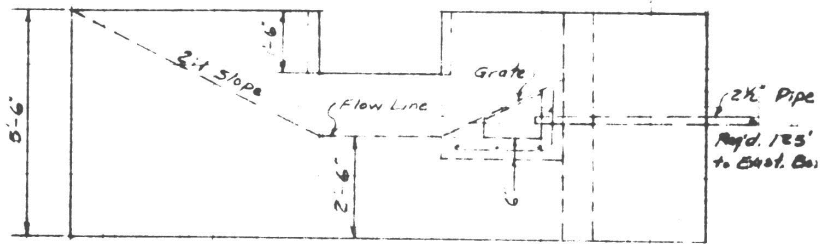


Water diversion structure Point "B" following stripping of forms. 9/24/62



PLAN
Scale 1" = 3/8"

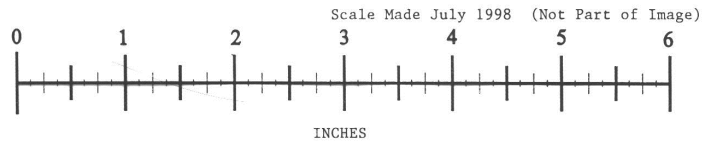
Note: Place re-bars
10" C.C., ~~except~~
for Collection Box,
Place re-bars 12"
C.C.



ELEVATION

DIVERSION STRUCTURE 'B'

OF THE
WOOD





UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Craters of the Moon National Monument
Arco, Idaho

October 17, 1960

File CRMO Docket 1

IN REPLY REFER TO:

154

RECEIVED	
NPS REGION FOUR OFFICE	
OCT 20 1960	
SURNAME	DATE
REG. DIR.	
ASST. R.D.	
OPERATIONS	
ADMIN.	
RECREATION	
INTERP.	
RANGER ACT.	

Memorandum

To: Regional Director, Region Four
From: Superintendent, Craters of the Moon
Subject: Application for and Approval of Water Right

Attached are the completed Application for Permit to appropriate the public water of the State of Idaho with executed Approval of State Reclamation Engineer, with letter of transmittal to this office and receipt for filing fee.

Since only one copy of these papers was sent to us they are being forwarded to your office for reproduction so that your files may be complete. After copies have been made we will appreciate the return of the original documents for our files.

Floyd A. Henderson
Floyd A. Henderson
Superintendent

Attachments (3)

LS 10/21
Quiat
answered 10/21/60



STATE OF IDAHO
DEPARTMENT OF RECLAMATION

GEO. N. CARTER, STATE RECLAMATION ENGINEER

September 14, 1960

Re: Permit No. 28964

**Craters of the Moon
National Monument**

Superintendent

Sgt. Park Ranger

Adm. Asst.

Maintenance Men

Naturalist

SEP 23 1960

Mr. Floyd A. Henderson, Superintendent,
U. S. Department of Interior,
National Park Service,
Craters of the Moon National Monument,
Arco, Idaho.

Dear Mr. Henderson:

We enclose Permit No. 28964 in which we direct your attention to the limitations and conditions as given on the fourth page under approval of the State Reclamation Engineer.

We also enclose Departmental Receipt No. 30246 which was issued covering payment in the amount of \$5.00 for the filing fee of the above mentioned permit.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer
By

(Mrs.) Edna P. Bule
Chief Clerk

Encl.
EPR:pmk

1M 3-1-59

State of Idaho

License and Certificate of Water Right

Water License No. 28964 Priority August 25, 1960 Amount 0.20 c.f.s.

THIS IS TO CERTIFY that DEPARTMENT OF INTERIOR - UNITED STATES NATIONAL PARK

of Arco, Idaho, made application for a permit to appropriate the public waters of the State of Idaho, dated August 25, 1960; that Permit No. 28964 was issued under said application; that Certificate of Completion of Works, with a carrying capacity of 0.20 second feet, was issued thereunder on November 19, 1965, showing that said works were completed on the 10th day of December, 1963; and that on the 10th day of December, 1963, Department of Interior, United States National Park

of Arco, Idaho, State of Idaho, made proof to the satisfaction of the State Reclamation Engineer of Idaho, of a right to the use of the waters of Little Cottonwood Cr., Little Cottonwood Springs, and Unnamed Stream a tributary of Little Cottonwood Cr. for the purpose of irrigation and domestic use, under Use Permit No. 28964 of the Department of Reclamation, and that said right to the use of said waters has been perfected in accordance with the laws of Idaho, and is hereby confirmed by the State Reclamation Engineer of Idaho and entered of record in Volume 13 of Licenses, at Page 8105, on the 19th day of November, 1965.

The right hereby confirmed dates from August 25, 1960.

The Point of Diversion is located NW $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$ (2), NW $\frac{1}{4}$ NE $\frac{1}{4}$, SW $\frac{1}{4}$ NE $\frac{1}{4}$, Section 21, in the SW $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 27, Twp. 2 N, R. 24 E, B.M. Butte County.

That the amount of water to which such right is entitled and hereby confirmed, for the purposes aforesaid, is limited to an amount actually needed and beneficially used for said purposes, and shall not exceed 0.20 cubic feet per second.

Description and location of use:

Twp.	Range	Section	Forty-Acre Tract	No. Acres Described in Permit	No. Acres Actually Irrigated
2 N	24 E	35	SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$	2.5 15.2	2.5 15.2
For irrigation and domestic use					17.7

The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place of use herein described, as provided by the laws of Idaho.

WITNESS the seal and signature of the State Reclamation Engineer, affixed at Boise, Idaho, this 19th day of November, 1965.

Ralph W. Thomas
Deputy State Reclamation Engineer.

FORM 22

Permit No. 28964

Certificate of Completion of Works

TO ALL WHOM IT MAY CONCERN:

This is to certify that Department of Interior, United States National Park
 of Arco, County of Butte, and State of
 Idaho, the holder of Permit No. 28964, issued upon
 Application No. 36950 bearing date of priority of August 25, 1960, authorizing the
 diversion of 0.20 second feet of waters of Little Cottonwood Creek,
 Little Cottonwood Springs, and Unnamed Stream

County of Butte, State of Idaho, for irrigation and domestic
 purposes, has fully complied with the provisions of the laws of the State of Idaho
 relating to the proof of completion of the works of diversion set out and described in said
 Permit; that said works are adequate for diverting and conveying to the place of intended
 use 0.20 second feet of the waters of Little Cottonwood Creek,
 Little Cottonwood Springs, and Unnamed Stream all a tributary of Cottonwood
 Creek

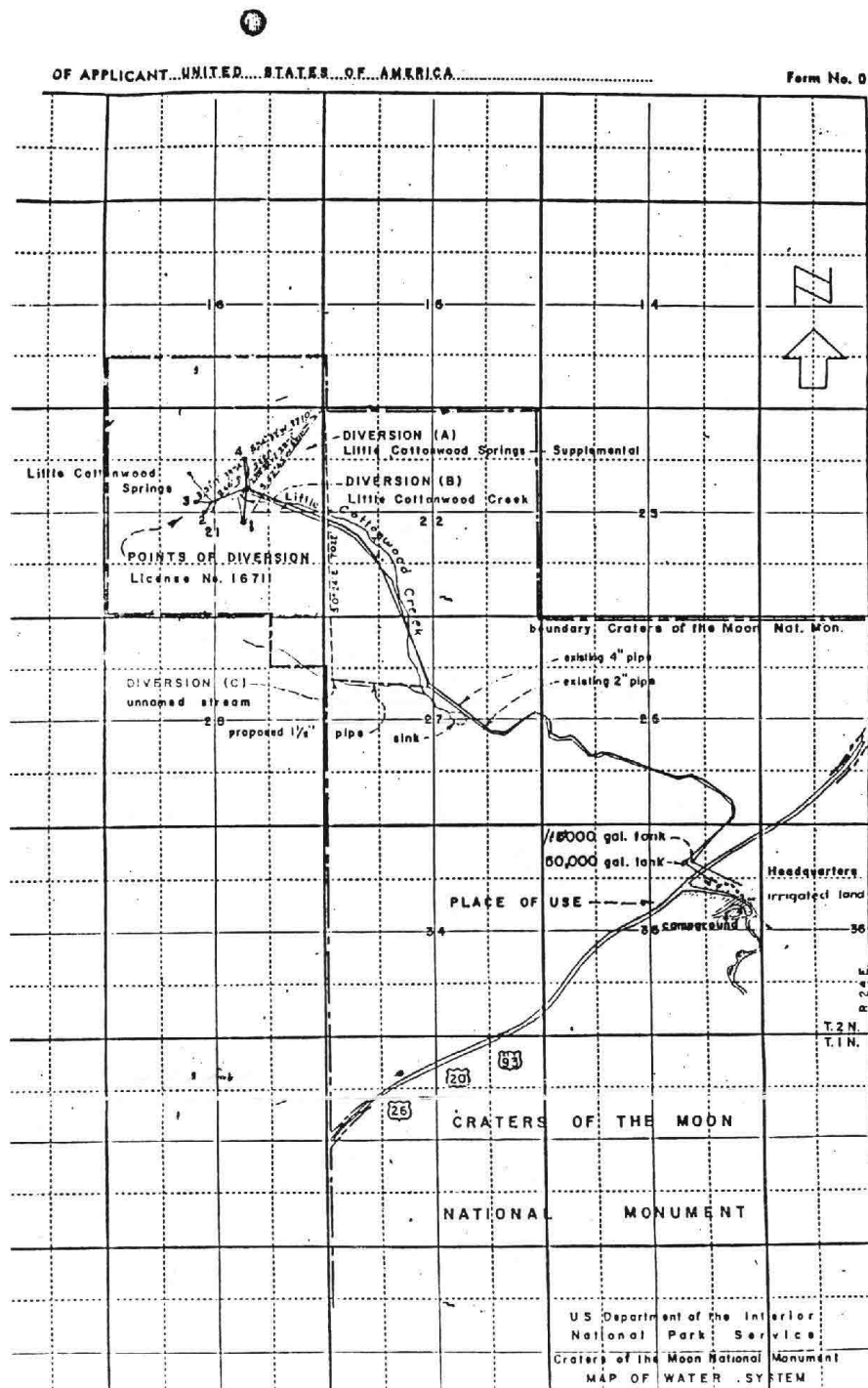
that the point of diversion of said waters NW 1/4 Sec 21, T 2 N., R 24 E., B. M.
 Section 21, SW 1/4, Section 27, T 2 N., R 24 E., B. M.

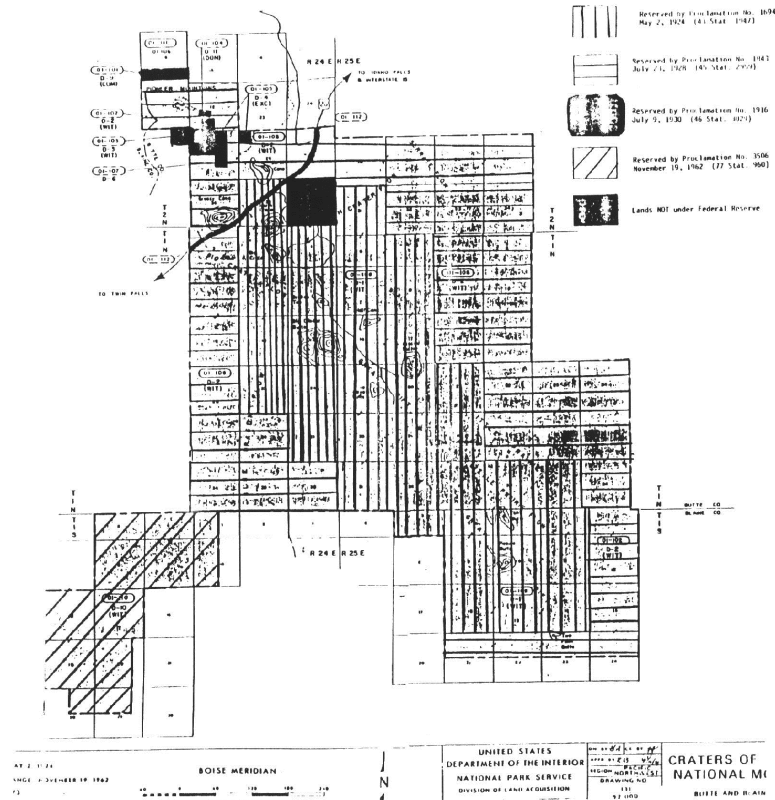
and that the lands proposed to be irrigated by the use or place of use of said water are
 described as follows, to-wit: S 1/4 Sec 35, T 2 N., R 24 E., B. M.

Proof of Completion of Works made: December 10, 1963.

Witness my hand this 19th day of November, A. D. 19 65.

Ralph W. Thomas
 Deputy State Reclamation Engineer





Pg 4

2014

Address all communications to

(Form No. 1)

P. O.

APPLICATION FOR PERMIT

TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF IDAHO

Application No. 36950Permit No. 28964

District No. _____

1. Name of Applicant: Department of the Interior, United States National Park ServicePost Office address Arco County Butte State Idaho

If applicant is a corporation, give:

(a) Date and place of incorporation: _____

(b) Amount of Capital stock: \$ _____ (c) Amount paid in: \$ _____

(d) Names and addresses of directors: _____

The financial resources of the applicant are: (a) Cash on hand: \$ _____

(b) Treasury stock: _____ (c) Bonds to be issued: _____

(d) Other resources: _____

2. Quantity of water claimed: 0.20 (see remarks) cubic feet per second3. Source of water supply: (A) Little Cottonwood Springs tributary to Little Cottonwood Creek
(B) Little Cottonwood Creek, (C) Unnamed stream tributary to Little Cottonwood Creek
which is tributary of (See remarks)4. Location of point of diversion: See remarks feet distant from the _____ corner

of Section _____, Twp. _____, Rge. _____, B. M., and is in the _____

of Section _____, Twp. _____, Rge. _____, B.M., County of Butte5. Water is to be used for: irrigation and domestic purposes

6. If for mining, milling, power or manufacturing purposes, give:

(a) Point of use of water: _____ feet distant from _____ corner of Section _____

Twp. _____, Rge. _____, B. M., in the _____ of Section _____, Twp. _____, Rge. _____, B. M.

(b) Amount of power generated: _____ H. P., under _____ feet head.

(c) Water is to be returned to _____ at a point _____ feet

distant from the _____ corner of Section _____, Twp. _____, Rge. _____, B. M., in the _____

of Section _____, Twp. _____, Rge. _____, B. M.

7. Estimated cost of works: \$5,0008. Kind of works: Collection works and pipelines from Diversions (B) and (C) to existing system.
(Reservoir, dam, ditch, flume, pipe, etc.)9. Height of dam 3 feet; length of dam at top 8 feet; length of dam at bottom 4
(Dams are to be constructed for diversions (B) and (C).)feet; material used in dam Concrete. Diversion (A) will use existing collecting boxes.
(If height of dam will exceed 10 feet or will store more than 100 acre feet of water, send to Department of Reclamation for Regulations.)

10. Size of headgate: Width _____ feet; Height _____ feet

11. Ditch: Width at bottom _____ feet; Width at water line _____ feet; Depth of water _____ feet;

Dimensions of flume _____; Diameter of pipes 2 and 4 inches;Length of conduit (existing) 3.38 miles. Average grade per mile 208 feet.Existing systemMain pipeline - 17,827' - 4" dia., avg. grade 40 ft per 1,000, capacity 190 gpmParallel line - 17,900' - 2" dia., avg. grade 40 ft per 1,000, capacity 31 gpmTotal capacity 221 gpm = 0.49OK for
approval
ET

Use existing 50,000 gal. regulatory reservoir

16. (a) Is reservoir to be used? (If so, fill in (b) and (c) below.)

(b) Name of reservoir and number of Storage Permit:

(c) Date of filing of Application for Storage Permit and Name of Applicant:

Remarks: Questions 2, 3 and 4. Quantity of water claimed and Location of Points of

Diversion	Bearing and distance from the NE	Location-all	Quantity, cfs
Diversion	Cor. of Sec 21: T2N R ²⁴ W E, BM	in T2N, R ²⁴ W E, BM	Supplemental to License No. 16711

(A) Little Cottonwood Spr.

Spring No. 1	S 32° 43' W. 3511 ft.	NW-1/4, SE-1/4, Sec 21	
Spring No. 2	S 46° 31' W. 3881 ft.	SE-1/4, NW-1/4, Sec 21	
Spring No. 3	S 51° 17' W. 3854 ft.	SE-1/4, NW-1/4, Sec 21	0.13
Spring No. 4	S 54° 42' W. 2270 ft.	NW-1/4, NE-1/4, Sec 21	
(B) Little Cottonwood Cr.	S 32° 32' W. 2851 ft.	SW-1/4, NE-1/4, Sec 21	0.05
(C) Unnamed Stream	S 0° 24' E. 7022 ft.	SW-1/4, NW-1/4, Sec 27	0.02
Total			0.20 cfs

All points of diversion are on land owned by the United States.

Little Cottonwood Creek sinks in Sec. 27, T2N, R ²⁴W E, BM without reaching any other body of water. (Remarks continued on supplemental page)

Nothing herein shall constitute a waiver of other rights the United States may have to the same water.

BE IT KNOWN That the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

United States of America

Applicant.

By Floyd A. Henderson

Floyd A. Henderson

Supt., Craters of the Moon Nat'l Monument

Affidavit of Permission to File on Springs

(Not to be used when spring is situated on lands owned by applicant.)

I, _____, of _____, County of _____, State of _____, do hereby certify that I am the owner of the land on which the spring mentioned in the application of _____ is located, to-wit: _____ and that I do hereby grant unto the said _____ permission to file on the said spring as set forth in the foregoing application.

STATE OF IDAHO

County of _____ } ss.

On this _____ day of _____, 1960, before me, a Notary Public for the State of Idaho, residing at _____, personally appeared _____ known to me to be the person whose name _____ subscribed to the foregoing certificate, and acknowledged to me that he executed the same.

Witness my hand and seal, the day and year in this certificate first above written.

My commission expires _____ Notary Public.

Approval of State Reclamation Engineer

The number of this permit is 28964

Recorded in Book 102 Page 28964 Approved SEP 1 1960

This is to certify that I have examined the within application for a permit to appropriate the public waters of the State of Idaho, and hereby approve the same, subject to the following limitations and conditions:

Bond in the sum of \$..... to be filed before.....

Work to begin on or before November 1, 1960, and to continue diligently and uninterruptedly to completion, unless temporarily interrupted by circumstances over which the permit holder has no control.

One-fifth of the work above specified to be completed on or before March 1, 1963

The whole of said work to be completed on or before September 1, 1965

Beneficial use of water appropriated in accordance herewith, to be made on or before September 1, 1970

Witness my hand this 1st day of September, 1960.

Paul H. Norton
State Reclamation Engineer.

IN TESTIMONY WHEREOF, We, ROBERT E. SMYLLIE Governor of the State of Idaho, and ARNOLD WILLIAMS Secretary of State of the State of Idaho, have caused this instrument to be executed in the name of the State of Idaho, and caused the Great Seal of the State of Idaho to be hereunto affixed, this 1st day of September, 1960.

Countersigned:
By *Arnold Williams* Secretary of State.

STATE OF IDAHO
By *Robert E. Smyllie* Governor.

No. 28964

PERMIT

Date of first receipt at office of State Reclamation Engineer
8:00 A.M. August 25, 1960

Returned to applicant for correction.....

Corrected application received.....

Fees, \$ 5.00

FILING FEES FOR USE PERMIT:
For the first Sec. Ft. \$5.00
For each additional Sec. Ft. or Fraction
Thereof 25

SUPPLEMENTAL PAGE

Question 2. Quantity claimed (continued)

(Use is supplemental to use under License 16711)

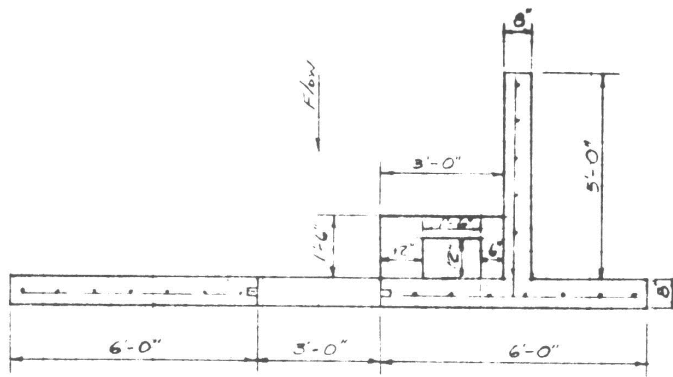
Irrigation - grass, shrubs and trees at Visitor Center,
Service Area, Residential Area and Campground - 0.15 cfs

Domestic - use by permanent and seasonal residents, day
visitors, campers and for vehicle washing and
other uses incidental to the operation and
maintenance of the National Monument 0.05 cfs

Total supplemental claim 0.20 cfs

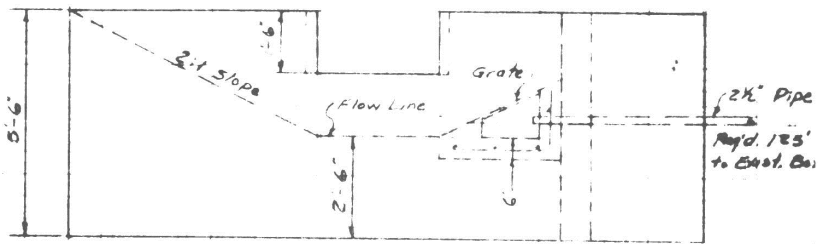
Questions 7, 8, 9, and 11 Water works

Construction under this application will consist of small
diversion dams at Diversion points (B) and (C) and of
approximately 300 lineal feet of 2-inch pipe at Diversion
(B) and approximately 2600 lineal feet of 1-1/2 inch pipe at
Diversion (C) to convey water to existing water system.
Existing system consists of collection boxes at each of four
springs (Diversion (A)) and pipelines leading to junction boxes
in the SW-1/4, NE-1/4 of Section 21 from which parallel 2-inch
and 4-inch pipelines 3.38 miles long convey the water to
reservoirs of 5,000 gallons and 50,000 gallons capacity from
which a 2-inch and a 6-inch main carry the water to the place
of use.



PLAN
Scale 1" = 3/8"

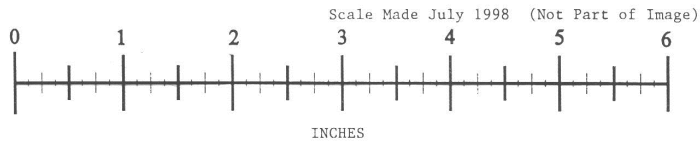
Note: Place re-bars
10" C.C. ~~EXCEPT~~
for Collection Box
Place re-bars 12"
C.C.



ELEVATION

DIVERSION STRUCTURE 'B'

OF THE
WOOD



(Cruik) file CRMO docket 1

LSH

Craters of the Moon National Monument
Arco, Idaho

August 4, 1960

Spaulding
LSS 9/9

Mr. George Carter
State Reclamation Engineer
Boise, Idaho

Dear Mr. Carter:

Enclosed are (1) Application for Permit to appropriate the Public Water of the State of Idaho; (2) Public Voucher for filing fee; (3) Purchase Order 34-623; and (4) Water Measurement and Development chart. Please sign, as Payee, attachment #2 and return to this office.

Improvements and expansion of facilities to handle the ever increasing visitation at Craters of the Moon National Monument are requiring additional water which will soon exceed the amount now appropriated under the water right obtained in 1932.

Travel into the Monument has increased from less than 20,000 in 1940 to over 137,000 in 1959, and the trend indicates that by 1975 travel will total between 175,000 and 200,000 people.

If we are to maintain the attractive administrative and residential areas (which the visitors now see from U.S. Highway 20-26-93A), the campground and sanitation facilities to anticipate this visitation, additional water is of primary importance.

In view of these conditions and because all the water in question rises and sinks within the Monument boundaries, we trust that your office will approve the application for the amount requested.

Yours very truly,

Floyd A. Henderson
Superintendent

Enclosures (4)

Copy (2) to Regional Director
Region Four





UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Craters of the Moon National Monument
Arco, Idaho

August 2, 1960

IN REPLY REFER TO:

154

RECEIVED	
NPS REGION FOUR OFFICE	
AUG 4 - '60	
SUBMITS DAY	
P-G. DIR.	
ASST. R.D.	
OPERATIONS	
ADMIN.	
RECREATION	
INTERP.	
RANGER ACT	

Memorandum

To: Regional Director, Region Four

From: Superintendent, Craters of the Moon

Subject: Supplemental Water Right Application
Headquarters Water System, Docket 1
Craters of the Moon National Monument

In accordance with Regional Chief of Operations Wosky's memorandum of July 26, we are submitting the application for water right to the State of Idaho without change.

Regarding the collection of water from the South Fork, severe drouth conditions now existing dictated that we take measures to include this flow in our collection system. Last Friday, July 29, an emergency collection system was completed with the laying of 1500 feet of plastic pipe which ties into the 2" line, as mentioned in our telephone conversation of July 25. (A U.S.G.S. survey party working in this vicinity was kind enough to establish a point where we could divert the stream to the pipe with sufficient head to insure flow.) This line, which terminates in the old 5,000 gallon collection tank, is now carrying a total of approximately 8 gallons per minute. Additionally, we have arranged overflow from the 50,000 gallon tank to be diverted into the small tank. With this amount of water, we are now able to take care of culinary and irrigation needs and still have a small reserve for fire fighting purposes.

The cost of these alterations to our water supply system is less than \$500.00. We have not, however, installed permanent dams at either the South or North Fork drainages. We would like to observe collection throughout the remainder of the summer before doing this, so as to determine whether these expedients will prove worthwhile to alter as a permanent part of the system.

In Mr. Wosky's penultimate paragraph, he states "If this summer's flow is typical it is unlikely that much more planting could be supported even with careful irrigation practice", and points out

Whitworth

Spaulding
ics

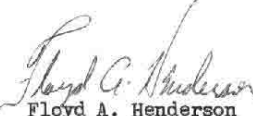
See memo of
9/30 to Suplt.

that 4 million gallons would have to be in storage on July 1 to meet a 90 day irrigation system. Actually, our suggestion that additional storage capacity be provided here was primarily to insure water for fire protection purposes. As conditions now are, the system could be drained very rapidly should we need to combat building or brush fires in the vicinity of headquarters.

Returning to that part of Mr. Wosky's statement regarding the summer's flow, in my telephone conversation with Mr. Spaulding I pointed out that this part of the state has been declared a disaster area due to extreme shortage of water. From what I can learn, streams which have never been known to go dry in this vicinity are now completely dried up. The draw-down from the Mackay Reservoir on Big Lost River has been completed, and there is insufficient irrigation water to care for agricultural crops which have heretofore been irrigated through this source. Even during last summer, which was an extremely dry season, the North Fork of Little Cottonwood continued to flow with a fair sized stream. This year, as you know from the measurements taken on July 20, it has almost completely dried up.

In view of these conditions, we feel that the water shortage is about as severe as could be expected, and 1960 is anything but a typical year. We believe that we can expand our planting and with the judicious use of irrigation water prevent failures until plantings are sufficiently well established to take care of themselves except for occasional watering during the driest parts of the year.

The 4" Protectus water meter mentioned in the last paragraph of Mr. Wosky's memorandum is on hand. However, pressure of other work has precluded the possibility of connecting it. Furthermore, we would like instructions from your office as to just how this should be installed.


Floyd A. Henderson
Superintendent

In Duplicate

Craters of the Moon National Monument

Spaulding ^{CCS}
 Whitworth
 Wosky
 Quist

July 26, 1960

L 54

Memorandum (AIR MAIL)

To: Superintendent, Craters of the Moon
 From: Regional Chief of Operations, Region Four
 Subject: Supplemental Water Right Application,
 Headquarters Water System, Docket 1,
 Craters of the Moon National Monument

Our memorandum of July 22 suggested changing the subject application to increase the amount of water claimed. In view of the decreased summer flow of Little Cottonwood Creek which you reported by telephone this date it would serve no useful purpose to increase the claim. Therefore, we recommend the application be submitted without change.

The flows recorded on May 16, 1960 and the measurements you reported being made on July 20 are as follows:

	<u>May 16, 1960</u>	<u>July 20, 1960</u>
Spring #1	34.3 gpm	8.6 gpm
Springs #s 2 and 3	41.3 gpm	12.5 gpm
Spring #4	10.3 gpm	10.3 gpm
Springs total	85.9 gpm	31.4 gpm
North Fork, Little Cottonwood Creek	143. gpm	2.9 gpm
South Fork, Little Cottonwood Creek	43. gpm	5.5 gpm
Total	272. gpm	39.8 gpm

Our July 22 memorandum expressed doubt that water from the South Fork could be added to the 2-inch main because of deficient head. However, the stream flows you reported change the picture. A less than capacity flow in the 2-inch main from the North Fork sources may result in low enough pressure at the junction point so that water would flow from the South Fork diversion to the junction. We have not made the hydraulic calculations to predict just what would happen with various flows.

If you install the 1-1/2" line and we think it practical to do so it would be advisable to place a check valve on the 1-1/2 inch line near the junction with the 2 inch main to prevent back flow. Before the installation is made please let us know the length of pipe you plan to place, the type of diversion dam to be built, and the cost of the work. We ask this to make sure the work qualifies as maintenance and not as construction. We believe your present water needs can be met with the present available supply even though stream flow has drastically reduced this summer. Your telephone report shows 45,000 gallons per day presently available from the four springs and 12,000 gpd from streams. Allowing 12,800 gpd for peak domestic use as shown on our estimate of June 29, 1960 leaves 44,200 gpd for irrigation. This is sufficient for irrigating 3.4 acres of land if used at the maximum rate the state recognizes. (About 3 acres are presently planted.) Unless there are practical difficulties or unknown losses between the intakes and the reservoir it appears that present needs can be met.

Meeting future needs if the planted area is to be doubled is another matter. If this summer's flow is typical it is unlikely that much more planting could be supported even with careful irrigation practice. Additional storage has been suggested but we wish to point out that 4 million gallons would have to be in storage on July 1 to meet a 90 day irrigation season (July 1 to September 30) if the irrigated area were doubled and with direct flow remaining as measured on July 20. A reservoir of this size probably is beyond our reach. The amount of water stored in a smaller reservoir of 1/2 million gallons as you have suggested would allow drawing 5,500 gallons per day for 90 days, enough for only 1/2 acre of additional planting. It appears unless additional supply can be developed that either planting must be limited or that very efficient irrigating must be practiced.

You probably have received the 4-inch Protectus water meter we ordered on June 21. This is for installation on the six-inch main as discussed during Messrs. Whitworth and Spaulding's visit on May 17. The meter will be helpful in determining actual usage and in revealing possible loss by leakage between the sources and place of use.

(SGD) JOHN B. WOSKY

Regional Chief of Operations

Copy to: Director (2)
Chief, WDC (2)

LSSpaulding:lq

Mr. Dunn

C O P Y

June 30, 1960

L 54

Memorandum

To: Superintendent, Craters of the Moon

From: Regional Chief of Operations, Region Four

Subject: Water Right Application, Headquarters Water System,
Docket 1, Craters of the Moon

Attached are an application and supporting material for the appropriation of water of Little Cottonwood Springs, Little Cottonwood Creek and of a tributary of Little Cottonwood Creek. The attachments are:

1. Original of Application together with one supplemental page and an ink original and one Apeco copy of a supporting map.
2. Purchase order and voucher in the amount of \$5.00 for filing fee.
3. One carbon copy of application with supplemental page and Apeco copy of map.
4. One copy of a table entitled "Water Measurement and Development," dated June 29, 1960.
5. One copy of a sheet entitled "Estimate of Water Needs for Supplemental Appropriation" dated June 29, 1960.

The purpose of the application is to obtain a water right to cover water now diverted and used and not now covered by an existing right of the United States under Water Use License No. 18711 and also to cover expected increased use during the next ten years.

After the concurrence of Mr. Dunn and of the Regional Solicitor has been received, the Application, Attachment No. 1, if satisfactory to you, may be submitted to the Idaho State Department of Reclamation. The purchase order and voucher should be attached, the latter to be signed by the State Engineer and returned to this office for payment of the fee.

Attachment 4 is a table presenting records of water development and measurements of flow. On the basis of available records it is estimated that the water available in the Little Cottonwood Creek drainage varies from about 300 gallons per minute (0.67 cfs) in the spring to perhaps 100 gallons per minute (0.22 cfs) in the late summer. These figures do not include springs in the vicinity of the Martin Mine

and other water tributary to Little Cottonwood Creek appearing at locations impractical to collect. The application now under consideration will appropriate all remaining low summer flow of Little Cottonwood Springs and of the upper reaches of Little Cottonwood Creek.

Attachment 5 is this office's estimate of water needs of the Monument. The estimate has been prepared on the basis of planting and of visitation predicted for the year 1966 but with additional allowances for future increased use and for flexibility in the selection of sources.

Copies of the application and supporting material are being distributed for review by the Chief of the Water Resources Section and by the Regional Solicitor. The carbon copy of the application, Attachment 3, is for your file and should be filed in Water Right Docket No. 1 until such time as the State returns an approved copy.

Regional Chief of Operations

Attachments (5)

Copy to: Director (2)(w/attachments 3,4 and 5)
Chief, WODC (2)(w/attachments 3,4 and 5)
Regional Solicitor (w/attachments 3, 4 and 5)

RECEIVED
NATIONAL PARK SERVICE
WASHINGTON OFFICE
(Form No. 1)
JUL 5 12 25 PM '60

Address all communications to

P. O.

APPLICATION FOR PERMIT

TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF IDAHO

Application No.

Permit No.

District No.

1. Name of Applicant: **United States of America for Craters of the Moon National Monument**

Post Office address **Arco** County **Butte** State **Idaho**

If applicant is a corporation, give:

(a) Date and place of incorporation:

(b) Amount of Capital stock: \$ (c) Amount paid in: \$

(d) Names and addresses of directors:

The financial resources of the applicant are: (a) Cash on hand: \$

(b) Treasury stock: (c) Bonds to be issued:

(d) Other resources:

2. Quantity of water claimed: **0.20 (see remarks)** cubic feet per second

3. Source of water supply: **(A) Little Cottonwood Springs tributary to Little Cottonwood Creek**
(B) Little Cottonwood Creek, (C) Unnamed stream tributary to Little Cottonwood Creek
(See remarks)

4. Location of point of diversion: **See remarks** feet distant from the corner

of Section, Twp., Rge., B. M., and is in the

of Section, Twp., Rge., B. M., County of **Butte**

5. Water is to be used for: **Irrigation and domestic purposes**

6. If for mining, milling, power or manufacturing purposes, give:

(a) Point of use of water: feet distant from corner of Section

Twp., Rge., B. M., in the of Section, Twp., Rge., B. M.

(b) Amount of power generated: H. P., under feet head.

(c) Water is to be returned to at a point feet

distant from the corner of Section, Twp., Rge., B. M., in the

of Section, Twp., Rge., B. M.

7. Estimated cost of works: **5,000**

8. Kind of works: **Collection works and pipelines from Diversions (B) and (C) to existing system** (Reservoir, dam, ditch, flume, pipe, etc.)

9. Height of dam: **3** feet; length of dam at top **8** feet; length of dam at bottom **4**

(Dams are to be constructed for diversions (B) and (C). Concrete Diversion (A) will use existing collecting boxes

feet; material used in dam **Concrete**. (If height of dam will exceed 10 feet or will store more than 100 acre feet of water, send to Department of Reclamation for Regulations.)

10. Size of headgate: Width feet; Height

11. Ditch: Width at bottom feet; Width at water line feet; Depth of water feet;

Dimensions of flume; Diameter of pipe **existing parallel 2 and 4** inches;

Length of conduit **(existing) 3.38** miles. Average grade per mile **208** feet.

Existing system

Main pipeline - 17,827' - 4" dia., avg. grade 40 ft per 1,000, capacity 190 gpm

Parallel line - 17,900' - 2" dia., avg. grade 40 ft per 1,000, capacity 11 gpm

Total capacity 221 gpm - 0.49 cfs

Total Number of Acres to be Irrigated 17.7
(of which 10 acres will have only 10% density)

15. Existing water rights and/or valid permits appurtenant to the lands to be irrigated are: _____
water License No. 16711 for the use of 0.055 cfs from unnamed springs at the head of
Little Cottonwood Creek (identical points of diversion as described by Diversion (A)
'herein) for camp administration purposes in Craters of the Moon National Monument.

SUPPLEMENTAL PAGEQuestion 2. Quantity claimed (continued)

(Use is supplemental to use under License 16711)

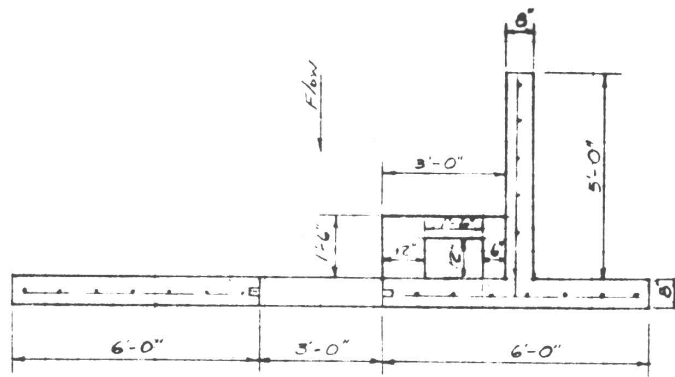
Irrigation - grass, shrubs and trees at Visitor Center,
Service Area, Residential Area and Campground - 0.15 cfs

Domestic - use by permanent and seasonal residents, day
visitors, campers and for vehicle washing and
other uses incidental to the operation and
maintenance of the National Monument 0.05 cfs

Total Supplemental claim 0.20 cfs

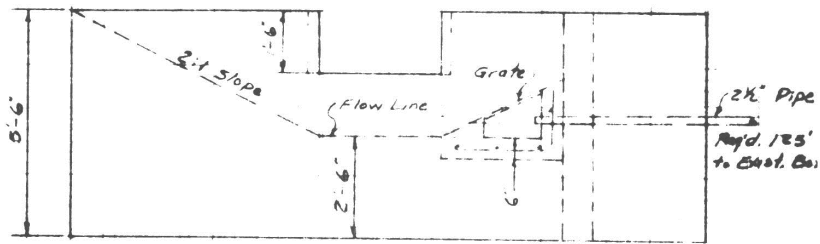
Questions 7, 8, 9, and 11 Water works

Construction under this application will consist of small diversion dams at Diversion points (B) and (C) and of approximately 300 lineal feet of 2-inch pipe at Diversion (B) and approximately 2600 lineal feet of 1-1/2 inch pipe at Diversion (C) to convey water to existing water system. Existing system consists of collection boxes at each of four springs (Diversion (A)) and pipelines leading to junction boxes in the SW-1/4, NE-1/4 of Section 21 from which parallel 2-inch and 4-inch pipelines 3.38 miles long convey the water to reservoirs of 5,000 gallons and 50,000 gallons capacity from which a 2-inch and a 6-inch main carry the water to the place of use.



PLAN
Scale 1" = 3/8"

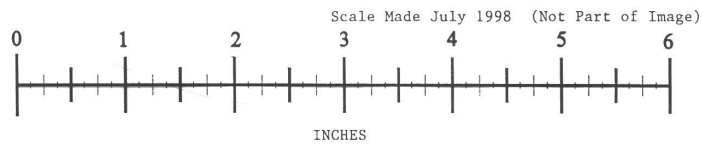
Note: Place re-bars
10" C.C., ~~except~~
for Collection Box,
Place re-bars 12"
C.C.



ELEVATION

DIVERSION STRUCTURE 'B'

OF AGE
WOOD



16. (a) Is reservoir to be used? Use existing 50,000 gal. regulatory reservoir (If so, fill in (b) and (c) below.)
 (b) Name of reservoir and number of Storage Permit: _____
 (c) Date of filing of Application for Storage Permit and Name of Applicant: _____

Remarks: Questions 2, 3 and 4. Quantity of water claimed and Location of Points of Diversion:

<u>Diversion</u>	<u>Bearing and distance from the NE Cor. of Sec 21, T2N R 42E, BM</u>	<u>Location-all in T2N, R42E, BM</u>	<u>Quantity, cfs Supplemental to License No. 16711</u>
(A) Little Cottonwood Sprs.			
Spring No. 1	S. 32° 43' W. 3511 ft.	NW-1/4, SE-1/4, Sec 21)	
Spring No. 2	S 46° 31' W. 3881 ft.	SE-1/4, NW-1/4, Sec 21)	
Spring No. 3	S 51° 17' W. 3854 ft.	SE-1/4, NW-1/4, Sec 21)	0.13
Spring No. 4	S 54° 42' W. 2270 ft.	NW-1/4, NE-1/4, Sec 21)	
(B) Little Cottonwood Cr.			
	S 39° 32' W. 2851 ft.	SW-1/4, NE-1/4, Sec 21	0.05
(C) Unnamed stream			
	S 0° 24' E. 7022 ft.	SW-1/4, NW-1/4, Sec 27	0.02
Total			0.20 cfs

All points of diversion are on land owned by the United States.

Little Cottonwood Creek sinks in Sec. 27, T2N, R42E, BM without reaching any other body of water. (Remarks continued on supplemental page)

Nothing herein shall constitute a waiver of other rights the United States may have to the same water.

BE IT KNOWN That the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

United States of America

Applicant.

By

Floyd A. Henderson
Supt., Craters of the Moon Nat'l Monument

Affidavit of Permission to File on Springs

(Not to be used when spring is situated on lands owned by applicant.)

I, _____, of _____, County of _____, State of _____, do hereby certify that I am the owner of the land on which the spring mentioned in the application of _____ is located, to-wit: _____

and that I do hereby grant unto the said _____ permission to file on the said spring as set forth in the foregoing application.

STATE OF IDAHO)
County of _____) ss.

On this _____ day of _____, 195____, before me, a Notary Public for the State of Idaho, residing at _____, personally appeared _____ known to me to be the person whose name _____ subscribed to the foregoing certificate, and acknowledged to me that he executed the same.

Witness my hand and seal, the day and year in this certificate first above written.

My commission expires _____

Notary Public.

Approval of State Reclamation Engineer

The number of this permit is

Recorded in Book Page Approved.....
This is to certify that I have examined the within application for a permit to appropriate the public waters of the State of Idaho, and hereby approve the same, subject to the following limitations and conditions:

Bond in the sum of \$..... to be filed before

Work to begin on or before, and to continue diligently and uninterruptedly to completion, unless temporarily interrupted by circumstances over which the permit holder has no control.

One-fifth of the work above specified to be completed on or before

The whole of said work to be completed on or before

Beneficial use of water appropriated in accordance herewith, to be made on or before

Witness my hand this day of, 195.....

.....
State Reclamation Engineer.

IN TESTIMONY WHEREOF, We, ... Governor of the State of Idaho,
and Secretary of State of the State of Idaho, have caused this instrument to be executed in the name of the State of Idaho, and caused the Great Seal of the State of Idaho to be hereunto affixed, this day of, 195.....

Countersigned:

STATE OF IDAHO

By
Secretary of State.

By
Governor.

221 98 To 2013 1 2013

No.	
PERMIT	
Date of first receipt at office of State Reclamation Engineer	
Returned to applicant for correction	
Corrected application received	
Fees, \$	
FILING FEES FOR USE PERMIT:	
For the first Sec. Ft.	\$5.00
For each additional Sec. Ft. or Fraction	
Thereof	.25

GRAPH PAPER
10 x 10 PER INCH

MADE IN U.S.A.

Attachment 4
National Park Service - Region Four
CRATERS OF THE MOON NATIONAL MONUMENT
HEADQUARTERS WATER SYSTEM

WATER MEASUREMENT AND DEVELOPMENT

L. Spaulding, Hydraulic Engineer
Region Four
June 29, 1960

SOURCE	DATE OF DEVELOPMENT OR OF MEASUREMENT								
	July 1, 1927	June 27, 1932	May 9, 1939	1956-1957	1957	1958	Summer 1959	Winter '59-'60	May 16, 1960
	Original Filing	Proof of Completion Filed ① Flow, gpm	License Issued	Reconstruction of System	Measurement by Nixon & Henry ① gpm	Measurement reported by Supt. Bright ② gpm	Measurement reported by Supt. Henderson at Region 4 Mar. 8, 1960 ③ gpm	Measurement by Spaulding & Oschner ④ gpm	
Little Cottonwood Sprs.									
No. 1	Application No. 23630 filed on six sprs. Quantity filed on 1-4-60	8 } works completed 10 } diverting from 8 } 4 springs	License No. 16711 issued for 1055 cfs	Spr. basins at main 50,000 gal. reservoir & distribution system constructed	12				34.3
No. 2									
No. 3					18		27	32	41.3
No. 4					12		9 ③	16	10.3
No. 5									
No. 6					6				
Undeveloped Spr. near No. 2									
Spr. Total		30			48	60-70	36	48	85.9
Little Cottonwood Cr. below Spr. #4									25
near Main Fork Col. box									14.3
West Fork									4.3
TOTAL									297

① As reported by C.E. Richey, memo of August 2, 1957 (D 5039)

② Superintendent's memo of May 12, 1958 (D 5031)

③ Spring No. 4 excavated & backfilled with rock & cinders during the summer of 1959 (see Supt's memo 1-4-60 D 5031)

④ Measurements as recorded in Craters of the Moon Field Book "Water" page 3

⑤ Flow data as noted in pencil on copy of DWG. NMCM-4769 contained in completion report of April 19, 1932

Attachment 5.

CRATERS OF THE MOON NATIONAL MONUMENT

Estimate of Water Needs for Supplemental
Appropriation Estimated for the year, 1966

L. S. Spaulding, Hydraulic Engineer

June 29, 1960

Irrigation (per marked print of NMCRA-2008G prepared by Superintendent
Henderson and Spaulding on May 16, 1960.)

1. Visitor Center - Service Area - Residential Area.		
Areas in grass, shrubs and trees, 100% coverage.		
6.7 acres @ .02		.134 cfs
2. Campground (scattered trees)		
10 acres @ 10% coverage 1.0 acre @ .02		.020 cfs
Total irrigation		.154 cfs

Domestic (population and visitation estimated by Superintendent
Henderson)

1. Permanent residents - 20 @ 100 gpd	2,000 gpd	
2. Seasonal residents - 13 @ 100 gpd	1,300 gpd	
3. Campers (peak day) - 100 @ 35 gpd	3,500 gpd	
4. Day use (peak day) - 1200 @ 5 gpd	6,000 gpd	
Total irrigation	12,800 gpd	= .020
Total 1966 needs		.174 cfs
Less present water right, License 16711		.055
Supplemental water right claim		.119 cfs

The supplemental claim has been increased to 0.20 cfs on the Application prepared June 29, 1960 to allow for increases over the above estimates, to allow for other uses incidental to operation and maintenance and to permit greater flexibility in the quantities eventually taken from each source. In regard to the latter it is noted that the commingling of Diversion (C) with the other diversions may be impractical because of head limitations and that improvement of spring collection works and more efficient use of water (e.g., night irrigation) may make Diversion (B) unnecessary. In any eventuality our claim for water from Little Cottonwood Springs, Diversion (A), shown as 0.13 cfs on the Application, when added to existing rights under License 16711 (.055 cfs) should not be less than the total discharge of the four springs (85 gpm or 0.19 cfs as measured on May 17, 1960).



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON 25, D. C.

In reply refer to:
D-5051-CRMO-1

December 29, 1952

Memorandum

To: Regional Director, Region Four
From: Chief, Water Resources Branch
Subject: Water Rates, Craters of the Moon National Monument

The first paragraph of the second page of the memorandum of November 25 from Mr. Vint is partially a result of discussion with me, but does not fully cover my comments.

The right under License 16711 authorizes the use of 0.055 second-foot (35,546 gallons per day) for camp administrative purposes with no seasonal restrictions. In answer to question 15a of Application No. 23630, in Docket 1, Mr. Burrell stated that there would be no primary storage.

The application and resulting license are somewhat ambiguous. This is one of two or three rights initiated by this Service before the formal water right program was started, and improvements could now be made. However, I believe that camp use can be construed as domestic use, and that primary storage can be construed to mean basic, annual storage of all water to be used. Therefore, I believe that 35,546 gallons could be diverted every day of the year, if the total of 12,974,000 gallons were beneficially used.

At 43,000 gallons per day from May 1 to September 30, the total water consumption would be 6,579,000 gallons, while the authorized rate of diversion would only produce the 5,453,000 gallons mentioned by Mr. Vint. The difference of about 1,126,000 gallons would have to be obtained from storage provided during the winter or flood season. I believe that this could be classed as regulatory storage, and permissible under the water right license. Accordingly, the existing right seems to be adequate for the summer use of considerably more than 35,546 gallons per day, if storage is provided for more or less of 1,000,000 gallons.



Although not specifically authorized, I also believe that 40,000 or 50,000 gallons could be diverted for one or two days of peak demand without protest, provided that the average diversion rate over a week or ten days stayed within the 35,546 gallons per day. Of course this is based on the assumption that such a flow is available when needed. The depositions of Messrs. Markel, Miller, and McCarthy seem to agree that up to 1.0 second-foot is available at times, but probably not when needed.

In spite of these considerations, it may be that a supplemental water right should be initiated for the diversion of more than 0.055 second-foot. However, in the spirit of the water laws, it is going to be increasingly necessary to conserve and use those waters for which rights are established. If there is a summer water shortage, and winter or spring surplus, we should design a water system with proper balance between available flow, regulatory storage, and demand, before we consider the need for a right to divert more water at the peak of the summer demand in the basin as a whole.


A. van V. Dunn
Chief, Water Resources Branch

In duplicate

*Craters of Moon
660-05*

to Mr. [unclear]

*transferred from 660-05
JSS 4-5-60*

UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
WATER RIGHTS SECTION

SAN FRANCISCO, CALIF.
601 Sheldon Building

July 27, 1943.

MEMORANDUM for the Regional Director, Region Four.

en 381

Reference is made to your memorandum for the staff of July 21, 1943, with regard to Craters of the Moon National Monument, and particularly to the last paragraph on water and power. I offer my considerations, based on very limited information.

A water right was initiated by Mr. Burrell under Permit No. 16,711 on July 7, 1927, claiming a 4-inch pipe, 4 miles in length with an average grade of 250 feet per 1000 feet. The final license was issued on May 9, 1939, for the appropriation of 0.055 sec. ft. or 35,547 gallons per day.

A license is limited to the quantity of water which is beneficially used. Mr. Waterhouse advises that only a 2-inch pipe, and not the 4-inch, was installed. With the lodge, a maintenance crew, and the normal park staff of peace times it seems quite probable that a demand for 35,547 gpd has existed at some limited times in the past. I conclude that this was probably the full 2-inch pipe capacity. If the pipe is cast iron, as Mr. Waterhouse says, and 4 miles in length, we can determine that the effective hydraulic gradient is approximately 19.6 ft. per 1000, or about 103.5 feet per mile instead of the 250 feet estimated by Mr. Burrell.

I understand that Mr. Waterhouse checked with you and found that all spring flow passes through the pipe. The waste water to which you refer is overflow at the place of use. It must, therefore, be part of the 35,547 gpd or 0.055 sec. ft. that can flow through the pipe. When this maximum quantity flows through the pipe, it arrives at the headquarters area with no residual pressure head. If the spring flow falls below 0.055 sec. ft. it will pass through the pipe with some residual pressure. When the available flow dropped to 26,000 gpd it would leave a residual pressure of about 187.5 feet for power. If the flow dropped to 17,280 gpd (about half) it would have a residual pressure of about 308 feet.

A flow of 26,000 gpd with a head of 187.5 feet could develop a maximum of only 506 watts — not kilowatts — and a flow of 17,280 gpd with a head of 308 feet could develop only 560 watts. Neither is enough to run more than 8 or 9 of the 60 watt electric light bulbs. Actually there would be less power due to line losses, and it is doubtful if any small generator unit of the necessary type would be very efficient.

As an alternate consideration, the two people now living at the monument certainly need no more than 200 gpd unless they irrigate. The surplus water is the difference between 35,547 gpd flowing through the pipe and 200 gpd which they consume. The difference is 35,347 gpd, or 1472 gallons per hour. This is about 7% of your reported waste and I wonder how reliable your information was.

Craters of the Moon had an attendance of 21,796 people in 1941; 21,182 people in 1938; and less in all other years to date. This suggests a maximum daily attendance of about 600 people. Assuming that some lawns and shrubbery have been started, or will be started, at the headquarters, I estimate the following non-power water demand for a peak day:

Ranger and wife at 100 gpd per capita	200 gpd
12 other employees at 85 gpd per capita	1,020 gpd
555 transient visitors at 15 gpd per capita	8,250 gpd
Full lodge of 50 guest capacity	11,250 gpd
2 acres irrigated at 5400 gpd per acre	9,800 gpd
Total	30,520 gpd

This maximum demand is only needed on a few days each summer, but it is practically the total available flow. On many other days there would be much greater waste because of reduced attendance. If storage of 100,000 gallons were provided on the existing water supply line, it seems probable that a flow of about 12,000 gpd would be ample for the previously described domestic and irrigation demand of 1938 and 1941. This would leave 23,500 gpd which could be used for power, but to use it would require a larger pipe to reduce head loss.

Accepting my first derivation, there seems to be a gross head of about 413.0 feet. A flow of 23,500 gpd in an independent 3 inch steel pipe would have a friction head loss of about 45 feet in the 4 miles, leaving 368 feet of effective power head. If the power unit can be built with an 80% efficiency, as I previously assumed, the potential development would develop about 925 watts. I think it is more probable, for such a small unit, that there would be a 50% efficiency and power output of only 577 watts. This would require the following new construction:

- 100,000 gallon reservoir on existing 2" line.
- 4 miles of 3 inch pipe for power.
- 1 small generator unit.
- Possible storage on 3 inch line.

It is possible to use the full 35,547 gpd for power and put the generator about 200 feet higher than the headquarters so that the water from the tail-race

would still have enough head for fire protection at headquarters -- or is the system I have described one to an existing reservoir to provide fire pressure? Using the same 3 inch pipe, the power output, at 80% efficiency, might be raised to 1200 watts, or 1.2 KW. This could be increased to about 1.38 KW by using 4-inch pipe instead of 3-inch.

It looks to me as though power were not a practical use for the water. If power is needed a diesel unit would give much more nearly what is needed for less money. In fact, with rural electrification, the nearness of Twin Falls, and potential lines from Grand Coulee, I am not even sure that you cannot buy commercial power economically in a few years.

(SGD.) A. VAN V. DUNN

A. van V. Dunn,
Hydraulic Engineer.

C O P Y

STATE OF IDAHO

DEPARTMENT OF RECLAMATION
R. W. Paris, Commissioner

Paul H. Berg
Deputy Commissioner

BOISE

Barzilla W. Clark, Governor

July 8, 1938

Re: Permit No. 16711

Mr. GUY E. McCARTY
Custodian, Craters of the Moon
Arco, Idaho

Dear Sir:

In compliance with your request of July 7, we are enclosing herewith a certified copy of Permit to appropriate the Public Waters of the State of Idaho, No. 16711, together with the Certificate of Completion of Works issued thereunder.

The charge for preparing this certified copy is one dollar and fifty cents (\$1.50), which you may remit to this Department at your convenience.

Yours very truly,

R. W. PARIS,
Commissioner of Reclamation

By /s/ Clementina Inglin
Secretary

ci
enc.

C O P Y

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
R. W. Faris, Commissioner

Paul H. Berg
Deputy Commissioner

BOISE

Barzilla W. Clark, Governor

June 10, 1938

Re: Permit No. 16711.

Mr. Guy E. McCarty, Custodian
National Park Service
U. S. Department of Interior
Arco, Idaho

Dear Sir:

This will acknowledge receipt of notice in duplicate for publication in connection with beneficial use proof, and also your authorization to have the notice published in the Arco Advertiser, Arco, Idaho, all in connection with Permit No. 16711.

A copy of the notice has been mailed to the newspaper with instructions to publish it once a week for four consecutive weeks prior to July 27, 1938. About ten days prior to this date depositions, consisting of one for the holder and one each for two witnesses, will be mailed to Robert A. Miller, Notary Public, Arco, Idaho, so that he will have them in ample time for the proof.

On the date designated you should appear at Mr. Miller's office with two disinterested witnesses who are familiar with the terms of the permit and the works constructed thereunder, for the purpose of executing the depositions.

Very truly yours,

R. W. FARIS
Commissioner of Reclamation

By /s/ Jane Lockett

Chief Clerk

transferred from 440 - 05 file
file 4-5-60

Craters Moon
201

660-05
UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
CRATERS OF THE MOON NATIONAL MONUMENT
ARCO, IDAHO

OFFICE OF THE CUSTODIAN

June 9, 1938.

Mr. Joseph E. Taylor,
Regional Attorney,
National Park Service,
601 Sheldon Building,
San Francisco, California.

Dear Mr. Taylor:

Inclosed is a copy of the letter sent to the Commissioner of Reclamation, Boise, Idaho.

As there was not time to have the notice for publication, published sixty days before the date set, I have requested the date be extended to July 27, 1938. I have not received any further instructions from the Commissioner of Reclamation.

I donot find a copy of permit No. 16711, for the use of this water. The evidence of priority use of this water to be submitted, will be The Final Construction Report of the pipe line, dated April 19, 1932.

I will keep you posted on any further developement.

Sincerely yours,

Guy E. McCarty,
Custodian.

cc: Regional Director, Region IV.

660-04

transferred from 660-05 file
Region IV
May 13, 1938
noted
5/13/38
C. H. Mason
201

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION FOUR
601 SHELDON BUILDING
SAN FRANCISCO, CALIFORNIA

May 13, 1938.

Mr. Guy E. McCarty,
Custodian,
Craters of the Moon National Monument,
Arco, Idaho.

Dear Mr. McCarty:

We are sending you herewith two copies of Notice of Proof Application of Water to Beneficial Use and one copy of Notice, Form No. 11. We received these notices enclosed with Form No. 9 of the Department of Reclamation on May 12, said Form No. 9 being dated May 10. These blanks are supposed to be filled out and returned to the Commissioner of Reclamation at Boise sixty days before the date upon which you wish to make proof. The date for proof, as set out in your permit No. 16711, is July 7, 1938.

We trust you will return the enclosed forms to the Commissioner of Reclamation at once. In the notice we received, Form No. 9, the statement is made that proof is to be submitted before a notary public or other officer authorized by law to administer oaths. Undoubtedly, when you have forwarded these blanks and the Commissioner has made publication in accordance therewith, he will mail you or us further blanks upon which the proof may be sworn to.

This filing was made and permit issued prior to the time of the establishment of this division. Therefore, we would like copies of all papers, notices, proofs, etc., to be mailed to this office as filed. We were under the impression that this filing was complete, as you may judge from the letter we received from the Department of Reclamation on Feb. 1, 1937, as follows:

"In reply to your letter of January 26th, please be advised that the records of this office show that Permit No. 16711 was issued several years ago to the Department of the Interior, United States National Park Service, authorizing the appropriation of one

second foot of water from six springs located at the head of Little Cottonwood Creek in Sections 16, 21 and 22, T. 22 N., R. 24 E., B. M.

"This appropriation was made for camp administration purposes in the Craters of the Moon National Monument."

Sincerely yours,

Joseph E. Taylor,
Regional Attorney.

By:

Albert L. Johnson,
Associate Attorney.

Encls.

ALJ:SH

CC: Regional Director, Region IV.

transferred from 660-05 file
file 4-5-60

66p-84

601 Sheldon Bldg.,
San Francisco, Calif.,
May 12, 1938.

MEMORANDUM FOR THE FILES:

Associate Engineer Samuel Cutler handed to me today, without an envelope, a notice from the Department of Reclamation of Boise, Idaho, advising of the need for publishing of notice of proof of application on permit 16711. This notice was mailed May 10, and received by Mr. Cutler on May 12. It is noted that proof is needed on July 7, and that the application blanks submitted with the notice should have been in the office of the Commissioner of Reclamation, Mr. R. W. Faris, by May 7.

This application was filed by the Custodian and not by this office, and we were not aware of the need for any such action. It seems possible that there has been some neglect on the part of the Custodian of Craters of the Moon if he was aware of the need for the proof, but the notice certainly was too late to permit sixty-day execution. The matter has been still more complicated by receipt by the Chief Engineer's representative at the Federal Building and handed without comment to me without going through the Regional Office. He explained to me that it apparently needed such immediate action that he would appreciate my taking care of the Regional formalities.

Mr. Johnson and I have just reviewed the matter as far as available in our records, and have decided that he will return the blanks to the Custodian for execution, and suggest that he might be able to claim a slight waiver of time, and therefore prevent a lapse of the application date due to the late receipt of notice.

AvVD:SH

A. van V. Dunn,
Associate Engineer.

CC: Regional Director, Region IV. ✓

C O P Y

Form No. 9

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE

National Park Service
U. S. Department of Interior
409 Underwood Building
San Francisco, California

May 10, 1938

Dear Sir:—

I enclose herewith blank notice of proof of application of water to beneficial use under your permit No. 16711, which should be filled out and returned to this office at least 60 days before the date upon which you wish to make proof. The date for proof, as set out in your permit, is July 7, 1938, and, if proof is submitted subsequent to said date, your priority will be brought down a length of time equal to the time elapsing between the date proof should have been made and the date proof is actually made.

Yours truly,

R. W. FARIS

Commissioner of Reclamation.

Proof is to be submitted before a notary public or other officer authorized by law to administer oaths.

Craters of the Moon National Monument
Arco, Idaho

L54

November 16, 1962

Memorandum

To: Regional Director, Western Region
From: Superintendent, Craters of the Moon
Subject: Supplemental Water Right (Permit No. 28964) Craters of the Moon National Monument

Mr. Ed Bowman, of Wendell, Idaho, a rancher engaged in the raising of sheep, recently purchased the SE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 28, Twp. 2N, Range 24 East.

This forty-acre parcel of deeded land is bounded on the north and east by the Monument. While this forty-acre parcel is not significant from the standpoint of grazing land for sheep, we understand there is a considerable amount of Taylor Grazing Rights which were transferred with the Deed to this property.

Mr. Bowman advised Supervisory Park Ranger Appling, during a recent conversation, that he purchased this parcel of land primarily for the purpose of using the water thereon for livestock (sheep). He did not use the land for grazing or water this fall due to the fact that he was not able to locate the Monument boundary. Monument personnel have been unsuccessful in locating the survey points on the Monument boundary in the vicinity of Mr. Bowman's property. We will attempt to secure the survey notes for this area and make further effort to locate the Monument boundary.

Mr. Bowman was advised that the National Park Service has a water right (Permit No. 28964) on the South Fork of Little Cottonwood Creek which is the same stream that passes through his deeded forty-acre parcel. The point at which he would utilize water for livestock purposes is located up stream from the point of diversion we propose to use under Permit No. 28964. We assume he will contact the State Reclamation Engineer to determine the extent of his water rights prior to the time he initiates development of any facilities.

The enclosed map shows the location of Mr. Bowman's property, described above, as well as the proposed location for water diversion structures ".C" as provided for in subject permit.

Water Permit (28964) issued to the United States of America, Craters of the Moon National Monument, on September 1, 1960, provides that all work set forth therein must be completed prior to September 1, 1965. It further provides that one-fifth of the work must be completed by March 1, 1963. The latter portion has been completed and is the subject of a separate memorandum.

Enclosed in duplicate, for your review, is the proposed plan for a water diversion structure at point "C" (South Fork Little Cottonwood Creek) as prepared by Civil Engineer Otake, WODC.

Merle E. Stitt

Enclosures

Rec'd 3-12-62
23/12
Slays
Am...
UNITED STATES DEPARTMENT OF AGRICULTURE *File: Idaho*
SOIL CONSERVATION SERVICE

P. O. Box 1247
Boise, Idaho

March 8, 1962

Mr. Herbert Maier
Ass't Regional Director
Reg. 4, Nat'l Park Service
180 New Montgomery Street
San Francisco 5, Calif.

Dear Mr. Maier:

Enclosed is a Status Report, together with a map, showing the location of watershed applications under Public Law 566 (Watershed Protection and Flood Prevention Act).

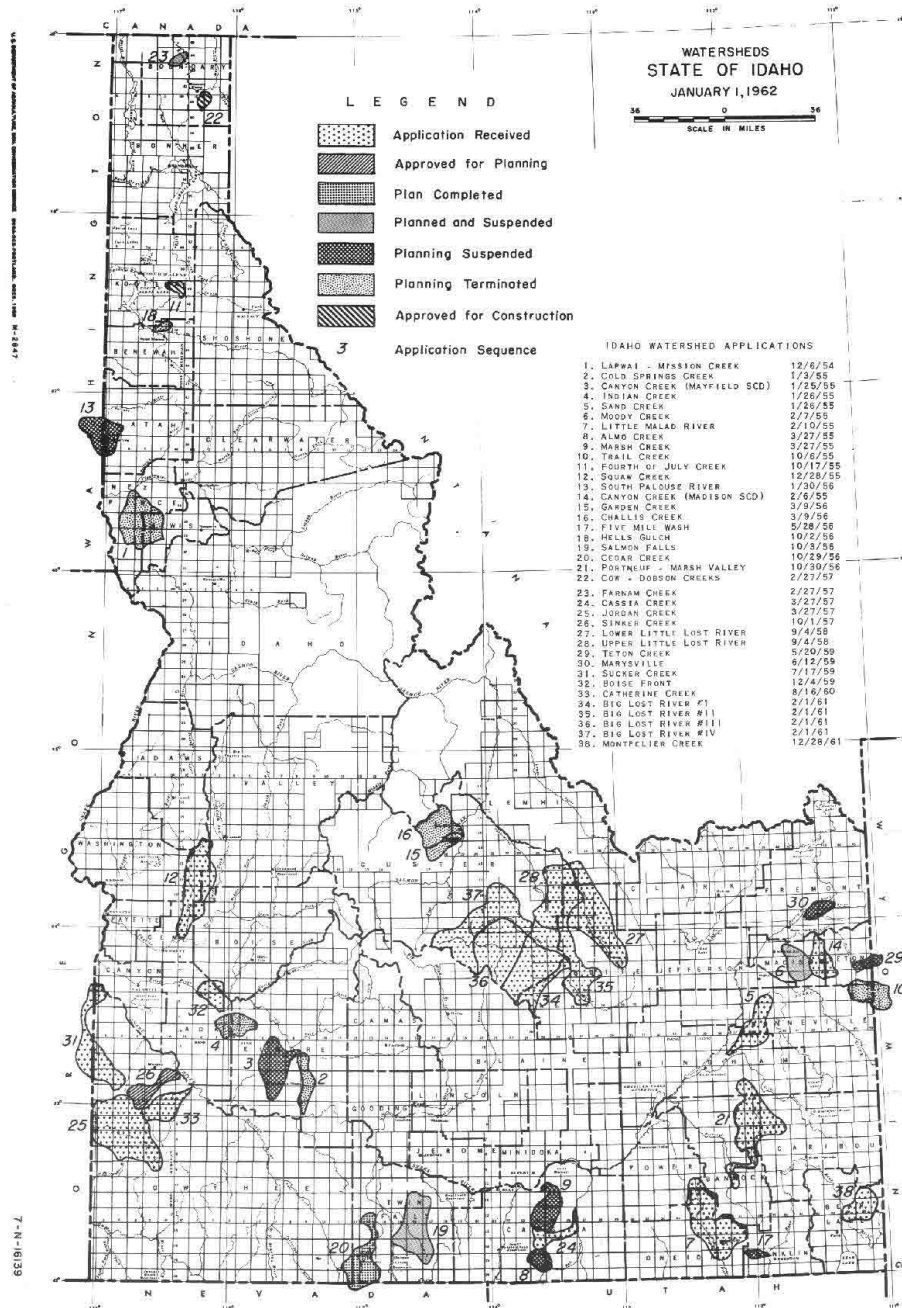
If you have need of additional copies of this report or have questions pertaining to it, please advise us.

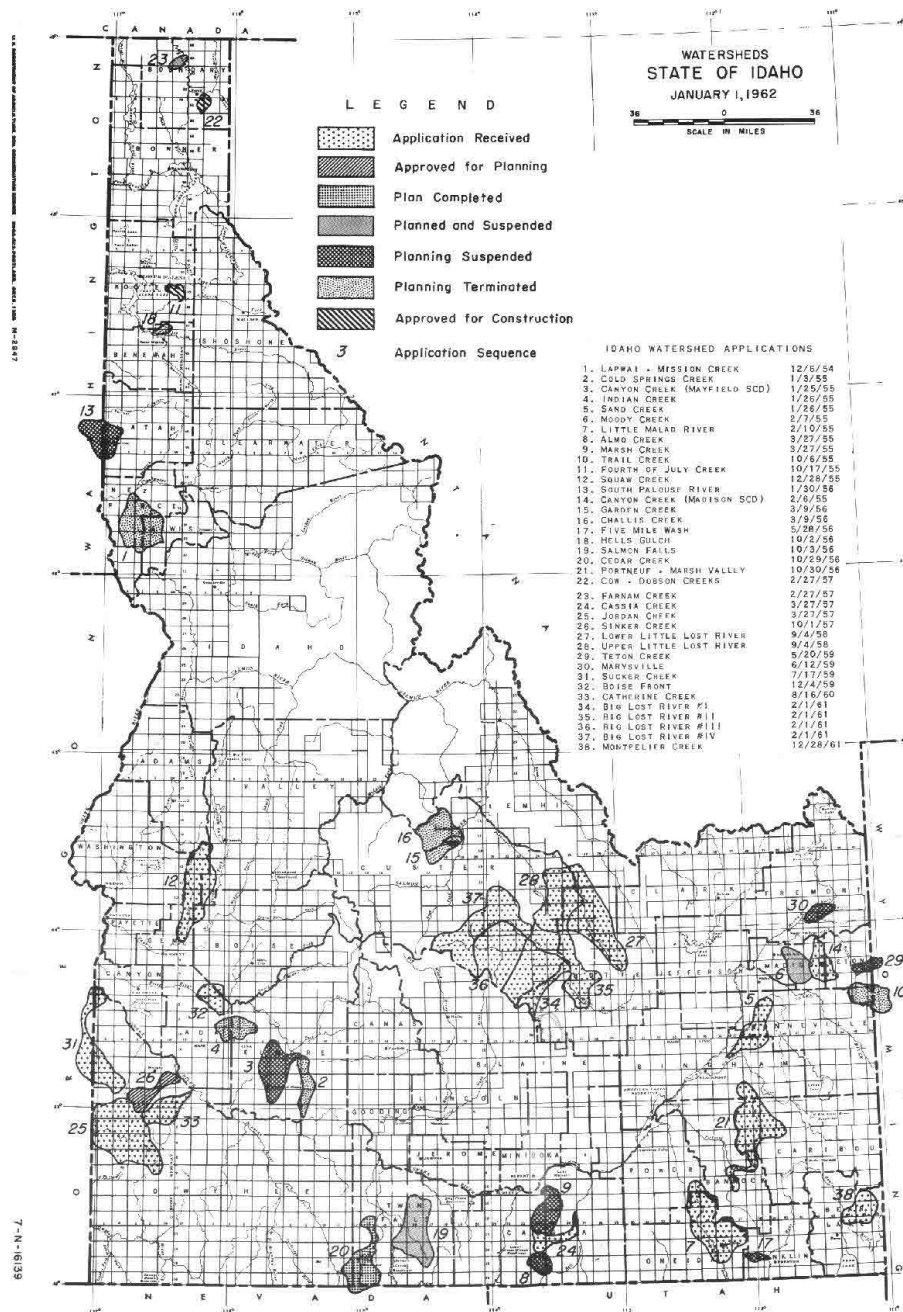
Sincerely,

Lee T. Morgan

Lee T. Morgan
Lee T. Morgan
State Conservationist

Enclosure





July 22, 1960

L 54

~~Spaulding~~ LSS

~~Whitworth~~

~~Wos~~

~~Quiat~~

Memorandum

To: Superintendent, Craters of the Moon
From: Regional Chief of Operations, Region Four
Subject: Supplemental Water Right Application,
Headquarters Water System, Docket 1,
Craters of the Moon National Park

You probably have received copies of Mr. Dunn's memorandum of July 8 and of Sacramento Regional Solicitor Horne's memorandum of the same date. The latter memorandum forwarded our memorandum of June 30 with attached copy of the application to the Regional Solicitor, Portland Region for review.

Mr. Dunn indicated that the application is probably satisfactory for filing but asked that certain items be reconsidered. He suggests claiming the entire reliable summer flow of the streams and springs which he has calculated may be between 0.223 cfs and 0.325 cfs in addition to the 0.055 cfs now covered by our existing right.

On reconsideration we believe it would be advantageous to increase the claim from the main stream of Little Cottonwood Creek (Diversion B) from 0.05 cfs (22 gpm) to 0.07 cfs (31 gpm) so as to equal the full capacity of the existing two-inch pipeline. This increase is suggested to fit in with your plan to use the old 2-inch pipeline for untreated irrigation water and to carry only protected spring supply in the new 4-inch pipeline. In the event the quality of Spring No. 4 improves (now reported contaminated), you may wish to add the water of Spring No. 4 to the water from the other springs. In this eventuality, it would appear advantageous to have a right to take the full capacity of the 2-inch main (.07 cfs) from Diversion B. Hence our suggested change.

Our reconsideration disclosed that it probably is not possible to add Diversion C, the lower fork of Little Cottonwood Creek to the supply from Diversion B, the main stem of Little Cottonwood Creek, using the system shown on the map accompanying the application. To do so would require that the point of Diversion C be moved about 1800 feet upstream to be at the same elevation as Diversion B. This would put the point of diversion and a portion of the pipeline outside the Monument. (Comingling the two supplies by the use of an open sump on the two-inch main is not feasible because the junction point is about 75 feet lower than the reservoirs.) We

FILE
COPY

suggest that the application with regard to Diversion C remain as it now is even though this portion of the system cannot be installed as planned. (At the time of making proof for license the description will be changed to fit the system actually constructed.)

We do not believe the quantity claimed should be increased more than the .02 cfs increase we suggested above inasmuch as it will be difficult to prove beneficial use of a supplemental flow of 0.22 cfs, let alone a further increase. Further, we believe the total claim including our existing right is close to or exceeds the normal summer flow of the springs and stream.

If agreeable with you we suggest the application be changed as follows:

1. Question 2 on the first page. Change "0.20" to "0.22."
2. Question 2 on supplemental page. Change quantity claimed for Domestic use from 0.05 cfs to 0.07 cfs and change total supplemental claim from 0.20 cfs to 0.22 cfs.
3. Question 2 on supplemental page under "Total supplemental claim 0.22 cfs" add the following two lines:

Existing right under License 16711	0.055 cfs
Total future diversion	0.275 cfs

4. Under remarks on the third page change the quantity for Diversion (B) from 0.05 to 0.07 and change the total from 0.20 cfs to 0.22 cfs.

Upon the receipt of the Regional Solicitor's approval of the general form of the application it may be submitted to the State of Idaho.

We are transmitting herewith a set of docket tabs and a table of contents to be inserted in docket folder No. 1. By copy of this memorandum we are transmitting to WODC a copy of the docket folder containing only a copy of License 16711, a set of tabs and a table of contents.

(SGD) JOHN B. WOSKY

Regional Chief of Operations

Attachments

Copy to: Director (2)(w/set of tabs, table of contents, and
extra copy of our memo of June 30 for
Mr. Dunn)
Chief, WODC (2)(w/docket folder)

LSSpaulding:lq

FILE
COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON 25, D. C.

ADDRESS ONLY
THE DIRECTOR, NATIONAL PARK SERVICE

Water Rights Assembly **DEED 5**
Craters of the Moon

April 26, 1948.

MEMORANDUM for the Regional Director, Region Four.

The enclosed copy of memorandum of April 2 from the Bureau of Land Management and plat of Right of Way for Highway, FP-128, both in duplicate, should be inserted in Craters of the Moon National Monument Deed 5. To conform with our assemblies, please place them directly above Mr. Wirth's memorandum of May 5, 1944, and under the application for permit, in the assemblies of the deed in your office and at the Monument.

In making up the assembly, I questioned the adequacy of right to cross the highway with the Monument pipe line. However, these records indicate that the pipe line was an encumbrance on the land at the time highway right of way was granted to the state.

This seems to complete all right of way records in connection with this pipe line.

Edward Lunn
Chief, Water Resources Branch.

Enclosure 197.
In duplicate.

APR 30 1948	
ROUTING	DATE
<i>Montgomery</i>	<i>5/10</i>
<i>Crowley</i>	<i>5/10</i>
<i>Wirth</i>	<i>5/10</i>
<i>Wirth</i>	<i>5/10</i>

docket rearranged
4-5-6 by Spaulding
all correspondence
placed on left
side - ^{copy} official
documents & other
material defining
the right to the
right side.

155

C O P Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

1312005 "LU"

(stamped) Apr 2 1948

MEMORANDUM

TO: Director, National Park Service

FROM: Director, Bureau of Land Management

SUBJECT: Land Excluded from the Craters of the Moon National Monument
by Proclamation No. 2499 of July 18, 1941.

Reference is made to the request dated March 16, 1948, by the Chief, Water Resources Branch, for the status of sec. 35, T. 2 N., R. 24 E., B. M., Idaho, and a map showing the right of way across this section.

Secs. 35 and 36 of this township were, with other lands, reserved and set apart as the Craters of the Moon National Monument by Proclamation No. 1694 of May 2, 1924. The area of the monument was increased by Proclamation No. 1843 of July 23, 1928, and by Proclamation No. 2499 of July 18, 1941, a strip of land for the construction of Idaho State Highway No. 22 was eliminated from the Monument.

A copy of the map filed by the State of Idaho showing the location of this strip is enclosed.

For the Director:

(Sgd) C. R. Drexilius

Acting Chief, Branch of Land Use.

Encl.

Craters of the Moon
5

601 Sheldon Building

April 29, 1947.

FILE COPY

HOMER R.R.#.

CHAWLEY

MEMORANDUM for the Director.

Enclosed, herewith, is a copy of a reply from the Custodian, Craters of the Moon, to the question raised by Mr. Burney in his memorandum of March 25 concerning right of way across State Highway #22, Idaho, in Sec. 35, T. 2 N., R. 24 E., near Monument headquarters.

(SGD.) H. MAIER

Herbert Maier,
Associate Regional Director.

Enclosure 85.

cc: Custodian, Craters of the Moon.

LEH:rw

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
CRATERS OF THE MOON NATIONAL MONUMENT
ARCO, IDAHO

OFFICE OF THE CUSTODIAN

APR 23 1947	
ROUTING	
<i>Maize</i>	<i>4/20</i>
<i>Chow</i>	<i>4/24</i>
<i>X H. R. R.</i>	<i>4/29</i>

April 23, 1947.

Copy to Director 4/29

MEMORANDUM for the Regional Director,
Region Four.

Reference is made to your memorandum of March 31, in regard to the pipe line right- of -way across the state highway. *See Bureau Memo, Mar 25*

The pipe line was first layed across the highway during the summer of 1931. The line was started April 5, and compleated July 28. At that time the land belonged to the Park Service.

I do not find anything in the file to show that any right-of-way was reserved for the pipe line when the deed was made out to the State for the highway. As there was a cut of about six feet at this spot the line was lowered to four or five feet below grade by the contractor.

Ernest E. Carty
Custodian.

asked of Mr. Wright of May

UNITED STATES
DEPARTMENT OF THE INTERIOR
National Park Service
Region Four
601 Sheldon Building
San Francisco 5, California

March 31, 1947.

MEMORANDUM for the Superintendent, Craters of the Moon.

Please furnish this office with any information you have on the question raised in the enclosed memorandum of March 25 by Mr. Burney concerning the pipe line right-of-way across state highway No. 22.

Homer L. Crowley,
Acting Associate Regional Director.

Enclosure 783.

HEC:bk



FILE COPY FILE COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
CHICAGO 54, ILL.

MAR 28 1947	
ROUTING	DATE
<i>Carpenter</i>	<i>3/27</i>
<i>Stromberg</i>	<i>4/1</i>
March 25, 1947.	
FILE	<i>m</i>



ADDRESS ONLY
THE DIRECTOR, NATIONAL PARK SERVICE

MEMORANDUM for the Regional Director, Region Four.

Comparing the Water Right Permit No. 16711 for Craters of the Moon National Monument (Deed No. 5) with the Boundary Status Report for that area, which was submitted with Mr. Maier's memorandum of March 14, we find that we have no record of pipe line right of way across State Highway No. 22 in Section 35, T. 2 N., R. 24 E. Please advise us of any arrangements which were made for crossing that 200-foot right of way.

copy with memo by H. L. 3/28 to Custodian

Herb Burney
Assistant Chief of Development.

In duplicate.

*action of
680-051mm*

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

601 Sheldon Building

Region Four.
MAY 23 1944
ROUTING
Key

May 23, 1944.

MEMORANDUM for the Director.

The attached memorandum of record, based on Mr. Burney's memorandum of May 18, should be attached to Craters of the Moon Deed 5, as the very first instrument at bottom of the assembly.

(SIGNED) A. VAN V. DUNN

A. van V. Dunn,
Hydraulic Engineer.

Enclosure 458.

cc: Region Four, with attachment.
Custodian, Craters of the Moon,
with attachment.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

May 10 1944
ROUTING
Date
FILE

May 10, 1944.

MEMORANDUM for the Custodian,
Craters of the Moon National Monument.

In reply to my memoranda of April 10 and 21 regarding pipe line right of way across the State school land at Craters of the Moon, the Chief of Lands has sent the attached memorandum to show that the United States has been granted the necessary right of way under an act of 1905 (Sec. 56-504, Idaho Code, 1932). It is requested that you insert Mr. Wirth's memorandum just below the permit in your copy of Deed 5.

(SGD.) A. VAN V. DUNN

A. van V. Dunn,
Hydraulic Engineer.

Attachment.

cc: Director, with original of Mr.
Wirth's memorandum for insertion
in Craters of the Moon Deed 5.
Region Four (copy already inserted in deed assembly).

C O P Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
CHICAGO 54, ILL.

May 5, 1944.

MEMORANDUM for the Regional Director, Region Four.

In reply to Mr. Dunn's memorandum of April 10, regarding a reservation of a right of way over State school lands in Craters of the Moon National Monument, the Acting Chief Counsel has replied as follows:

"Independent of the possibility that the State school land is subject to the reservation of a right-of-way for ditches or canals constructed by authority of the United States, as provided by the Act of August 30, 1890 (26 Stat. 391), the State of Idaho has granted such a right-of-way over all State-owned lands by a law enacted in 1905 (Sec. 56-504, Idaho Code, 1932), which reads as follows: 'There is hereby granted over all the lands now or hereafter belonging to the State a right of way for ditches, tunnels and telephone and transmission lines, constructed by authority of the United States. All conveyances of State lands hereafter made shall contain a reservation of such right of way.' The State act operates as a grant and it does not appear necessary to obtain a right-of-way deed from the State."

(Sgd) Conrad L. Wirth
Chief of Lands.

In duplicate.

*notes of March
660-45*

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
CHICAGO 54, ILL.

APR 20 1944
ROUTING
The
Carter
April 14, 1944
VICTORY
BUY
UNITED
STATES
WAR
BONDS
AND
STAMPS
R
FILE

ADDRESS ONLY
THE DIRECTOR, NATIONAL PARK SERVICE

MEMORANDUM for Mr. Dunn, Region Four.

This refers to your memorandum of March 29 enclosing documents relating to water rights at Craters of the Moon National Monument and requesting to be advised whether the Act of August 30, 1890, applies to school sections.

So far as we are informed, the precise point raised by you has never been adjudicated, nor are we aware of any authoritative ruling thereon. However, the act specifies that a right-of-way shall be reserved in all patents for lands taken up after August 30, 1890, under any of the laws of the United States. In view of the general and all-inclusive language used, without exception or qualification, it is our view that all lands west of the one hundredth meridian for which patents are issued subsequent to the passage of the act are impressed with a right-of-way for the purposes specified in the act.

(SGD) C. C. Mullady

Acting Chief Counsel.

cc: Regional Director, Region Four (in duplicate).

creatures of mine
08-08-08

UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

APR 12 1944

ROUTING

File

FILE

April 10, 1944.

MEMORANDUM for the Director.

Reference is made to Mr. Wirth's memorandum of March 27 suggesting that special use permits and other evidence of right of way for pipe lines should be made part of the water right deeds; and to Graters of the Moon Deed 5 covering the water right for that monument, which was sent to you on March 29.

The deed included a copy of the right of way deed from Edward B. Arthur, being the bottom page of the deed. We enclose a print of Drawing 791, later renumbered MM-CRA-4791, which accompanied that deed, and which should be inserted under the typed copy of the deed.

Presumably you have the original right of way instrument now filed as some other deed. The question is whether, in compliance with Mr. Wirth's memorandum, you wish to eliminate the separate deed, and substitute the original for the copy in Deed 5.

We also enclose the signed copy of the right of way deed for the portion of the pipe line on what was formerly the land of Kilpatrick Bros. This copy was in the files of the monument, and again you are supposed to have the original in your files. This deed should be inserted in Deed 5 just under or over the Arthur right of way.

In this case, the whole Kilpatrick tract has been purchased since 1930. The right of way now has only historical value. It is more important as access in water right proof than as a title to land. However, it was an encumbrance on the Kilpatrick tract which should have reduced the sale price of that tract.

Referring to my memorandum of March 29 regarding Deed 5, there is also a portion of the pipe line on State school land. Apparently no right of way instrument exists and we wish the advice of the Chief Counsel as to whether one should be procured, or whether the Act of August 30, 1890 (26 Stat. 391) can be made to apply to State school land if still held by the State at this time.

It is evident that the Form L-1 for Deed 5 will need considerable amendment to tie in other deeds and tracts, when all information is assembled. It

is suggested, however, that each who possesses a copy merely make his own notations at this time, and that we prepare a new sheet in the fall, after I reach Chicago and after all tract and deed numbers are assigned.

(cc'd) A. van V. Dunn

A. van V. Dunn,
Hydraulic Engineer.

Enclosure 412.

cc: Region Four, with enclosures.
Custodian, Craters of the Moon,
with enclosures.

Enclosed is deed by Dunn
4/10/1944

*Craters of the Moon
660-85*

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
CRATERS OF THE MOON NATIONAL MONUMENT
ARCO, IDAHO

OFFICE OF THE CUSTODIAN

April 4, 1944.

MEMORANDUM for the Regional Director:
Region Four.

Transmitted herewith is a copy of the Right of way Deed for the
water system for the Kilpatric property as requested by your Memorandum
of March 31.

Aug. 6 to City.
Custodian.

APR 6 1944	
RECEIVED	FILE
<i>Water Deed 4/8</i>	
<i>(initials)</i>	
FILE <i>(initials)</i>	

see deed 5
(initials)

*Craters of
Moon
660-05*

Region Four.

EDW

UNITED STATES
DEPARTMENT OF THE INTERIOR

*All water Rights
drawn*

NATIONAL PARK SERVICE
WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

Craters of the Moon

March 29, 1944.

MEMORANDUM for the Director.

The enclosed Craters of the Moon Deed 5, Water Right Application No. 23670, Permit and License No. 16711, except for the final license is made up almost entirely of certified copies. The originals could not be found in the Monument, your office, Region Four, or at Yellowstone National Park where the Chief Engineer's Office was located about the time the application was first filed.

The Custodian and Regional Engineer should be particularly interested in the comparison of the application and final proof which show that only four of six potential springs have been developed. It may be that springs 5 and 6 did not prove to have sufficient water to justify development, but the information indicates that a certain amount of additional water is available. If it is ever decided to develop springs 5 and 6 hereafter, it will be necessary to file a new application and perfect an independent right for them, now that the License No. 16711 does not include them.

The first instrument in the deed is a pipe line right of way. Apparently this right of way was not needed if we evoke the act of August 30, 1890, reserving rights of way on land patented thereafter. However, the map also shows that the pipe line traverses the south half of Section 36 which is State school land. For general, as well as this specific application, we should like to know whether the act of August 30, 1890, would apply to school sections or whether a permit should always be requested.

CCOD J A VAN V. DUNN

A. van V. Dunn,
Hydraulic Engineer.

Enclosure 402.

cc: Region Four, with 1 copy of deed. ✓
Custodian, Craters of the Moon,
with 1 copy of deed.

*checked
Mmm
660-04*

Region Four.

UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

MAR 27 1944	
ROUTING	FILE
<i>Heu</i>	
<i>Craters of the Moon</i>	

March 27, 1944.

MEMORANDUM for the Custodian,
Craters of the Moon National Monument.

Reference is made to your memorandum of March 24 with regard to the water right for Craters of the Moon National Monument and certain rights of way.

The right of way for the pipe line across the Kilpatrick property is not absolutely essential for the right of way deed, but if it describes the right of way by actual traverse in the same manner that the one for the Arthur property did it would seem to be desirable to have copies of it inserted in the deed.

It is probable that we will send you your copy of the water right deed deed before we can obtain this right of way. In this case the simplest procedure would be for you to make four copies, insert one at the back of your deed and send the other three here for distribution.

A. van V. Dunn,
Hydraulic Engineer.

cc: Region Four.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
CRATERS OF THE MOON NATIONAL MONUMENT
ARCO, IDAHO

OFFICE OF THE CUSTODIAN

March 24, 1944.

MEMORANDUM for the Regional Director:
Region Four.

Returned herewith is the copy of the right of way deed for the pipe line through the Edw. B. Arthur property. I am unable to furnish the information requested as I do not have a copy of the deed.

The records of the Arthur property show on the Butte County records of 1917 and 1918. Evidently that is when the land was patented, and the right of way probably was not needed as explained in the fourth paragraph of your memorandum.

Four springs were all that have been developed. All the springs and the collection system are in section 21. None are in section 16, referring to the third paragraph of your memorandum. The last three or four hundred feet of the pipe line extends in to section 36, to the equipment shed. No permit or right of way was issued by the State to cover any portion of the water system that is on state land.

I have a right of way deed covering the pipeline through the Kilpatrick property. Please advise if you want it.

L. C. McCarty
Custodian.

MAR 27 1944	
ROUTING	Case
<i>2</i>	<i>3/27</i>
<i>Handley</i>	<i>3/28</i>
<i>Waters</i>	<i>3/28</i>
<i>FILE Handley 3/28</i>	

Craters of Moon

UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

Region Four
MAR 18 1944
ROUTING
H.C. 3/20
Sutcliffe 3/20
FILE

March 18, 1944.

MEMORANDUM for the Custodian,
Craters of the Moon National Monument.

We enclose a copy of a right of way deed covering part of the route of the pipe line at Craters of the Moon National Monument. Assuming that you have a more complete copy, will you please fill in the county on the fifth line, date and name of witnesses at the bottom, and return to us.

Also please advise the date when the Arthur tract was purchased. Also, although the record can be obtained from the abstract in Chicago, we wonder if you know whether this tract was patented before or after August 30, 1890.

We note on our map that the pipe line also traverses the State School Land in Section 36, and three springs and part of the collecting system were to be on the State owned portion of Section 16, both in T. 2 N., R. 24 E. Apparently only four of the six springs were developed at the time the license under Water Right Permit 16711 was issued. Will you please advise if any permit or right of way was issued by the State to cover the portion of the system on State land. (Apparently the springs have been fenced.) If there were such permits or rights of way, please send us four copies or lend your copy for duplication.

Any land patent issued since August 30, 1890, west of the 100th meridian reserves the right of the United States to lay water conduits for federal purposes. Hence, it may be that the Arthur right of way was not needed, and that none is needed for the State land. We are merely checking questionable cases for reference to the Chief Counsel while assembling the water right deeds.

As previously stated, the Commissioner of Reclamation advises that you only proved diversion from four of the six springs covered in the original application. Will you please advise if either of the other two has been diverted to the system since the license was issued in May 1939.

We are now ordering copies of five more instruments from the Commissioner of Reclamation to complete the Deed No. 5 covering that water right. When your copy is returned you will be in a much better position to define your rights and where we may need to amend them to cover future water system improvements.

Enclosure 393.

cc: Region Four.

(SGD:) A. VAN V. DUNN

A. van V. Dunn,
Hydraulic Engineer.

Other Supporting Information

Craters of the Moon National Monument
Arco, Idaho 83213

L 54

September 23, 1963

Memorandum

To: Regional Director, Western Region
From: Superintendent, Craters of the Moon
Subject: Supplemental Water Right Application No. 36950,
Permit No. 28964, Headquarters Water System

Permit No. 28964, approved by the State Reclamation Engineer, September 1, 1960, provides that one-fifth of the work specified therein must be completed on or before March 1, 1963, and the whole of said work be completed on or before September 1, 1965.

During the summer of 1962 one-fifth or more of this project was completed as stated in a memorandum to your office dated November 15, 1962, by Superintendent Stitt.

This memorandum is to advise you that the remaining work has been completed. The diversion dam located at point "C" was constructed and a 2-inch pipeline was laid from the dam to the old 2-inch cast iron line, a distance of 2,058 feet.

The total direct cost for construction amounted to \$1,298.64.

We would appreciate your assistance in preparing the necessary forms for submission to the State Reclamation Engineer as was offered in Mr. Wosky's memorandum, dated October 21, 1960.

Photographs attached.

Daniel E. Davis

DIVERSION DAM
Point "C"
Under Construction



DIVERSION DAM
Point "C"



Attachment 5.

CRATERS OF THE MOON NATIONAL MONUMENT

Estimate of Water Needs for Supplemental
Appropriation Estimated for the year, 1966

L. S. Spaulding, Hydraulic Engineer

June 29, 1960

Irrigation (per marked print of NMGR-20084 prepared by Superintendent
Henderson and Spaulding on May 16, 1960.)

1. Visitor Center - Service Area - Residential Area.		
Areas in grass, shrubs and trees, 100% coverage.		
6.7 acres @ .02		.134 cfs
2. Campground (scattered trees)		
10 acres @ 10% coverage 1.0 acre @ .02		.020 cfs
Total irrigation		.154 cfs

Domestic (population and visitation estimated by Superintendent
Henderson)

1. Permanent residents - 20 @ 100 gpd	2,000 gpd	
2. Seasonal residents - 13 @ 100 gpd	1,300 gpd	
3. Campers (peak day) - 100 @ 35 gpd	3,500 gpd	
4. Day use (peak day) - 1200 @ 5 gpd	6,000 gpd	
Total ^{domestic} irrigation	12,800 gpd	= .020
Total 1966 needs		.174 cfs
Less present water right, License 16711		.055
Supplemental water right claim		.119 cfs

The supplemental claim has been increased to 0.20 cfs on the Application prepared June 29, 1960 to allow for increases over the above estimates, to allow for other uses incidental to operation and maintenance and to permit greater flexibility in the quantities eventually taken from each source. In regard to the latter it is noted that the commingling of Diversion (C) with the other diversions may be impractical because of head limitations and that improvement of spring collection works and more efficient use of water (e.g., night irrigation) may make Diversion (B) unnecessary. In any eventuality our claim for water from Little Cottonwood Springs, Diversion (A), shown as 0.13 cfs on the Application, when added to existing rights under License 16711 (.055 cfs) should not be less than the total discharge of the four springs (85 gpm or 0.19 cfs as measured on May 17, 1960).

180 New Montgomery
San Francisco 3, California

Diederich

Ketcham

154
Docket 1

December 4, 1962

Memorandum

To: Director

From: Assistant Regional Director - Western Region

Subject: Supplemental Water Right Application No. 36950, Permit No. 28964, Headquarters Water System, Craters of the Moon NM

Enclosed is the following data for inclusion in Docket No. 1 Headquarters Water System, Craters of the Moon National Monument.

1. Memorandum of November 15, 1962 from Superintendent to Regional Director transmitting data on construction of diversion at point "B"
2. Letter of November 8, 1962 from Superintendent to Idaho State Reclamation Engineer advising the State of completed work at diversion "B"
3. Letter of November 9, 1962 from State Reclamation Engineer Carter to Superintendent Stitt acknowledging the above construction project.
4. Four photographs of the diversion during and after construction.
5. Plan of diversion work by Engineer Otake, Western Office of Design and Construction.

This construction complies with the requirement in the approval of Permit No. 28964, dated September 1, 1960, that one-fifth of the specified construction be completed on or before March 1, 1963.

Leo J. Diederich

Enclosures 5

cc;

Superintendent, Craters of the Moon w/s of enclosures
Chief, WDC (2) w/s of enclosures

RWKetcham:lsr

Craters of the Moon National Monument
Arco, Idaho

154

November 15, 1962

Memorandum

To: Regional Director, Western Region
From: Superintendent, Craters of the Moon

Subject: Supplemental Water Right Application No. 36950, Permit No. 28964, Headquarters Water System, Craters of the Moon NM

Permit No. 28964, approved by the State Reclamation Engineer, September 1, 1960, provides that one-fifth of the work specified therein must be completed on or before March 1, 1963.

Normal spring temperatures, snow and road conditions would preclude the execution of work in the vicinity of these water diversion locations next spring. Work was therefore initiated September 17 to construct the necessary water diversion structures as provided in the permit for diversion at point "B". All structures were completed, and water was diverted through the new facilities on September 26. The diversion structure was constructed in accordance with a plan prepared by Civil Engineer Stake, WODC. (Copy enclosed in duplicate.)

Total direct costs for construction amount to \$265.57. The water diverted by this structure is piped through 125 feet of cast iron line from the diversion structure to the previously existing two-inch iron line located between Spring 1 and 4, which terminates in the old five-thousand-gallon collection tank. The permit provides for the diversion of .05 CFS at point "B".

The State Reclamation Engineer was advised of the completion of one-fifth of the work as required by the permit. No further reporting is necessary until all work is completed prior to September 1, 1963.

Merle E. Stitt

Enclosures:

Copy (2) Superintendent's letter to State Reclamation Engineer
Copy (2) State Reclamation Engineer's letter to Superintendent
Photographs (2 ea.) of three photographs of Structure at Point "B"
Copy (2) Structure Plan - Point "B"

Craters of the Moon National Monument
Arco, Idaho

154

November 8, 1962

Mr. George Carter
State Reclamation Engineer
Boise, Idaho

Dear Mr. Carter:

Water Permit No. 28964, issued to the United States of America and approved September 1, 1960, provides that one-fifth of the work specified in the application must be completed prior to March 1, 1963.

This is to advise you that all work has been completed at diversion Point "B", and that beneficial use is being made of the water appropriated at Point "B" in accordance with this permit. The work now completed exceeds one-fifth of the total work as outlined on the subject permit.

Will you please advise us of what reporting action should be taken prior to March 1, 1963, to assure compliance with permit requirements.

Your assistance in this matter is appreciated.

Sincerely yours,

Merle E. Stitt
Superintendent

ROBERT E. SMITH
Governor



STATE OF IDAHO
DEPARTMENT OF RECLAMATION
107 STATE HOUSE
BOISE

November 9, 1962

GEO. N. CARTER
State Reclamation Engineer



RE: Permit No. 28964
United States of America

Merle E. Stitt, Superintendent
National Park Service
Craters of the Moon National Monument
Arco, Idaho

Dear Mr. Stitt:

Thank you for your letter in regard to progress on your proposed water system.

There is no further report necessary until you prove completion of works on or before September 1, 1965. The form will be sent to you on request, or the routine of the office work requires that the form will be sent to you about two months prior to the date the proof is due.

You may request forms to make proof of completion of works and beneficial use at the same time, if the water has been used.

Craters of the Moon National Monument	
Superintendent	☒
Sup. Park Rangers	☒
Adm. Asst.	☐
Maintenance Men	☐
Wildlife	☐

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer
By

Ralph W. Thomas

Ralph W. Thomas
Deputy State Reclamation Engineer

RWT:mr





Water Diversion Point "B" Looking Upstream



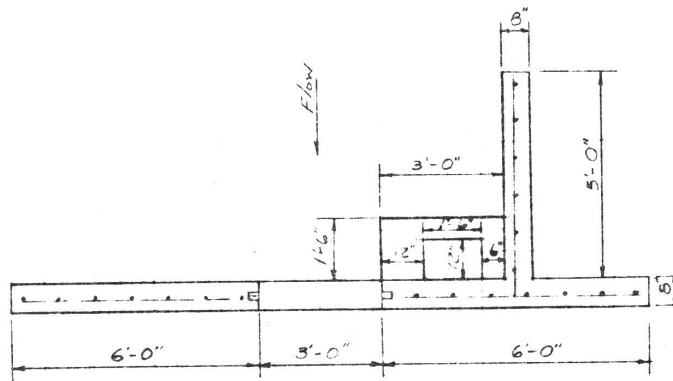
Water Diversion Point "B" Looking Downstream



Forms set preparatory to pouring concrete for water diversion
Point "B." 9/18/62



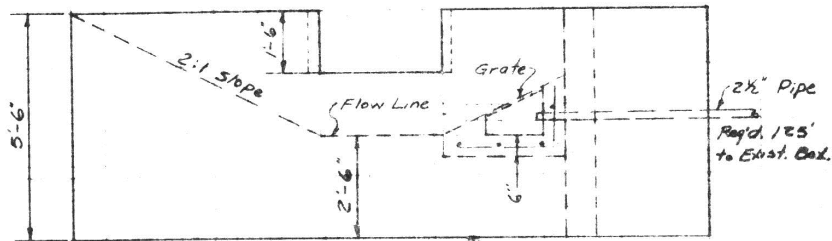
Water diversion structure Point "B" following stripping of
forms. 9/24/62



PLAN

Scale 1" = 3/8"

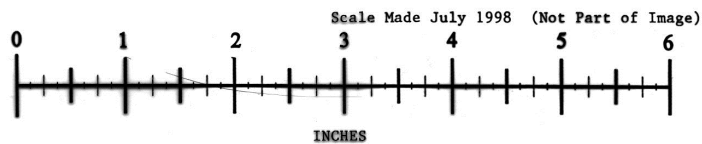
Note: Place re-bars
10" C.C. Except
for Collection Box,
Place re-bars 12"
C.C.



ELEVATION

DIVERSION STRUCTURE "B"

Ofere
wade



Removed from General File
under Disposal Program 4-26-60
the re destroyed when no
longer needed. J. Spaulding

10-28
(May 1929)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
~~CENTER OF THE NATIONAL PARK SERVICE~~

FILE NO.

Crater Mason
207

FINAL CONSTRUCTION REPORT
ON
FENCE TO ENCLOSE WATER
SUPPLY SOURCES OF 752-05-224
By
Guy E. McCarty,
Custodian

Arco

752-05-224

IMPORTANT

This file constitutes a part of the official records of the National Park Service and should not be separated or papers withdrawn without express authority of the official in charge.

All Files should be returned promptly to the File Room. Officials and employees will be held responsible for failure to observe these rules, which are necessary to protect the integrity of the official records.

ARNO B. CAMMERER,
Director.

CRATERS OF THE MOON NATIONAL MONUMENT

FINAL CONSTRUCTION REPORT

ON

FENCE TO INCLOSE WATER SUPPLY SOURCE

By

Guy E. McCarty,
Custodian

Work was started on November 14, 1938. There was about ten inches of snow on the ground in the vicinity of the four springs to be fenced. The springs are at an altitude of 6800 to 7300 feet. Materials were trucked to within one mile and then transported by sleigh to the collection box, and from there carried on up to the springs.

The trail from the end of the road was swamped out and widened in spots to allow the sleigh to get by. This was all side hill work and the ground was frozen.

The brush was swamped out along the fence lines. Each spring was fenced individually with T iron-posts and No. 14-2 strand galvanized smooth wire.

The posts were driven and the wire put around the fence and left on the ground until spring. Work was forced to stop December 28, 1938 because of severe storms and high wind.

Work was resumed on June 1, 1939, and the project finished June 12.

~~The figures indicate a balance in the account of \$2,786.01.~~



Work starting at spring No. 1. Spring No. 1 marked on the opposite hill. This is the only spring not having trees. No. 2 and 3 springs are around the steep hil to the right.



From spring No. 1. No. 2 and 3 marked.



Spring No. 3. This picture taken at the finish does not show the fence to advantage, due to the brush. But does show the results of re-seeding since this area was added to the monument in 1930, at which time it was over grazed.

10-174
(May 1929)

CRATERS OF THE MOON NATIONAL MONUMENT PARK

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

PERIOD ENDED JUNE 12, 1939

CONSTRUCTION UNIT COST REPORT

PROJECT: FENCE TO ENCLOSE WATER SUPPLY SOURCE

ACCOUNT NO. OP-752-05-224

DAY LABOR — CONTRACT

CONTRACT NO. DATE OF APPROVAL Sept. 29, 1938 CONTRACT COMPLETION DATE June 12, 1939

SYMBOL	CONSTRUCTION COST UNITS		WORK DONE THIS PERIOD Sta. to Sta.	PERCENT COMPLETE	ANALYSIS OF COSTS							QUANTITIES			UNIT COSTS	TOTAL ESTIMATED		
	Name	Type			Labor	Mat.&Sup.	Indirect Charges	Contract Payments	Prorated Overhead	Totals this Period	Totals Prev. Report	Total Costs To Date	Units	This Month		Totals to Date	Quantity	Cost
	Fence	wire		100%	827.30	166.69							993.99	Post		1250	0.798	
Construction Cost Total					827.30	166.69							993.99					
					Construction Engineering (Field Headquarters)													
					Survey (Field Headquarters)													
					Total Cost of Project to Date													
					Less Retained Percentage (Contract)													
					Expenditures to Date													
					Estimated Cost Engineering (Estimate)													
					Estimated Total Cost													

SUMMARY OF EXPENDITURES TO DATE			
ELEMENTS OF COST	This Month	Previous	Totals to Date
Labor			827.30
Materials & Supplies			166.69
Indirect Charges			
Contract Payments			
Prorated Overhead			
Total Construction Costs			993.99
Construction Engineering			169.63
Surveys			
Cost of Project to Date			1163.62
Less Retained Percentage			706.36
Expenditures to Date			457.26
Total Allotment			4200.00
Balance			

REMARKS: Transfers to

Mesa Verde Construction Acct.	\$2700.00
Olympic National Park " "	86.01
Lava Beds from construction engr.	290.57
Total transferred	\$3076.58

RESIDENT ENGINEER

Wm. H. ...

SUPERINTENDENT

CUSCUDIAN

* Contract payments will include the "RETAINED PERCENTAGE"

10-23a

10-32
(May, 1920)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
CRATERS OF THE MOON NATIONAL PARK MONUMENT

Burton C. Lacombe, Custodian

Removed from General File
under Disposal Program 4-26-60
no longer needed
no longer needed

FILE NO.

FINAL CONSTRUCTION REPORT

On

WATER SUPPLY PIPE LINE

ACCOUNT NO. 481

SEASON 1931

By

Thomas C. Parker
Associate Engineer

ENGINEERING
FILE COPY

IMPORTANT

This file constitutes a part of the official records of the National Park Service and should not be separated or papers withdrawn without express authority of the official in charge. All Files should be returned promptly to the File Room. Officials and employees will be held responsible for failure to observe these rules, which are necessary to protect the integrity of the official records.

HORACE M. ALBRIGHT,
Director.

U. S. GOVERNMENT PRINTING OFFICE: 1920 6-7410

F. A. Kittredge
Chief Engineer
Field Headquarters
San Francisco, Calif.
April 19, 1932

FILE COPY

February 9, 1933.

The Director,
National Park Service,
Washington, D. C.

Dear Mr. Director:

There is transmitted herewith Final Construction Report on Water Supply Pipe Line, Account No. 481, Craters of the Moon National Monument.

There has been some delay in completing the cost form accompanying this report which prevented its being forwarded sooner.

It will be noted on the cost form that the account has been entirely expended, and it is suggested that it be closed out if not already closed.

Very truly yours,

AEB:SH

A. W. Burney,
Assistant Chief Engineer.

CC: Burton C. Lacombe, Custodian.

CRATERS OF THE MOON NATIONAL MONUMENT

FOURTH SEASON'S CONSTRUCTION REPORT

ON
Water Supply Pipe Line

Account No. 481

Season 1931

by
Thomas C. Parker
Associate Engineer

FILE COPY

Field Headquarters
San Francisco, Calif.
April 19, 1932

History

The Craters of the Moon National Monument has not had a water system of any kind until the present one was constructed this season (1931).

For several years a spring of cold water one mile south of the present administration and lodge area furnished plenty of water for all purposes. This spring failed in 1926 and water had to be hauled in barrels from the Martin Post Office, five miles away.

A group of springs approximately five miles from the headquarters area were located in 1927 and some study was made by Park Engineers to determine the flow of water and a feasible route for a pipe line.

In August, 1930 the writer made a complete survey of the springs and pipe line. The design was made during the winter of 1930 - 1931 by Engineers at Field Headquarters.

The boundary of the monument was extended to include the land where the springs are located, and an exchange of land was made with Fitzpatrick Brothers to remove the objections of having the pipe line cross privately owned lands.

Construction

The writer arrived at the Craters of the Moon on April 3, 1931 and organized a crew of men and commenced construction of the pipe line.

The area near headquarters is covered with volcanic cinders and excavation could be started here much earlier than in the gulch where the springs are located.

The first mile is through this cinder formation and excavation progressed very rapidly. The remainder, however, is through a rough type

ADDRESS ONLY
FIELD HEADQUARTERS
NATIONAL PARK SERVICE
409 UNDERWOOD BUILDING
SAN FRANCISCO, CALIFORNIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
FIELD HEADQUARTERS
SAN FRANCISCO, CALIF.

of country and excavation and other items of construction cost were much greater than on the first mile.

A road was constructed from near the headquarters area to an old mine site one mile below the springs. This was necessary to get material and equipment on the job. The last mile is too steep for trucks or wagons, and pack horses were employed to transport pipe and equipment to the beginning of the pipe line.

The main supply line is of 2 inch iron pipe, - Universal bolt joints. This portion is approximately 24,000 feet in length and connects a 5,000 gallon storage tank with a collection box where the water is collected from four separate springs.

The distribution system from the storage tank to and including the camp grounds and ledge area is approximately 3,000 feet in length and is of 2 inch galvanized iron pipe. The lines from the collection box to each of the four springs are of 1 inch galvanized iron pipe and are about 1,000 feet each in length, making a total of 4,000 feet of 1 inch line.

The springs were cleaned out and filled with loose rock and covered with concrete so that no surface water can enter them.

Construction work was begun April 5 and the project was completed July 28, 1931.

*Profile in basement from possibilities
investigated after C. Tomlinson's visit to area in July 1943.
Diesel only assumed.
Several discrepancies exist between this report and
data shown on profile.*

RDW 8/2/43



No. MS1P2
Camp Ground and Lodge - Note hydrants.



No. MS1P19
Distribution line.



No. M31P10
Heavy work in solid lava rock.



No. M31P20
Main supply line. Note solid lava rock formation.



No. M31P12
Collection box. Note lines to springs.



No. M31P7
Main supply line. Showing method of crossing creek.



No. M31P6
Reconstructed road, - near pipe line.

INSTRUCTIONS FOR PREPARING CONSTRUCTION UNIT COST REPORT (FORM 10-174)

This form will be prepared by the engineer or other person in charge of the project for each construction project.

The unit cost accounts will be entered on the form in the same order as listed in paragraph 4.

The following is an explanation of the preparation of the form:

- (a) In the column headed "Symbol" enter the symbols of the unit cost accounts.
- (b) In the column headed "Construction Cost Units" enter the name of the accounts.
- (c) In the column headed "Type" enter the types of work involved, such as character of clearing (heavy, medium, light), excavation (common, solid rock, etc.).
- (d) In the column headed "Work Done" enter the inclusive stations or sections.
- (e) In the column headed "Per Cent Complete" enter the approximate percentage computed upon the basis of the total cost to date and the total estimated cost.
- (f) In the "Cost" columns headed "Labor," "Material and Supplies," "Indirect Charges," and "Pro-rated Overhead 2" post these elements of cost as shown on Form 10-202. (See par. 7, this section.)
- (g) In the column headed "Pro-rated Overhead" enter in reverse on the line for Account Z the totals of the elements of costs for Account Z. Then distribute this amount in the same column to the various unit cost accounts on the basis of the value of work performed.
- (h) These "Cost" columns are then cross added to get the "Total this Period." The "Totals, Previous Report," will be posted from the "Totals to Date" column of the previous month.
- (i) In case contracts are let for a part of the project, payments for such contracts as shown on Form 10-202 plus the retent will be posted in the column headed "Contract Payments" on the lines for the appropriate unit cost accounts. These three columns will be cross added and posted in "Total Costs to Date." All cost columns will be down added and posted on the last line. This line will then be cross added as a check upon the accuracy of the computations.
- (j) In the "Quantities" column enter in column headed "Units" the units of measure, such as cubic yards, etc.
- (k) In the column headed "This Month" enter number of such units for the month, and in column headed "Totals to Date" enter the total units to date.
- (l) In the column headed "Unit Costs" enter the average price per unit, which will be determined by dividing the quantities shown in "Totals to Date" into the "Total Costs to Date."
- (m) In the last two columns enter the estimated total quantities and the estimated total cost of doing the work as computed prior to starting work upon the project. The total amounts in the columns headed "Cost" represents the amount for which the allotment was set up when initiating the project. The amounts for "Construction Engineering" and "Surveys" will be added by the Field Headquarters Office.
- (n) Under "Retained Percentage (contract)" show the total retent to date.
- (o) Under "Remarks" give a short narrative report of the nature of the work performed.
- (p) The "Summary of Expenditures to Date" will be used for a recapitulation of the report.

U. S. GOVERNMENT PRINTING OFFICE 1933 8-7085

Docket Information

Number of Documents in Docket 152

Documents Dated from 5/2/1924 to 7/11/1992

Docket Compiled: 6/15/2016