



WATER-RIGHT DOCKET

Craters of the Moon National Monument

Docket No: 1

HEADQUARTERS WATER SYSTEM.

State Water Rights Documentation

03-22-1944: i, james spofford, do hereby certify that the attached and foregoing is a full, true and correct copy of the notice ; marc

C O P Y

STATE OF IDAHO)
 : ss.
COUNTY OF ADA)

I, James Spofford, State Reclamation Engineer of the State of Idaho, do hereby certify that the attached and foregoing is a full, true and correct copy of the Notice of Proof of Application of Water to Beneficial Use, under Permit to appropriate the Public Waters of the State of Idaho, No. 16711, as same appears on file and of record in the State Department of Reclamation, at Boise, Idaho.

In Witness Whereof, I have hereunto set my hand and affixed the official seal of the State Department of Reclamation, at Boise, Idaho, this 22nd day of March, A. D. 1944.

JAMES SPOFFORD

/s/ James Spofford

State Reclamation Engineer

NOTICE FOR PUBLICATION
NOTICE OF PROOF APPLICATION OF WATER
TO BENEFICIAL USE

Notice is hereby given that at 10:00 A. M. on the 27th day of July, 1938, at Arco, County of Butte, State of Idaho, before Robert A. Miller, Notary Public, proof will be submitted of the application to beneficial use of 1 cubic foot per second of the waters of some unnamed springs at the head of Little Cottonwood Creek, in accordance with the terms and conditions of Permit No. 16711, heretofore issued by the Commissioner of Reclamation of the State of Idaho.

The name and postoffice address of the person or corporation holding said permit are Department of Interior, U. S. National Park Service, Craters of the Moon National Monument, Arco, Idaho.

The use to which said water has been applied is Camp administration purposes.

The amount applied to beneficial use is 1 second foot.

The place where said water is used (if for irrigation, give full and accurate description of the lands irrigated) Craters of the Moon National Monument.

The name of the canal or ditch or other works by which said water is conducted to such place of use is Water Supply Pipe Line.

The right to take water from such works is based upon Permit No. 16711.

The source of supply from which such water is diverted is unnamed springs at the head of Little Cottonwood Creek.

The date of priority which said user is prepared to establish is July 21, 1927.

R. W. Faris
Commissioner of Reclamation

C O P Y

STATE OF IDAHO)
: ss.
COUNTY OF ADA)

I, James Spofford, State Reclamation Engineer of the State of Idaho, do hereby certify that the attached and foregoing is a full, true and correct copy of Affidavit of Holder, Proof of Completion of Works, made in connection with Permit to Appropriate the Public Waters of the State of Idaho, No. 16711, as same appears on file and of record in the State Department of Reclamation, at Boise, Idaho.

In Witness Whereof, I have hereunto set my hand and affixed the official seal of the State Department of Reclamation, at Boise, Idaho, this 22nd day of March, A. D. 1944.

/s/ James Spofford

JAMES SPOFFORD

State Reclamation Engineer

(SEAL)

Form 6

Permit No.

RECEIVED
June 27, 1932
Department of Reclamation

STATE OF IDAHO
Department of Reclamation

Proof of Completion of Works

AFFIDAVIT OF HOLDER

California

STATE OF IDAHO

} ss.

County of San Francisco

Department of the Interior, National Park Service,
By A. W. Burney, Act'g. Chief Engineer

, being first duly sworn, upon his oath deposes and says:

First: That he is the holder and owner of Permit to Appropriation the Public Waters of the State of Idaho,
No. 16711, and that his postoffice address is 409 Underwood Bldg., San Francisco
State of California

Second: That the name of the stream from which said water is to be directed is
springs at head of Little Cottonwood Creek

Third: That the point of diversion of said water is the springs at head of
Little Cottonwood Creek. Secs. 16 and 21, T 2 N R 2 4 E. Boise Meridian

Fourth: That under the terms and conditions of said permit, construction thereunder was required to
be completed by July 7, 1932

Fifth: That the use for which said water is intended is Domestic

Sixth: That on the date above mentioned, the works constructed under said permit were (or were not)
fully completed and consisted of the following:

I. ~~541 feet of box 24000' of 2" Universal joint C.I.P.-5000 gal. steel storage tank.~~
(Reservoir, dam, ditch, flume, pipe or otherwise.)
Cost \$18,750.00

II. Dimensions of work:

(a) Height of dam feet, length of dam at top feet, length of dam at
bottom feet. Material used in construction.

(State whether wood, earth, stone or concrete.)

(b) Capacity of reservoir acre feet.

(c) Size of headgate: Width feet, height feet.

(d) Conduit width at bottom feet, width at water line
(State whether ditch, flume or pipe.)

feet, depth of water feet; diameter of pipe 2" inches, average grade
per mile is 154 feet. Length of conduit is 4.54 miles.

Seventh: That said works are capable of conducting to the place of intended use 055
second feet of water. = 22 6-P.M.

Eighth: That water appropriated under said permit is available for acres of land
described as follows:

Ninth: Remarks: That this water is intended for domestic purposes and for use by
the public at the Craters of the Moon campground

/s/ A. W. BURNLEY

(Sign here)

Subscribed and sworn to before me this 24th day of June, 1932

/s/ Minerva N. Swain

Notary Public.

My commission expires Dec. 31, 1934

(S.E.L)

Notary Public in and for the County of San
Francisco (The rest is indistinct)

No. 1: SW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 21, T. 2 N., R. 24 E.B.M.; No. 2: SE $\frac{1}{4}$ NW $\frac{1}{4}$ Section
21, T. 2 N., R. 24 E.B.M.; No. 3: NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 21, T. 2 N., R. 24 E.B.M.;
No. 4: SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 16, T. 2 N., R. 24 E.B.M.; No. 5: SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section
16, T. 2 N., R. 24 E.B.M.; No. 6: NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 22, T. 2 N., R. 24 E.B.M.

C O P Y

STATE OF IDAHO)
 ; ss.
COUNTY OF ADA)

I, James Spofford, State Reclamation Engineer of the State
of Idaho, do hereby certify that the attached are full, true and correct
copies of the depositions of the holder and two witnesses, given in proof
of beneficial use under Permit to appropriate the Public Waters of the State
of Idaho, No. 16711, as same appear on file and of record in the State
Department of Reclamation at Boise, Idaho.

In Witness Whereof, I have hereunto set my hand and affixed the
official seal of the State Department of Reclamation, at Boise, Idaho, this
22nd day of March, A. D. 1944.

/s/ James Spofford

(SEAL)

JAMES SPOFFORD

State Reclamation Engineer

Form 16.

STATE OF IDAHO

DEPARTMENT OF RECLAMATION

BOISE, IDAHO

Permit No. 16711

Proof of Application of Water to Beneficial Use

Deposition of Holder

age

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

Ans. Guy E. McCarty, age 42, custodian Craters of the MoonNational Monument, post office 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.

Ans. In behalf of Department of the Interior, National Park Service

Ques. 3. State number and date of permit, and date of priority you propose to establish under the permit.

Ans. No. 16711, date July 7th, 1927. Proposes to establish April 19th,1932 as date of priority

Ques. 4. State source of water supply and give exact location of point of diversion.

Ans. Four unnamed springs on Little Cottonwood Creek, points of diversion:
No. 1: SW 1/4 Section 21, T. 2 N., R. 24 E., B.M. No. 4: SE 1/4 Section 16
2: SE 1/4 Section 21, " " 5: SE 1/4 Section 16
3: NW 1/4 Section 21, " " 6: NW 1/4 Section 22-2-24

Ques. 5. Describe your works of diversion, and state amount of water they are capable of conveying from point of diversion to place of use, and give name of canal or ditch or other works by which water is conducted to such place of use.

Ans. Water supply pipe line installed to springs and carries water
to point of use. Pipeline is capable of carrying one cubic foot
per second from point of diversion to place of use,

Ques. 6. State for what purpose water is used and describe place of use. (If for irrigation, name each subdivision in which used, and number of acres in each subdivision that have actually been irrigated with said water.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. Water used for domestic purposes in Craters of the Moon National
Monument

Ques. 7. If for other than for irrigation purposes; state how applied, amount of horse power generated, etc.

Ans. See answer to no. 6OK
R.H.R.

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

Ans. One cubic foot per second

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.

Ans. _____

Ques. 10. State when, how, in what amount and to what extent the water diverted under above mentioned permit has been used.

Ans. Since July 28th, 1931 pipe line was completed and water used for domestic purposes on National Monument

Ques. 11. State when, how, in what amount and to what extent waters other than those diverted under the above mentioned permit have been diverted and applied to beneficial use upon the lands herein described. Give full particulars regarding such other appropriations and rights claimed thereunder.

Ans. None other.

(Sign) /s/ GUY E. McCARTY

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 27th day of July, A. D. 1938.

/s/ Robert A. Miller

(SEAL)

Notary Public residing at Arco, Idaho

My commission expires July 16, 1940

Form 17

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

PERMIT NO. 16711

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.

Ans. Vern Markel, age 42, Arco, Idaho, occupation laborer, post office address Arco, Idaho.

Ques. 2. Are you acquainted with Cuy E. McCarty, Custodian, the holder of Permit No. 16711? How long have you known him and where does he reside?

Ans. Have known year and a half and he resides at Craters of the Moon National Monument, (Post Office Arco, Idaho)

Ques. 3. Have you read or heard read said Permit No. 16711, and are you familiar with its provisions and conditions?

Ans. Yes

Ques. 4. State source of water supply, place of diversion, and describe works for conveying water from point of diversion to place of use.

Ans. Four un-named springs on Little Cottonwood Creek. Place of diversion
No. 1: SE 1/4 Sec. 21 T. 2 N., R. 24 E.
2: SE 1/4 Sec. 21 " "
3: NE 1/4 Sec. 21 " "
4: SW 1/4 Sec. 16 " "
5: SE 1/4 Sec. 16 " "
6: NW 1/4 Sec. 22 " "

Pipe line constructed from above described springs to place of use in Craters of the Moon National Monument.

Ques. 5. How many second feet of water do you estimate said works will safely conduct to place of use, and how much water have you seen being so conveyed?

Ans. Estimate one cubic foot per second can be carried in pipe-line.
Have seen approximately this amount conveyed in pipe-line

Ques. 6. State for what purpose water is used and at what place. (If for irrigation, give each subdivision in which water has been used and number of acres irrigated in each subdivision.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. For domestic use at Craters of the Moon National Monument.

Ques. 7. If for power or other purposes than irrigation, state how water has been applied and to what extent.

Ans. Has been applied for domestic use

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.

Ans. _____

Ques. 9. Have you any interest in the works, water or lands above mentioned? If so, in what way and to what extent?

Ans. Have no interest

Ques. 10. State when, how, in what amount and to what extent you have witnessed the application to beneficial use of water diverted under said permit.

Ans. Since July 28th, 1931 when pipe-line was completed, I have witnessed the application to beneficial use of this water.

(Signed) /s/ VERN MARKEL

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 _____ day of 27th day of July, A. D. 1938

(SEAL)

/s/ Robert A. Miller

My commission expires July 16, 1940

Notary Public residing at Arco Notary Public.

Form 17

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

PERMIT NO. 16711

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.

Ans. J. W. Beck, age 59, res. Arco, Idaho occupation grain and coal
dealer; postoffice Arco, Idaho

Ques. 2. Are you acquainted with Guy E. McCarty, Custodian, the holder of Permit No. 16711? How long have you known him and where does he reside?

Ans. Have known him about year and a half. Mr. McCarty resides at the
Craters of the Moon National Monument near Arco, Idaho

Ques. 3. Have you read or heard read said Permit No. 16711, and are you familiar with its provisions and conditions?

Ans. Yes

Ques. 4. State source of water supply, place of diversion, and describe works for conveying water from point of diversion to place of use.

Ans. Four unnamed springs on Little Cottonwood Creek. Place of diversion
No. 1: SE 1/4, Section 21, T. 2 N., R. 24 E. S. 10.
2: SE 1/4, Section 21, " "
3: NE 1/4, Section 21, " "
4: SW 1/4, Section 16, " "
5: SE 1/4, Section 16, " "
6: NE 1/4, Section 22, " "

Ques. 5. How many second feet of water do you estimate said works will safely conduct to place of use, and how much water have you seen being so conveyed?

Ans. Estimate that pipe-line will safely conduct one cubic foot per second
the amount of water in the pipe-line of use in the Monument. Have seen approximately

Ques. 6. State for what purpose water is used and at what place. (If for irrigation, give each subdivision in which water has been used and number of acres irrigated in each subdivision.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. For domestic use at the Craters of the Moon National Monument.

Ques. 7. If for power or other purposes than irrigation, state how water has been applied and to what extent.

Ans. Full amount of water has been applied for domestic use

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.

Ans. _____

Ques. 9. Have you any interest in the works, water or lands above mentioned? If so, in what way and to what extent?

Ans. I have not interest in works, water or lands above mentioned.

Ques. 10. State when, how, in what amount and to what extent you have witnessed the application to beneficial use of water diverted under said permit.

Ans. Since July 28th, 1931 when the pipe line was completed, I have witnessed the application to beneficial use of this water.

(Signed) /s/ J. W. BECK

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 _____ day of 27th day of July, A. D. 1938

(SEAL)

/s/ Robert A. Miller

My commission expires July 16, 1940. Notary Public Residing at Arco, Idaho

Notary Public.

Reg IV
Craters of the Moon
Send 5
C O P Y

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
James Spofford, Commissioner

Harry Dewey
Deputy Commissioner

BOISE

C. A. Bettelfsen, Governor

May 10, 1939

Re: Permit No. 18711

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

Dear Sir:-

We are herewith enclosing License and Certificate of Water Right issued under the above numbered permit, confirming the right of the Department of the Interior United States National Parks Service to use 0.055 second feet of water from unnamed springs at the head of Little Cottonwood Creek, with a date of priority of July 21, 1927, for camp administration purposes in the Craters of the Moon National Monument.

The Department's Receipt No. 16988 for the \$5.00 fee paid in connection with final proof is also enclosed.

Very truly yours,

JAMES SPOFFORD
Commissioner of Reclamation

By /s/ Jeanne L. Anderson

Chief Clerk

JLA
Encs.

C O P Y

STATE OF IDAHO

License and Certificate of Water Right

Water License No. 16711 Priority July 21, 1927 Amount 0.055 second foot

THIS IS TO CERTIFY that DEPARTMENT OF THE INTERIOR UNITED STATES NATIONAL PARKS SERVICE of _____, made application for a permit to appropriate the public waters of the State of Idaho, dated July 1, 1927; that Permit No. 16711 was issued under said application; that Certificate of Completion of works, with a carrying capacity of 0.055 second feet, was issued thereunder on July 11, 1932, showing that said works were completed on the 24th day of June, 1932; and that on the 27th day of July, 1938,

DEPARTMENT OF THE INTERIOR UNITED STATES NATIONAL PARKS SERVICE
(Craters of the Moon National Monument)

of Arco, State of Idaho, made proof to the satisfaction of the Commissioner of Reclamation of Idaho, of a right to the use of the waters of unnamed springs at the head of Little Cottonwood Creek, tributaries of Little Cottonwood Creek for the purpose of camp administration purposes in the Craters of the Moon National Monument under Use Permit No. 16711 of the Commissioner 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 Commissioner of Reclamation of Idaho and entered of record in Volume 7 of Licenses, at page 3957, on the 9th day of May, 1939;

The right hereby confirmed dates from July 21, 1927;

The Points of Diversion are located in the SW $\frac{1}{4}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 21; SW $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 16, and the NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 22, Twp. 2 N., Range 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 0.055 cubic feet per second.

Description and location of use:

Twp.	Range	Section	Forty-Acre Tract	No. Acres Described in Permit	No. Acres Actually Irrigated
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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 Commissioner of Reclamation, affixed at Boise, Idaho, this 9th day of May, 1939.

(SEAL)

/s/ James Spofford
Commissioner of Reclamation.

STATE OF IDAHO
LICENSE AND CERTIFICATE OF
WATER RIGHT

Water license No. 16711.....

Department of the Interior
To..United States National Parks..
Service (Craters of the Moon
National Monument).....

Source of Supply..Unnamed springs.
..at the head of Little Cottonwood.

..Creek.....

.....Butte..... County

Amount 0.055..... Sec. Rest

Point of Diversion..In Sections...

21, 16 and 22, Twp. 2 N., Range...

24 E., B. W.....

Place of Use..Craters of the Moon...

..National Monument.....

Purpose..Camp administration.....

.....purposes.....

Date of Priority...July 21, 1927...

Recorded ...May 9, 1939.....1

in Book ..7.. of ..licenses.....

Page ...3957.....

C O P Y

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
James Spefford, Commissioner

Harry Dewey
Deputy Commissioner

BOISE

C. A. Bettelfsen, Governor

March 28, 1939

Re: Permit No. 17611

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

Dear Sir:-

A short time ago we received our field engineer's report on examination for beneficial use under the above numbered permit.

This report shows that you are using four unnamed springs at the head of Little Cottonwood Creek, for camp administration purposes.

Therefore, upon receipt of the statutory fee of \$5.00 a license will be issued.

Very truly yours,

JAMES SPOFFORD
Commissioner of Reclamation

By /s/ Jeanne L. Anderson
Chief Clerk.

JLA

Form 23

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

REPORT OF ENGINEER

Permit No. 16711

This proof is for Beneficial Use

In Water District No.

1. Name of applicant: Dept. of Interior, U. S. National Park Service, Craters of the Moon National Monument.
2. Source of water supply: 4 Unnamed springs at head of Little Cottonwood Creek
3. Location of point of diversion: Is in the 2. SE 1/4, Sec. 21, T. 2 N., R. 24 E., County of Butte.
4. SW 1/4, Sec. 21, T. 2 N., R. 24 E., County of Butte.
5. SE 1/4, Sec. 16, T. 2 N., R. 24 E., County of Butte.
6. NW 1/4, Sec. 22, T. 2 N., R. 24 E., County of Butte.

4. Describe works as they exist, giving dimensions and capacities of same: Springs Nos. 1-2-3-4 are stoned up, covered and connected by 2" iron pipe lines to a reinforced concrete reservoir 5 ft square in plan & 4 ft deep. A pipe leads thence to camp administration headquarters.

5. Water is used for: Camp administration purposes.

6. State whether or not water has been turned into works of diversion: yes

7. List legal subdivisions of lands to be irrigated. If proof is for beneficial use, give exact number of acres under cultivation in each forty-acre tract. (Describe manner and place of use if for other than irrigation):

(Submit map on attached plat, showing location and details of above description.)

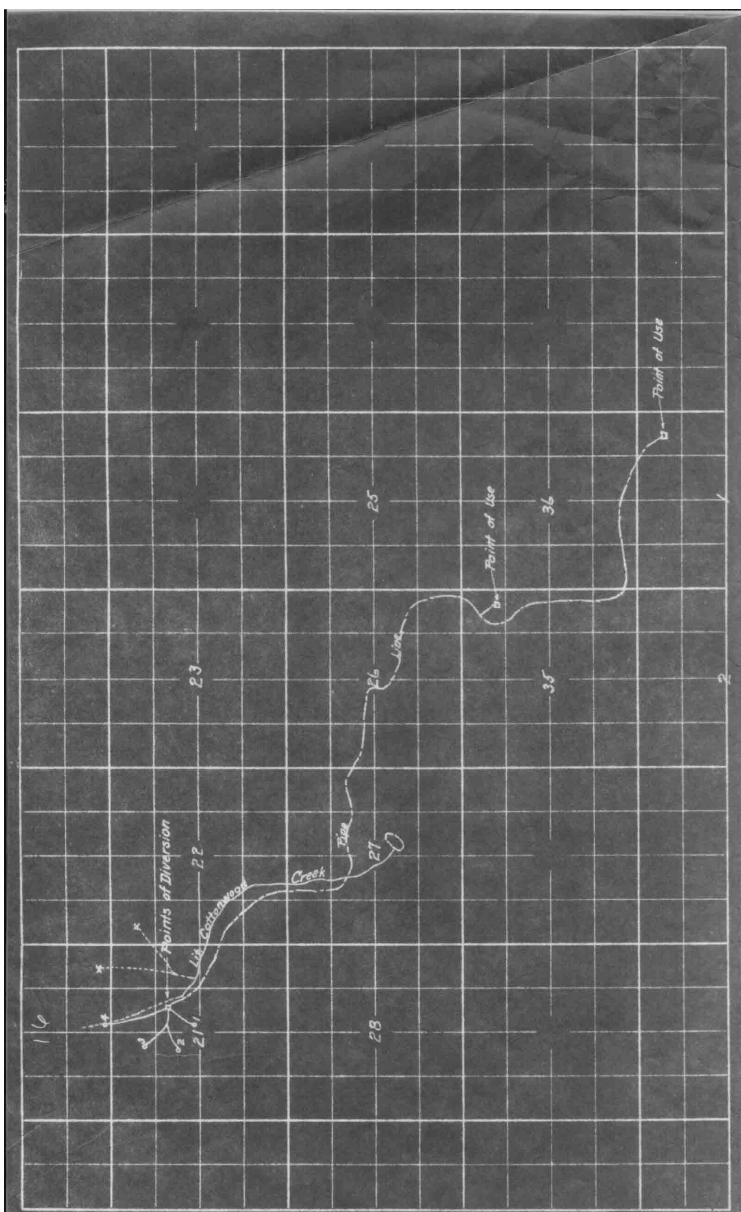
8. What large stream would the water here appropriated finally reach? none

Remarks: A 24000 ft. line of 2" pipe leads to a 5000 gallon storage tank & pipe of smaller diameter lead thence to 17 outlet hydrants & other lines supply showers, toilets, etc.

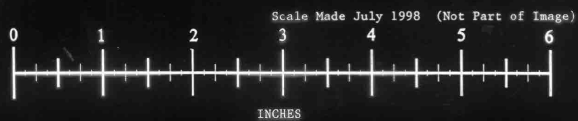
This examination was made on the 25th day of August, 1938

(Signed)

Edith A. Dolman
Examiner.



SCALE: 2 INCHES EQUALS 1 MILE. DRAW MAP IN INK.



C O P Y

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

Paul H. Berg
Deputy Commissioner

BOISE

Barzilla W. Clark, Governor

August 19, 1938

Re: Permit No. 16711.

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

Dear Sir:

This will acknowledge receipt of the deposition of the holder, depositions of two witnesses, and the affidavit of proof of publication from the newspaper, all in connection with beneficial use proof under the above permit.

Before final action can be taken in this matter, the law requires that a field examination be made by an engineer from this department. We are unable to say just when this examination will be made, since the department has but one field engineer who makes examinations all over the state.

However, Mr. Tolman, Field Engineer for this department, will contact you at the time set for examination so that you may show him over the grounds. After his report is on file in this office you will be further notified as to fees due before the issuance of your license.

Very truly yours,

R. W. FARIS
Commissioner of Reclamation

By /s/ Jane Lockett

Chief Clerk

j1

C O P Y

STATE OF IDAHO

DEPARTMENT OF RECLAMATION
R. W. Faris, 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
Arce, 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. FARIS,
Commissioner of Reclamation

By /s/ Clementina Inglin
Secretary

ci
enc.

C O P Y

STATE OF IDAHO)
 : ss.
County of Ada)

I, R. W. FARIS, Commissioner of Reclamation of the State of Idaho, hereby certify the attached to be a full, true and correct copy of Permit to Appropriate the Public Waters of the State of Idaho, No. 16711, together with the Certificate of Completion of Works, as the same appears of record in the State Department of Reclamation, at Boise, in Book 60 of Permits, at page 16711.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the Department of Reclamation, this 5th day of July, 1938, at Boise, Idaho.

R. W. FARIS,
Commissioner of Reclamation

/s/ Paul H. Berg.

(SEAL)

By Paul H. Berg,
Deputy Commissioner

C O P Y

STATE OF IDAHO

License and Certificate of Water Right

Water License No. 16711 Priority July 21, 1927 Amount 0.055 second foot

THIS IS TO CERTIFY that DEPARTMENT OF THE INTERIOR UNITED STATES NATIONAL PARKS SERVICE of _____, made application for a permit to appropriate the public waters of the State of Idaho, dated July 1, 1927; that Permit No. 16711 was issued under said application; that Certificate of Completion of works, with a carrying capacity of 0.055 second feet, was issued thereunder on July 11, 1932, showing that said works were completed on the 24th day of June, 1932; and that on the 27th day of July, 1938,

DEPARTMENT OF THE INTERIOR UNITED STATES NATIONAL PARKS SERVICE
(Craters of the Moon National Monument)

of Arco, State of Idaho, made proof to the satisfaction of the Commissioner of Reclamation of Idaho, of a right to the use of the waters of unnamed springs at the head of Little Cottonwood Creek, tributaries of Little Cottonwood Creek for the purpose of camp administration purposes in the Craters of the Moon National Monument under Use Permit No. 16711 of the Commissioner 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 Commissioner of Reclamation of Idaho and entered of record in Volume 7 of Licenses, at page 3957, on the 9th day of May, 1939;

The right hereby confirmed dates from July 21, 1927;

The Points of Diversion are located in the SW $\frac{1}{4}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 21; SW $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 16, and the NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 22, Twp. 2 N., Range 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 0.055 cubic feet per second.

Description and location of use:

Twp.	Range	Section	Forty-Acre Tract	No. Acres Described in Permit	No. Acres Actually Irrigated
------	-------	---------	------------------	----------------------------------	---------------------------------

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 Commissioner of Reclamation, affixed at Boise, Idaho, this 9th day of May, 1939.

(SEAL)

/s/ James Spefford
Commissioner of Reclamation.

STATE OF IDAHO
LICENSE AND CERTIFICATE OF
WATER RIGHT

Water License No. 16711.....

Department of the Interior
To: United States National Parks
Service (Craters of the Moon
National Monument).....

Source of Supply: Unnamed springs.

at the head of Little Cottonwood

Creek.....

.....Butte..... County

Amount 0.05..... Sec. Feet

Point of Diversion In Sections...

21, 16 and 22, Twp. 2 N., Range...

24 E., B.M.....

Place of Use Craters of the Moon...

..National Monument.....

Purpose: Camp administration.....

.....purposes.....

Date of Priority: July 21, 1927...

Recorded May 9, 1939..... 1

in Book ..7.. of ..licenses.....

Page ..3957.....

C O P Y

PERMIT NO. 16711

CERTIFICATE OF COMPLETION OF WORKS

TO ALL WHOM IT MAY CONCERN:

This is to certify that the Department of Interior, U. S. Nat'l Parks Service, A. W. Burney, Acting Chief Engineer of San Francisco, County of San Francisco, and State of California, the holder of Permit No. 16711, issued upon Application No. 23630, bearing date of priority of July 1, 1927, authorizing the diversion of 0.55 second feet of the waters of Springs at head of Little Cottonwood Creek, County of Butte, State of Idaho for Domestic purposes, has fully complied with the provisions of the laws of the State of Idaho relating to the proof of completion of 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 0.55 second feet of the waters of Unnamed Spring; that the points of diversion of said waters are: No. 1: SW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 21, T. 2 N., R. 24 E., B. M.; No. 2: SE $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 21, T. 2 N., R. 24 E., B. M.; No. 3: NE $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 21, T. 2 N., R. 24 E., B. M.; No. 4: SW $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 16, T. 2 N., R. 24 E., B. M.; No. 5: SE $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 16, T. 2 N., R. 24 E., B. M.; No. 6: NW $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 22, T. 2 N., R. 24 E., B. M.

Witness my hand this 11th day of July, A. D., 1932.

R. W. FARIS,
Commissioner of Reclamation

Proof of Completion of Works made June 24, 1932.

Certificate of Completion of Works issued July 11, 1932.

Affidavit of Publication

I, J. L. Vincent, owner 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 the notice, as 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 June 17, 1938
and ending with the issue dated July 3, 1938

Subscribed and sworn to before me this 27th

day of July, 1938;

Notary Public.

Notary Public residing at Arco, Idaho

Residence Arco, Idaho.

My commission expires July 16, 1938.

NOTICE FOR PUBLICATION NOTICE OF PROOF APPLICA- TION OF WATER TO BENEFICIAL USE

Notice is hereby given that at 10:00 A. M. on the 27th day of July, 1938, at Arco, County of Butte, State of Idaho, before Robert A. Miller, Notary Public, proof will be submitted of the application for beneficial use of 1 cubic foot per second of the waters of some unnamed springs at the head of Little Cottonwood Creek, in accordance with the terms and conditions of Permit No. 18711, heretofore issued by the Commissioner of Reclamation of the State of Idaho.

The name and postoffice address of the person or corporation holding said permit are Department of Interior, U. S. National Park Service, Craters of the Moon National Monument, Arco, Idaho.

The use to which said water has been applied is camp administration purposes.

The amount applied to beneficial use is 1 second foot.

The place where said water is used (if for irrigation, give full and accurate description of the lands irrigated) Craters of the Moon National Monument.

The name of the canal or ditch or other works by which said water is conducted to such place of use is Water Supply Pipe Line.

The right to take water from such works is based upon Permit No. 18711.

The source of supply from which such waters is diverted is unnamed springs at the head of Little Cottonwood Creek.

The date of priority which said user is prepared to establish is July 21, 1927.

R. W. FARIS.

Commissioner of Reclamation.
(Ju 17-31 2-40)

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

j1

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.

Oct. 6/27/38
 June 5/8/39

2 copies

Address all communications to

(Form No. 1)

P. O.

APPLICATION FOR PERMIT

TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF IDAHO

Application No. 23630

Permit No. 16711

District No.

1. Name of applicant: Department of Interior, United States National Parks Service

Post office address County State

I. 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:

II. 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: One (1) cubic feet per second.

3. Source of water supply: Unnamed springs at head of Little Cottonwood Creek
 which is tributary of Little Cottonwood Creek

4. Location of point of diversion: (See Remarks) feet distant from the corner
 of Section T, R, B. M., and is in the
 of Section T, R, B. M., County of

5. Water is to be used for: Camp administrative purposes in the Craters of the Moon National Monument

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

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

T, R, B. M., in the of Section T, R, 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 T, R, B. M., in the
 of Section T, R, B. M.

7. Estimated cost of works: \$ 20,000.00

8. Kinds of works: Concrete collection basins; pipes from the six points to a central
 collection point and thence in a single pipeline to the point of usage
 (Reservoir, dam, ditch, flume, pipe, etc.)

9. Height of dam feet; length of dam at top feet; length of dam at bottom
 (If height of dam will exceed 10 feet, send to Department of Reclamation for Regulations)
 feet; material used in dam

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 pipe 4 inches;

Length of conduit 4 miles. Average grade per mile 250 feet.

This copy of permit received with letter of Dec. 29, 1940,
 from State Commissioner of Reclamation, Idaho.

[illegible]

Total Number of Acres to be Irrigated.....

15. (a) Is reservoir to be used? Not for primary storage (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: Points of diversion:

No. 1; SW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 21, T. 2 N., R. 24 E., B.M.

2; SE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 21, " "

3; NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 21, " "

4; SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 16, " "

5; SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 16, " "

6; NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 22, " "

Note: Aggregate amount of water claimed from the six points of diversion is one cubic foot per second. Amount claimed from each point of diversion is not definitely known.

Springs located on Government land.

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.

DEPARTMENT OF INTERIOR, UNITED STATES
NATIONAL PARKS SERVICE.

Applicant

By Bert H. Burrell Agent.
Acting Chief Civil Engineer

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 or lessee 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 } ss.
County of _____

On this _____ day of _____, 193____, 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.

Notary Public.

My commission expires _____

Approval of Commissioner of Reclamation

The number of this permit is 16711

Recorded in Book 60 Page 16711 Approved July 7, 1927

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 on or before _____

Work to begin on or before September 5, 1927, 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 January 7, 1920

The whole of said work to be completed on or before July 7, 1932

Beneficial use of water appropriated in accordance herewith, to be made on or before July 7, 1938

Witness my hand this 7th day of July, 1927, 1927

GEO. N. CARTER

Commissioner of Reclamation.

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 _____, 1927.

Countersigned:

STATE OF IDAHO

By _____ Secretary of State By _____ Governor

No. 16711

PERMIT

Date of first receipt at office of Commissioner of Reclamation

11:00 A.M. July 1, 1927

Returned to applicant for correction

Corrected application received

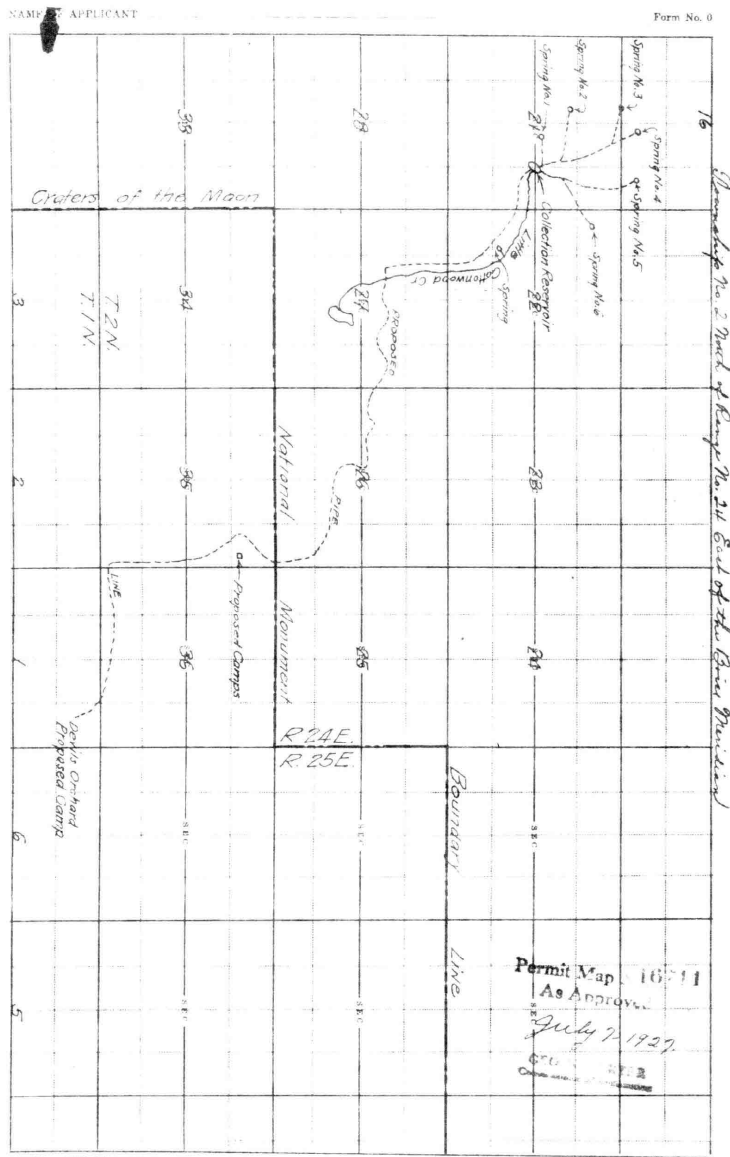
Fees, \$

FILING FEES FOR USE PERMIT:

For the first Sec. Ft. \$5.00

For each additional Sec. Ft. or fraction thereof

.25



Land History

Pettee

June 5, 1991

L54(479)
CRMO/Water Rights

Memorandum

To: Peter Monson, Department of Justice
Lynn Collins, Regional Solicitor, Salt Lake City, Utah
Barbara Scott-Brier, Pacific Northwest Regional
Solicitor's Office

From: Chief, Water Rights Branch, Water Resources Division

Subject: Additional Information for Craters of the Moon National
Monument

In my memorandum of May 13, 1991, I indicated (refer to item 3) that we had not located documents confirming one transfer of a parcel of land with water rights originally owned by Thomas Williams. At that time we had not found any documentation of the transfer of this property from the Arthur brothers to Stock Yards National Bank. We have now located the attached documentation of a foreclosure on the Arthur brothers and subsequent sheriff sale of this property to Stock Yards National Bank. This document carries a statement including water rights in the sale.

If you have any additional questions, feel free to call me at (303) 493-1441.

Owen Williams

Attachments

FNP:CPETTEE:jt:(303)493-1441:05/31/91:A:\FOLLOWUP.MEM

04/10/91

09:29

NO. 690

P001/002

National Park Service
Pacific Northwest Regional Office
Seattle, WA 98104

⁵⁵³
 FAX (206) 442-4896 or FTS 399-4896

Facsimile Cover Sheet

To: Mary Hermes 9-1-303-221-8315
 FAX # _____
 From: Barb Walls
 Subject: Craters of the Moon tract 01-105,
Kilpatrick
 Date: 21-9-91 Number of Pages to Follow: 1

Message

~~The assumption is there was an executed deed from the Kilpatrick to USA but none in this office has a copy of that document. I am faxing you a copy of a deed that may have been used but not yet executed. Sorry, I can't help you more.~~

Found one other information for your records. Suggest you contact the Register at Blackfoot Idaho for additional info.

For further information call: (206) 553-1003
 (PNR 131)

NATIONAL PARK SERVICE
WASHINGTON

FEB -6 1933

Mr. Burton C. Lacomba,
Custodian, Craters of the Moon National Monument,
Arco, Idaho.

Sir:

By letter of February 1, 1933 to the Register at Blackfoot,
Idaho, the Acting Assistant Commissioner of the General Land
Office accepted title to the land previously owned by the Kilpatrick
Brothers within the Craters of the Moon National Monument. This
places the title of these lands in the Government and closes the
exchange case. Two copies of the Land Office letter are inclosed
for your information.

Sincerely yours,


Director.

Inclosure 240037

P002-002

NO. 690

05:29

04/10/91

04/10/91 09:04

NO. 684 P001/002

National Park Service
Pacific Northwest Regional Office
Seattle, WA 98104

⁵⁵³
FAX (206) ~~442~~-4896 or FTS 399-4896

Facsimile Cover Sheet

To: Mary Hermes 9-1-303-221-8315
FAX # _____
From: Barb Walls
Subject: Craters of the Moon tract 01-105,
Kilpatrick
Date: 4-9-91 Number of Pages to Follow: 1

Message

The assumption is there was an executed deed
from the Kilpatrick to USA but none in this
office has a copy of that document. I am faxing
you a copy of a deed that may have been
used but not yet executed.
Sorry, I can't help you more.

For further information call: (206) 553-1003
(PNR 131)

04/10/91

09:04

NATIONAL BUREAU OF INVESTIGATION

NO. 684

P002/002

KILPATRICK CRATER

Blackfoot 048912

WHEREAS, the Kilpatrick Brothers Company being the owner of certain tracts of land situated and included within the limits of the Craters of the Moon National Monument, Idaho, has, under the provisions of the Act approved February 21, 1931 (46 Stat. 1206), entitled "An Act To authorize exchanges of land with owners of private land holdings within the Craters of the Moon National Monument", reconveyed and relinquished the said tracts to the United States and has, under the provisions of said Act, selected in lieu thereof the following described tracts of land, to wit:

The southeast quarter and the southeast quarter of the southwest quarter of Section three and the northwest quarter and the west half of the northeast quarter of Section ten in Township one north and the southeast quarter of the southwest quarter of Section twenty-six in Township two north all in Range twenty-three east of the Boise Meridian, Idaho, containing four hundred eighty acres, according to the Official Plat of the Survey of the said land, on file in the General Land Office:

NOT KNOW YL, That the UNITED STATES OF AMERICA, in consideration of the premises, HAS GIVEN AND GRANTED, and by these presents DOES GIVE AND GRANT, unto the said Kilpatrick Brothers Company and to its successors, the tracts above described; TO HAVE AND TO HOLD the same, together with all the rights, privileges, immunities, and appurtenances of whatsoever nature thereunto belonging, unto the said Kilpatrick Brothers Company and to its successors and assigns forever; subject to any vested and accrued water rights for mining, agricultural, manufacturing, or other purposes, and rights to ditches and reservoirs used in connection with such water rights, as may be recognized and acknowledged by the local customs, laws, and decisions of courts; and there is reserved from the lands hereby granted, a right of way thereon for ditches or canals constructed by the authority of the United States.

Herbert Hoover,

We Buy and Sell all Classes of Live Stock

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reversions, remainder and remainders, rents, issues and profits thereof, and all estate, right, title and interest in and to the said property, as well in law as in equity, of the said parties of the first part.

TO HAVE AND TO HOLD, all and singular the above mentioned described premises, together with the appurtenances, unto the party of the second part, and to his heirs and assigns forever. And the said parties of the first part, and their heirs, the said premises in the quiet and peaceable possession of the said party of the second part, his heirs and assigns, against the said parties of the first part, and their heirs, and against all and every person and persons whomsoever, lawfully claiming or to claim the same shall and will WARRANT and by these presents forever DEFEND.

IN WITNESS WHEREOF, The said parties of the first part have hereunto set their hands and seals the day and year first above written.

Signed, Sealed and Delivered
in the Presence of C. F. Olsen,
H. C. Olsen.

Louis T. Miller (SEAL)
Marinda Miller (SEAL)

STATE OF UTAH }
COUNTY OF CACHE } ss

On this 30th day of November, in the year 1926, before me Christian F. Olsen, a Notary Public in and for said County, personally appeared Louis T. Miller and his wife Marinda Miller, known to me to be the persons whose names are subscribed to the within instrument, and acknowledged to me that they executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year in this certificate first above written.

(Notarial Seal)
My commission expires May 15, 1926.

Christian F. Olsen,
Notary Public,
Residing at Hyrum, Utah.

Recorded at the request of M. A. Miller,
December 18, 1926 at 2:50 o'clock P. M.,
Book Eight of Deeds, page 256.
Ora F. Martin, Deputy
Fee \$1.20

J. F. Tiedeman,
County Recorder.

INSTRUMENT NO. 16816.
SHERIFF'S DEED.

THIS INDENTURE Made this 23rd day of November, A. D. 1926 by and between Aaron Clements, Sheriff of the County of Blaine, State of Idaho, party of the first part and The Stock Yards National Bank of Chicago, a national banking corporation party of the second part,

WITNESSETH: That WHEREAS, in and by a certain judgment and decree of foreclosure and sale made and entered on the 15th day of September, 1925, in the District Court of the Fourth Judicial District of the State of Idaho, in and for the County of Blaine in that certain action wherein The Stock Yards National Bank of Chicago, a national banking corporation, is plaintiff and Edward B. Arthur, John B. Arthur and Evan B. Arthur, copartners as Arthur Brothers, Edward B. Arthur and Myrtle A. Arthur, husband and wife, John B. Arthur and Mabel E. Arthur, husband and wife, Evan B. Arthur and Lantha Arthur, husband and wife, the Picabo State Bank, a corporation, Utah Home Fire Insurance Company, a corporation, Kilpatrick Brothers Company, a corporation, Joseph B. Archer, Frank S. Valentine, J. G. Hedrick, E. B. Wyland, otherwise designated as E. B. Weyland, Thomas D. Perry, Harry H. Neal, Trustee, and Harry H. Neal are defendants, it was among other things ordered, adjudged and decreed that all and singular the mortgaged premises described in the pleadings in said action and specifically described in said decree, including those hereinafter described be sold at public auction by the Sheriff of Blaine County, Idaho, in the manner required by law and according to the course and practice of said Court and in

in accordance with the terms of said judgment and decree; and that said sheriff execute and deliver the usual certificates of sale and deed to the purchaser as required by law.

AND WHEREAS, a writ, reciting the material parts of said decree directing the said party of the first part as such Sheriff to execute said decree making the sale and applying the proceeds in conformity therewith, having been to said sheriff directed and delivered, the said sheriff did, at the hour of two o'clock on the 21st day of November, A. D. 1925, after due public notice had been given required by the laws of this state and the course and practice of said court, duly at public auction, at the front door of the Blaine County Court House in Hailey, City of Blaine, State of Idaho, agreeable to said decree and the provisions of said decree, among other property mentioned in said decree the property hereinafter described which said premises described in said decree and hereinafter mentioned and described were fairly struck off to The Stock Yards National Bank of Chicago, a national banking corporation, plaintiff in said action, for the sum of Two Thousand Dollars (\$2,000.00) lawful money of the United States of America, said corporation being the highest bidder and that being the highest sum bid for the same;

AND WHEREAS, said Stock Yards National Bank of Chicago, a national banking corporation, thereupon paid to said sheriff the said sum of money so bidden by it.

AND WHEREAS, said Sheriff made and issued the usual certificate, in duplicate, of said sale in due form of law and delivered one thereof to said purchaser and caused one thereof to be filed and recorded in the County Recorder's office of the County of Butte, State of Idaho, in which said county the real estate hereinafter described and so sold is situated,

AND WHEREAS, more than one year has elapsed since the date of said sale and no redemption or offer of redemption has been made of the premises so sold as aforesaid or any part thereof, by or on behalf of said judgment debtors or the said defendants, or any of them, or by or on behalf of any other person or at all;

NOW THEREFORE, This Indenture Witnesseth:

That the said party of the first part, said Aaron Clements, Sheriff of Blaine County, Idaho, in order to carry into effect the said sale so made by him as aforesaid in pursuance of said decree and in conformity to the statute in such case made and provided, and also in consideration of the premises and of the said sum of Two Thousand Dollars (\$2,000.00) lawful money of the United States of America, so bidden and paid to him by the said Stock Yards National Bank of Chicago, a national banking corporation, the said purchaser, the receipt whereof is hereby acknowledged, hath granted, bargained, sold and conveyed, and by these presents doth grant, bargain, sell and convey unto the said party of the second part, said Stock Yards National Bank of Chicago, a national banking corporation, its successors and assigns, forever, the said property described in said decree, and sold as hereinbefore set forth, and situate in Butte County, Idaho, and more particularly described as follows, to-wit:

The Southeast quarter of the southwest quarter (SE $\frac{1}{4}$ SW $\frac{1}{4}$) of Section 22, the northwest quarter of the northwest quarter (NW $\frac{1}{4}$ SW $\frac{1}{4}$) of Section 22, the west half of the northeast quarter (W $\frac{1}{2}$ NE $\frac{1}{4}$) the northeast quarter of the northwest quarter (NE $\frac{1}{4}$ NW $\frac{1}{4}$) and the southwest quarter of the northwest quarter (SW $\frac{1}{4}$ NW $\frac{1}{4}$) of Section 27, Township 2 North Range 24 East, B. M., Butte County, Idaho,

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together with all and singular the tenements, hereditaments and appurtenances thereunto
belonging or in anywise appertaining, and all water, water rights, aqueducts, lateral
appropriations and appurtenances upon, issuing to, connected with, appertaining or be-
to, or had and enjoyed in connection with the aforesaid premises in this paragraph, do

TO HAVE AND TO HOLD all and singular the premises above
mentioned and described and hereby conveyed or intended so to be, together with the
appurtenances, unto the said party of the second part, its successors and assigns forever.

IN WITNESS WHEREOF the said party of the first part to these
presents, the said Sheriff, as aforesaid, hath hereunto set his hand and seal the day
year first above written.

Aaron Clements,
Sheriff of Blaine County,
State of Idaho.

STATE OF IDAHO }
COUNTY OF BLAINE }

On this 23rd day of November, A. D. 1926, before me, Cassie
Russell, Clerk of the District Court in and for said County and State, personally appeared
Aaron Clements, Sheriff of the County of Blaine, State of Idaho, personally known to me
to be the person whose name is subscribed to the foregoing instrument and acknowledged
me that he, as such Sheriff aforesaid executed the same.

IN WITNESS WHEREOF I have hereunto set my hand and affixed
official seal, the day and year first above written.

Cassie E. Russell
Clerk of the District Court
the Fourth Judicial District
the State of Idaho, in and
Blaine County.

(Official Seal)

Recorded at the request of Boise Livestock Loan Company,
December 20, 1926 at 1:30 o'clock P. M.,
Book Eight of Deeds, page 286.
J. F. Tiedeman, County Recorder.
By Ora F. Martin Deputy.
Fee \$2.40

INSTRUMENT NO. 10819

WARRANTY DEED.

THIS INDENTURE, Made this third day of November, in the year of our Lord
one thousand nine hundred and twenty-six between Samuel A. Paisley and Irene E. Paisley,
husband and wife, of Arco, County of Butte, and State of Idaho, the parties of the first
part, and Oscar C. Paisley, of Arco, County of Butte, and State of Idaho, the party of the
second part:

WITNESSETH: That the said parties of the first, part, for and in consideration
of the sum of Twenty-Five Hundred and No/100 Dollars lawful money of the United States
America, to them in hand paid by the said party of the second part, the receipt whereof
is hereby acknowledged, have granted, bargained and sold, and by these presents do grant,
bargain, sell, convey and confirm unto the said party of the second part, and to his heirs
and assigns forever, all the following described real estate, situated in the County of
Butte, State of Idaho, to-wit:

The Lot numbered seven (7) in Block numbered three (3) and that part of
Lot numbered six (6) in the Block numbered three (3) lying between Lot numbered seven (7)
and the right-of-way for the ditch belonging to the Big Lost River Irrigation Company,
said ditch being known as the Arco ditch, all in the First Addition to the Original Town
of Arco, Butte County, Idaho, as shown by the recorded plat thereof, now on file in the
office of the County Recorder of Butte County, State of Idaho.

Instrument No. 5269

REAL ESTATE MORTGAGE

Released, See Book 2
of Records - Page 54

THIS INDENTURE, Made this 5th day of June in the year of our Lord, One Thousand Nine Hundred and twenty-one between Arthur Brothers, a co-partnership composed of Edw. B. Arthur John B. Arthur & Evan B. Arthur, Edw. B. Arthur & Myrtle A. Arthur, his wife and John B. Arthur and Mable E. Arthur, his wife of the County of Blaine, State of Idaho, mortgagors and the Pico State Bank, a corporation of Blaine County, State of Idaho, mortgagee,

WITNESSETH, That the said mortgagor, in consideration of Twenty-one Thousand three hundred seventy-nine and 95/100 DOLLARS, the receipt whereof is hereby acknowledged do hereby grant, bargain sell and convey unto the said mortgagee and to its successors and assigns forever, the following described real estate, situate in the County of Blaine, State of Idaho, to-wit: The Southeast Quarter of the Northeast Quarter and the Northeast Quarter of the Southeast Quarter Section Twenty-one, and the Southwest Quarter of the Northwest Quarter and the Northwest Quarter of the Southwest Quarter of Section Twenty-two all in Township One North of Range 23 E. B. M. The Southwest Quarter of Section Three; the Southeast Quarter of Section Nine; and the Northwest Quarter of Section Ten, all in Township Two South of Range Twenty-one east of the Boise Meridian, containing four hundred eighty acres more or less, according to the Government Survey, excepting however, from the Southwest Quarter of the Northwest Quarter of said Section Ten a tract of land containing 3.1 acres commonly known as Tax Lot 467 and more particularly described as follows: Commencing at the Southwest corner of the Northwest Quarter of said Section Ten; running two rods north and three rods east to a starting point, thence north $16\frac{1}{4}$ rods; thence east $31\frac{1}{4}$ rods; thence south $16\frac{1}{4}$ rods; thence West $31\frac{1}{4}$ rods to the point of beginning;

Also the South Half of the Northeast Quarter, and the Northeast Quarter of the Southwest Quarter and the Southwest Quarter of the Southwest Quarter of Section Three; the East Half of the Northeast Quarter; the Southwest Quarter of the Northeast Quarter; and the Northwest Quarter of the Southeast Quarter of Section Nine; the Northeast Quarter of the Northeast Quarter of Section Twenty-one; and the Northeast Quarter of the Northwest Quarter of Section Twenty-two all in Township One North of Range Twenty-three EBM, containing 400 acres more or less according to the Government Survey.

Also all those tracts or parcels of land lying and being in the county of Minidoka and state of Idaho, more particularly described as follows:

The West Half of the East Half of Section Thirty-five, and the South Half of the Southwest Quarter of Section Thirty-six, all in Township Nine South of range Twenty-two E. B. M. containing 240 acres more or less according to the Government Survey thereof.

Also all those tracts and parcels of land lying and being in the County of Butte State of Idaho more particularly described as follows:

The Southeast Quarter of the Southwest Quarter of Section Twenty-two; The Northwest Quarter of the Northwest Quarter of Section Twenty-six and the West Half of the Northeast Quarter; the Northeast Quarter of the Northwest Quarter, and the Southwest Quarter of the Northwest Quarter of Section Twenty-seven all in Township Two North of Range Twenty-four East of the

Boise Meridian, containing 240 acres more or less according to the Government Survey thereof. Also all the additional tracts and parcels of land situated and being in the County of Blaine State of Idaho more particularly described as follows: The Northwest Quarter of the Northeast Quarter of Section Thirty-three in Township Two North of Range Twenty-four E. B. M. and the East Half of the Northeast Quarter; the Southwest Quarter of the Northeast Quarter; the Northwest Quarter of the Southeast Quarter of Section Nine in Township One North, Range 23 E. B. M.

Together with all the improvements, privileges and appurtenances thereunto belonging and all rights to homestead exemption; together with all ditch and water rights of every nature however evidenced, used on said lands or belonging to the same.

This mortgage is given to secure the payment of a debt evidenced by SIX certain promissory notes signed by Arthur Brothers By Edw. B. Arthur, Edw. B. Arthur & Myrtle A. Arthur his wife and John B. Arthur & Mable E. Arthur his wife, the said mortgagors for the sum of Twenty-one thousand three hundred seventy-nine and 95/100 DOLLARS, in words

(Notarial Seal)

Recorded at the request of Jo G. Martin,
January 12th, 1922 at 2:30 o'clock P. M.,
Book Two of Release of Mortgages, page 48,
Theins Clendenin, Deputy,
Fee 50¢.

Jo G. Martin
Notary Public,
Residence: Arco, Idaho.

John C. Toombs,
County Recorder.

INSTRUMENT NO. 6946

SATISFACTION OF MORTGAGE.

IN CONSIDERATION of the full payment and satisfaction of the debt thereby secured, The Picoabo State Bank a corporation of Picoabo, State of Idaho, hereby certified that the certain real estate mortgage executed by Arthur Bros. by Edwd. B. Arthur, Edwd B. Arthur, Myrtle A. Arthur, John B. Arthur and Mabel E. Arthur on real estate to secure the sum of \$21379.95 found of record in Book 7 of real estate mortgages at page 500 records of Butte County, Idaho, is fully discharged.

IN WITNESS WHEREOF, this certificate of satisfaction is executed this 22nd of Aug 1922

ATTEST H. H. Neel
Secretary
(Corporate Seal)

The Picoabo State Bank
By E. J. Kilpatrick
President

State of Idaho,)
) ss.
County of Blaine)

On this 22nd. of Aug. 1922 before me W. J. Lunn a Notary Public in and for said County and State, personally appeared E. J. Kilpatrick known to me to be the President of the Corporation whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in behalf of said corporation and that said corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

Residence and P. O. Address: Picoabo, Idaho.
(Notarial Seal)

W. J. Lunn
Notary Public.

Recorded at the request of Picoabo State Bank,
January 15, 1922 at 8:25 o'clock A. M.,
Book Two of Release of Mortgages, page 54,
John C. Toombs, Clerk,
Fee 50¢.

John C. Toombs,
County Recorder.

INSTRUMENT NO. 6947

RELEASE OF CHATTEL MORTGAGE.

KNOW ALL MEN BY THESE PRESENTS, That Southeastern Idaho Livestock Loan Company, a corporation does hereby certify and declare that a certain mortgage, bearing date the 12th day of December A. D. 1922, made and executed by Otto G. Wilde the party of the first part therein, to SOUTHEASTERN IDAHO LIVESTOCK LOAN COMPANY, the party of the second part therein, covering 4 Jersey & Holstein Cows, and 2 yearling heifers, branded VI on left hip; 90 ewes, 10 wethers; 20 ewe lambs and 2 bucks; all cross bred branded VI, together with all wool, increase and 50 tons hay. filed for record and indexed in book One of Minutes of Mortgages of Personal Property, on page 18-W in the office of the County Recorder of the County of Butte State of Idaho, on the 13th day of December 1921, together with the debt thereby secured, is fully paid, released, satisfied and discharged.

All real estate, water, or water rights of every kind and description, owned, or the title to which is vested or appearing in the name of Deseret Savings Bank, a corporation, having its principal place of business at Salt Lake City, Utah.

Recorded at the request of
Investors Finance Co.
January 8, 1933 at 9:30 o'clock A. M.
Book 5 of Deeds, page 477.
L. W. Boyer Ex-officio Auditor and Recorder
Elsie B. Pieper Deputy
Fee \$1.20

Instrument No. 14839

WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS: That Kilpatrick Brothers Company, a Corporation, organized under the laws of the State of Nebraska, and lawfully doing business in the State of Idaho, in consideration of the transfer by the United States of America to the said Kilpatrick Brothers Company, of the following described real estate, situated in Blaine County, Idaho, to-wit:

Southeast quarter; and Southeast quarter of Southwest quarter, of Section Three; Northwest quarter; and West half of Northeast quarter, Section ten, Town one North, Range twenty-three East; Southeast quarter of Southwest quarter, Section twenty-six, Town two North, Range twenty-three East, Boise Meridian, pursuant to the Act of Congress of February 21, 1931 (Public No. 714-71 st. Congress), does hereby sell, transfer and convey unto the United States of America, the following described premises, situated in the County of Butte, State of Idaho to-wit:

Southeast quarter of Southwest quarter, Section twenty-two, Northwest quarter of Northwest quarter of Section twenty-six; Northeast quarter of Northwest quarter; Southwest quarter of Northwest quarter; and West half of Northeast quarter, Section twenty-seven, Town two North, Range twenty-four East, Boise Meridian.

And grantor hereby covenants with said United States of America that grantor holds said premises hereby conveyed by good and perfect title; that grantor has good right and lawful authority to sell and convey the same; and that said premises are free and clear of all liens and incumbrances whatsoever. And grantor covenants to warrant and defend said premises against the lawful claims of all persons whomsoever.

Signed this 8th day of September, 1932.

(CORPORATE SEAL)

KILPATRICK BROTHERS COMPANY

By J. M. Kilpatrick, President

In presence of :

J. S. Eledel

ATTEST:

W. H. Kilpatrick
Secretary

State of Nebraska, }
County of Gage, } SS

Before the undersigned, a Notary Public in and for said County, personally came J. M. Kilpatrick to me known to be the President of Kilpatrick Brothers Company, and the officer of said Company who in behalf of said Corporation signed and executed the foregoing deed; and he acknowledged that said Corporation executed said instrument as its voluntary act and deed; and that the foregoing instrument is his voluntary act and deed as such President of said Corporation; and that the impression of corporate seal of said Corporation was thereunto affixed by the Secretary by the use of the Corporate seal of said Corporation.

Witness my hand and notarial seal at Beatrice, Nebraska, Sept. 8, 1932.
(NOTARIAL SEAL) E. F. Nelson
My commission expires, Jan. 11, 1936 Notary Public for Gage, Nebraska.

INSTRUMENT NO. 12160.
WARRANTY DEED

THIS INDENTURE, Made this tenth day of AUGUST in the year of our Lord one thousand nine hundred and twenty-eight, between

Stock Yards National Bank of Chicago
of Chicago, County of Cook, State of ILLINOIS
the party of the first part, and

Kilpatrick Brothers Company, a Corporation,
of Elcabo, County of Blaine, State of Idaho
the party of the second part.

WITNESSETH, That the said party of the first part, for and in consideration of Money
other good and valuable consideration and the sum of One and no/100 DOLLARS,
lawful money of the United States of America, to it in hand paid by the said party of the second
part, the receipt whereof is hereby acknowledged, has granted, bargained and sold, and by these presents do es. grant, bargain,
sell, convey and confirm unto the said party of the second part, and to its heirs and assigns forever, all the following
described real estate, situated in the County of Butte State of Idaho, to-wit:

The Southeast Quarter of the Southwest Quarter
(SE $\frac{1}{4}$ SW $\frac{1}{4}$) of Section Twenty-two (22); the North-
east Quarter of the Northwest Quarter (NE $\frac{1}{4}$ NW $\frac{1}{4}$);
the West Half of the Northeast Quarter (W $\frac{1}{2}$ NE $\frac{1}{4}$);
and the Southwest Quarter of the Northwest Quarter
(SW $\frac{1}{4}$ NW $\frac{1}{4}$) of Section Twenty-seven (27); and the
Northwest Quarter of the Northwest Quarter (NW $\frac{1}{4}$ NW $\frac{1}{4}$)
of Section Twenty-six (26); all in Township Two (2)
North, of Range Twenty-four (24) East, of the Boise
Meridian, in Idaho,

TOGETHER with all and singular the tenements, hereditaments and appurtenances thereunto belonging or in anywise
appertaining, the reversion and reversions, remainder and remainders, rents, issues and profits thereof, and all estate, right, title and
interest in and to the said property, as well in law as in equity, of the said party of the first part:

TO HAVE AND TO HOLD, All and singular the above mentioned and described premises, together with the appurtenances,
unto the party of the second part, and to its successors heirs and assigns forever. And the said party of the first part,
and its heirs, the said premises in the quiet and peaceable possession of the said party of the second part, its
successors heirs and assigns, against the said party of the first part, and its heirs, and against all and every person and persons
whomsoever lawfully claiming the same.

DEFEND.

IN WITNESS WHEREOF, said party of the first part, by resolution of its board of directors
of its board of directors, has caused these presents to be executed,
verified, and acknowledged by its proper officers, and its corporate name
and seal to be hereunto affixed, the day and year first above written.

Attest: D. R. Kendall, Cashier.

(CORPORATE SEAL)

ILLINOIS
STATE OF Idaho
County of Cook ss.

On this tenth day of August in the year 1928, before me,
H. L. Reker, a Notary Public in and for said State,
personally appeared C. N. Stanton, known to me to be the President of Stock Yards National Bank
of Chicago, the corporation that executed the within instrument and known to me to be the
such corporation
and acknowledged to me that he executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year in this certificate
first above written.

H. L. Reker, Notary Public, Residing
at Chicago, Illinois. My Commission
(NOTARIAL SEAL) Expires Aug. 10, 1930.

Recorded at the request of Roy Van Winkle this 27th day of August
A. D. 1928, at 30 minutes past 11 o'clock A. M.
Book 13 of Deeds, page 1, Fee \$1.20.
By Ora F. Martin, Deputy. I. W. Boyer, Recorder.

No 14504

WARRANTY DEED

THIS INDENTURE, Made this 17th day of September in the year of our Lord one thousand nine hundred and nine, between Thomas H. Williams, of Blaine County, Idaho, (a single man)

the part of of the first part, and Edward B. Arthur and John B. Arthur, doing business under the name of Arthur Brothers, of Carey, Blaine County, Idaho

the part 1st of the second part:

WITNESSETH: That the part of of the first part, for and in consideration of the sum of Fifteen Hundred (\$1500.00) DOLLARS in hand paid by the said part 1st of the second part, the receipt whereof is hereby acknowledged, he as granted, bargained, sold, remised, released, alienated and confirmed, and by these presents do as grant, bargain, sell, remise, release, alienate and confirm unto the said part 1st of the second part, and to their heirs and assigns forever, all the following described lot, piece, or parcel of land, situated in the County of Blaine and State of Idaho, known and described as follows, to-wit:

The southeast quarter (SE $\frac{1}{4}$) of the Southwest quarter (SW $\frac{1}{4}$) of Section Twenty-two (22) and the Northeast quarter (NE $\frac{1}{4}$) of the Northwest quarter (NW $\frac{1}{4}$) and the West half (W $\frac{1}{2}$) of the Northeast quarter (NE $\frac{1}{4}$) of Section twenty-seven (27) in Township Two (2) North of Range Twenty-four (24) East of Boise Meridian, Idaho, containing one hundred sixty acres, together with any and all ditches, water and water rights thereunto belonging or in anywise appertaining.

TOGETHER with all and singular the tenements, hereditaments and appurtenances therunto belonging or in anywise appertaining; and the reversion and reversions, remainder and remainders, rents, issues and profits thereof; and all the estate, right, title, interest, claim or demand whatsoever of the said part of of the first part, either in law or equity, of, in and to the above bargained premises with the hereditaments and appurtenances.

TO HAVE AND TO HOLD the said premises, above bargained and described with the appurtenances, unto the said part 1st of the second part, their heirs and assigns forever.

And the said part of of the first part, for himself, his heirs, executors and administrators, do as covenant, grant, bargain and agree to and with the said part 1st of the second part, their heirs and assigns, that at the time of signing and delivery of these presents he is well seized of the premises above conveyed, as of a good, sure, perfect, absolute and indefeasible estate of inheritance in law in fee simple, and has a good right, full power and lawful authority to grant, bargain, sell and convey the same in manner and form aforesaid; that the same are free and clear of all former or other grants, bargains, sales, liens, taxes, assessments and incumbrances of what kind or nature soever; and the above bargained premises in the quiet and peaceable possession of the said part 1st of the second part, their heirs and assigns, against all and every person or persons lawfully claiming or to claim the whole or any part thereof, the said part of of the first part shall and will warrant and forever defend.

IN WITNESS WHEREOF, The said part of of the first part has set his hand... the day and year first above written.

Signed and Delivered in the Presence of

L. L. Sullivan

Thomas H. Williams (SEAL)

(SEAL)

(SEAL)

(SEAL)

STATE OF IDAHO,

County of BLAINE ss.

On this 17th day of September, 1909, before me,

L. L. Sullivan, a Notary Public,

in and for said County, personally appeared Thomas H. Williams

known to me to be the person is whose name is subscribed to the within instrument, and acknowledged to me that he executed the same.

IN TESTIMONY WHEREOF, I have hereunto set my hand and official seal, on the day and year in this certificate above written.

(Seal).

L. L. Sullivan,

Notary Public,

I hereby certify that this deed was filed for record at the request of the 16th day of Sept. 1910

at 2.10 o'clock P.M., at request of E. B. Arthur, and recorded in Book 68 page 517.

By M. L. Fuld, W. F. Hoxess, County Recorder.

Deputy.
Transcribed from book No. 68 of Deeds, page 517, Blaine county records.

INFORMATION ON THE THOMAS WILLIAMS WATER RIGHT
IN CRATERS OF THE MOON NATIONAL MONUMENT

Prepared by Mary Hermes, Research Associate
April 25, 1991

On October 26, 1908, the State of Idaho issued Water License No. 4133 (attached) to Thomas Williams. The water license authorized Williams to "use of 1 cubic feet per second of waters of Little Cottonwood Creek ... for irrigation and domestic purposes...". The point of diversion is identified as being in the SE1/4 SW1/4 of Section 22, Township 12 North, Range 24 East, and the acres to be irrigated are listed as 15 acres in the NW1/4 NE1/4 of Section 27 and 3 acres in the SE1/4 SW1/4 of Section 22, Township 12 North, Range 24 East. As indicated in an April 5, 1991 telephone conversation between Alice Johns, Water Rights Branch, and Pam, Idaho Division of Water Resources and a copy of a document from the Idaho Division of Water Resources files dated February 28, 1985, the legal descriptions listed in the water license are incorrect (see attached documents). The township for all of the legal descriptions should be Township 2 North instead of Township 12 North. A Water Right Proof of Reading Report dated April 5, 1991 for water right 4133, now referred to as 34-2066, also includes remarks to indicate that the point of diversion and places of use were incorrectly described in the water license (see attached).

A copy of a deed dated September 17, 1909 indicates that Mr. Williams sold the land covered under Water Right 34-2066 to Edward B. Arthur and John B. Arthur, who were doing business under the name of Arthur Brothers. The deed transfers ownership of the land "together with any and all ditches, water and water rights thereunto belonging or in anywise appertaining." Copies of two other deeds obtained from the Butte County Assessor's office indicate that ownership of the land was transferred from Stock Yards National Bank of Chicago to Kilpatrick Brothers Company, a Corporation, on August 10, 1928 and then from Kilpatrick Brothers Company, a Corporation, to the United States of America on September 8, 1932. No mention of water rights is made in either of these deeds.

I spoke to Lori Gannett of the Butte County Assessor's office on April 18, 1991. She said she had found the deeds discussed above, but she had not found anything showing the transfer of the land from Arthur Brothers to Stock Yards National Bank. She said she thought maybe Arthur Brothers had taken out a loan and that maybe that was how the bank had gotten it, but she hadn't found anything yet to confirm her theory. If, indeed, that is how the bank obtained ownership of the land, it seems extremely unlikely that the water rights would have been specifically excluded in a mortgage agreement. Thus, until information is obtained to dispute the fact, it appears that when ownership of the land was transferred from Kilpatrick Brothers Company, a Corporation, to the United States of America, the water right was appurtenant to the land.

I discussed the existence of this water right with Shelley Sparhawk, Craters of the Moon National Monument (CRMO), and she said she didn't know anything about it. She also said it was unlikely that Robert Scott or Kent Campbell would know anything either since they have been at CRMO for less than ten years.



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WR copy
1312005 "LU"
Craters of Moon Reed 5.

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:

(Signature)
C. R. Doolittle

Acting Chief, Branch of Land Use.

Encl.

map when?

*Returned to
M. J. M. 4648*

Memorandum of Record -

Craters of the Moon -

Deed 5

Sections surveyed August 30 to September 3, 1883, to which patents may have been granted prior to Act of August 30, 1890, reserving federal water conduit rights of way:

T. 2 N., R. 24 E., Boise Meridian - Secs. 1-3, 10-15, 22-27,
& 34-36.

Sections surveyed September 29 to October 9, 1914, to which subsequent patents would include reservation in Act of August 30, 1890, reserving federal water conduit rights of way:

T. 2 N., R. 24 E., Boise Meridian - Secs. 4-9, 16-21, & 28-33.

Reference - Memorandum Chief Engineer Burney to Mr. Dunn, dated May 18, 1944, which refers to communication from General Land Office.

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



ADDRESS ONLY
THE DIRECTOR, NATIONAL PARK SERVICE

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

In duplicate.

Chief of Lands.

(COPY)

RIGHT-OF-WAY DEED

KNOW ALL MEN BY THESE PRESENTS, that, I, Edw. B. Arthur, in consideration of One Dollar (\$1.00) to me in hand paid, and other good and valuable considerations, the receipt whereof is hereby duly acknowledged, do hereby grant, bargain, sell and convey unto the United States of America, an easement and right of way over Section 27, Township 2 N., Range 24 E., Boise Meridian, situate, lying and being in the County of _____, State of Idaho, for a pipe line.

The said right of way hereby granted is for the maintenance, and full, free and quiet use and enjoyment by the United States of America of a pipe line, being two and one half feet (2 1/2) on each side of the following described center line traversing the above described parcels of land according to the following courses and directions, to-wit:

Beginning at a point on the East line of S. E. Quarter of N. W. Quarter of Sec. 27, T. 2 N., R. 24 E., Boise Meridian, 540 ft. more or less south of N. E. Corner of S. E. Quarter of N. W. Quarter of Sec. 27; thence N 63° 28' W - 305 ft.; thence N 48° 28' W - 50 ft.; thence N 33° 28' W - 50 ft.; thence N 27° 54' W - 200 ft.; thence N 12° 20' W - 185 ft. more or less to a point on the North line of S. E. Quarter of N. W. Quarter of Sec. 27 - 510 ft. more or less west of N. E. Cor. of S. E. Quarter of N. W. Quarter Sec. 27, and there terminating.

This grant shall be effective so long as said easement shall be actually used for the purposes above specified and all rights hereunder shall revert to the owner of the land as soon as the said use thereof shall be abandoned and discontinued.

The grantee shall at all reasonable times have the right to enter for the purpose of constructing, repairing and maintaining said pipe line.

In witness whereof, the grantee has hereunto set its hand and seal this

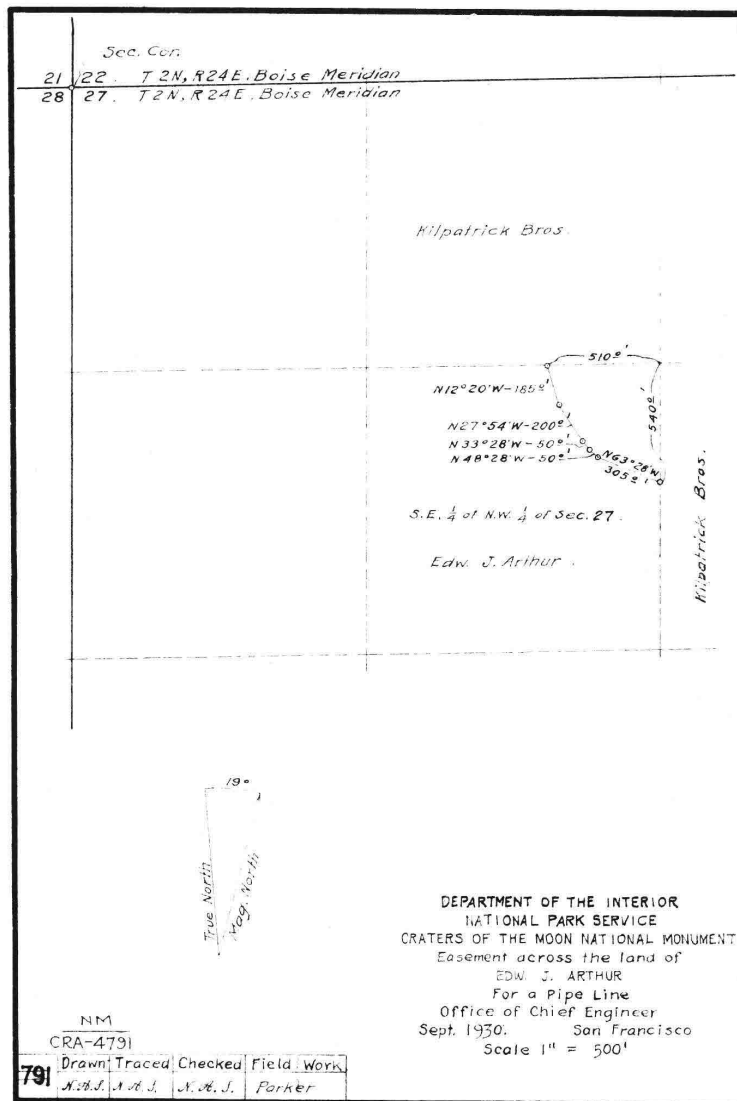
_____ day of _____ Nineteen Hundred
and Thirty.

Signed, Sealed and Delivered
in the Presence of:

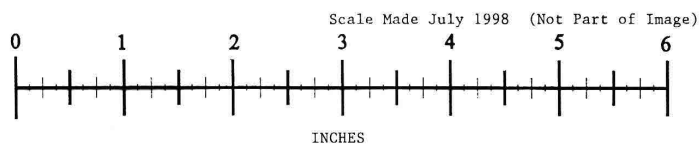
(Sgd.) Edwd. B. Arthur (Seal)

(Seal)

(Seal)



NM
CM-4791



C O P Y

CERTIFICATE OF ACCEPTANCE

By virtue of and pursuant to the authority conferred by the Act of Congress approved June 5, 1920 (41 Stat. 917), I, the undersigned, as Assistant Secretary of the Interior, do hereby accept the attached deed dated October 10, 1930, wherein and whereby Kilpatrick Brothers Company convey to the United States of America as a donation, a right of way as described therein over certain land in private ownership located within the boundaries of the Craters of the Moon National Monument, Idaho.

In witness whereof, I, as said Assistant Secretary, hereunto set my hand officially, and have caused the seal of said Department to be affixed hereto and in attestation hereof this 27th day of December , 1930.

(sgd) John H. Edwards
Assistant Secretary of the Interior.

C O P Y

RIGHT-OF-WAY DEED

KNOW ALL MEN BY THESE PRESENTS, that Kilpatrick Brothers Company, a Corporation, organized under the laws of Nebraska, lawfully doing business in Idaho, in consideration of One Dollar (\$1.00) to it in hand paid, and other good and valuable considerations, the receipt whereof is hereby duly acknowledged, does hereby grant, bargain, sell and convey unto the United States of America an easement and right of way over Sections 22 and 27, Township 2 N., Range 24 E., Boise Meridian, situate, lying and being in the County of Butte, State of Idaho, for a pipe line.

The said right of way hereby granted is for the maintenance, and full, free and quiet use and enjoyment by the United States of America of a pipe line, being two and one half feet (2 1/2) on each side of the following described center line traversing the above described parcels of land according to the following courses and directions, to-wit:

Beginning at a point on the East line of S. W. Quarter of N. E. Quarter of Sec. 27, T. 2 N., R. 24 E. Boise Meridian, 340 feet more or less North of S. E. corner of S. W. quarter of N. E. quarter of Sec. 27; thence N 71° 12' W - 410 ft.; thence N 61° 32' W - 93 ft.; thence N 49° 28' W - 133 ft.; thence N 30° 36' W - 134 ft.; thence N. 27° 36' W - 140 ft.; thence N 50° 48' W - 135 ft.; thence N 71° 18' W - 40 ft.; thence S 88° 42' W - 25 ft.; thence S 68° 42' W - 230 ft.; thence S 84° 42' W - 120 ft.; thence N 83° 48' W - 65 ft.; thence N 63° 28' W - 30 ft., more or less to a point on the West line of S. W. Quarter of N. E. Quarter of Sec. 27, T. 2 N., R. 24 E. Boise Meridian, 540 ft. more or less south from the N. W. Cor. of S. W. Quarter of N. E. Quarter of Section 27, and there terminating.

Beginning at a point on the south line of N. E. Quarter of N. W. Quarter of Sec. 27, T. 2 N., R. 24 E. Boise Meridian, 510 ft. more or less West of S. E. corner of N. E. Quarter of N. W. Quarter of Sec. 27; thence N. 12° 20' W - 815 ft.; thence N 5° 34' W - 328 ft.; thence N 11° 34' E - 184 ft.; thence N 8° 20' E - 20 ft. more or less to a point on the south line of Sec. 22, thence N 8° 20' E - 281 ft.; thence N 23° 02' W - 627 ft.; thence N 13° 32' W - 60 ft.; thence N 10° 48' W - 380 ft. more or less to a point on the North Line of S. E. Quarter of S. W. Quarter of Sec. 22, 180 ft. more or less East of N. W. Corner of S. E. Quarter of S. W. Quarter of Sec. 22, and there terminating.

This grant shall be effective so long as said easement shall be actually used for the purposes above specified and all rights hereunder shall revert to the owner of the land as soon as the said use thereof shall be abandoned and discontinued.

The grantee shall at all reasonable times have the right to enter
for the purpose of constructing, repairing and maintaining said pipe line.

In witness whereof, the grantee has hereunto set its hand and seal
this 10th day of October Nineteen Hundred and Thirty.

Signed, Sealed and Delivered
in the presence of: _____ (Seal)

_____ (Seal)

_____ (Seal)

(SEAL) ATTEST: KILPATRICK BROTHERS COMPANY,
/s/ J. M. Kilpatrick Secretary. BY /s/ R. J. Kilpatrick President.

State of Nebraska,)
County of Gage,) ss

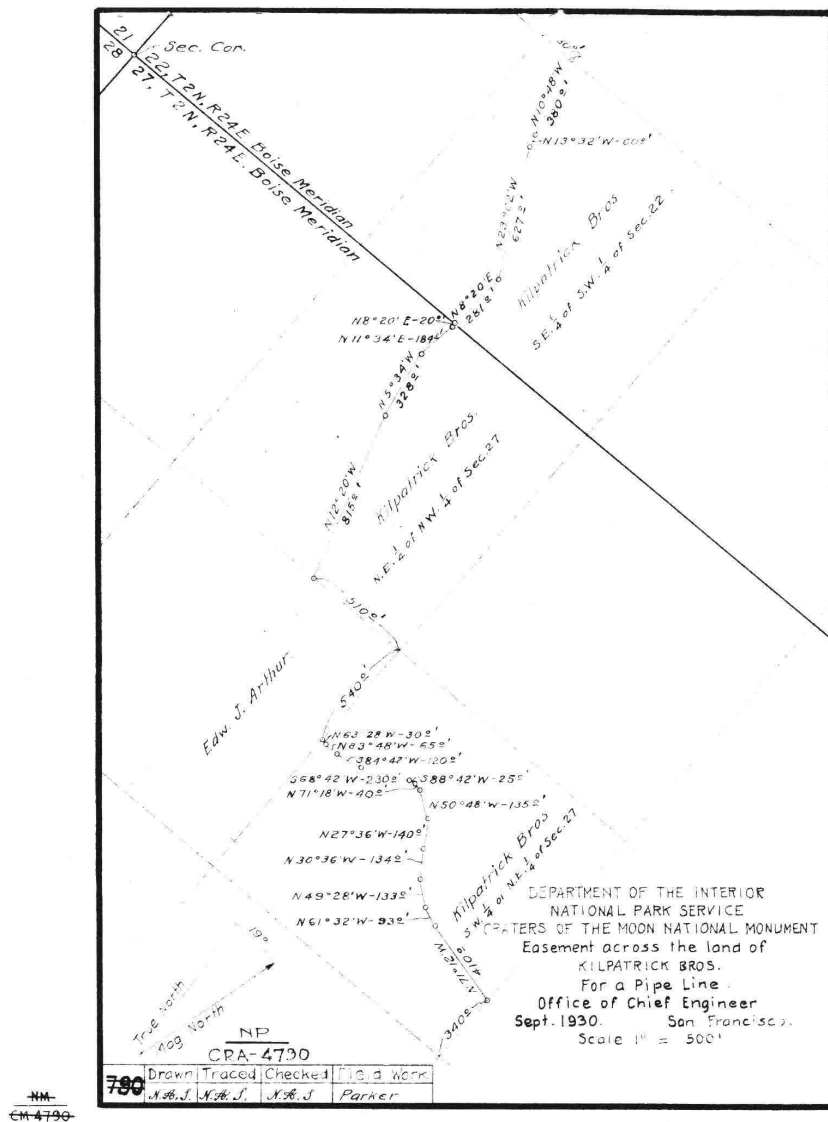
Before the undersigned, a Notary Public in and for said County,
personally came R. J. Kilpatrick, to me personally known to be the
President of Kilpatrick Brothers Company, a Corporation, the Grantor in
the foregoing instrument, and he acknowledged the said Corporation
executed the foregoing instrument; and that the said instrument is his
voluntary act and deed, as such President of said Corporation, and the
voluntary act and deed of said Corporation, for the uses and purposes in
said instrument set forth.

Before me also appeared J.M. Kilpatrick, to me known to be the
Secretary of said Corporation, and he acknowledged that the imprint of
the corporate seal, upon this instrument by him affixed, is the imprint
and genuine corporate seal of said Corporation.

Witness my hand at Beatrice, Nebraska, October 10, 1930.

E. F. Nelson
Notary Public.

(SEAL) My Commission expires _____



Supporting Hydro Data

INFORMATION ON THE WATER WELLS AT
CRATERS OF THE MOON NATIONAL MONUMENT

Prepared by Mary Hermes, Research Associate
April 25, 1991

In the summer of 1977, a water well was drilled at Craters of the Moon National Monument (CRMO) in the SE1/4 NW1/4 of Section 27, Township 2 North, Range 24 East. An August 5, 1977 letter from Earl Chase, Regional Chief, Contracting and Property Management, to Jack Cushman, Cushman Drilling and Pump Company, Inc. and a September 8, 1989 memorandum from the Chief, Water Rights Branch to Barbara Scott-Brier, Office of the Solicitor, Pacific Northwest Region indicate that the well drilling began June 1, 1977 and the well was accepted as-constructed on July 25, 1977. On April 22, 1991, I called Shelley Sparhawk at CRMO and asked her if they had any additional information on when drilling was completed for this well. Shelley said she would look and send us any information she found. In an April 22, 1991 FAX from Shelley, she indicates that the only information she could find on the completion of the 1977 well was that the water was first tested on June 12, 1977.

In my telephone conversation with Shelley I also asked when drilling of the new well was scheduled to begin. She said she wasn't really sure, but she would find out and let me know. In the FAX sent on April 22, 1991, Shelley indicates that drilling on the new well is tentatively scheduled to begin April 29, 1991.



Craters of the Moon

P.O. Box 29 • Arco, Idaho 83213

Phone (208) 527-3257 • FAX Number (208) 527-3073

FAX transmissions received between 9:00 a.m. and 4:00 p.m. only.

Facsimile Cover Sheet

TO: Mary Hermes DATE: 4/22/91

FROM: Shelley Sparhawk NO. OF PAGES TO FOLLOW: 1

TRANSMISSION: ☐ STANDARD ☐ FINE ☐ HALFTONE

SUBJECT: Well information

MEMO: Attached is a map of new well,
old well, spring diversions
Tentative date for start of drilling
on new well is 4/29/91

The only information we could
find on the 1977 well completion
was the 1st water test was taken
on June 12, 1977.

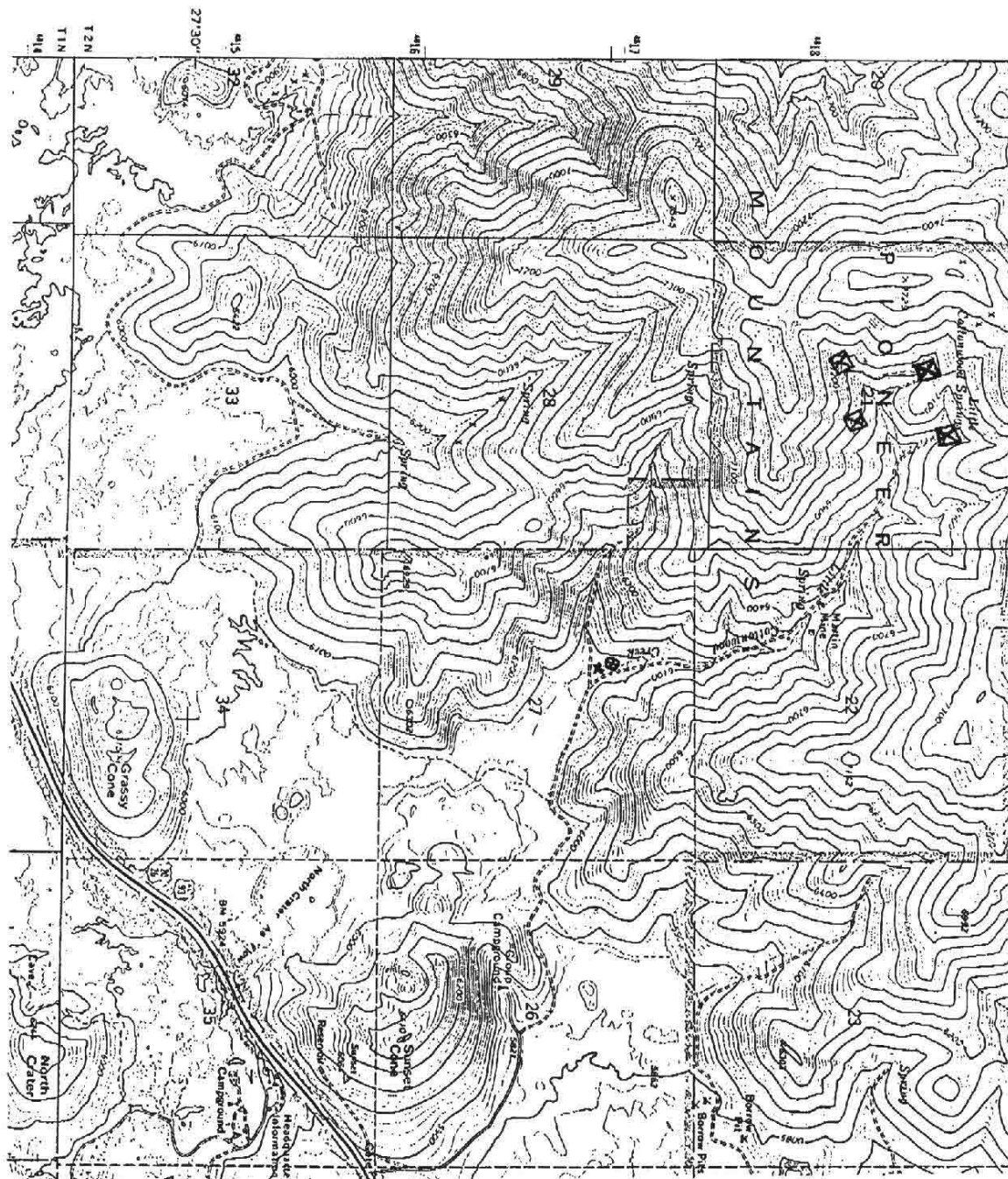
☐ YOUR ACTION IS NEEDED, PLEASE: ☐ REVIEW ☐ APPROVE

☐ YOUR RESPONSE IS NEEDED, PLEASE: ☐ CALL ☐ RE-FAX

☐ PLEASE RESPOND: ☐ ASAP ☐ WHEN CONVENIENT ☐ BY: _____

⊗ = proposed location of new well
X = location of current well

☑ Points of diversion



R E P O R T O F T E L E P H O N E C O N V E R S A T I O N

DATE: April 5, 1991 TIME:2:00 p.m.
PROJECT: CRMO

NPS PERSON ON CALL: Alice E. Johns

[] I RECEIVED A CALL FROM [x] I CALLED

PERSON: Pam
ORGANIZATION: Idaho Dept. of Water Resources
ADDRESS:

TELEPHONE: 208-327-7900

DISCUSSION: I called to verify water rights within CRMO. In Sections 21, 22, 27, and 28 of T2N R24E there are three water rights listed. Water right no.s 34-2381, 34-2254, and 34-2066. 34-2066 is in the name of Thomas Williams. 34-2381 and 34-2254 are in the name of USDI-NPS .

USDI NPS-- Old number 28964 coincides with 34-2381. Old number 16711 coincides with 34-2254. Numbers were reorganized by basin. The first two digits are the basin number. Not sure when it was done. Not that long ago. It would be helpful to use the new numbers, when referring to the water rights.

Thomas H. Williams. Priority is 1908, for 0.36 cfs for 18 acres. Source is Little Cottonwood Cr. and tributary sinks. POD is T2N R24E Sec 22, SE SW. For irrigation and domestic. POU is T2N R24E Sec 22 SE SW for 3 acres and 2N 24E sec 27 NW NE for 15 acres. License incorrectly describes POD and POU, but it is correct in the database.

She will send summary printout to Owen Williams at no charge.

ACTION TO BE TAKEN: Check alien water-right files for info. on the Williams' water right. Check land status map to see if POD's or POU is on NPS land. Check with park staff concerning the existence of this right. Could it be one that we have acquired?

COPIES TO: Williams, Hermes

WR5808NP
(00-26)IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROOF READING REPORT04/05/91 14:01:19
Page 1

Water Right Number - 34-02254

Prefix Translation: WATER RIGHT

Old (D) Number - 16711

+---+ Last Name +---+ First Name +---+ Address +---+

*** C - CURRENT OWNER ***
U.S. DEPT. OF INTERIOR1 - NAT'L. PARK SERVICE
2 - 601 SHELDON BLDG.
3 -
City- SAN FRANCISCO State- CA Zip-
Phone -+---+ Priority Date - - - +---+ Region - - - +---+ Stage - - - +---+ Status - - - +
07/21/1927 15 EASTERN L - LICENSE+---+ Source - - - - - +---+ Tributary - - - - - +
SPRINGS LITTLE COTTONWOOD CREEK

Twn	Rng	Sec	Tract	Lot	Rflg	County	Point of Diversion	Stream Index (Blank if no Index Code)
02N	24E	16	SW SE		(23)	BUTTE		
02N	24E	16	SE SE		(23)	BUTTE	34.1 1.8	0.7
02N	24E	21	SW NE		(23)	BUTTE	34.1 2.0	0.2
02N	24E	21	NE NW		(23)	BUTTE		
02N	24E	21	SE NW		(23)	BUTTE	34.1 2.0	0.3
02N	24E	22	NW NW		(23)	BUTTE	34.1 1.8	0.4

Code	Description	Period From	Period To	Diversion Rate	Diversion Volume
43 - DOMESTIC					0.060

+---+ Total Div. Rate - +---+ Total Div. Volume - +---+ Total Div. Capacity - +---+ Total Consumptive Use - +---+ KW Usage - +
0.060+---+ Place of Use - - - - - +
Twn Rng Sec Tract Lot Acres Code Description County

+---+ Diversion Means -

+---+ Non-Irrigation Use -

+---+ Other Rights for Same Use -

+---+ Remarks - - - - - +
P/U ADMN. SITE CRATERS OF THE MOON NAT'L. MONUMENT.+---+ Old Water Right Numbers - - - - - +
No Old Water Right Numbers found.+---+ Conditions of Approval - - - - - +
No Conditions of Approval found.

Proof Due Date	- 00/00/0000	Field Exam Made	- 00/00/0000	Field Exam Fee	-
Approved/Denied	- 00/00/0000	Protested Date	- 00/00/0000	Swan Falls	-
Proof Made Date	- 00/00/0000	Hearing Date	- 00/00/0000	Temporary Right	- P
Start Work Date	- 00/00/0000	Verified Date	- 03/12/1985	DLE/Carey Act	-
Order Show Cause	- 00/00/0000	Receipt Number	-	Water District	- 34
Licensed Date	- 04/19/1979	Appl Received	- 00/00/0000	Transfer/Amended	-
Decree Date	- 00/00/0000	Microfilm Roll	No -	Presumption Flag	-

WR5808WP
(00-26)IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROOF READING REPORT04/05/91 14:01:22
Page 1

Water Right Number - 34-02381

Prefix Translation: WATER RIGHT

Old (O) Number - 28964

* - - - - Last Name - - - - *

* - First Name - - *

* - - - - - Address - - - - -

*** C - CURRENT OWNER ***
U.S. DEPT. OF INTERIOR1 - NATIONAL PARK SERVICE
2 -
3 -
City- ARCO
Phone - 208-000-0000

State- ID Zip- 83213

* - - Priority Date - - *
08/25/1960* - - Region - - - *
15 EASTERN* - - Stage - - - *
L - LICENSE

* - - Status - - - *

* - - Source - - - - - *
LITTLE COTTONWOOD CREEK
LITTLE COTTONWOOD SPRINGS
UNNAMED STREAM* - - Tributary - - - - - *
SINKS
LITTLE COTTONWOOD CREEK
LITTLE COTTONWOOD CREEK

Twn	Rng	Sec	Tract	Lot	RFlg	County	Point of Diversion	Stream Index (Blank if no Index Code)
02N	24E	21	NW NE			(23) BUTTE	34.1	2.0
02N	24E	21	SW NE			(23) BUTTE	34.1	0.2
02N	24E	21	SE NW			(23) BUTTE	34.1	0.2
02N	24E	21	NW SE			(23) BUTTE	34.1	1.8
02N	24E	27	SW NW			(23) BUTTE	34.1	0.3

Code	Description	Period From	Period To	Water Use	Diversion Rate	Diversion Volume
01 - IRRIGATION					0.200	
43 - DOMESTIC						

Total Div. Rate	Total Div. Volume	Total Div. Capacity	Total Consumptive Use	KW Usage
0.200				

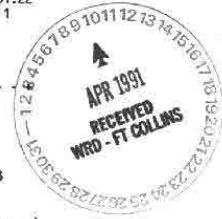
Twn	Rng	Sec	Tract	Lot	Acres	Place of Use Code	Description	County
02N	24E	35	SW NE		2.0	01	IRRIGATION	(23) BUTTE
02N	24E	35	SE NE		15.0	01	IRRIGATION	(23) BUTTE
Total Acres:						17.0		

* - - Diversion Means -

* - - Non-Irrigation Use -

* - - Other Rights for Same Use -

Remarks
2 P/O IN SENW, S21, T2N, R24E. AC. IRR.=17.7.



WR5808NP
(00-26)IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROOF READING REPORT04/05/91 14:01:22
Page 2

Water right number - 34-02381 Prefix Translation: WATER RIGHT

+ - - - - Old Water Right Numbers - - - - -

+ - - - - Old Water Right Numbers - - - - -
No Old Water Right Numbers found.+ - - - - Conditions of Approval - - - - -
No Conditions of Approval found.+ - - - - Decree Plaintiff - - - - + - - - - Decree Defendant - - - - + - - - - Decree Date - - - - +
00/00/0000+ - - - - Comments - - - - -
No Comments Found

+ - - - - Audit Fields - 02/26/85 05/22/88 CONVERT 08/11/89 CURTIS

+ - - - - Water Rights Dates and Flags Area - - - - -

Proof Due Date	- 00/00/0000	Field Exam Made	- 00/00/0000	Field Exam Fee	-
Approved/Denied	- 00/00/0000	Protested Date	- 00/00/0000	Swan Falls	-
Proof Made Date	- 00/00/0000	Hearing Date	- 00/00/0000	Temporary Right	- P
Start Work Date	- 00/00/0000	Verified Date	- 02/26/1985	DLE/Carey Act	-
Order Show Cause	- 00/00/0000	Receipt Number	-	Water District	- 34
Licensed Date	- 04/19/1979	Appl Received	- 00/00/0000	Transfer/Amended	-
Decree Date	- 00/00/0000	Microfilm Roll No	-	Presumption Flag	-

WR5808NP
(00-26)IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROOF READING REPORT04/05/91 14:01:03
Page 1

Water Right Number - 34-02066

Prefix Translation: WATER RIGHT

Old (D) Number - 4133

+ - - - - Last Name - - - - + + - First Name - - + + - - - - - Address - - - - - +

*** C - CURRENT OWNER ***
WILLIAMS

THOMAS H.

1 -

2 -

3 -

City- MARTIN

State- ID Zip-

Phone -

+ - - Priority Date - - +

10/26/1908

+ - - Region - - - +

15 EASTERN

+ - - Stage - - - +

L - LICENSE

+ - - Status - - - +

+ - - Source - - - - - +

LITTLE COTTONWOOD CREEK

+ - - Tributary - - - - - +

SINKS

+ - - Point of Diversion - - - - - +

+ - - Stream Index (Blank if no Index Code)

TwN Rng Sec Tract Lot RFig County

02N 24E 22 SE SW (23) BUTTE

+ - - Code Description Period From Period To Diversion Rate Diversion Volume +

01 - IRRIGATION

43 - DOMESTIC

0.360

+ - Total Div. Rate - + + - Total Div. Volume - + + - Total Div. Capacity - + + - Total Consumptive Use - + + - KW Usage - +

0.360

+ - - Place of Use - - - - - +

TwN Rng Sec Tract Lot Acres Code Description County

02N 24E 22 SE SW 3.0 01 IRRIGATION (23) BUTTE

02N 24E 27 NW NE 15.0 01 IRRIGATION (23) BUTTE

Total Acres: 18.0

+ - - Diversion Means -

+ - - Non-Irrigation Use -

+ - - Other Rights for Same Use -

+ - - Remarks - - - - - +

LIC. INCORRECTLY DESCRIBES P/D AS SESW, SEC. 22, T12N, R24E.
LICENSE INDICATES P/D IS IN BLAINE COUNTY.
LIC. INCORRECTLY DESCRIBES P/U AS NWNE, SEC. 27;
SESW, SEC. 22, T12N, R24E.

+ - - Old Water Right Numbers - - - - - +

No Old Water Right Numbers found.

WR5808NP
(00-26)IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROOF READING REPORT04/05/91 14:01:03
Page 2

Water right number - 34-02066

Prefix Translation: WATER RIGHT

+ - - - - - Conditions of Approval - - - - - +
No Conditions of Approval found.

+ - - - - Decree Plaintiff - - - +

+ - - - - Decree Defendant - - - +

+ - - Decree Date - +
00/00/0000+ - - - - - Comments - - - - - +
No Comments Found

+ - - Audit Fields - 04/23/85 05/22/88 CONVERT

+ - - - - - Water Rights Dates and Flags Area - - - - - +

Proof Due Date	- 00/00/0000	Field Exam Made	- 00/00/0000	Field Exam Fee	-
Approved/Denied	- 00/00/0000	Protested Date	- 00/00/0000	Swan Falls	-
Proof Made Date	- 00/00/0000	Hearing Date	- 00/00/0000	Temporary Right	- P
Start Work Date	- 00/00/0000	Verified Date	- 04/23/1985	DLE/Carey Act	-
Order Show Cause	- 00/00/0000	Receipt Number	-	Water District	- 34
Licensed Date	- 04/19/1979	Appl Received	- 00/00/0000	Transfer/Amended	-
Decree Date	- 00/00/0000	Microfilm Roll No	-	Presumption Flag	-

MISSING:*****
 Little Cottonwood Creek +
 .36 cubic foot per second +
 Irrigation and domestic use +
 October 26, 1908, priority...

S T A T E O F I D A H O
 Water License No. 4133.

WHEREAS, On the 26th day of October, A.D. 1908 THOMAS H. WILLIAMS, of Martin, County of Blaine, State of Idaho, duly made application (No. 5801) to me for a permit to use 1 cubic foot per second of the waters of Little Cottonwood Creek, County of Blaine, State of Idaho, for irrigation and domestic purposes, and

WHEREAS, On the 14th day of November, A.D. 1908, Permit No. 4133 was issued to said applicant for the diversion of said water, and providing for the completion of the works of diversion therein described on or before the 14th day of November A.D. 1910, and for the application to beneficial use of said water on or before the 14th day of November A.D. 1913, and,

WHEREAS, On the 3rd day of January A.D. 1910 THOMAS H. WILLIAMS, the holder of said permit duly made proof of the completion of adequate works for the diversion of 1 cubic foot per second of said waters, as evidenced by my Certificate No. 4133 dated May 28, 1910, confirming the completion of works of sufficient capacity for diverting and conveying to the place of intended use 1 cubic foot per second of the waters of Little Cottonwood Creek, with date of priority of October 26, 1908, and,

WHEREAS, On the 3rd day of January A.D. 1910 THOMAS H. WILLIAMS, the holder of said permit duly made proof of the application to beneficial use of .36 of 1 cubic foot per second of said water:

NOW, THEREFORE, By virtue of authority vested in me by the laws of the State of Idaho, I hereby grant and confirm to THOMAS H. WILLIAMS, of Martin, County of Blaine, State of Idaho, the holder and owner of said Permit No. 4133 a perpetual right, dating from October 26, 1908, to the use of 1 cubic foot per second of the waters of Little Cottonwood Creek, in the County of Blaine and State of Idaho, or so much thereof as may be necessary for the purposes hereinafter mentioned, to be diverted at a point near north end of center of the Southeast quarter of southwest quarter of Section 22, Township 12 North of Range 24 East of the Boise Meridian, and conducted to and upon 15 acres in the Northwest quarter of Northeast quarter of section 27, 3 acres in Southeast quarter of Southwest quarter of section 22, in Township 12 North of Range 24 East of Boise Meridian, for the purpose of irrigation and domestic use, subject, however, to the laws of the State of Idaho applicable to a license for the use of the waters of the State, and subject, also, to the local or community customs, rules and regulations which have for their object the economical use of such water.

WITNESS My hand and the seal of my office at Boise, Idaho, this 28th day of May A.D. Nineteen hundred and ten.

D. C. Martin,
 State Engineer.

2066

September 8, 1989

L54(479)
CRMO/Water Rights

Memorandum

To: Barbara Scott-Brier, Office of the Solicitor,
Pacific Northwest Region

From: Chief, Water Rights Branch

Subject: Your Inquiry Concerning the Date a Well was Drilled in SE1/4 NW1/4
Section 27, T2N, R24E, Butte County, Idaho-Boise Meridian

To address the above-stated inquiry, my staff searched the Water Resources Division general correspondence files and water rights dockets. Based on indirect indications described in the attached Hydrologist's Summary, it is my opinion that the well in the SE1/4 NW1/4 Section 27 was drilled in the summer of 1977. Drilling began June 1, 1977, and the well was accepted as-constructed in August 1977, exact date unknown.

If you have any questions, please call me or Alice Johns at (303) 221-8301 or (303) 221-8304, respectively.

Owen Williams

Attachment

cc: CRMO - Superintendent

FNP:AJOHNS:jr:221-8304:09/08/89:WANG #693

Hydrologist Summary

Date a Well was Drilled in
Craters of the Moon National Monument
in the SE1/4 NW1/4 Section 27, T2N, R24E,
Butte County, Idaho-Boise Meridian

September 8, 1989

The following were searched to ascertain the date a well was drilled in Craters of the Moon National Monument, in the SE 1/4 NW 1/4 Section 27, T2N, R24E, Butte County, Idaho-Boise Meridian:

- Water Rights Branch (WRB) Dockets
- Water Operations Branch (WOB) Resource Files
- Water Resources Division (WRD) L54 Files

In the WRB dockets and the WOB resource files, I found no record of a well in the SE1/4 NW1/4 Section 27. In the WRD L54 files, there is record or indication of at least three wells drilled at this location. These are discussed below.

In a letter dated December 23, 1968, from District Chief, U.S. Geological Survey (USGS), to the Supervisory Hydraulic Engineer, National Park Service, two test wells drilled in the SE1/4 NW1/4 Section 27, during November 6-9, 1968, are described. "Test 1" was drilled to a depth of 34 feet and no saturated material was penetrated. "Test 2" was drilled to a depth of 60 feet, with water 30 feet below the land surface. Both test wells were of small diameter, and, thus, it is presumed that they were not intended as production wells. The USGS theorized that "Test 2" penetrated the maximum thickness of alluvial material, and that a well capable of at least 10 gpm could be constructed at the site of "Test 2". They recommended construction of a 12-inch well at this site to predict the sustained yield obtainable.

In 1977, a contract was awarded to the Jack Cushman Drilling and Pump Company of Blackfoot Idaho to drill a 12-inch well at Craters of the Moon National Monument (CRMO). According to an inter-office memorandum (no date), actual drilling began June 1, 1977. Based on the indirect indications presented below, it is my opinion that the well in the SE1/4 NW1/4 Section 27 is the above-described well drilled in June of 1977.

- I. Indirect indications that well drilled in 1977 is located in the SE1/4 NW1/4 Section 27.
 - A. Included in the 1977 "Composition of Cost Report" for the contract to drill this well is a figure which shows the approximate location at which the well is to be drilled. The location is in the SE1/4 NW1/4 Section 27, at or very near the location of "Test 2."
 - B. There is no indication in the files that the well was drilled at a site other than that indicated in this figure.

C. Regional Hydrologist Don Barrett stated in his June 7, 1977, trip report, that he accompanied the Regional Archaeologist to the site, and the archaeologist failed to locate any archaeological remains. During this same trip, Mr. Barrett accompanied the contractor to the proposed site, and the contractor indicated he would "have no problem getting to the spot."

D. In his June 1, 1977, trip report, the Regional Archaeologist, Bohannon, reported on his inspection of the well site. He describes the site as follows:

"The well site is located in the northern portion of the Monument, near the juncture of Little Cottonwood Creek, and a small unnamed tributary, which joins Little Cottonwood Creek from the west. The YCC Camp will be located about 200 yards west of the well site, near the point where the unnamed creek leaves its narrow draw and enters on the alluvial fan."

This description is consistent with the SE1/4 NW 1/4 Section 27, at or very near the location of "Text 2."

E. In a July 25, 1977, memorandum to the Regional Hydrologist, the Superintendent, CRMO, stated the following:

"Craters of the Moon National Monument finds the test well drilled at the monument this summer to be of a satisfactory nature and therefore wishes to let it be known that the well will be accepted by the park."

F. Between the time the well was drilled and was accepted as-constructed in August 1977, the water quality was tested, indicating that the NPS probably intended to use the well for a potable water supply.

Alice E. Johns
Alice E. Johns, Hydrologist

09 / 08 / 89
Date

C.O.R., PWR-PSW,
Mr. Barrett

D52
(PNR)AC

August 5, 1977

LETTER OF ACCEPTANCE

AND

REQUEST FOR RELEASE OF CLAIMS

Jack Cushman Drilling
and Pump Company, Inc.
1405 South Broadway
Blackfoot, Idaho 83221

Gentlemen:

Final inspection of the work required under your Contract No. CX-9000-7-0039 to drill an exploratory test water well in the Little Cottonwood Creek Area, Craters of the Moon National Monument was conducted by the Contracting Officer's Representative. This inspection revealed that the work has been accomplished in accordance with the plans and specifications and is hereby accepted as of July 25, 1977.

In order that the final payment may be made, you are requested to execute the original and all copies of the enclosed Release of Claims. You should keep one copy for your files and return the original to this Office in the enclosed envelope.

If you have any claims against the Government arising under and by virtue of this contract, they should be excepted and described in sufficient detail to identify them, and the amounts of each should be stated separately.

If you have no claims, you should have the words "No Exceptions" typed in the space immediately following the last sentence reading in part, "under or by virtue of said contract except:"

Final payment on your contract will not be made until this release has been signed by you, including execution of the exception item, and furnished to this Office.

The estimated total amount of the contract was \$14,445.00 and the final estimate (payment) will be in the amount of \$10,315.00.

Sincerely yours,

(SGD) EARL E. CHASE

Earl E. Chase
Regional Chief, Contracting and
Property Management Division

Enclosures

cc:
Superintendent, Craters of the Moon
C.O.R., PNR-PSW, Mr. Barrett

Stanley L. Ponce

SP
pnl

August 18, 1986

LS4 (479)
RNR/CRMO Water Rights

Memorandum

To: Dave Watts
Assistant Solicitor
Parks and Recreation

From: S. Ponce, Chief
Water Rights Branch
Water Resources Division

Subject: Review of draft response to State of Idaho's request for further information about the NPS claim for water rights at CRMO.

Attached are: (1) a proposed response to Idaho concerning the above-mentioned subject; (2) copies of the letters from Deputy Attorney General Clive Strong (July 14, 1986) and David Barber (July 20, 1986) to me; and (3) a copy of our original claims.

I would appreciate your review of this proposed language. Although several of the questions are legal in nature, I took a shot at answering them. I clearly understand this action is outside my area of responsibility; however, knowing how busy you and your staff are, I took this action to assist in our effort. Add whatever changes you feel are appropriate.

When I get your response, I will transfer the information from our office to the Regional Director, PNW. The package I send to him will have a draft letter from him to Vollmer through your office transmitting our response. Since Vollmer is the chief negotiator for this issue, I feel he should submit the response to the State.

Any ideas, suggestions, or whatever about the draft or method of transmitting this information would be welcomed. I would appreciate your timely attention to this matter.

Stanley L. Ponce *by pnl*

Stanley L. Ponce

Attachments

cc: Lucke - WRD

FNP:SPonce:pnl:8/18/86:221-5341:30818pon.mm2

DRAFT

PROPOSED RESPONSE TO STATE OF IDAHO OFFICIALS CONCERNING THE
UNITED STATES' WATER RIGHTS CLAIM FOR CRATERS OF THE MOON
NATIONAL MONUMENT

We have reviewed your letter of July 14, 1986, to Dr. Stanley L. Ponce, requesting additional information about the United States' water rights claim for Craters of the Moon National Monument (CRMO). As chief negotiator for the United States in the matter of the Snake River negotiation in Idaho, it is my responsibility to coordinate this response. The following is our response to each of your specific questions.

Question 1.

The claim as presented does not contain a statement of certain elements of a water right. The claim does not state a season of use, a specific place of use in a legal description, a specific point of diversion in a legal description for consumptive uses, a designation of a reach of stream in a legal description for instream flows, or the annual volume of consumptive use. Determination of these elements is necessary to assure the protection of the CRMO and is required for entry of a decree.

Response to Question 1.

- a. The period of use for the claimed reserved water rights is January 1 - December 31. The period of use for the state appropriative right (Certificate #28964) is January 1 - December 31.
- b. As you are aware, a federal reserved water right arises by implication upon the federal withdrawal of lands from the public domain and their reservation for specific purposes, such as the establishment of a national monument. (Cappaert v. United States, 426 U.S. 128, 138

DRAFT

(1976).) The scope of this right, therefore, may be applied within the boundaries of the reserved lands in said monument. Although we originally supplied you with copies of the proclamations establishing the unit and enlarging the boundaries (Exhibits CRMO #2, CRMO #3, and CRMO #4 and CRMO #5, each of which provides a legal description of the lands in question, and maps clearly illustrating the location of such lands specific to each withdrawal (Exhibits CRMO #2, CRMO #3, and most notably CRMO #6) we offer the following to further clarify this point for your use.

The legal description for the state appropriative right is specified in Exhibit CRMO #7 which is as follows: NW1/4 SE1/4, SE1/4 NW1/4 (2), NW1/4 NE1/4, SW1/4 NE1/4, Section 21 in the SW1/4 NW1/4, Section 27, Twp. 2N, R. 24E, B.M. Butte County, Idaho.

- c. The legal descriptions for the existing consumptive uses at CRMO are as follows.
- d. The reaches of streams for which instream flows are claimed are all free-flowing streams located on lands where the reserved water right doctrine applies. The legal description of said lands has been presented in item l.b., above.
- e. With respect to reserved water rights, the United States has claimed 26.0 AF/yr of water from either surface or ground water sources for consumptive uses in support of its needs related to the park purposes.

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From an administrative standpoint, the United States is willing to provide the State of Idaho with an updated tabulation of fixed diversions within the federal reservation administered by the National Park Service at reasonable intervals, such as every five years.

Question 2.

The State of Idaho needs further explanation of the legal basis for including wildlife within the authorized purposes of creating the CRM0. None of the relevant Presidential Proclamations make any mention of wildlife, and thus, the factual situation at the CRM0 appears to differ significantly from the facts in Cappaert v. United States, 426 U.S. 128 (1976).

Response to Question 2.

The National Park Service's 1916 Organic Act provides for a centralized administration and contains the statement of fundamental purpose.

"The service thus established shall promote and regulate the use of ... national parks, monuments, and reservations hereinafter specified ... by such means and measures as conform to the fundamental purpose of said parks, monuments, and reservations, which purpose is to conserve the scenery, and natural and historic objects and wildlife therein and to provide for the enjoyment of the same in such manner and by such means as will leave them unimpaired for the enjoyment of future generations" (emphasis added). (Section 1, Act of August 25, 1916, 39 Stat. 535, as amended, 16 U.S.C. Section 1 (1970)).

These fundamental purposes apply to the various components of the National Park System with a priority date as of the establishment of the unit. (Act of August 18, 1970, 84 Stat. 826, 16 U.S.C. Section 1c (1970)). This statement

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of fundamental purpose encompasses a broad variety of consumptive and non-consumptive reserved water rights necessary to conserve scenic, natural, historic and biotic, including wildlife, elements and to provide for sustained public enjoyment thereof.

Wildlife is surprisingly abundant within the monument. The most common include mule deer, coyote, marmot, ground squirrel, chipmunk, mountain bluebird, Clark's nutcracker, Lewis woodpecker, and black-billed magpie.

Question 3.

The State of Idaho needs further explanation of how a reserved water right will preserve the scenery and natural and historic objects at the CRMO.

Response to Question 3.

The National Park Service is mandated by Congress to conserve the scenery and natural and historic objects and the wildlife therein and to provide for the enjoyment of the same in such manner and by such means as will leave them unimpaired for the enjoyment of future generations.

Water is scarce at CRMO. However, that which is present is vitally important to the maintenance of the natural ecosystem, (including riparian vegetation and channel maintenance) and biological communities within the park. Further, the water holes present in the park are considered to be unique natural features which have historical significance. Any departure from the natural condition will impair these delicate systems.

Question 4.

The State of Idaho needs further explanation of the NPS' position regarding the relationship between claimed reserved water rights and appropriative water rights. The State of Idaho understands that the NPS is claiming the entire

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flow of Little Cottonwood Creek, etc., as a reserved water right. If that is the case, then no beneficial use has occurred by virtue of the later in time and junior in right licensed water right No. 28964 and the State of Idaho should revoke the license. If, on the other hand, the NPS does not claim the entire flow of Little Cottonwood Creek, etc., as a reserved water right, then the NPS should state the specific quantity claimed under the reserved water right claim. The State of Idaho could then analyze both the appropriative and reserved water right claims.

Response to Question 4.

In making its claim, it was the intention of the United States to secure the broadest rights to the water to which it is entitled under law. Idaho water law follows the doctrine of prior appropriation. The federal reserved water right is senior to the junior licensed water right No. 28964. Prior to this adjudication the federal reserved water right remained unquantified. Until this right is adjudicated, there is no legal basis for revoking this junior right on the grounds that no beneficial use has occurred.

Question 5.

The State of Idaho needs further explanation of the NPS' claim to ground water sources. Could the NPS please state for each claimed purpose of use the specific ground water source claimed for that purpose.

Response to Question 5.

Except as provided in Section D.3) of the original claim, the United States claims the right to that amount of ground water required to maintain CRMO for the purposes described in II.A. of the original claim. With respect to quantifiable present and future administrative uses (consumptive), it is the right of the United States to divert this water from either surface or ground

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water sources. If this information is not detailed enough for the State's analysis procedures, please inform us of the nature of the analysis and the specific data required so we may be of greater assistance.

We appreciate your continued interest in the National Park Service's claims. We look forward to reaching a settlement on this issue in the near future. Please contact Dr. Ponce at (303) 221-5341, or myself, if you require further clarification. We look forward to hearing from you.

Sincerely,



STATE OF IDAHO

OFFICE OF THE ATTORNEY GENERAL

BOISE 83720

JIM JONES
ATTORNEY GENERAL

TELEPHONE
(208) 334-2400

July 30, 1986

Mr. Stanley L. Ponce
National Park Service
U.S. Department of the Interior
Federal Building, Room 343
301 South Howes St.
Fort Collins, Colorado 80521

Re: Letter to the National Park Service, U.S. Department of
the Interior, dated July 14, 1986

Dear Mr. Ponce:

Enclosed is the original of the July 14, 1986 letter from
this office to the National Park Service which was sent to the
wrong address. The State of Idaho looks forward to a response
from the National Park Service to our letter.

Sincerely,

A handwritten signature in cursive script, reading "David J. Barber", is written over the typed name.

David J. Barber
Deputy Attorney General
Natural Resources Division

DJB:paw
Enclosure



STATE OF IDAHO

OFFICE OF THE ATTORNEY GENERAL
BOISE 83720

JIM JONES
ATTORNEY GENERAL

TELEPHONE
(208) 334-2400

July 14, 1986

Mr. Stanley L. Ponce
U.S. Department of the Interior
Weston Building, Room 1920
2001 6th Avenue
Seattle, Washington 98121

Re: Claim of the National Park Service, U.S. Department
of the Interior, for Reserved and Appropriative Water
Rights at the Craters of the Moon National Monument

Dear Mr. Ponce:

The State of Idaho is very appreciative of the effort the National Park Service expended in preparing its claim for reserved and appropriative water rights at the Craters of the Moon National Monument (CMNM). After reviewing the claim, however, the State has identified three areas in which additional information is needed in order for the State to complete its analysis of the claim. These areas are as follows:

1. The claim as presented does not contain a statement of certain elements of a water right. The claim does not state a season of use, a specific place of use in a legal description, a specific point of diversion in a legal description for consumptive uses, a designation of a reach of stream in a legal description for instream flows, or the annual volume of consumptive use. Determination of these elements is necessary to assure the protection of the CMNM and is required for entry of a decree.
2. The State of Idaho needs further explanation of the legal basis for including wildlife within the authorized purposes of creating the CMNM. None of the relevant Presidential Proclamations make any mention of wildlife, and thus, the factual situation at the CMNM appears to differ significantly

Mr. Stanley L. Ponce
July 14, 1986
Page 2

from the facts in Cappaert v. United States, 426 U.S. 128 (1976).

3. The State of Idaho needs further explanation of how a reserved water right will preserve the scenery and natural and historic objects at the CMNM.
4. The State of Idaho needs further explanation of the NPS' position regarding the relationship between claimed reserved water rights and appropriative water rights. The State of Idaho understands that the NPS is claiming the entire flow of Little Cottonwood Creek, etc. as a reserved water right. If that is the case, then no beneficial use has occurred by virtue of the later in time and junior in right licensed water right No. 28964 and the State of Idaho should revoke the license. If on the other hand the NPS does not claim the entire flow of Little Cottonwood Creek, etc. as a reserved water right, then the NPS should state the specific quantity claimed under the reserved water right claim. The State of Idaho could then analyze both the appropriative and reserved water right claims.
5. The State of Idaho needs further explanation of the NPS' claim to ground water sources. Could the NPS please state for each claimed purpose of use the specific ground water source claimed for that purpose.

A response to these questions will assist the State of Idaho in understanding the NPS claim and should assure that we will reach an agreement that accommodates all interests. Please contact me at the above address or at (208) 334-2400 if I may be of assistance in the processing of this request or if you need further clarification. I look forward to hearing from you.

Sincerely,



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

CJS:paw

cc: Peter Monson
Gene Gray
Bill Lanting
David Shaw

IN THE MATTER OF THE CLAIM OF THE UNITED STATES OF AMERICA, NATIONAL PARK SERVICE, CRATERS OF THE MOON NATIONAL MONUMENT FOR RESERVED AND APPROPRIATED WATER RIGHTS WITHIN THE STATE OF IDAHO

I. Name and Address of Applicant:

United States of America
c/o National Park Service
Pacific Northwest Regional Office
Westin Building - Room 1920
2001 Sixth Avenue
Seattle, WA 98121

II. The United States of America claims reserved water rights on those portions of Craters of the Moon National Monument described in Exhibit CRMO #6 for the purposes and at the locations described below.

- A. Purpose - To conserve the scenery and the natural and historic objects and the wild life therein and to provide for the enjoyment of the same in such manner and by such means as will leave them unimpaired for the enjoyment of future generations (16 U.S.C. 1, 39 Stat. 535, Exhibit CRMO #1); to preserve the features of the scientific, ecological, scenic, educational and general interest identified in Presidential Proclamations No. 1694, May 2, 1924 (Exhibit CRMO #2); No. 1843, July 23, 1928 (Exhibit CRMO #3); No. 1916, July 9, 1930 (Exhibit CRMO #4); and No. 3506, November 19, 1962 (Exhibit CRMO #5); and to preserve for the exclusive use of Craters of the Moon National Monument the specific water sources identified in and withdrawn by those Proclamations.
- B. Sources - All surface and ground water sources including streams, springs, seeps, and confined and unconfined aquifers within those portions of Craters of the Moon National Monument which were reserved from the public domain.
- C. Dates of Priority - For each portion of Craters of the Moon National Monument reserved from the public domain, the date of priority is that date upon which such reservation was made, to wit: May 2, 1924 for those portions reserved by Presidential Proclamation No. 1694 (43 Stat. 1947, Exhibit CRMO #2), July 23, 1928 for those portions reserved by Presidential Proclamation No. 1843 (45 Stat. 2959, Exhibit CRMO #3), July 9, 1930 for those portions reserved by Presidential Proclamation No. 1916 (46 Stat. 3029, Exhibit CRMO #4) and November 19, 1962 for those portions reserved by Presidential Proclamation No. 3506 (77 Stat. 960, Exhibit #5). The above described reserved lands and associated dates of priority are delineated on Exhibit CRMO #6.

D. Amount of Water Reserved

- 1) Streams, springs, and seeps (non-consumptive). The United States of America claims, except as provided in subparagraphs 3) and 4) below, the right to maintain all streams, springs, and seeps which occur within those portions of Craters of the Moon National Monument which were reserved from the public domain, at their natural levels of flow, including the entire yield of the springs specifically withdrawn by Presidential Proclamations No. 1843 (Exhibit CRMO #3) and No. 1916 (Exhibit CRMO #4), subject to valid existing water rights having priority dates earlier than those listed in II.C. above.
- 2) Ground water (non-consumptive). Except as provided in subparagraphs 3) and 4) below, the United States of America claims the right to that amount of ground water required to maintain Craters of the Moon National Monument for the purposes described in II.A. above. It is not possible to quantify or describe the amount of ground water that may be so required. However, nothing in this claim shall bar the United States from bringing an action in any court of competent jurisdiction to protect Craters of the Moon National Monument from ground water withdrawals detrimental to the purposes described in II.A. above.
- 3) Quantifiable present and future administrative uses (consumptive). The United States of America claims the right to divert and use 26.0 AF/annum from surface and ground water sources for picnic areas, visitor centers, concessions and other visitor use areas; for park administration facilities, shop, maintenance and storage facilities, ranger stations, entrance stations, visitor contact stations, employee residences, and attendant facilities; construction of roads and trails; and revegetation activities necessary to maintain (or return) watersheds at (or to) their natural condition; for watering lawns surrounding park buildings and structures, and other public use areas to offset the impact of heavy use; and for waste water treatment facilities.
- 4) Non-quantifiable administrative uses (consumptive). The United States of America claims the right to divert and use non-quantifiable amounts of water for controlling and suppressing wildfire and structural fires.

III. The United States of America claims water under Idaho State Law for beneficial purposes in Craters of the Moon National Monument from the following ground and surface water sources (Copy of License and Certificate #28964 is attached hereto, Exhibit CRMO #7):

- A. Little Cottonwood Creek.
- B. Little Cottonwood Springs.
- C. Unnamed Stream.

IV. In making the foregoing claims it is the intention of the United States to secure the broadest rights to the water to which it is entitled under the law, and its failure properly to denominate the basis for any claims is not intended to constitute a waiver of any water rights.

V. Notarized Statement:

I, Stanley L. Ponce, Chief, Water Rights Branch - Water Resources Division, on behalf of the United States of America, National Park Service, the claimant in this claim, do hereby certify under penalty of perjury, that the information contained and statements made herein are to the best of my knowledge and belief true, correct, and complete.

Stanley L. Ponce

Deb Davenport 2-26-86
Notary Public

My Commission Expires: 3-4-89

SUBCHAPTER I--NATIONAL PARK
SERVICE

§ 1. Service created; director; other employees

There is created in the Department of the Interior a service to be called the National Park Service, which shall be under the charge of a director. The Secretary of the Interior shall appoint the director, and there shall also be in said service such subordinate officers, clerks, and employees as may be appropriated for by Congress. The service thus established shall promote and regulate the use of the Federal areas known as national parks, monuments, and reservations hereinafter specified, except such as are under the jurisdiction of the Secretary of the Army, as provided by law, by such means and measures as conform to the fundamental purpose of the said parks, monuments, and reservations, which purpose is to conserve the scenery and the natural and historic objects and the wild life therein and to provide for the enjoyment of the same in such manner and by such means as will leave them unimpaired for the enjoyment of future generations.

(Aug. 25, 1916, ch. 408, § 1, 39 Stat. 535; Mar. 4, 1923, ch. 285, 42 Stat. 1488; Mar. 3, 1925, ch. 462, 43 Stat. 1176; Ex. Ord. No. 6166, § 2, June 10, 1933; Mar. 2, 1934, ch. 38, § 1, 48 Stat. 389.)

EXHIBIT CRMO #1
39 STAT. 535

22. Craters of the Moon National Monument

	Page
Establishment: Proclamation (No. 1694) of May 2, 1924.....	161
Boundaries enlarged: Proclamation (No. 1843) of July 23, 1923.....	162
Boundaries enlarged: Proclamation (No. 1916) of July 9, 1930.....	164
Excluding certain land from monument: Proclamation (No. 2499) of July 13, 1941.....	165

BY THE PRESIDENT OF THE UNITED STATES OF AMERICA

A PROCLAMATION

[No. 1694—May 2, 1924—41 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.

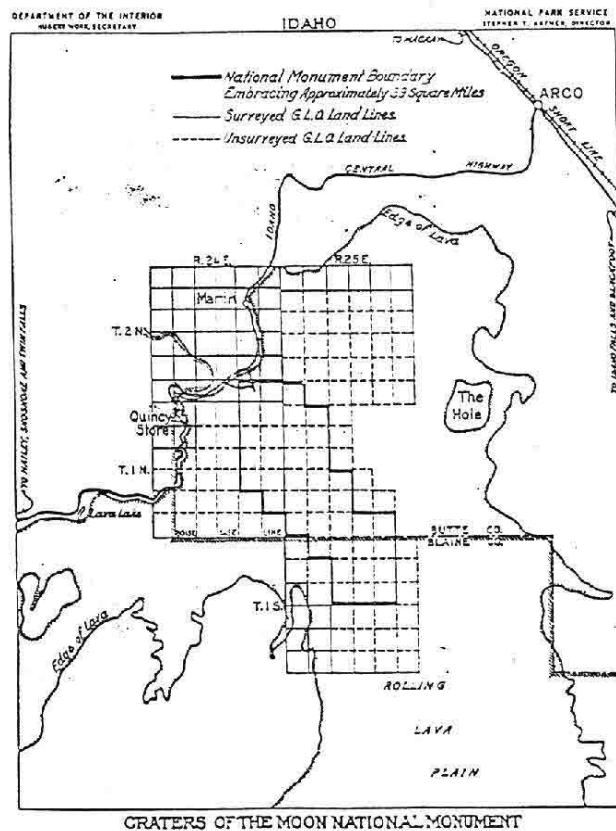
DONE in the City of Washington this 2d day of May in the year of our Lord one thousand nine hundred and twenty-four and of the [SEAL] Independence of the United States of America the one hundred and forty-eighth.

CALVIN COOLIDGE.

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

EXHIBIT CRMO #2
43 STAT. 1947

162 VIII. NATIONAL MONUMENTS—CRATERS OF THE MOON



BY THE PRESIDENT OF THE UNITED STATES OF AMERICA

A PROCLAMATION

[No. 1341—July 21, 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., 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.

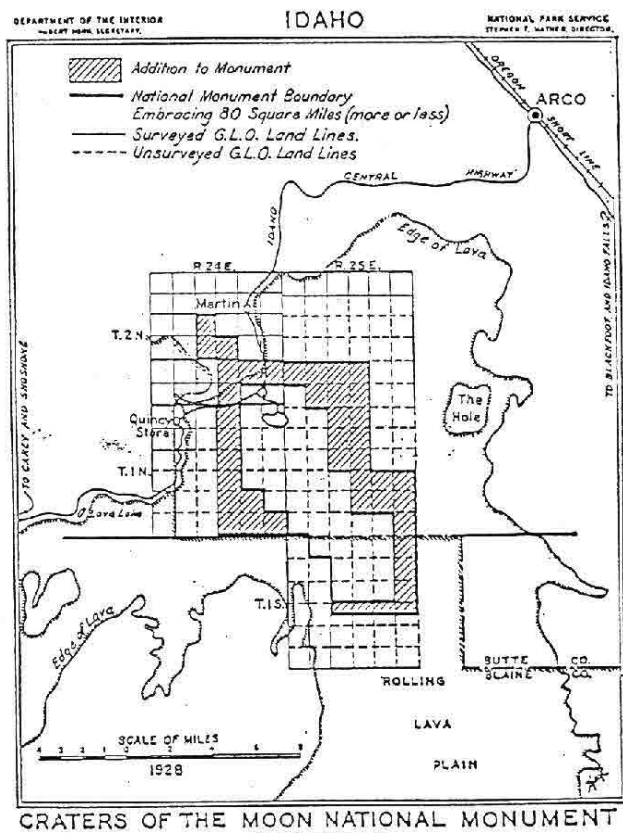
DONE at the City of Washington this 23 day of July in the year of our Lord one thousand nine hundred and twenty-eight and of the [SEAL] Independence of the United States of America the one hundred and fifty-third.

CALVIN COOLIDGE.

By the President:

FRANK B. KELLOGG,
Secretary of State.

EXHIBIT CRM# 3
45 STAT. 2959



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. 535), 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-ninth.

HERBERT HOOVER.

By the President:

HENRY L. STIMSON,
Secretary of State.

EXHIBIT CRMO #4
46 STAT. 3029

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. 1664 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 term 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. 431), 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- $\frac{1}{2}$

All of section 4, 5, 8, 9, 17, 18 and 19

sec. 20, W- $\frac{1}{2}$

sec. 20, NW- $\frac{1}{4}$ and W- $\frac{1}{4}$ E- $\frac{1}{4}$

sec. 20, NW- $\frac{1}{4}$ and W- $\frac{1}{4}$ NE- $\frac{1}{4}$

sec. 30, NE- $\frac{1}{4}$

comprising 5,360 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.

EXHIBIT CRMO #5
77 STAT. 960



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE

Craters of the Moon National Monument

P. O. Box 29

Arco, Idaho 83213

June 29, 1981

S7217(PNR-PW)

Memorandum

To: Regional Director, Pacific Northwest Region
Attn: Don Barrett, Regional Hydrologist

From: Superintendent, Craters of the Moon National Monument

Subject: Well Operation

Enclosed are graphs depicting the operation of the new well at Craters of the Moon as you requested. The measuring device you supplied the park has been returned by separate mail.

The charts indicate the gallons per minute that the pump is running at, the water level lowering and the time frame in which it takes the pump to run a cycle. The static water level measured out to be 34.1 feet with the pump shutting off at the 63.7 foot level. Records show that in October, 1980, the static level was 33 feet and in June, 1977, when the first test was made, it was 38 feet.

One of the graphs shows that at 50 gpm the pump will run for approximately 15 minutes. Previous tests demonstrated that the well area will refill (not as fully as for an initial test) in two minutes and then run at 50 gpm again for a six minute period. It will pretty much keep up at this rate, but there is a good chance that the pump will overheat and shut off prematurely.

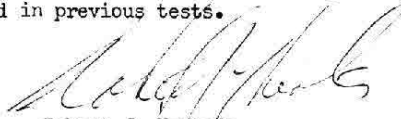
A second graph titled Chart #1 shows the operation at 30 gpm. In this particular test the pump operated for 45 minutes before shutting off early--probably from overheating. Previous tests show that the pump would have continued for approximately another 30 minutes before hitting the low water point and shutting down. You will notice on the graph that the static level was 58.1. Apparently, once an initial pumping cycle has been run, the pump will turn back on at a lower static level.

The third graph which is titled Chart #2 again depicts an operation at 30 gpm. This test was run because of the failure of the first test at 30 gpm to run its full course. Again, you will see a different static water level to start with. We did not wait until the well recovered again,



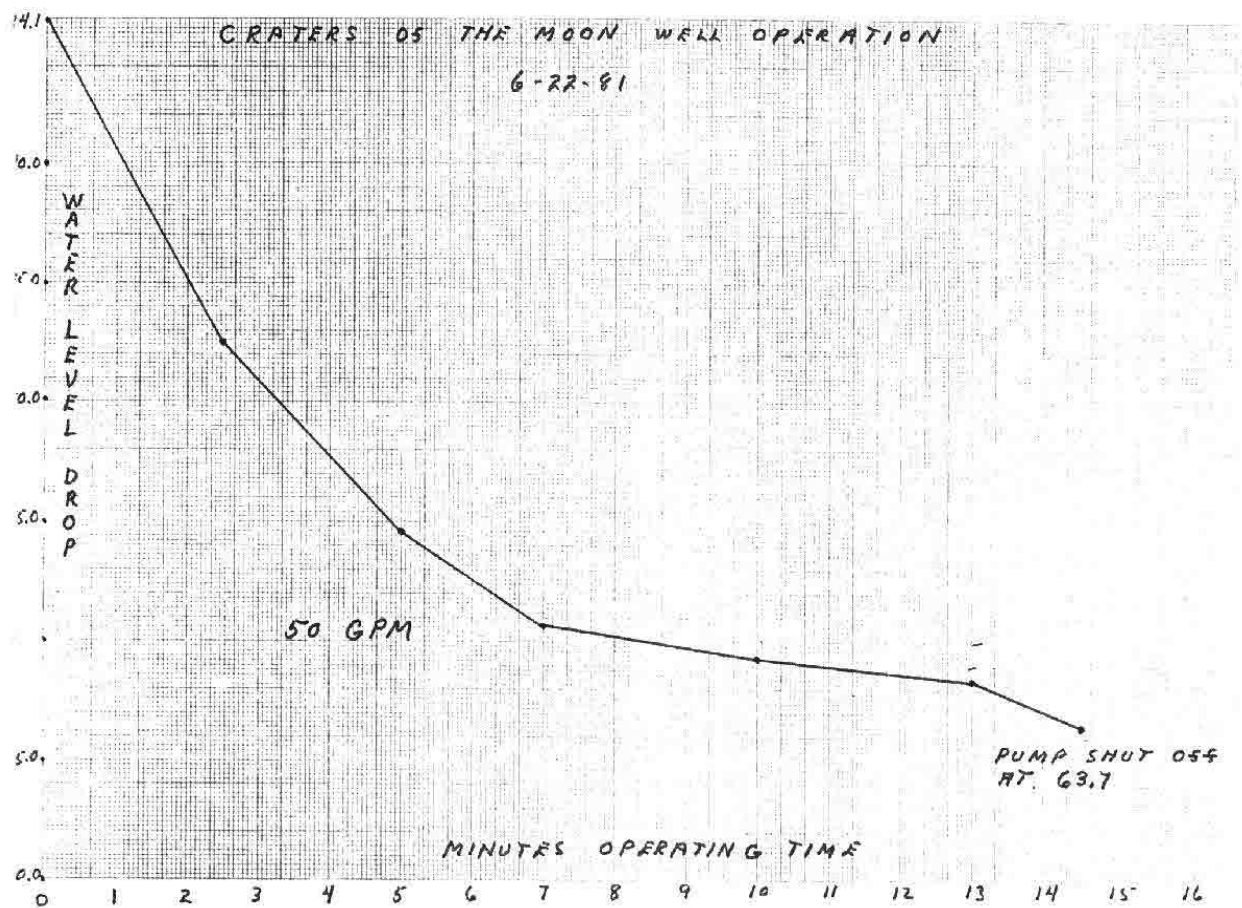
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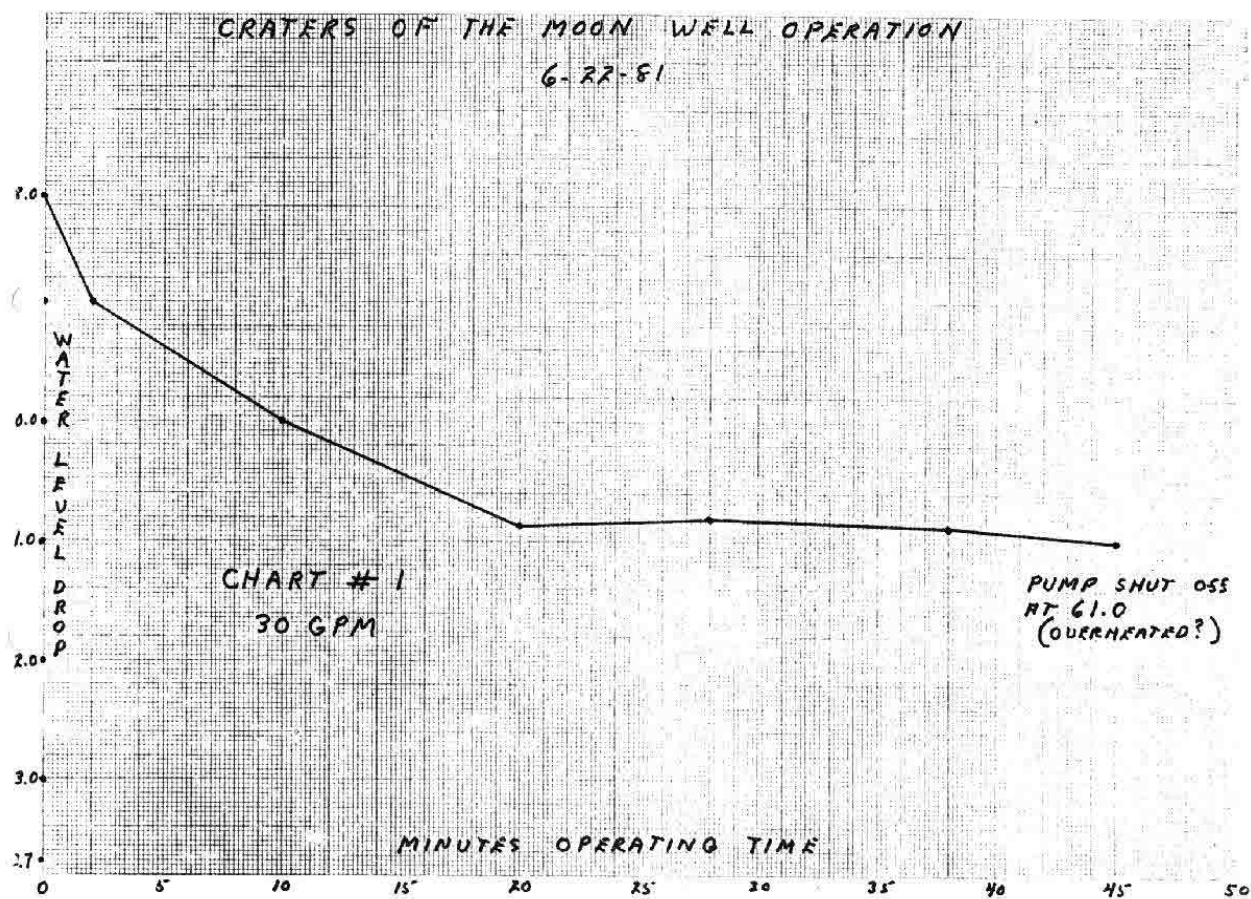
but simply pushed the reset relay switch to start the pump again. This time it did pump to the lower level of 63.7 (which agrees with the 50 gpm pumping test) in a 47 minute period. Had the static water level been in the neighborhood of 58.0, the pump would have run for approximately 75 minutes as it demonstrated in previous tests.

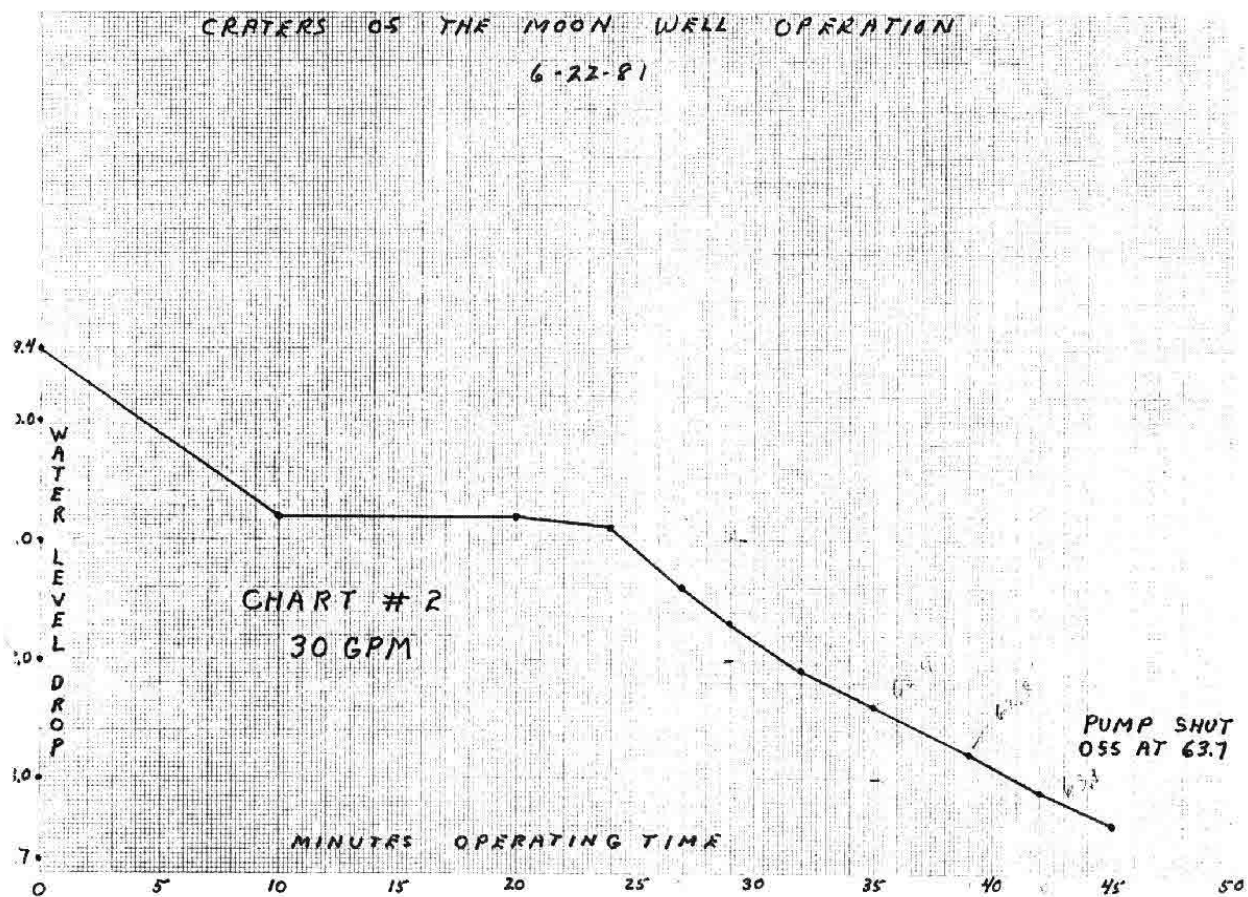


Robert J. Hentges

Enclosures







PW

L54(PNR)PW

November 10, 1980

Memorandum

To: Associate Regional Director, Planning and Resource
Preservation, Pacific Northwest Region

From: Hydrologist, Pacific Northwest Region

Subject: Trip report to Craters of the Moon National Monument
October 27 through October 29

Purpose of Trip: To attend final inspection of contract No.
CX9000-9-9000, Well Activation, H.Q. CRMQ, package 128.

Others Attending Inspection: Don Zieman, DSC; Karl Von Rosenberg,
DSC; Kramer Chapman, DSC; Robert Martin, DSC; James Harrison, CRMQ;
and Alva Harrison, contractor.

Accomplishments: The inspection team assembled at the park
headquarters at 9 a.m. October 28 and then proceeded to the well
site in Little Cottonwood Creek. While the inspection of the elec-
trical and plumbing equipment was taking place, I measured the
depth to the static water level in the well. It was 33' below the
top of the casing. This corresponds to 38' in June, 1977, when the
well was drilled.

About 10 a.m., the pump was turned on and run at the maximum yield
(57 gpm) for 6 minutes.

During this test, the water level declined rapidly to 60' below the
top of the casing (into the casing perforations (59' to 64')). When
the water level was at about 6' 2", the pump was shut off manually
and the water level allowed to recover to 34'.

Several short pump tests were made during the morning to test the
equipment.

In the afternoon after the well had recovered to 34', a pump test
was run at 30 gpm. The time/water level graph of this test con-
firmed that the well had lost considerable capacity since it was
drilled in 1977. The comparable curve made in 1977 at 54.5 gpm

2

shows even more clearly that the stabilized yield of the well has declined to less than 30 gpm. This test lasted 18 hours (from 3 p.m., 10/28/80, to 9 p.m., 10/29/80).

At the conclusion of the test, 9:30 a.m., 10/29/80, the water level had declined to 61.5'. The water was clear. The yield was checked and found to be 27 gpm. Water samples were taken for chemical analysis and bacteriological quality. These samples were hand delivered by me to the State laboratory in Boise that afternoon.

Before the pump was turned off, the throttling valve was opened fully to let the pump yield about 50 gpm until it was automatically shut off by the underwater low level disconnect switch. For about 1/2 hour, the pump was allowed to cycle between the high and low water level switches. During this period, we noted that the discharge water had become turbid due to the higher pumping rate. Using the weighted end of the electric water level probe, I was able to stir up the accumulated rust and silt at the bottom of the well. This was evidenced by the discharge stream becoming very turbid or rusty.

During the pumping tests on 10/28 and 10/29, I instructed CRMO maintenance supervisor James Harrison in the techniques of taking water level and elapse time (since pump on) data and plotting it on the multicycle log paper. The importance and interpretation of the time versus water level plotting curve was explained to Mr. Harrison so he will be able to evaluate the well performance on his own in the future.

Conclusions and Recommendations: The time/drawdown data taken during the pump tests indicate a severe loss of capacity in the well. The problem is probably with the well because, unless there is a decline in the regional static water level, the hydrology of the aquifer will remain unchanged year after year.

The probable cause of the loss of capacity in the well is an accumulation of silt and clay in the bottom of the well. Since the well was completed with an open ended casing at 70', any silt or accumulated fine debris would seal off the flow of water through the open end of the casing, letting in only water from the casing perforations which are cut from 59'-64'. These perforations are believed to account for less than one-half the yield of the well, based on initial testing when the well was drilled.

Since the accumulated silt has probably compacted in place, some means of mechanical agitation is necessary to break it up and disperse into the water so it can be pumped out.

3

In a discussion with Mr. Harrison, I outlined a method for breaking up this silt by using a water jet. The water jet would be aimed at the bottom of the well through a 1/2-inch or smaller hose with a nozzle attached. A weighted rod or stiffening device would be attached to the bottom section of the hose to set it to the bottom of the well and keep it in place when the jet was on. If this method does not work because it cannot be lowered into the well, a contractor will need to be hired to remove the pump and clean out the well. Since the in-house method is very inexpensive, it should be tried first.

After the well has set all winter, a pump test should be run to clean out the silt and check the capacity of the well, using the water level versus elapsed time data plotted on the multicycle log paper. This technique will quickly establish whether the well has been restored to full capacity.

/s/

Donald C. Barrett

cc:

Manager, Denver Service Center

Attention: Assistant Manager, Pacific Northwest/Western Team
Superintendent, Craters of the Moon

DCBarrett:jh 11/7/80



MS45/CRMO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
Room 365, Federal Building
550 West Fort Street
Boise, Idaho 83702

December 23, 1968

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Mr. William E. Fields
Supervisory Hydraulic Engineer
San Francisco Planning & Service Center
National Park Service
450 Golden Gate Avenue, Box 36025
San Francisco, California 94102

Dear Mr. Fields:

Subject: Results of Test Drilling at Craters of the Moon National Monument, Idaho.

The U.S. Geological Survey has previously supplied to the National Park Service two brief administrative reports^{1/} describing various aspects of the hydrology of the Little Cottonwood Creek basin, Craters of the Moon National Monument, Idaho. No subsurface data were then available for inclusion in either of these reports. Both however, recommended that test holes and observation wells be drilled to obtain lithologic and water-level data needed to determine if a ground-water supply is available in the basin.

This letter describes subsurface data obtained by drilling two test holes in the Little Cottonwood Creek basin during November 6-9, 1968, with a U.S. Geological Survey power auger. It also gives conclusions regarding the feasibility of constructing a supply well in the basin.

The location of the two auger holes are shown on the attached map. The logs for both holes and other pertinent data are given below:

^{1/} Walker, E. H., 1967, Memorandum of Water Supply for proposed new Campground, Craters of the Moon National Monument, Idaho.

Bell, R. R., 1968, Memorandum on a Water Supply for Craters of the Moon National Monument, Idaho - 1968.

COPY TO <u>WASO WP (2 COPIES)</u> DATE <u>2/3/69</u>	
FOR YOUR	☒ INFORMATION ☐ ACTION
OFFICE OF LAND & WATER RIGHTS, SSC	

Drillers Logs and Well Construction Data, Craters of the Moon National Monument, Idaho ^{2/}

Test 1

<u>Depth</u>	<u>Thickness</u>	<u>Materials</u>
0-3	3	Soil and brown cinders with small amounts of gravel
3-13	10	Cinders, dark brown, small amounts of gravel
13-32	19	Cinders, brown, thin gravel layers less than 1 foot thick
32-34	2	Gravel and boulders, bedrock (lava) at 34 feet

No saturated material was penetrated in the test hole.

Test 2

<u>Depth</u>	<u>Thickness</u>	<u>Materials</u>
0-18	18	Cinders, brown, clayey with a few thin gravel layers
18-25	7	Gravel, medium size (up to 1 inch) with a few thin clayey cinder beds
25-28	3	Boulders and large gravel
28-44	16	Clay, silt and cinders, thin gravel layers
44-48	4	Gravel, coarse
48-58	10	Mixed gravel, cinders, and clay
58-60	2	Boulders, gravel
60	-	Bedrock?

Casing installed: Length: 42 ft. Diameter: 1½ inch; Material: Steel
 Screen: Depth: 40-42 ft; Diameter: 2½ inch; Type: 40 gage wire mesh
 Water level: 30 feet below land surface, December 17, 1968

The logs indicate that the surficial lava flow just downvalley from test site 1 extends northwestward in the subsurface at least as far as the site, where it was encountered at a depth of 34 feet. The thickness of this flow and the thickness of any saturated alluvial materials that may underlie the flow are not known. Because of these unknowns, and because no saturated material was found at this site, it is recommended that no further exploration for a production well at test site 1 be made at this time.

^{2/} Data collected by A. H. Harder, U.S. Geological Survey, Boise, Idaho

At test site 2, projection of the slope of the nearby valley walls downward implies that the deepest part of the valley underlies the drill site at a depth of about 60-70 feet. (See attached hydrologic section.) The log for test site 2 taken in conjunction with the above projection suggests that about the maximum thickness of alluvial material was penetrated. During augering of this hole, none of the cuttings returned to the surface appeared to represent saturated material. This may be because (1) the cuttings returned did not accurately represent the material penetrated; or (2) none of the material above the lowermost gravel penetrated at a depth of 58-60 ft. contains water. After the hole was augered, and while it was being backfilled, it was noted that the hole did contain water. Therefore, a 1½ inch screen, 2 ft. long, was set at a depth of 40-42 feet. The water level in this well was at about 30 feet below land surface on December 17, 1968. This suggests that either all the alluvial material below 30 feet is saturated or that the lowermost gravel occurring at a depth of 58-60 feet contains water under artesian pressure.

It is quite probable that the water-level in this well will vary seasonally. Most likely the water level will be highest in the spring when snowmelt is greatest and lowest in the late summer or fall when evapotranspiration rates are high and precipitation is light. However, the seasonal changes in water-levels are not now known. It would, therefore, be desirable to establish the annual change in water level at this site as an aid in determining the interval to be gravel packed and or screened during design and construction of any proposed supply well and to help in evaluating what the sustained yield of such a well might be.

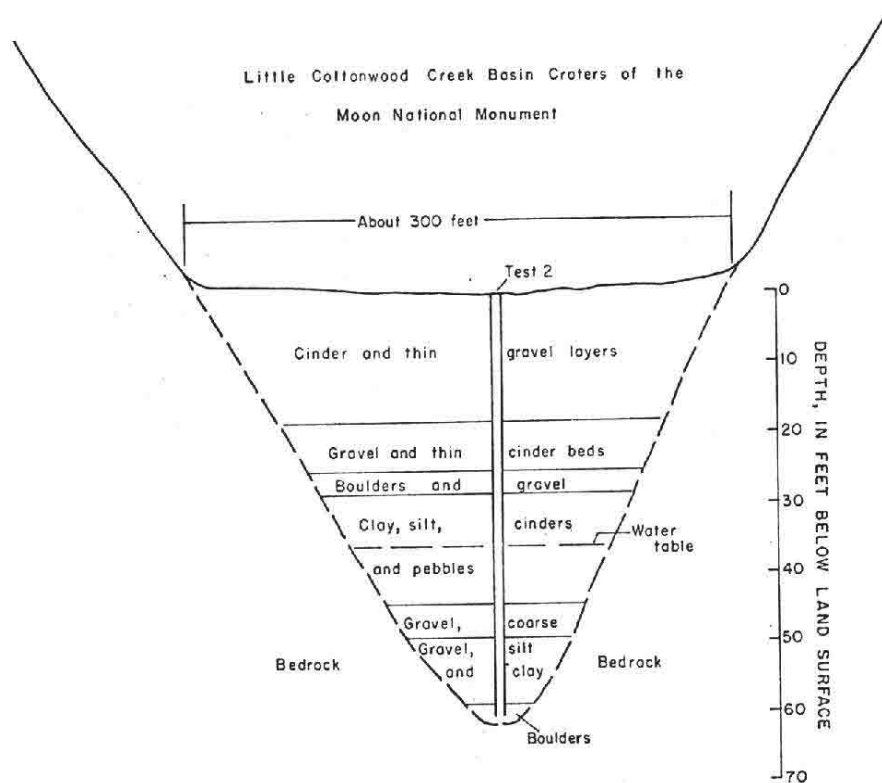
It is possible that a well capable of at least 10 gpm can be constructed at site 2. But to predict the sustained yield obtainable, it would be necessary to first construct and test a large diameter, 12 inch well at the site. The well should be bottomed in bedrock at an estimated depth of 60-70 feet and should be gravel packed to assure that the maximum thickness of saturated alluvium only is exposed to the gravel envelope. Drilling should be accomplished using a cable tool type rig so that an accurate log of the material penetrated can be obtained. Following construction of the well, a pumping test to better define the yield capability of the aquifer should be made.

We will be pleased to receive your comments regarding either the work described or the conclusions reached in the above discussion.

Sincerely yours,



Alfred H. Harder
for W. L. Burnham
District Chief



Diagrammatic hydrologic section through test 2,
Little Cottonwood Creek basin, Craters of the
Moon National Monument, Idaho.



FORM 10-23
(Rev. Oct. 61)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

BRANCH OF WATER RESOURCES
(Park or Office)

USGS - MEMORANDUM ON A WATER SUPPLY
FOR CRATERS OF THE MOON NATIONAL
MONUMENT, IDAHO, 1968 BY REX R. BELL



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PLEASE RETURN THIS FILE PROMPTLY TO

E. W. REED, CHIEF, BRANCH OF WATER RESOURCES

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UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
Room 365, Federal Building
550 West Fort Street
Boise, Idaho 83702

MEMORANDUM

November 21, 1967

TO : William E. Fields, Supervisory Hydraulic Engineer
National Park Service
San Francisco, California

FROM : District Chief, WRD
Boise, Idaho

SUBJECT: PROGRAMS AND PLANS - National Park Service, Discussions of water
supply needs at National Park Service facilities
in Idaho.

On November 16, 1967, Mr. William Fields of the National Park Service met with representatives of the Geological Survey at the district office in Boise to discuss current and long range problems and potential program related to the development of water supply facilities at National Park installations at both the Craters of the Moon National Monument and the Nezperce National Historical Sites in Idaho. Present at the discussions were Mr. William Fields of the National Park Service, and W. L. Burnham, W. I. Travis, and R. F. Norvitch of the Geological Survey. The following is a summary of our understanding of the topics discussed and the conclusions reached during these discussions:

Craters of the Moon National Monument--During the 1967 fiscal year the Geological Survey made a reconnaissance investigation of water supply potential at a new campground site in Cottonwood Canyon northwest of the present monument headquarters. As a result of this investigation, it was determined that an adequate supply for this new campground could possibly be obtained from a well or wells in the upper end of the alluvial valley where the campground is to be built. To test this possibility a test well site was selected and recommended near the extreme northern end of the alluvial fill.

During the 1968 fiscal year the Geological Survey will make measurements of flow from the springs that are now supplying water for the headquarters area. The first of these measurements has already been made in the late fall and the second will be made in late winter so that the lowest flow of the year can be determined. A third set of measurements will be made in late spring after the spring melt so that the maximum flow can be determined. Following the spring measurement a memorandum report will be made to the Park Service containing the details of the measurements, and recommendations for collection and maintenance of continuing records on the flow of these springs.

At the meeting it was decided that as soon as funds become available the Park Service would plan to go forward with the test drilling as recommended in the foregoing report. It is planned that the drilling will be completed during the 1968 fiscal year and that the Geological Survey will be requested to provide advisory service during this test drilling and during the development of specifications for the drilling. Funds in the amount of approximately \$1,500 would be set aside for the Geological Survey participation.

The need for additional study of the potential for ground water development in the alluvial part of the valley near the new campground site was discussed during the meeting. The main objective of this study would be to better determine the inflow and outflow relationships within the alluvium and the interchange of ground water between the alluvial materials and the cindery volcanics immediately to the south. As a part of this study, additional test drilling sites would be selected and recommendations made for the amount of drilling required. Also, the need for further studies of water-supply potential within the volcanic rocks near the headquarters area would be considered. It was agreed that as funds become available approximately \$1,000 would be set aside by the Park Service for these studies and it was hoped that the work could be completed within the 1968 fiscal year.

In discussing the long range needs for water resources development within the monument, it was concluded that more and more visitor use is to be expected in the southern part of the monument where many features are now visited only infrequently by way of foot trails. There seems to be a likelihood that either road or additional trail facilities will be constructed in the future to features toward the southern end of the monument where a water supply is now unavailable. Future studies within the monument should include investigations of all potential water sources in this southern part, and determination should be made for inclusion within long range plans of the need for deep drilling to reach the water table within the Snake Plain aquifer versus the possibility of obtaining an adequate supply for infrequent visitor use from the cinder cones or extensive cindery deposits within the flow sequences.

Nezperce National Historical Sites--During the 1967 fiscal year the Geological Survey reported to the National Park Service on water supply potentials for three sites within the Nezperce Indian Reservation area that are potentially to be developed as historical sites. These included the Spalding Park area, East Kamiah area, and the White Bird area. At Spalding Park, it was determined that existing wells, plus pumping from surface water, probably was adequate to supply the foreseeable needs for that particular site. At East Kamiah an existing well on the property under consideration for purchase appears to be adequate to meet the needs for visitor center facilities. The White Bird area contains several problems related to the attainment of an adequate water supply. The first problem relates to the inability to determine at this time just where the visitor facility will be placed, and therefore it is not possible to estimate the actual source of supply. Among the possible sources would be small springs, a well in the landslide and lakebed sequence downslope from the new highway, and the municipal supply for the town of White Bird. The latter two would require extensive pipe lines and a considerable lift to the probable visitor center location. Of the three potential sources, the municipal supply for the town of White Bird appears to be the most feasible. This report was completed during the 1967 fiscal year and provided to the Park Service.

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MEMORANDUM REPORT

on

WATER SUPPLY
for
CRATERS OF THE MOON N.M.; IDAHO
and
LETTER REPORT
on
TEST DRILLING AT CRATERS OF THE MOON

by

Rex R. Bell &
Alfred H. Harder
USGS Water Resources Div.

1968

MEMORANDUM ON A WATER SUPPLY FOR CRATERS OF THE MOON

NATIONAL MONUMENT, IDAHO - 1968

Introduction

A memorandum report describing briefly the geohydrology of the Little Cottonwood Creek basin and recommending a location for a test well in the Craters of the Moon National Monument was provided the National Park Service in April 1967 by the U.S. Geological Survey. However, because it was felt that more specific data were needed prior to actual development of a water supply in the basin, additional work was undertaken by the Survey at the request of the Park Service.

The purpose of this report is to describe the work accomplished in the Little Cottonwood Creek basin during the period September 1967 to June 1968. Included are: (1) measurements made of flow from springs and in streams; (2) estimates of average annual recharge to the alluvium in the basin; (3) results obtained from chemical analyses of water samples collected; and (4) recommendation of two sites for test drilling. The brief generalized description of the geography, geology, and hydrology given in the attached April 1967 report should be referred to prior to reading this report.

Measurement of Spring flows and Streamflows

The measurements listed below give the flow at selected times of the four springs presently being used as a water supply, and the flow of the two streams (Little Cottonwood and unnamed - see attached map) in Little Cottonwood basin.

Discharge Measurements - Little Cottonwood basin

Craters of the Moon National Monument, Idaho

Date	Discharge					
	Unnamed Creek		Little Cottonwood Creek			
	gpm	acre-ft/yr	gpm	acre-ft/yr		
September 14, 1967	37	60	28	45		
March 11, 1968	59	95	78	126		
May 24, 1968	85	137	170	275		
Little Cottonwood Springs						
	No. 1		No. 2 & 3		No. 3 & 4	
	gpm	ac-ft/yr	gpm	ac-ft/yr	gpm	ac-ft/yr
September 14, 1967	16	26	23	37	12	19
March 11, 1968	8	13	24	39	12	19
May 24, 1968	30	48	30	48	12	19

The September 1967 measurements are indicative of the total water supply available at a time of near peak use (Labor Day weekend) in the Monument. The May 1968 measurements were made at or near a time of peak flow. However, because a generally light snowpack occurred during the preceding winter, the flows given probably are below the average peak flow experienced in this area. Minimum flows usually occur in March.

immediately prior to the time of spring snowmelt. Unfortunately, snowmelt occurred unusually early in 1968 so that the March measurements made do not indicate minimum flows. Despite these climatic effects, the measurements made are indicative of the water supply available to the Little Cottonwood basin, and they were used in estimating the quantity of water available for ground-water recharge.

Estimation of Average Annual Ground-Water Recharge

An estimate of the average annual recharge to ground water from streamflow in the area was made as follows: The average annual surface runoff from that part of Little Cottonwood basin above the stream measuring sites was estimated by correlating the combined measured flow in the two streams plus the piped outflow from Little Cottonwood Springs with the flow in Antelope Creek, a gaged stream located about 12 miles to the north. On this basis, the average annual surface runoff, from the 1.3 square mile area above the measuring sites, was estimated to be 355 acre-feet per year or 273 acre-feet per square mile. Using these figures, the average annual quantity of surface water available for ground-water recharge to the alluvium in Little Cottonwood basin (2.1 sq. miles) is estimated to be about 575 acre-feet per year or 360 gpm (gallons per minute). This is a lesser quantity than was assumed in the previous report. If the present quantity of spring flow, about 60 gpm, continues to be piped out of the basin, then the average quantity available for recharge must be reduced by this amount (60 gpm) to 300 gpm. There also is a small but unknown amount of subsurface flow entering the alluvium where it borders bedrock.

As is shown on the map, streamflow measurements were made upstream from the contact between granitic rocks and alluvium. Even during periods of high flow, the water in the stream disappeared into the alluvium within a distance of about 100 feet below the contact, whenever observed by the author. If that condition prevails at all times, then the conclusion is justified that all calculated streamflow is available for recharge. The question of whether the water is wholly or in part retained in the alluvium, or whether it percolates to the deep, regional water table is unresolved. ★

Quality of Water Sources

Chemical analyses of water samples taken from Little Cottonwood Springs and Little Cottonwood Creek indicate that the water is moderately hard and has a low dissolved-solids content. (See chemical analysis table.) None of the concentrations measured exceed the limits recommended by the U.S. Public Health Service for public water supplies.

Chemical Analysis of Water

(Analytical results in milligrams per liter unless otherwise indicated)

	Springs 1, 2, 3	Spring 4	Little Cottonwood Creek	Maximum concentration recommended by USPHS for public water supplies ¹
Date collected	March 1, 1968	March 1, 1968	May 24, 1968	
Water temp. (°C)	4	4	-	-
Silica (SiO ₂)	7.4	8.6	12	-
Calcium (ca)	29.0	29.0	35	-
Magnesium (Mg)	2.9	3.4	5.0	-
Sodium (Na)	2.4	2.7	4.2	-
Potassium (K)	.9	1.3	1.3	-
Bicarbonate (HCO ₃)	94.0	90.0	122	-
Carbonate (CO ₃)	0	0	0	-
Sulfate (SO ₄)	4.4	9.6	12	250
Chloride (Cl)	4.0	3.0	4.0	250
Fluoride (F)	.1	.2	.1	1.5
Nitrate (NO ₃)	4.9	6.3	1.2	45
Boron (B)	.03	.02	.00	-
Dissolved Solids	96.0	108.0	148	500
Residue on evapo- ration at 180°C				
Hardness as CaCO ₃	84.0	86.0	108	-
Specific conductance (microhohms at 25°C)	176	185	225	-
pH units	7.8	7.8	7.9	-
Color units	5	5	0	15

¹ U.S. Public Health Service, 1962, Drinking water standards, 1962: U.S. Public Health Service
Publication 956, 61 p.

Recommendations

One or more test wells should be drilled to depths of about 100 feet to evaluate the hydrogeologic conditions of the proposed ground-water source. In the initial memorandum report of April 1967, a test well was recommended for the lower end of the valley of Little Cottonwood Creek (point B on the map). However, if the proposed campground is not located in this basin, the related problem of contamination may not be of concern. Under these conditions, an alternate test site location farther down-valley at site A is proposed. This new location should make available a thicker section of alluvial materials and should enable interception of a larger part of the recharge being contributed to the basin.

The major unknown factor concerning the location of a successful production well is the lack of knowledge of the subsurface hydrogeology. The surface contact between the lava of the Snake River Group and the alluvium is shown on the map. This contact does not indicate the subsurface extent of the lava. It is quite possible that the lava extends beneath the alluvium northward at a shallow depth to the lower parts of both stream valleys and past test site A. If this is so, a well constructed in the valley of Little Cottonwood Creek at site B could penetrate a greater thickness of saturated alluvium than the proposed test well at site A and thus be a better location for a supply well.

Surface observations of the area indicate that there should be a considerable amount of water available in the alluvium at an economically feasible pumping depth. However, it is possible that the streamflow seeping into the valley alluvium percolates directly down through the alluvium to the regional water table which is in the Snake Plain aquifer and is greater than 1,000 feet below the land surface. Whether the alluvium has the characteristics necessary to retain in storage the required quantity of water is uncertain. The pre-existing surface drainage may have been dammed by the lava flows in the lower part of the valley causing ponding. Such ponding would have been conducive to deposition of layers or beds of fine-grained sediments (silt or clay) in the valley fill. These layers could prevent or at least retard the downward movement of water in the alluvium. Test wells would indicate whether or not such layers are present and if there is enough ground water in storage to provide a perennial water supply for the Monument. If possible, both proposed test wells (A and B) should be drilled and pumping tests made as an aid in planning future development in the basin.

Memorandum on Water Supply for proposed new Campground,
Craters of the Moon National Monument, Idaho

On November 30, 1966, Eugene Walker of the Water Resources Division, U.S. Geological Survey, made a reconnaissance of the proposed new campground at the Craters of the Moon National Monument, with the purpose of locating a well for water supply. Mr. Walker was accompanied by Superintendent Paul Fritz and Ranger Martin Denham. Mr. Fritz pointed out the proposed site.

The proposed site is on the floor of a meadow just below the junction of the valleys of Little Cottonwood Creek and the unnamed creek immediately to the west. This site lies in an embayment in the mountain-front, about 1½ miles northwest of the Monument Headquarters and the present campground.

The meadow is enclosed on the northeast and southwest by mountain slopes, and extends for a short distance up the valley of Little Cottonwood Creek.

The meadow is covered with tall grass, indicating a relatively wet soil much of the year. A few scattered clumps of willows and aspen on the meadow and its margins also testify to the presence of moisture shallow depth. The adjoining dry hill slopes are vegetated with brush and grass.

Present water supply for the Monument and campground

The Headquarters and present campground are at present adequately supplied with water, via a pipeline and storage tank, from four springs the Little Cottonwood Springs - located at an elevation of about 7,000 feet in the upper part of the basin of Little Cottonwood Creek. These springs, numbered 1 to 4, have been developed and boxed in, with pipes leading to the main pipeline.

The flow of these springs is reported (data from National Park Service, measurements by Lynn Spalding, Engineer) to have been 48 gpm in 1957, 70 gpm in 1958, and 86 gpm in 1960. The season of the year when the measurements were made is not known.

Proposed Development

The proposed new campground in the mountain-front meadow offers more space than can be conveniently developed on the naked lava where the present campground is located; it will be more protected from the wind, and it will give opportunities for hiking and nature-watching in the valleys of the mountain front. The Monument boundary includes all but a small part of the drainage basin of Little Cottonwood Creek and the smaller drainage to the west.

The National Park Service wishes to develop a water supply for this campground from a well, which will be less subject to possible contamination than the present springs.

Geology and Hydrology

The mountain slopes that border the meadow and form the basins of Little Cottonwood Creek and the creek to the west, are underlain by a granite porphyry that shows some primary brecciation. The only openings in this bedrock are joints and cracks that probably grow fewer and tighter within a few tens of feet below the surface.

The valley floors and meadow are underlain by gravel brought down from the mountains. This gravel is pervious, as shown by the fact that no water was flowing across the meadow on November 30, although both the tributary streams were flowing about 20 gpm or more not far above the meadow.

A flow of young lava of the Snake River Group has spread into the mountain-front embayment and the rough outcrops of this lava form the down-valley limits of the meadow and proposed campground. It is quite possible that lava may extend farther north, beneath the surface, perhaps to the head of the meadow.

A well would have to be located above the campground, to avoid contamination arising from occupation of the camp. The logical location for a well would be in the valley of Little Cottonwood Creek, which is wide enough to offer the prospect of finding a reasonable thickness of water-bearing alluvium, and which drains a much larger area with correspondingly larger yield of water than the smaller creek to the west.

Water yield of Little Cottonwood Creek Basin

The basin of Little Cottonwood Creek above the meadow and proposed campground has an area of about 1.5 square miles, or 950 acres. Assuming, from data on gaged streams in this part of Idaho, a water yield of about 1 foot per acre, the total yield of the basin might average about 950 acre-feet a year, or about 590 gpm if delivered at an even rate. The late summer flow from the basin, though much smaller than the average, would suffice for all needs of the Monument and the proposed new campground. The flow of the springs high up in the basin of the creek supplies all present needs, although it represents only a part, perhaps half, of the total yield of the basin.

Development of Ground Water

A large part of the underflow down the valley of Little Cottonwood Creek could be developed by one or two wells located on the valley floor a hundred yards above the proposed campground. At this place the valley is about 100 yards wide. The projection of the slopes of the valley wall (about 25 degrees) suggests that the deepest part of the valley may be about 70 feet below the surface of the ground.

The valley is probably underlain by fairly coarse-grained alluvium which would be water-yielding. Water might also occur in fractures in the upper few feet of bedrock. Thickness of water-saturated material would depend on the depth to water, which may be no more than 20 feet. Therefore, as much as 50 feet of water-saturated material may exist beneath the surface at the site of the proposed well. The foregoing estimates are based on little evidence, and one or more test wells should be drilled to test the geological and hydrological conditions before planning a production well. It is especially important that at least one season of water-level information be gained before the final decision is made to construct a production well. If the annual recharge to this alluvium is not retained within the alluvium throughout the summer season, the well may not yield sufficient quantities near the end of the year when need is greatest.

Recommendations

The total flow of the four springs that are now developed for water supply should be measured during the summer of 1967, to determine the yield, now little known.

Two test wells should be drilled as soon as possible in the flat-bottomed valley of Little Cottonwood Creek, about 100 yards above the limits of the proposed campground. The locations of these wells can be spotted by a WRD geologist. Two holes drilled in a line across the valley should suffice to locate the deepest part of the valley and the thickest section of alluvium. Temporary casing and screening should be installed in the wells and pumping tests should be run in both wells to provide data on the hydrologic properties of the alluvium. Pumping rates for these tests need not exceed 100 or 200 gallons per minute.



ms/CEMO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES DIVISION
Room 365, Federal Building
550 West Fort Street
Boise, Idaho 83702

December 23, 1968

Mr. William E. Fields
Supervisory Hydraulic Engineer
San Francisco Planning & Service Center
National Park Service
450 Golden Gate Avenue, Box 36025
San Francisco, California 94102

Dear Mr. Fields:

Subject: Results of Test Drilling at Craters of the Moon National Monument, Idaho.

The U.S. Geological Survey has previously supplied to the National Park Service two brief administrative reports¹ describing various aspects of the hydrology of the Little Cottonwood Creek basin, Craters of the Moon National Monument, Idaho. No subsurface data were then available for inclusion in either of these reports. Both however, recommended that test holes and observation wells be drilled to obtain lithologic and water-level data needed to determine if a ground-water supply is available in the basin.

This letter describes subsurface data obtained by drilling two test holes in the Little Cottonwood Creek basin during November 6-9, 1968, with a U.S. Geological Survey power auger. It also gives conclusions regarding the feasibility of constructing a supply well in the basin.

The location of the two auger holes are shown on the attached map. The logs for both holes and other pertinent data are given below:

1/ Walker, E. H., 1967, Memorandum of Water Supply for proposed new Campground, Craters of the Moon National Monument, Idaho.

Bell, R. R., 1968, Memorandum on a Water Supply for Craters of the Moon National Monument, Idaho - 1968.

COPY TO WASO HQ (2 COPIES) DATE 2/3/49
 FOR YOUR ☒ INFORMATION ☐ ACTION
 OFFICE OF LAND & WATER RIGHTS, SSC *File Copy*

Drillers Logs and Well Construction Data, Craters of the Moon National Monument, Idaho ^{2/}

Test 1

<u>Depth</u>	<u>Thickness</u>	<u>Materials</u>
0-3	3	Soil and brown cinders with small amounts of gravel
3-13	10	Cinders, dark brown, small amounts of gravel
13-32	19	Cinders, brown, thin gravel layers less than 1 foot thick
32-34	2	Gravel and boulders, bedrock (lava) at 34 feet

No saturated material was penetrated in the test hole.

Test 2

<u>Depth</u>	<u>Thickness</u>	<u>Materials</u>
0-18	18	Cinders, brown, clayey with a few thin gravel layers
18-25	7	Gravel, medium size (up to 1 inch) with a few thin clayey cinder beds
25-28	3	Boulders and large gravel
28-44	16	Clay, silt and cinders, thin gravel layers
44-48	4	Gravel, coarse
48-58	10	Mixed gravel, cinders, and clay
58-60	2	Boulders, gravel
60	-	Bedrock?

Casing installed: Length: 42 ft. Diameter: 1½ inch; Material: Steel

Screen: Depth: 40-42 ft; Diameter: 2½ inch; Type: 40 gage wire mesh

Water level: 30 feet below land surface, December 17, 1968

The logs indicate that the surficial lava flow just downvalley from test site 1 extends northwestward in the subsurface at least as far as the site, where it was encountered at a depth of 34 feet. The thickness of this flow and the thickness of any saturated alluvial materials that may underlie the flow are not known. Because of these unknowns, and because no saturated material was found at this site, it is recommended that no further exploration for a production well at test site 1 be made at this time.

^{2/} Data collected by A. H. Harder, U.S. Geological Survey, Boise, Idaho

At test site 2, projection of the slope of the nearby valley walls downward implies that the deepest part of the valley underlies the drill site at a depth of about 60-70 feet. (See attached hydrologic section.) The log for test site 2 taken in conjunction with the above projection suggests that about the maximum thickness of alluvial material was penetrated. During augering of this hole, none of the cuttings returned to the surface appeared to represent saturated material. This may be because (1) the cuttings returned did not accurately represent the material penetrated; or (2) none of the material above the lowermost gravel penetrated at a depth of 58-60 ft. contains water. After the hole was augered, and while it was being backfilled, it was noted that the hole did contain water. Therefore, a 1½ inch screen, 2 ft. long, was set at a depth of 40-42 feet. The water level in this well was at about 30 feet below land surface on December 17, 1968. This suggests that either all the alluvial material below 30 feet is saturated or that the lowermost gravel occurring at a depth of 58-60 feet contains water under artesian pressure.

It is quite probable that the water-level in this well will vary seasonally. Most likely the water level will be highest in the spring when snowmelt is greatest and lowest in the late summer or fall when evapotranspiration rates are high and precipitation is light. However, the seasonal changes in water-levels are not now known. It would, therefore, be desirable to establish the annual change in water level at this site as an aid in determining the interval to be gravel packed and or screened during design and construction of any proposed supply well and to help in evaluating what the sustained yield of such a well might be.

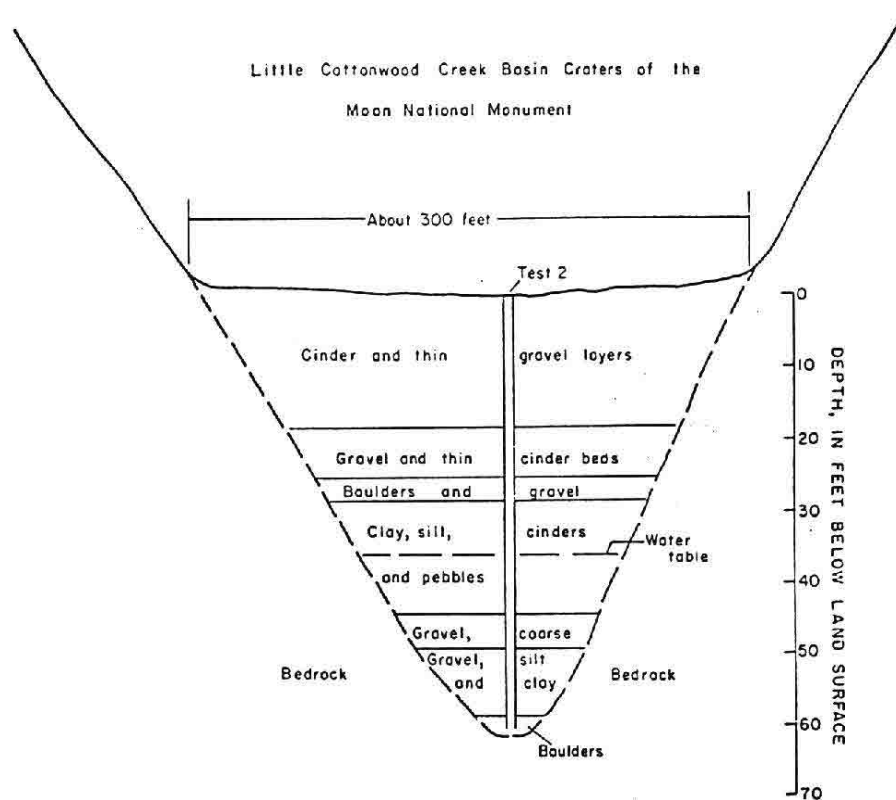
It is possible that a well capable of at least 10 gpm can be constructed at site 2. But to predict the sustained yield obtainable, it would be necessary to first construct and test a large diameter, 12 inch well at the site. The well should be bottomed in bedrock at an estimated depth of 60-70 feet and should be gravel packed to assure that the maximum thickness of saturated alluvium only is exposed to the gravel envelope. Drilling should be accomplished using a cable tool type rig so that an accurate log of the material penetrated can be obtained. Following construction of the well, a pumping test to better define the yield capability of the aquifer should be made.

We will be pleased to receive your comments regarding either the work described or the conclusions reached in the above discussion.

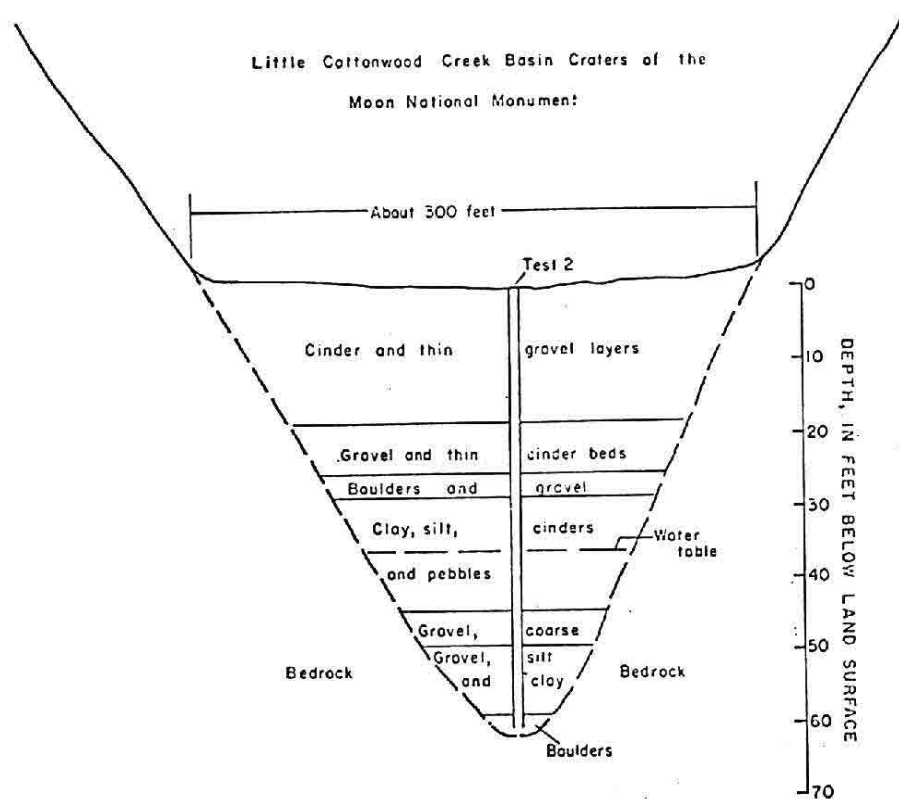
Sincerely yours,



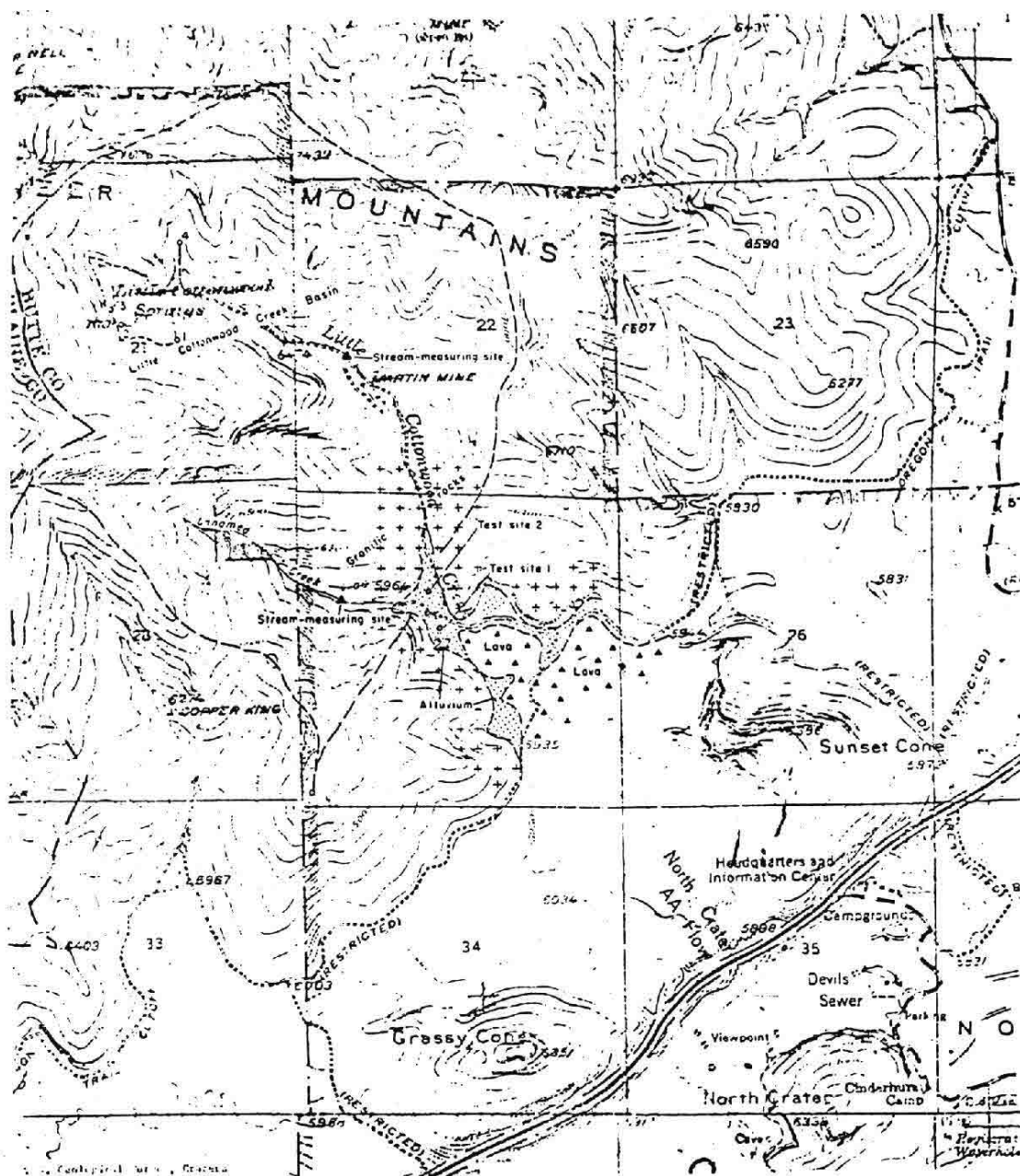
Alfred H. Harder
for W. L. Burnham
District Chief



Diagrammatic hydrologic section through test 2, Little Cottonwood Creek basin, Craters of the Moon National Monument, Idaho.



Diagrammatic hydrologic section through test 2,
Little Cottonwood Creek basin, Craters of the
Moon National Monument, Idaho.



Map showing geology, stream-measuring sites and test-well sites, Craters of the Moon National Monument, Idaho.

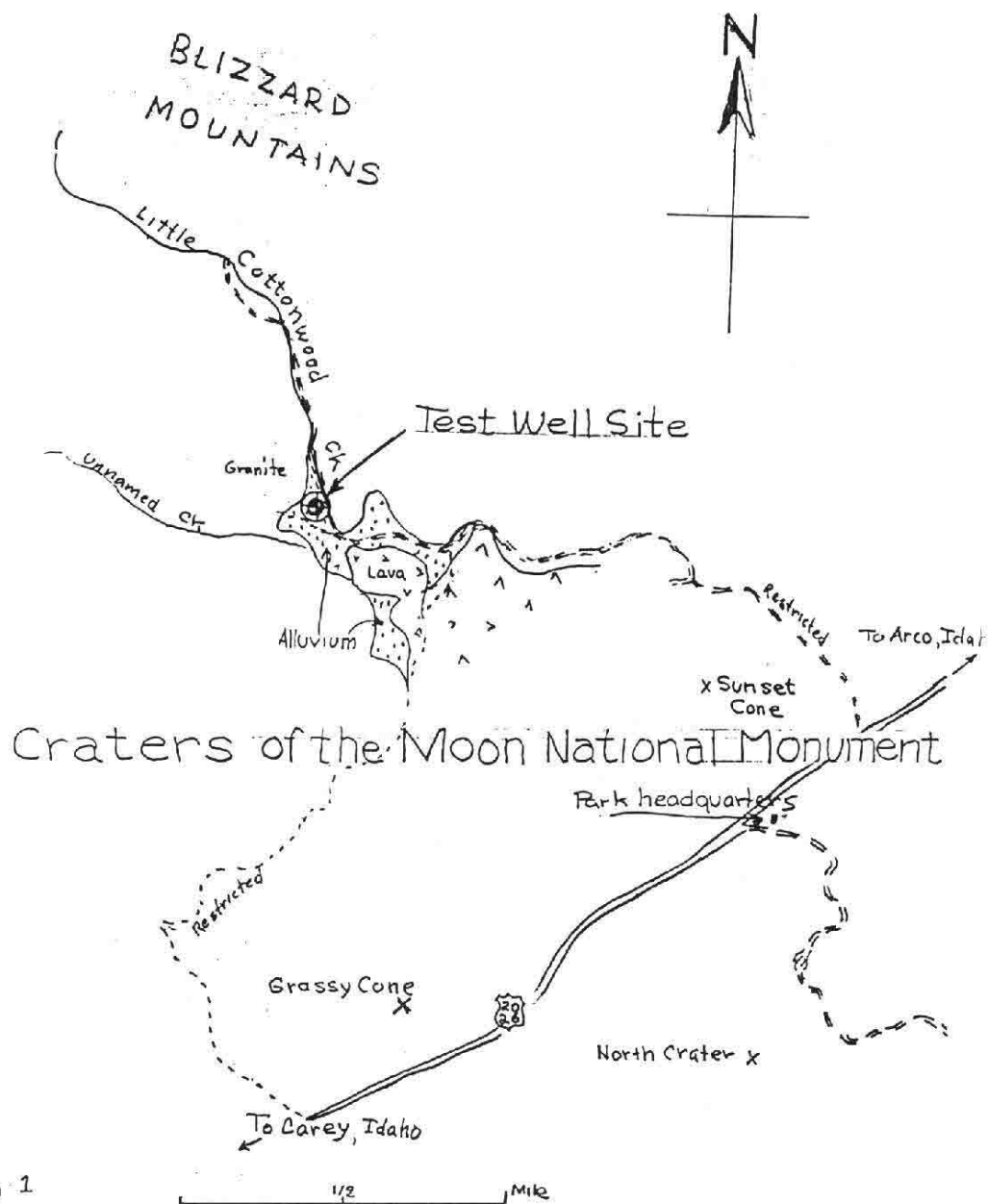


Fig 1

MEMORANDUM REPORT
on
WATER SUPPLY
for
PROPOSED NEW CAMP GROUND

for
CRATERS OF THE MOON N.M. IDAHO

by

Eugene Walker

U.S.G.S. Water Resources Division

November 30, 1966

Memorandum on Water Supply for proposed new Campground,
Craters of the Moon National Monument, Idaho

On November 30, 1966, Eugene Walker of the Water Resources Division, U.S. Geological Survey, made a reconnaissance of the proposed new campground at the Craters of the Moon National Monument, with the purpose of locating a well for water supply. Mr. Walker was accompanied by Superintendent Paul Fritz and Ranger Martin Denham. Mr. Fritz pointed out the proposed site.

The proposed site is on the floor of a meadow just below the junction of the valleys of Little Cottonwood Creek and the unnamed creek immediately to the west. This site lies in an embayment in the mountain-front, about $1\frac{3}{4}$ miles northwest of the Monument Headquarters and the present campground.

The meadow is enclosed on the northeast and southwest by mountain slopes, and extends for a short distance up the valley of Little Cottonwood Creek.

The meadow is covered with tall grass, indicating a relatively wet soil much of the year. A few scattered clumps of willows and aspen on the meadow and its margins also testify to the presence of moisture at shallow depth. The adjoining dry hill slopes are vegetated with sage brush and grass.

Present water supply for the Monument and campground

The Headquarters and present campground are at present adequately supplied with water, via a pipeline and storage tank, from four springs - the Little Cottonwood Springs - located at an elevation of about 7,000 feet in the upper part of the basin of Little Cottonwood Creek. These springs, numbered 1 to 4, have been developed and boxed in, with pipes leading to the main pipeline.

The flow of these springs is reported (data from National Park Service, measurements by Lynn Spalding, Engineer) to have been 48 gpm in 1957, 70 gpm in 1958, and 86 gpm in 1960. The season of the year when the measurements were made is not known.

Proposed Development

The proposed new campground in the mountain-front meadow offers more space than can be conveniently developed on the naked lava where the present campground is located; it will be more protected from the wind, and it will give opportunities for hiking and nature-watching in the valleys of the mountain front. The Monument boundary includes all but a small part of the drainage basin of Little Cottonwood Creek and the smaller drainage to the west.

The National Park Service wishes to develop a water supply for this campground from a well, which will be less subject to possible contamination than the present springs.

Geology and Hydrology

The mountain slopes that border the meadow and form the basins of Little Cottonwood Creek and the creek to the west, are underlain by a granite prophyry that shows some primary brecciation. The only openings in this bedrock are joints and cracks that probably grow fewer and tighter within a few tens of feet below the surface.

The valley floors and meadow are underlain by gravel brought down from the mountains. This gravel is pervious, as shown by the fact that no water was flowing across the meadow on November 30, although both the tributary streams were flowing about 20 gpm or more not far above the meadow.

A flow of young lava of the Snake River Group has spread into the mountain-front embayment and the rough outcrops of this lava form the down-valley limits of the meadow and proposed campground. It is quite possible that lava may extend farther north, beneath the surface, perhaps to the head of the meadow.

A well would have to be located above the campground, to avoid contamination arising from occupation of the camp. The logical location for a well would be in the valley of Little Cottonwood Creek, which is wide enough to offer the prospect of finding a reasonable thickness of water-bearing alluvium, and which drains a much larger area with correspondingly larger yield of water than the smaller creek to the west.

Water yield of Little Cottonwood Creek Basin

The basin of Little Cottonwood Creek above the meadow and proposed campground has an area of about 1.5 square miles, or 950 acres. Assuming, from data on gaged streams in this part of Idaho, a water yield of about 1 foot per acre, the total yield of the basin might average about 950 acre-feet a year, or about 590 gpm if delivered at an even rate.

The late summer flow from the basin, though much smaller than the average, would suffice for all needs of the Monument and the proposed new campground. The flow of the springs high up in the basin of the creek supplies all present needs, although it represents only a part, perhaps half, of the total yield of the basin.

Development of Ground Water

A large part of the underflow down the valley of Little Cottonwood Creek could be developed by one or two wells located on the valley floor a hundred yards above the proposed campground. At this place the valley is about 100 yards wide. The projection of the slopes of the valley wall (about 25 degrees) suggests that the deepest part of the valley may be about 70 feet below the surface of the ground.

The valley is probably underlain by fairly coarse-grained alluvium which would be water-yielding. Water might also occur in fractures in the upper few feet of bedrock. Thickness of water-saturated material would depend on the depth to water, which may be no more than 20 feet. Therefore, as much as 50 feet of water-saturated material may exist beneath the surface at the site of the proposed well. The foregoing estimates are based on little evidence, and one or more test wells should be drilled to test the geological and hydrological conditions before planning a production well. It is especially important that at least one season of water-level information be gained before the final decision is made to construct a production well. If the annual recharge to this alluvium is not retained within the alluvium throughout the summer season, the well may not yield sufficient quantities near the end of the year when need is greatest.

Recommendations

The total flow of the four springs that are now developed for water supply should be measured during the summer of 1967, to determine the yield, now little known.

Two test wells should be drilled as soon as possible in the flat-bottomed valley of Little Cottonwood Creek, about 100 yards above the limits of the proposed campground. The locations of these wells can be spotted by a WRD geologist. Two holes drilled in a line across the valley should suffice to locate the deepest part of the valley and the thickest section of alluvium. Temporary casing and screening should be installed in the wells and pumping tests should be run in both wells to provide data on the hydrologic properties of the alluvium. Pumping rates for these tests need not exceed 100 or 200 gallons per minute.

D3415-DSC-TWE

June 26, 1980

Idaho State Department of Health
Division of Environment
636 Pershing
Pocatello, Idaho 83201

Gentlemen:

Reference: Craters of the Moon National Monument, Package No. 128,
Water Well Activation, Project Construction

Subject: Construction Schedule

As requested in your letter of October 22, 1979, we would like to update your office on the construction scheduling for the referenced project.

The beginning of installation of the pitless unit was begun on June 16. Installation and testing of this phase of the project should continue for the next several weeks.

Modifications to the chlorinator house are also being done at this time.

Exact dates on when the other phases of the project will be done have not been set by the Contractor. His plan is to have the job finished by the end of the summer.

For information on what work is being done on a day-to-day basis, you should contact Project Supervisor Bob Martin at (203) 527-3292.

Sincerely yours,

(Sgd) Kenneth Raithel, Jr.

Kenneth Raithel, Jr.
Assistant Manager, Pacific Northwest/
Western Team, Denver Service Center

cc:

Reg. Dir., Pacific Northwest Region
Supt., Craters of the Moon
Proj. Supv., Martin

JUN 30 '80	
NPS-PNRD	Init. Date
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DD	
M	
P	10/10
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CPA	
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APC	
AS	
Central Files	
Action Taken	
Baroff	

Form 10-774 (June 1962)		UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE		Work Order No. B-3 0300	
FACE SHEET FOR COMPLETION REPORT					
Park Craters of the Moon National Monument		Region Western		Year Programmed 1965	
Location in Park Headquarters Area		State(s) Idaho		PCP No. U-19-1	
		County or Counties Butte		Master Plan No. NM-CRA-3127	
☒ Contract and/or ☐ Day Labor				Master Plan Corrected By	
Work Order Title Concrete Water Reservoir and Chlorinator House				As Built Drawings By	
				Date Started July 7, 1964	
				Date Completed August 31, 1964	
DESCRIPTION OF FIXED ASSETS (For completion by employee in charge of project)				TOTAL COSTS (For completion by FFO)	
Account 100.8 Utilities					
L.S. 100,000 Gal. Concrete Reservoir, complete				26,077.96	
Direct Cost \$19,531.00					
L.S. Chlorinator House, complete					
Direct Cost 2,950.00					
Total Direct Cost \$22,481.00					
INTERNAL VOUCHER NO. 34				TOTAL \$ 26,077.96	
DATE JAN 11 1965					
DISTRIBUTION No. 1 To 7		THE FIXED ASSET DESCRIBED ABOVE HAS BEEN COMPLETED IN ACCORDANCE WITH APPROVED DRAWINGS, SPECIFICATIONS, AND AUTHORIZED CHANGES			
1 WASO D&C		Submitted By: Edward H. Oake		Title: Project Supervisor Date: NOV 10 1964	
1 WODC		Approved By: Roger J. Constan		Title: Superintendent Date: 11-10-64	
1 Programs WR		COSTS VERIFIED		Title: Date:	
1 Area		BY J. Kitzky		Title: Operating Accountant Date: 12/24/64	
1 FFO WR					
2 Prop. Mgmt.					

Narrative Report

The plans and specifications for the Construction of Concrete Water Reservoir and Chlorinator House, P.C.P. U-19-1, at Headquarters Area were prepared by the Western Office, Division of Design & Construction.

Seven bids were received and opened on June 25, 1964. The award was made to Newell J. Olsen and Sons, Inc., of Logan, Utah, for the amount of \$22,476.00. The "Notice to Proceed" of the contract was issued on July 6, 1964, and on the same particular date, a preconstruction meeting with the contractor was held in the office of the superintendent.

The project began by first excavating for the underground concrete reservoir. In approximately three days, the contractor had excavated for the entire structure and by the end of the week, the footing for the reservoir was poured.

The progress of the construction from the installation of footing to the pouring of the roof slab was rapid and by the first week in August the entire structure was complete except for the curing.

The chlorinator house and the piping in the vicinity of the reservoir were constructed in the last three weeks in August. The final inspection was held on August 31, 1964.

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National Park Service
Region Four

CRATERS OF THE MOON NAT. MON.
HEADQUARTERS WATER SYSTEM

SUMMARY OF SPRING FLOW & DEVELOPMENT

L. Spaulding 4-5-60

SPRING NUMBER	DATE OF DEVELOPMENT OR OF SPRING MEASUREMENT							
	July 1, 1927	1932	May 9, 1939	1956	1957	1958	Summer 1959	Winter 59-60
per Water Right Application 25030					measured by Nixon & Henry gpm ①	reported by Supt. Bright gpm ②	reported by at Reg. 4 Supt. Henderson gpm	March 8, 1960 gpm
2	Water Right Application Filed on Six Springs 1 cfs	Water system completed & using 4 Springs	Water Right Certificate issued for 055 cfs	Spring basins and waterline replaced, contract 14-10-434-101	12		27	32
3					18			
4					12		③ 9	16
5								
6								
Undeveloped Spring near #2					6			
TOTAL					48	60-70	36	48

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

② Memorandum of May 12, 1958 (D 5031)

③ Summer 1959 - Spring No. 4 excavated & backfilled with rock & cinders (Supt. memo 1-4-60 D 5031)

Form 10-174
(Rev. 1/50)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
COMPLETION REPORT OF CONSTRUCTION PROJECT

COPY TO *Wago* DATE *11-29-57*
 FOR YOUR INFORMATION REPORT 7 SPL
 INITIALS *AD*
 YOUR OFFICE INITIALS *Unit 3*

REGION Four	AREA Craters of the Moon Nat'l Monument	COUNTY Butte	STATE Idaho
PROJECT OR JOB TITLE Utilities - Water System Reconstruction			PCP NO. U-11-2
LOCATION IN AREA Little Cottonwood Creek and Headquarters Areas		MASTER PLAN NO.	BUILDING NO.
WORKING DRAWING NO. AND TITLE M-CRA-3115			
APPROPRIATION TITLE AND SYMBOL 14-1035 - Utilities - 332.2			ACCOUNT NO. 4303 - 332.2
CONTRACT NO. 14-10-434-173		DATE WORK STARTED July 23, 1957	DATE WORK COMPLETED November 9, 1957
NAME OF CONTRACTOR Detweiler's Inc.		ADDRESS P.O.Box 870, Twin Falls, Idaho	

COST ANALYSIS

CONSTRUCTION ITEMS	QTY.	UNIT COST IN PLACE	TOTAL COST IN PLACE
See attached final estimate No. 3			
TOTAL			94,147.51

FISCAL CLEARANCE

Roland V. Johnson
 Roland V. Johnson
 Regional Accountant
 Date **JAN 17 1958**

SUMMARY OF EXPENDITURES

PERSONAL SERVICES	EQUIPMENT	MATERIALS AND SUPPLIES
OTHER Facilitating Services. \$655.00; Contract \$93,492.51 Total Cost \$94,147.51		
CHANGE ORDERS		
ORIGINAL CONTRACT AMOUNT \$87,444.00	FIRST \$7,608.00	SECOND
FINAL CONTRACT AMOUNT \$93,492.51	FOURTH	FIFTH
	SIXTH	

THIS PROJECT OR JOB HAS BEEN COMPLETED IN ACCORDANCE WITH
APPROVED DRAWINGS, SPECIFICATIONS, AUTHORIZED CHANGES

SUBMITTED BY (Name and title) Everett W. Bright, Superintendent	DATE November 9, 1957
APPROVED BY (Name and title) W. H. Bright	DATE

(ATTACH NARRATIVE STATEMENT, PHOTOGRAPHS, AND "AS BUILT" DRAWINGS TO THIS FORM)

COPY

CRATERS OF THE MOON N.M.
Arco, Idaho

November 6, 1957

Everett V. Bright, National Park Service.

Account No. 523-3, Contract No. 14-10-434-173, furnishing all plant, labor, equipment, appliances, and materials and performing all operations in connection with the replacement of water lines from springs to reservoir, construction of spring collection box, construction of spring collection basins, spring enclosure fences, all for the Headquarters Area, Craters of the Moon National Monument, as shown on the plans and specifications.

ESTIMATE NO. 3, FINAL PAYMENT

Detweiler's Incorporated have furnished the labor, material and equipment to accomplish the following work under their contract to replace the water lines from the springs to reservoir for the Headquarters area of Craters of the Moon National Monument, in accordance with the plans and specifications:

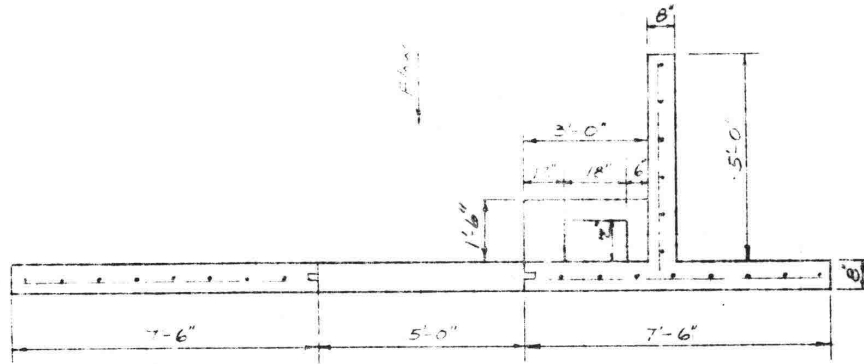
Original amount of Contract	\$87,444.00
Change Order No. 1, dated August 21, 1957 add	7,608.00
	<u>\$95,052.00</u>
Bid Item.	
1 12,427 Lin. ft. 4" class 150 G.I. pipe @ 4.05	\$50,329.35
2 5,400 Lin. ft. 4" class 250 G.I. pipe @ 2.75	14,850.00
3 4 each, 4" drain valves from boxes @ 480.00	1,920.00
4 3 each, Air relief valves with boxes @ 436.00	1,308.00
5 1 each, Safety By-Pass installed @ 613.00	612.00
LA 3457 Lin. ft., 2" G.S. pipe @ 2.80	9,679.60
2A 9 each, 4" Gate valves with G.I. boxes @ 85.00	765.00
3A 8 each, 2" Gate valves with G.I. boxes @ 55.00	440.00
4A 4 each, Spring basin accessory set @ 325.00	1,300.00
5A 127 Lin. ft., 4" class 150 G.I. M. joint pipe @ 7.00	889.00
6A 23.40 Cu. Yds., Class A concrete @ 200.00	4,680.00
7A 9 Cu. Yds., Dry Rubble Masonry in Spring Basins @ 30.00	270.00
1B 1168.4 Lin. Ft. Chain Link Fence @ 3.40	3,972.56
3B 4 each, 12 foot double swing gates @ 142.00	568.00
1 each, Spring collection box, @ 1,659.00 lump sum	1,659.00
100 lin. ft. ditch for by-pass, spring no. 4 @ 2.50	250.00
Contract completed, November 6, 1957	<u>\$93,492.51</u>
Less previous payments	68,127.84
Amount due Nov. 6, 1957	<u>\$25,364.67</u>

Payments Recommended:

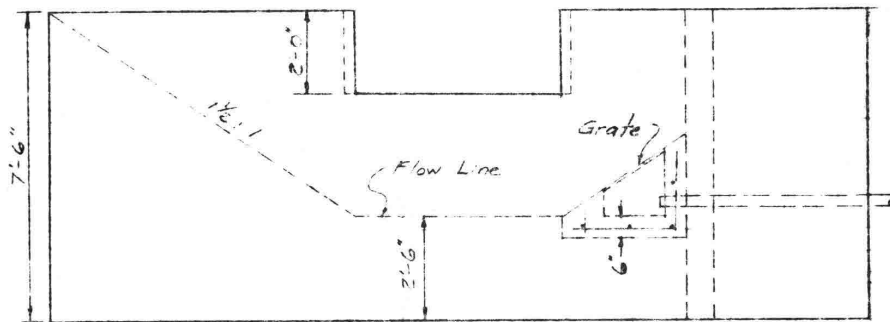
Project Supervisor.

Approved:

Superintendent, Craters of the Moon N.M.



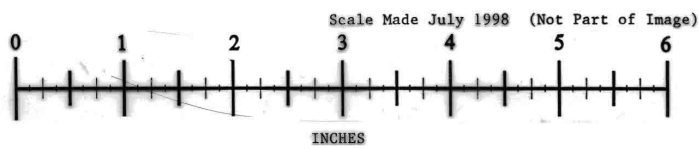
PLAN
 Note: Place re-bars
 10" C.C. Except
 for Collection Box
 place re-bars 12"
 C.C.
 Scale: 1' = 3/8"



ELEVATION

DIVERSION STRUCTURE "C"

Otake
 WDDC

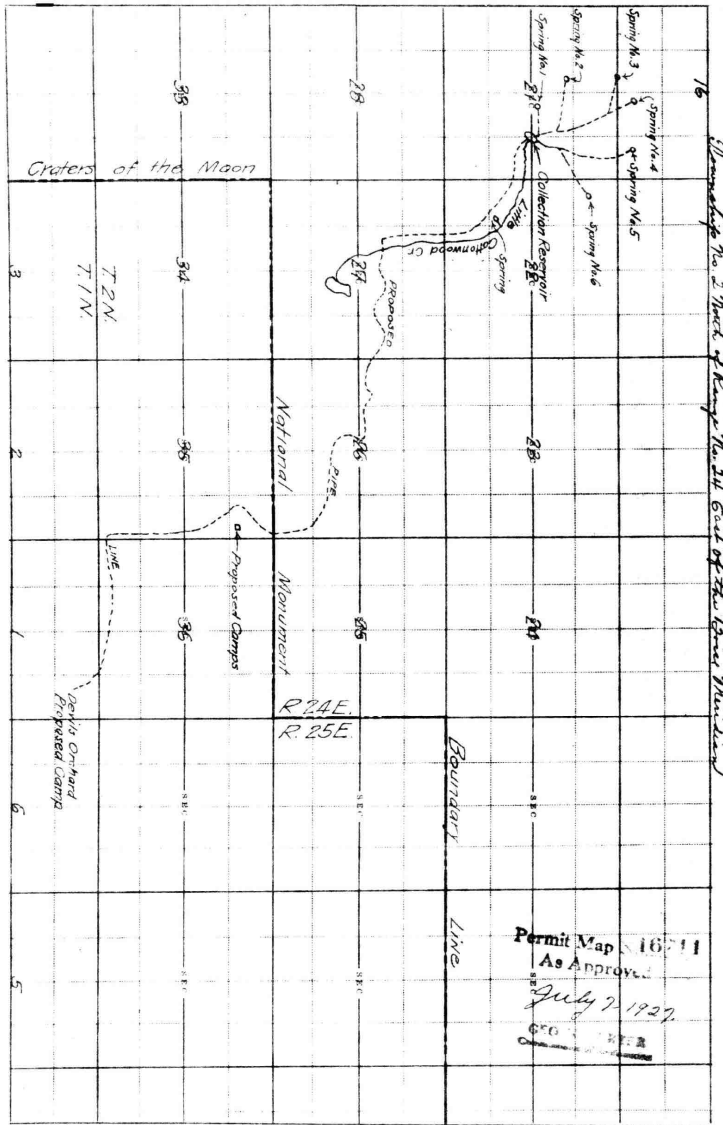


02-00-1941: map showing the right-of-way of a highway though craters of the moon

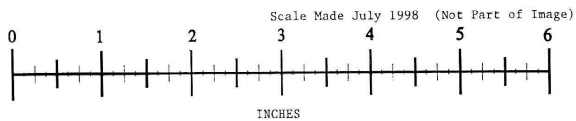


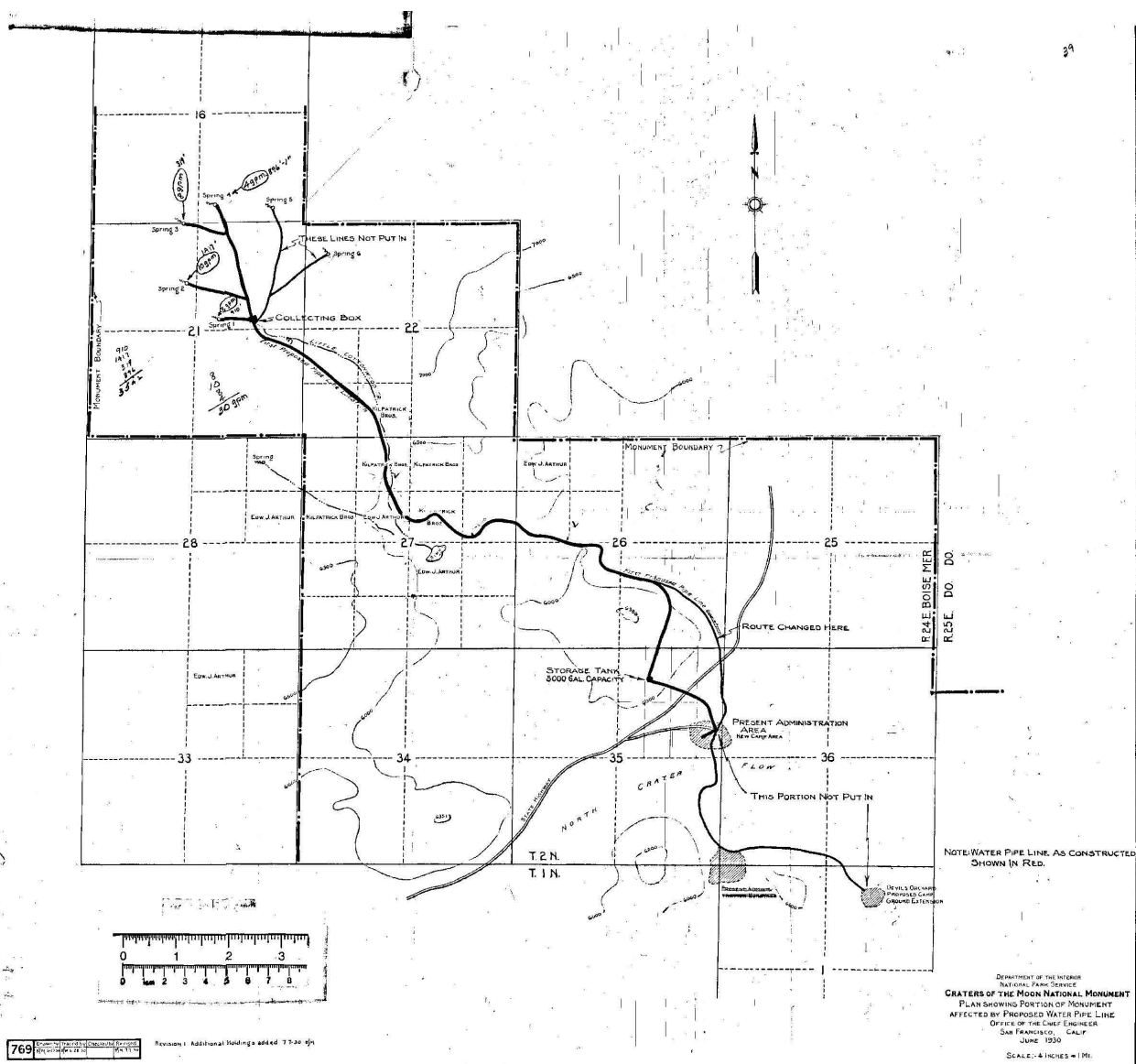
NAME **7** APPLICANT

Form No. 0



SCALE: 2 INCHES EQUAL 1 MILE. DRAW PLAN IN INK





Docket Information

Number of Documents in Docket 150

Documents Dated from 9/17/1909 to 6/5/1991

Docket Compiled: 2/15/2011