WATER-RIGHT DOCKET

Arches National Park

Docket No: 1

HEADQUARTERS WATER SYSTEM WELL

Preliminary Docket Information

00-00-0000: water right record

WATER RIGHT RECORD

Park: ARCH

Docket Number: Federal #1

IDENTIFICATION NO: ARCH W 20521 AF01

DITCH/WATER SYSTEM: Headquarter's Water System

SOURCE OF SUPPLY: Well

LOCATION: 20 ft. west of N13°31'W 634.4 ft. from E¼ corner, Sec. 20, T25S, R21E, SLB&M

WATER RIGHT:

Appropriator: United States of America, National Park Service

Application/Permit Number: 13619 - Amendatory Application #4056

Certificate Record Number:

Date of Priority: May 17, 1940

Quantity of Water: .088 c.f.s.

Purpose: Domestic

Irrigated Land Description:

SUMMARY OF STATUS: This is a Federal Water right at the headquarter's area consisting of a well, pump house, reservoir and pipe, etc. There were no prior water rights. The original well sanded up and was replaced by a new well which was completed June 30, 1959.

After receiving several extensions of time, a Water User's Claim was filed on January 17, 1973.

ARCHES HEADQUARTERS WELLS
General Information - 3/29/78

1940 - Original well was drilled in the present Headquarters area.
Depth 117'
Casing 6"
Flow - Est. 30 to 40 g.p.m.

1958 - A replacement well was drilled 20' (and 5' higher) from existing well.
According to Don Price, USGS, in his Memorandum Summarizing the Drilling and Test Pumping Etc., "The new well was needed in order to meet the growing water requirements at the Monument."
Depth 123.4'
Casing 8"
Test Pumped 12 g.p.m.
Present pumping ± 20 g.p.m.

JCU/tb

ARCHES WATER DOCKET #1

I. LOCATION AND WATER SYSTEM DIAGRAMS

1. Drawing NM-ARC-7116

2. Drawing NM-ARC-3016 B (4 pages)

3. Shop drawing NM-ARC-3016 B

ARCHES WATER DOCKET #1

II. WATER APPLICATION #13619

1. May 17, 1940: Application to Appropriate Water #13619

2. July 27, 1940: Letter, State Engineer to Hugh M. Miller; Permission to Drill

3. July 27, 1940: Letter, State Engineer to Hugh M. Miller; Acknowledgement of Receipt of Application #13619

4. Mar. 3, 1944: Report of Well and Tunnel Driller, State of Utah

ARCHES WATER DOCKET #1

III. AMENDATORY APPLICATION #4056

1. October 1, 1958: Application #4056 with Rules and Regulations attached

2. October 6, 1958: Acknowledgement of receipt of Application from Office of State Engineer

3. December 20,'58: Moab Drilling Co., pump test data

4. Drawing NM-ARC-7111, Well Log, prepared 2/15/65

5. Jan. 13, 1958: Report of Well and Tunnel Driller

6. USGS Report: Drilling and Test Pumping a Replacement Well at Arches National Monument, Grand County, Utah, by Don Price, Geologist, 1959

ARCHES WATER DOCKET #1

IV. PROOF OF APPROPRIATION; TIME EXTENSION REQUESTS AND GRANTS

1. EXCERPTS FROM UTAH STATUTES RE PROOF OF WATER APPROPRIATION AND EXTENSIONS OF TIME
2. Oct. 7, 1943: Extension Granted
3. Oct. 23, 1945: Extension Granted
4. Oct. 14, 1947: Extension Granted
5. Dec. 2, 1949: Request for Extension
6. Dec. 12, 1949: Extension Granted
7. Oct. 19, 1951: Request for Extension
8. Nov. 2, 1951 : Extension Granted
9. Dec. 8, 1954: Request for Extension
10. Dec. 13, 1954: Extension Granted
11. Feb. 11, 1955: Extension Information
12. March 14, 1955: Extension Granted
13. Oct. 10, 1958: Proof Due Notice
14. Oct. 21, 1958: Request for Extension
15. Apr. 2, 1959: Extension Information
16. July 30, 1959: Grant of Extension
17. July 21, 1966: Special Order granting extension to Sept. 19, 1966
18. Sept. 15,1966: Request for Extension

10-28-1991: letter to state of utah from nps regarding statement of water user's claim forms for water rights 01-25, 01-28, 01-114,

United States Department of the Interior

NATIONAL PARK SERVICE
Southeast Utah Group
Arches and Canyonlands National Parks
Natural Bridges National Monument
Moab, Utah 84532-2995

IN REPLY REFER TO:

L54 (ARCH-M)

October 28, 1991

Mark P. Page, Area Engineer
State of Utah Natural Resources Department
P.O. Box 718
Price, Utah 84501-0718

Dear Mr. Page

Enclosed are signed blue line copies of Statement of Water User's Claim forms for Water Rights 01-25, 01-28, 01-114, and 01-166. I apologize in the delay of getting these signed forms back to you. The National Park Service is submitting statements for Water Rights 01-25 and 01-166 to complete the appropriation process.

As you are aware, the United States has not been joined pursuant to 43 USC 666 in the action to determine rights to the use of water within the drainage area of the Colorado River in San Juan, Grand, and Uintah Counties, Utah, and exclusive of the Green River drainage. The National Park Service submits claims for all four of the above-referenced water rights as a matter of comity and reserves the right to change these claims or file other claims within this adjudication area upon proper joiner in the adjudication.

Sincerely,

Noel R. Poe
Superintendent
Arches National Park

cc: WASO (479) - Pettee (w/attachments)
DOJ - Hill

NATIONAL PARK SERVICE 1916 - 1991 ™

IN THE DISTRICT COURT OF THE SEVENTH JUDICIAL DISTRICT

IN AND FOR GRAND COUNTY, STATE OF UTAH

IN THE MATTER OF THE GENERAL DETERMINATION OF RIGHTS TO THE USE OF ALL THE WATER, BOTH SURFACE AND UNDERGROUND, WITHIN THE DRAINAGE AREA OF THE COLORADO RIVER IN SAN JUAN, GRAND AND UINTAH COUNTIES, UTAH, AND EXCLUSIVE OF THE GREEN RIVER DRAINAGE.	**STATEMENT OF WATER USER'S CLAIM** **Water Right No. 01 - 25** Civil No. 4477 Map No.

****

HOW TO USE THIS FORM:

This form is important to you in asserting your water rights in the pending judicial adjudication described above. Under Utah law, unless you file this form in a timely manner, your water rights cannot be recognized and you may not assert them further. The State Engineer has made a hydrographic survey of this area, which includes your water rights and uses. Your receipt of this form constitutes notice to you that the survey has been completed and that a signed Statement of Water User's Claim is due from you within 90 days. Review the information shown on this form carefully. If you agree with the information and accept it as your Statement of Water User's Claim, sign the form & return it to the Division of Water Rights in Price, Utah. The Division of Water Rights will file your Statement of Water User's Claim with the District Court in Moab, Utah. If you do not agree with the information, contact the above Division of Water Rights office to resolve the problem.

****

1. **WATER RIGHT AND OWNERSHIP INFORMATION:**

   A. **NAME:** USA National Park Service **INTEREST:** 100%
   Water Resources Division
   ADDRESS: 301 South Howes Room 335, Fort Collins, CO 80521

   B. **TYPE OF RIGHT:** Application To Appropriate No. A13619

   C. **PRIORITY DATE:** May 17, 1940

2. **SOURCE INFORMATION:**

   A. **QUANTITY OF WATER:** 0.044 cfs

   B. **DIRECT SOURCE:** Underground Water Well

   C. **POINT OF DIVERSION -- UNDERGROUND:**
   (1) N 617 feet W 148 feet from E¼ corner, Section 20, T 25S, R 21E, SLBM
   WELL DIAMETER: 8 inches WELL DEPTH: 120 feet

   D. **DRAINAGE AREA:** NW Colorado River **COUNTY:** Grand

3. **WATER USE INFORMATION:** (The following data is divided into groups according to uses which have supplemental water rights in common.)

Supplemental Group 1. Water Rights in Common: 01 - 25

IRRIGATION: from Mar 15 to Nov 15. IRRIGATING: 0.25 acres.

	North East Quarter				North West Quarter				South West Quarter				South East Quarter				Section
BS	TOWN	RANG	SC	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
SL	25S	21E	20				0.25													0.25

Group Total: 0.25

Supplemental Group 2. Water Rights in Common: 01 - 25, 166

DOMESTIC: from Jan 1 to Dec 31. FAMILIES: 10.

4. PLACE OF USE: (which includes all or part of the following legal subdivisions:)

BASE	TOWN	RANG	SEC	NORTH-EAST¼ NE	NW	SW	SE	NORTH-WEST¼ NE	NW	SW	SE	SOUTH-WEST¼ NE	NW	SW	SE	SOUTH-EAST¼ NE	NW	SW	SE
SL	25S	21E	20				X												
			21							X									

5. EXPLANATORY:

WUC 01-25 is limited to the domestic requirements of 4 families.

6. CERTIFICATION OF CLAIM AND WAIVER OF SUMMONS:

The undersigned hereby enters their appearance in this water adjudication proceeding and hereby waives service of summons or other process and waives service of the notice of completion as required by Sections 73-4-4 and 73-3-4 of the Utah Code Annotated, 1953 as amended.

STATE OF UTAH)
) SS
COUNTY OF GRAND)

The undersigned swears on oath that he makes and certifies this Water User's Claim either as the claimant himself or as the duly-authorized agent of the claimant, that he has read and knows the contents of the claim, that he signs the same, and that the information supplied therein is true to the best of his knowledge and belief.

STATEMENT OF WATER USER'S CLAIM for Water Right: 01 - 25 continued***** Page: 3

Title: _____ Noel R Poe
(Individual or Office) Signature

Subscribed and sworn to before me this 28th day of October, 1991

Commission expires: 1/14/92 Lee Stocks
Notary Public

LEE STOCKS NOTARY PUBLIC STATE OF UTAH

01-12-1988: request for reinstatement and extension of time: application no. 57272

UTAH
NATURAL RESOURCES
Water Rights

1636 West North Temple • Suite 220 • Salt Lake City, UT 84116-3156 • (801) 533-6071

IN THE OFFICE OF THE STATE ENGINEER OF THE STATE OF UTAH
REQUEST FOR REINSTATEMENT AND EXTENSION OF TIME
(Before Fourteen Years)

APPLICATION NO. 57272

STATE OF UTAH
COUNTY OF Grand

Applicant's present address
National Park Service
Water Resources Division
301 S. Howes, Room 335
Fort Collins, CO 80521

Stanley L. Ponce being first duly sworn that he is the (agent of the) ~~xxxxxxxxx~~ above numbered application; that the information given is true and correct to the best of his knowledge.

Describe briefly the type, extent, and cost of construction completed to date, and the estimated cost of any remaining construction to complete the project and to submit Proof of Appropriation. Give reasons why the work could not be completed and water put to beneficial use within time allowed.

The water supply is an 8-inch well, 172 feet deep, supplying water to headquarters at Arches National Park. There is 70,000 gallons of storage and distribution to points of use. At present we are collecting water use data, making legal ties and maps for submitting proof of appropriation. Fourteen year period ends February 28, 1993.

Request is made for reinstatement and extension of time for filing proof from February 28

19 88 to February 28 19 1990

Stanley L. Ponce
Chief, Water Rights Branch National Park Service
APPLICANT (If a corporation, give title of officer signing.)

Subscribed and sworn to before me this 12th day of January 1988

Mary Anne Atencio
NOTARY PUBLIC
Commission Expires: 2-21-90

FOR OFFICE USE ONLY

PROOF DUE DATE _____ 14 YEAR PERIOD ENDS _____

REMARKS _____

RECOMMENDED DISPOSITION _____

_____ CALENDAR
_____ COMPUTER
_____ INDEXED

EXTENSION REQUEST Form 29 an equal opportunity employer Rev 10/86 201044

02-29-1988: letter to state of utah from nps regarding request to file a statement of water user's claim in lieu of submitting proof of

United States Department of the Interior

NATIONAL PARK SERVICE

WATER RESOURCES DIVISION
301 SOUTH HOWES ST., ROOM 335
FT. COLLINS, COLORADO 80521

IN REPLY REFER TO:

February 29, 1988

L54 (479)
General

Mark Page, Area Engineer
State of Utah
Department of Natural Resources
Division of Water Rights
1636 West North Temple, Suite 220
Salt Lake City, Utah 84116-3156

Dear Mr. Page,

Enclosed is our request to file a Statement of Water User's Claim in lieu of submitting Proof of Beneficial Use on Application No. A57272. We request that the statement be prepared and submitted by the State Engineer.

For information regarding the well and its use, please contact Frank Darcey at Arches National Park. His phone number is (801) 259-8161. Other questions may be directed to Beth Voelkel or me at (303) 221-5341.

Thank you for your help in this matter.

Sincerely,

Stanley L. Ponce

Enclosure

cc: Superintendent, ARCH
Hermance, RMRO

FORM 152

A T T E N T I O N

THIS FORM IS TO BE USED ONLY WHEN WATER HAS BEEN PLACED TO FULL BENEFICIAL USE

BEFORE THE STATE ENGINEER OF THE STATE OF UTAH
ELECTION TO FILE WATER USER'S CLAIM

APPLICATION NO. A57272

STATE OF UTAH

COUNTY OF Grand

Stanley L. Ponce, representing the United States of America, being first duly sworn, says that he is the owner of the above application; that the development contemplated under this application has been completed and the water placed to beneficial use.

In lieu of submitting "Proof of Appropriation" or "Proof of Change" and receiving "Certificate of Appropriation" or "Certificate of Change", the applicant hereby elects to file a "Statement of Water User's Claim" or an "Amended Statement of Water User's Claim" in the pending GENERAL DETERMINATION OF WATER RIGHTS; and the applicant requests that said statement be prepared by the State Engineer and submitted for execution at an early date.

Stanley L. Ponce
APPLICANT

SUBSCRIBED AND SWORN TO BEFORE ME THIS 29th DAY OF February 19 88.

My Commission Expires: 2-21-90

Mary Anne Atencio
NOTARY PUBLIC

19

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Robert L. Morgan
State Engineer

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER RIGHTS

1636 West North Temple, Suite 220
Salt Lake City, Utah 84116-3156
801-538-7240

February 17, 1988

USA National Park Service
Water Resources Division
301 South Howes, Room 335
Fort Collins, CO 80521

Dear Applicant: RE: Application No. 01-166 (A57272)

Request for extension of time in which to submit Proof of Appropriation or Proof of Change contemplated by the above-numbered application has been considered and the time for receiving Proof of Appropriation is hereby extended from February 28, 1988, to February 28, 1990.

This extension is granted in accordance with the law which states: "The construction of the works and the application of water to beneficial use shall be diligently prosecuted to completion within the time fixed by the state engineer. Extensions of time ... may be granted by the state engineer on proper showing of diligence or reasonable cause for delay... In the consideration of an application to extend the time in which to place the water to beneficial use under an approved application, ... the State Engineer shall deny such extension and declare the application lapsed, unless the applicant affirmatively shows that he has exercised or is exercising reasonable and due diligence in working toward completion of the appropriation."

I earnestly recommend that you complete your development and submit Proof of Appropriation at the earliest possible date.

Your contact with this office, should you need it, is with the Area Engineer, Mark Page. The telephone number is (801)637-1303.

Yours truly,

Robert L. Morgan

Robert L. Morgan, P.E.
State Engineer

EXTENSION GRANTED

an equal opportunity employer

January 12, 1988

Mark Page, Area Engineer
State of Utah
Department of Natural Resources
Division of Water Rights
1636 West North Temple, Suite 220
Salt Lake City, Utah 84116-3156

Dear Mr. Page,

Enclosed please find our Request for Reinstatement and Extension of Time for Application No. 57272. We are currently collecting water use information in preparation for making Proof of Beneficial Use. We request, therefore, that the proof-due date for this application be extended for two years from February 28, 1988 to February 28, 1990.

Thank you for considering this request. If you have any questions please contact Beth Voelkel or myself at (303) 221-5341.

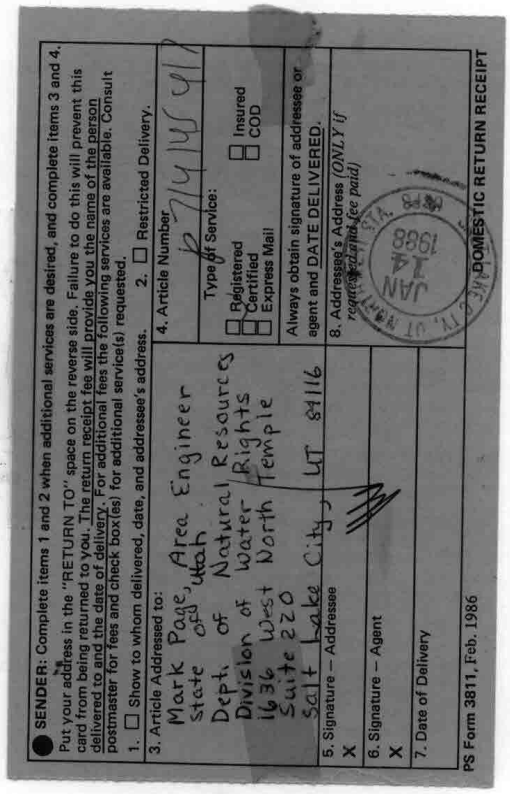
Sincerely,

Stanley L. Ponce

Enclosure

cc: Superintendent, ARCH
Hermance, RMRO

Sent Registered Mail



UTAH
NATURAL RESOURCES
Water Rights

1636 West North Temple • Suite 220 • Salt Lake City, UT 84116-3156 • (801) 533-6071

IN THE OFFICE OF THE STATE ENGINEER OF THE STATE OF UTAH
REQUEST FOR REINSTATEMENT AND EXTENSION OF TIME
(Before Fourteen Years)

APPLICATION NO. 57272

STATE OF UTAH
COUNTY OF Grand

Applicant's present address
National Park Service
Water Resources Division
301 S. Howes, Room 335
Fort Collins, CO 80521

Stanley L. Ponce being first duly sworn that he is the (agent of the) ~~owner of the~~ above numbered application; that the information given is true and correct to the best of his knowledge.

Describe briefly the type, extent, and cost of construction completed to date, and the estimated cost of any remaining construction to complete the project and to submit Proof of Appropriation. Give reasons why the work could not be completed and water put to beneficial use within time allowed.

The water supply is an 8-inch well, 172 feet deep, supplying water to headquarters at Arches National Park. There is 70,000 gallons of storage and distribution to points of use. At present we are collecting water use data, making legal ties and maps for submitting proof of appropriation. Fourteen year period ends February 28, 1993.

Request is made for reinstatement and extension of time for filing proof from February 28

19 88 to February 28 19 1990

Stanley L. Ponce
Chief, Water Rights Branch National Park Service
APPLICANT (If a corporation, give title of officer signing.)

Subscribed and sworn to before me this 12th day of January 19 88

Mary Anne Atencio
NOTARY PUBLIC
Commission Expires: 2-21-90

FOR OFFICE USE ONLY

PROOF DUE DATE _____ 14 YEAR PERIOD ENDS _____

REMARKS _____

RECOMMENDED DISPOSITION _____

_____ CALENDAR
_____ COMPUTER
_____ INDEXED

10-19-1979: letter to arches national park from state of utah regarding request for water users claim no. 01-25

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RIGHTS

DEE C. HANSEN
STATE ENGINEER
EARL M. STAKER
DEPUTY

MARK P. PAGE
AREA ENGINEER

74 WEST MAIN STREET
P.O. BOX 718
PRICE, UTAH 84501
637-1303

October 19, 1979

United States of America
c/o Larry Reed
Arches National Park
Moab, Utah 84532

Re: Water Users Claim No. 01-25

Dear Mr. Reed:

At your request, this office recently completed the necessary field work prior to the preparation of a Statement of Water Users Claim(s) on your water right(s). Subsequent to our field work, you were sent 3 copies of Water Users Claim(s) which you were asked to review, and if everything was in order, you were to sign the claims in the presence of a Notary Public and return the original and the first copy to this office, and retain the third copy for your records.

As of this date, we have not received the above-numbered Water Users Claim(s). If you have misplaced them, please contact this office and we will send you some additional forms. However, if you do have the claims, sign and return them to this office within ten (10) days. You should be aware that your delay could jeopardize the validity of your water right.

Should you have any questions concerning this matter, please do not hesitate to call or write. Your urgent attention will be appreciated.

Sincerely,

Mark P. Page

Mark P. Page
Area Engineer

MPP:lmg

NOTE: On October 22, 1979, Region contacted John Urbanek about this matter and stated they (Mekeel and Hermance) are in the process of completing.

10-16-1979: memorandum to regional director from acting superintendent regarding water user's claim no. 01-25

Rocky Mountain Regional Office

OCT 1 '79

United States Department of the Interior

NATIONAL PARK SERVICE
ARCHES AND CANYONLANDS NATIONAL PARKS
NATURAL BRIDGES NATIONAL MONUMENT
MOAB, UTAH 84532

IN REPLY REFER TO:
D5039

October 16, 1979

Regional Director	
Deputy Reg. Director	
Administration	
Park Operations MAS	
Plan & Resource Pres.	
Executive Assistant	
Communications & P.A.	
EEO	
Action Taken	

Memorandum

To: Regional Director, Rocky Mountain Region

Attention: Water Resources

From: Acting Superintendent, Canyonlands

Subject: Water User's Claim No. 01-25, Arches N. P.

The attached letter is follow-up correspondence from the Utah Division of Water Rights regarding the Arches Water User's Claim No. 01-25. We attached the first letter to a memo we sent you dated September 28, 1979. In our memo we tried to clear up some ambiguities and anticipated that your office, if anyone, could clear up the matter.

Not being aware of what action you have taken but presuming the proper one, we request you handle this one also.

In a separate memo we are writing to the Utah Division of Water Rights requesting that all matters concerning water rights in Canyonlands, Arches and Natural Bridges be addressed to your office.

John C. Urbanek

Enclosure

10-16-1979: letter to division of water rights from nps regarding correspondence concerning water user's claim no. 01-25

United States Department of the Interior
NATIONAL PARK SERVICE
ARCHES AND CANYONLANDS NATIONAL PARKS
NATURAL BRIDGES NATIONAL MONUMENT
MOAB, UTAH 84532

IN REPLY REFER TO:
D5039

October 16, 1979

Division of Water Rights
Southeastern Area Office
Post Office Box 718
Price, Utah 84501

Attention: Mr. Mark P. Page
Area Engineer

Gentlemen:

In the past few weeks we have received some correspondence concerning Arches National Park Water User's Claim No. 01-25. This correspondence was addressed to Arches National Park and required action concerning this claim.

Because we have a Regional Water Resources office in Denver that handles these claims, your correspondence was forwarded there. To save confusion and delays we request that in the future you write directly to the following address:

Regional Director
Rocky Mountain Region
National Park Service
P. O. Box 25287
Denver, CO 80225

Attention: Water Resources

Thank you very much for your cooperation.

Sincerely yours,

John C. Urbanek
Acting Superintendent

cc: Water Resources, Denver

10-05-1979: letter to arches national park from state of utah regarding request for claim no. 01-25 for water rights on application n

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RIGHTS

DEE C. HANSEN
STATE ENGINEER

EARL M. STAKER
DEPUTY

MARK P. PAGE
AREA ENGINEER

74 WEST MAIN STREET
P.O. BOX 718
PRICE, UTAH 84501
637-1303

October 5, 1979

United States of America
c/o Larry Reed
Arches National Park
Moab, Utah 84532

Re: Water Users Claim No. 01-25

Dear Mr. Reed:

Recently this office sent to you Claim No. (01-25) for water rights on Appl. No. 13619 (01-25). As of this date, we have not received the claims from you.

Please contact this office if you have misplaced them, and we will send you some additional forms. If it is a question or problem you have, we will be happy to help in any way we can. However, if you do have the claims, and there are no problems, sign them in the presence of a Notary Public and return them to us within ten (10) days.

Your cooperation will be appreciated. I hope to hear from you soon.

Sincerely,

Mark P. Page

Mark P. Page
Area Engineer

MPP:lmg

09-20-1979: letter to arches national park from state of utah regarding proof of appropriation on application no. 13619 (01-25)

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RIGHTS

DEE C. HANSEN
STATE ENGINEER

EARL M. STAKER
DEPUTY

MARK P. PAGE
AREA ENGINEER

74 WEST MAIN STREET
P.O. BOX 718
PRICE, UTAH 84501
637-1303

September 20, 1979

United States of America
Arches National Park
Moab, Utah 84532

Re: Water Users Claim No. 01-25

Dear Sir:

In lieu of Proof of Appropriation on Application No. 13619 (01-25) you elected to File an Election to have the State Engineer's Office prepare a Statement of Water Users Claim in the pending general determination of water rights.

The enclosed Water Users Claim(s) have been prepared by the Division of Water Rights to cover the proof on the above-referenced application. Examine the claim(s) carefully, and if there is any additional information which you feel should be on the claim(s), you may add the information with a pen containing black ink.

If you are in agreement with the information on the claim(s), please sign the three copies in the presence of a notary, and return the first two copies to this office within 15 days of the date hereon. Retain the third copy for your records.

Should you have any questions, please feel free to come into the Southeastern Utah Area Office located at 74 West Main, P.O. Box 718, Price, Utah 84501, or phone us at 637-1303.

Thanking you in advance for your cooperation.

Sincerely,

Mark P. Page

Mark P. Page
Area Engineer

MPP:lmg

09-20-1979: letter to arches national park from state of utah regarding domestic well pumping a volume of water in excess of appr

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RIGHTS

DEE C. HANSEN
STATE ENGINEER

EARL M. STAKER
DEPUTY

74 WEST MAIN STREET
P.O. BOX 718
PRICE, UTAH 84501
637-1303

MARK P. PAGE
AREA ENGINEER

September 20, 1979

United States of America
c/o Larry Reed
Arches National Park
Moab, Utah 84532

Re: Water Users Claim No. 01-25

Dear Mr. Reed:

As a result of the proof done on your domestic well, Application No. 13619 (01-25), it was found you are pumping a volume of water of 0.13 second-feet. This quantity is in excess of your approved right of 0.088 second-feet. I suggest you complete the enclosed application in order to acquire a water right on the 0.042 second-feet of water you are now using, but as yet to have no established right.

Since your Application No. 13619 (01-25) was received by us some 39 years ago, you may want to amend your figures on employees, residences, and visitor use days on your new application under Explanatory. Your projected values will insure a complete definition on the purpose and nature of use on your existing and proposed water rights.

If you have any questions, please contact us at 637-1303 or at 74 West Main Street in Price, Utah. Your cooperation will be greatly appreciated.

Sincerely,

Jeffrey M. Lucero

Jeffrey M. Lucero
Hydrologic Engineer

JML:lmg

enclosures

ARCH/WR#1

A T T E N T I O N

THIS FORM IS TO BE USED ONLY WHEN WATER HAS BEEN PLACED TO FULL BENEFICIAL USE

Form 152

BEFORE THE STATE ENGINEER OF THE STATE OF UTAH

ELECTION TO FILE WATER USER'S CLAIM

APPLICATION NO. 13619 (01-25)

STATE OF UTAH)
) ss.
COUNTY OF Grand)

Richard W. Ketcham for the United States of America, being first duly sworn, says that he is the owner of the above application; that the development contemplated under this application has been completed and the water placed to beneficial use.

In lieu of submitting "Proof of Appropriation" or "Certificate of Change", the applicant hereby elects to file a "Statement of Water User's Claim" or an "Amended Statement of Water User's Claim" in the pending GENERAL DETERMINATION OF WATER RIGHTS; and that the applicant requests that said statement be prepared by the State Engineer and submitted for execution at an early date.

Richard W. Ketcham
APPLICANT

Subscribed and sworn to before me this 17th day of January, 1973.

John T. Marcus
NOTARY PUBLIC

SEAL

12-29-1972: letter to nps from state of utah regarding records indicate no proof on application no. 13619 (01-25) to appropriate wa

Form 38

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

442 STATE CAPITOL
SALT LAKE CITY, UTAH 84114

DIVISION OF
WATER RIGHTS

HUBERT C. LAMBERT
STATE ENGINEER

December 29, 1972

National Park Service
1709 Jackson Street
Omaha, Nebraska 68102

Gentlemen:

Re: Application No. **13619 (01-25)**

To appropriate water in Utah or to change the point of diversion, place, and nature of use of water, you must make application, receive approval, complete the intended development work, and submit proof that the water has been put to beneficial use. Our records indicate that you have not made proof on your application. This is due **February 28, 1973.**

In those areas in which general adjudication proceedings are pending and elections are authorized, the applicant can either:

1. Submit a satisfactory proof of appropriation.
   or
2. Elect to file a statement of water user's claim in lieu of proof of appropriation.
   or
3. Request an extension of time.

Failure to complete one of the above three actions on or before the proof-due date shall cause the application to lapse.

If development is not complete, additional time may be allowed by completing the enclosed request for extension of time and submitting it in affidavit form on or before the proof-due date. Since fourteen years or more have passed since approval of the application, your request for extension of time can only be granted after publication of notice of such request and a hearing before the State Engineer. The fee for filing this request is $25. Also enclosed is an election to file a water user's claim in lieu of proof for submission if the project is complete.

Yours truly,

Hubert C. Lambert

Hubert C. Lambert, State Engineer

jh
Encs. Forms 30 & 152

Registered Mail

PROOF DUE-ADV. REQ.

08-27-1970: letter to nps from state of utah regarding request for extension of time in which to submit proof of appropriation or pro

Form 19

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

442 STATE CAPITOL
SALT LAKE CITY, UTAH 84114

DIVISION OF
WATER RIGHTS

HUBERT C. LAMBERT
STATE ENGINEER

August 27, 1970

RE: L54 (WSC) LWW
ARCH
(WR Docket #1)

United States National Park Service
Western Service Center
Water Resources Secretary
Office of Land Acquisi tion and Water Resources
450 Golden Gate Avenue
P.O. Box 36025
San Francisco, California 94102

Gentlemen: RE: APPLICATION NO. 13619 (01-25)

Request for extension of time in which to submit Proof of Appropriation or Proof of Change contemplated by the above application has been considered and the time for receiving proof is hereby extended from February 28, 1970 to February 28, 1973 inclusive.

Yours truly,

Hubert C. Lambert

ADDRESS ALL COMMUNICATIONS TO:

STATE ENGINEER
442 State Capitol
Salt Lake City, Utah 84114

jl

Enc. Memorandum Decision

EXTENSION GRANTED

P.S. Although this extension is granted in accordance with the provisions of the law, I earnestly recommend that you proceed to prepare and submit proof at the earliest possible date. One cannot foresee what contingencies might arise in the future; the present possession of your certificate might stand you in good stead.

BEFORE THE STATE ENGINEER OF THE STATE OF UTAH

IN THE MATTER OF APPLICATION §
§ MEMORANDUM DECISION
NO. 13619 (01-25) §

Application No. 13619 (01-25) was submitted on May 17, 1940 by the United States of America, National Parks Service, Coolidge, Arizona to appropriate 0.088 sec.-ft. of water from a well in Sec. 20, T25S, R21E, SLB&M in Grand County for domestic uses in Arches National Monument. The application was approved on September 19, 1940 and Proof of Appropriation was first due December 15, 1943. Construction of the well was completed on February 29, 1940. Since approval of this application the applicant has had nine extensions of time within which to submit Proof of Appropriation. The most recent extension was granted to February 28, 1970. On February 26, 1970 a Request for Reinstatement and Extension of Time was received from the applicant. The extension request was duly advertised.

On June 17, 1970 a hearing on this most recent extension request was held in Grand County Courthouse, Moab, Utah. The applicant was represented by Joe Miller and William McKeel who indicated that the well constructed under this application was being pumped at the rate of 0.027 sec.-ft. of water. They indicated that this water was insufficient for present uses and that another well would be required. They requested another extension of time so that the remaining 0.061 sec.-ft, of water might be developed.

This office is of the opinion that the 30 years which have elapsed since the approval of this application are more than sufficient for the completion of the development contemplated. It is questioned whether the applicant has complied with the provision of Section 73-3-12, Utah Code Annotated, 1953, which allows the State Engineer to grant extensions of time to applicants upon "proper showing of diligence or reasonable cause for delay." However, we feel that notice of our policy and intention must be given to each applicant before denial of a request for further extension of time.

It is, therefore, ORDERED, and an extension of time within which to submit Proof of Appropriation is hereby GRANTED on Application No. 13619 (01-25) to and including February 28, 1973 with the notation that further requests for extension of time will be critically reviewed and unless definite diligence in the form of additional physical works is shown in the pursuance of the proposed project, this office may deny such request.

This decision is subject to the provision of Section 73-3-14, Utah Code Annotated, 1953, which provides for plenary review by the filing of a civil action in the appropriate district court within sixty days from the date hereof.

Dated this 27th day of August, 1970.

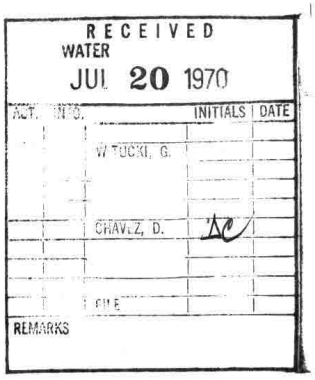
Hubert C. Lambert
Hubert C. Lambert
STATE ENGINEER

JTP

00-00-0000: memorandum to chief from legal assistant regarding extension of time: application no. 13619 (01-25)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ROCKY MOUNTAIN NATIONAL PARK
AND
SHADOW MOUNTAIN NATIONAL RECREATION AREA
ESTES PARK, COLORADO 80517

IN REPLY REFER TO:



Memorandum

To: Chief, Water Resources Section, Office of Land Acquisition and Water Resources, WSC

From: Legal Assistant, Rocky Mountain

Subject: Extension of time, Application 13619 (01-25) Arches N. M.

On June 17, 1970, I attended a hearing in Moab, Utah, in regard to an extension of time of the subject water right. The application was not contested and the requested extension of time (2/28/73) was granted.

It is my understanding that the most this well has ever produced is 18 gallons per minute and apparently is incapable of a higher production. The amount on the application for water right indicates .088 cubic ft. per second. A new well is contemplated in the same general area when funds become available. Since the application for the water right has been pending for over 30 years, proof of beneficial use should be made before the present extension of time expires. In the event a new well proves successful, the yield therefrom could be added as a supplemental supply to the present application to the extent of .088 cubic ft per second. If a new well could provide the full requested amount the old well could be abandoned and a change of point of diversion requested.

William L. Mekeel
William L. Mekeel

06-04-1970: letter to nps from state of utah regarding notification of meeting to be held on application no. 13619 (01-25)

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

442 STATE CAPITOL
SALT LAKE CITY, UTAH 84114

DIVISION OF
WATER RIGHTS

HUBERT C. LAMBERT
STATE ENGINEER

Form 25

June 4, 1970

Refer to: L54 (WSC) LWW
ARCH
(WR Docket #1)

United States National Park Service
Western Service Center
Water Resources Secretary
Office of Land Acquisition and Water Resources
450 Golden Gate Avenue
P.O. Box 36025
San Francisco, California 94102

Gentlemen: Re: Appl. No. 13619 (01-25)

This is to notify you of a meeting to be held on the above-numbered application at 9:00 A.M. Wednesday, June 17, 1970 in the County Courthouse, Moab, Utah.

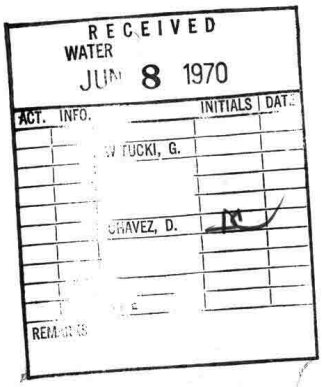
The applicant or his representative must attend this meeting, be prepared to show what work has been completed to date, justify the extension requested, and answer any protests. Please calendar this date for your future attention.

Yours truly,

Earl M. Staker

Earl M. Staker
Directing Appropriations Engineer

jl



6/12/70
C/S sent: Alex Koehler SWE
WE Mekeel Rocky
Supt Wilson, Canyon

02-13-1970: letter to nps from state of utah regarding reminder to have proof or request for extension of time filed for application n

Form 11

STATE OF UTAH

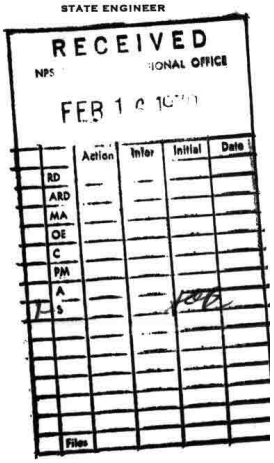
DEPARTMENT OF NATURAL RESOURCES

442 STATE CAPITOL
SALT LAKE CITY, UTAH 84114

DIVISION OF
WATER RIGHTS

HUBERT C. LAMBERT
STATE ENGINEER

February 13, 1970



United States National Park Service
Southwest Region
Santa Fe, New Mexico 87501

Gentlemen: Re: Appl. No. 13619 (01-25)

It is noted from our files that you have only fourteen more days in which to submit proof before the lapsing of your application.

This letter is sent to remind you to have your proof or a request for extension of time filed in this office on or before the proof-due date of your application which is February 28,1970.

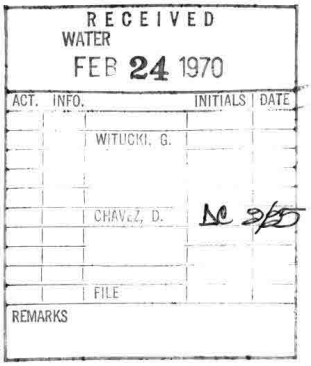
Enclosed is a request for extension of time form in case you have misplaced the one previously sent to you.

Yours truly,

Hubert C. Lambert
Hubert C. Lambert
State Engineer

mt

Enc. Request Form



02-11-1970: request for reinstatement and extension of time: application no. 13619 (01-25)

FORM 29

IN THE OFFICE OF THE STATE ENGINEER OF THE STATE OF UTAH
REQUEST FOR REINSTATEMENT AND EXTENSION OF TIME
(Before Fourteen Years)

APPLICATION NO. 13619 (01-25)
STATE OF UTAH
COUNTY OF Grand

Applicant's Present Address
National Park Service, Western Service Cnt
Water Res., Sec., Office of Land Acq. &
Water Resources, 450 Golden Gate Ave.
P. O. Box 36025, San Francisco, Calif. 94102

_____, being first duly sworn that he is the (agent of the) owner of the above-numbered application; that he knows of his own knowledge of the construction of works completed to date.

Describe briefly the type and extent of construction completed to date; cost of this construction, and the estimated cost of any remaining construction to be done for completion of project and to submit Proof of Appropriation. Give reasons why the work could not be completed and water put to beneficial use within time heretofore allowed. We have drilled a twelve inch (12") well, 123.4' deep with 8" casing throughout Water is being pumped through approximately 7000' of various size water lines for the utility area, seven permanent residences, one four-unit apartment house, and Headquarters Visitor Center at Arches National Monument. As visitation to this area continues to increase, it is anticipated that the present water system will require modification, with the possibility of an additional well. We anticipate that full beneficial use of the appropriate .088 cfs will eventually be needed.

Request is made for reinstatement and extension of time for filing proof

from February 28, 1970, to February 28, 1973

Affiant understands he will be notified of a hearing date, at which time he or his representative must attend, be able to defend data given; and affiant upon oath states that the information given above is to the best of his knowledge true and correct.

Gerard S. Witucki, Chief, Water Resources Sec.
Office of Land Acquisition and Wtr. Res., WSC
San Francisco, California
(APPLICANT)
(If a corporation, give title of officer signing)

Subscribed and sworn to before me this 11 day of February, 1970

J. Douglas
NOTARY PUBLIC
DEPUTY CLERK U. S. DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA

****

FOR OFFICE USE ONLY

PROOF DUE DATE _____ 14 YEAR PERIOD ENDS _____

HEARING _____

APPLICANT DID APPEAR _____ APPLICANT DID NOT APPEAR _____

APPLICANT REPRESENTED BY _____

REMARKS _____

RECOMMENDED DISPOSITION: _____

12-30-1969: letter to nps from state of utah regarding no proof of appropriation or change on application no. 13619 (01-25)

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

442 STATE CAPITOL
SALT LAKE CITY, UTAH 84114

December 30, 1969

Form 18

United States National Park Service
Southwest Region
Santa Fe, New Mexico 87501

Gentlemen: Re: Application No. 13619 (01-25

To appropriate water in Utah you must receive approval of an application, complete the intended development work, and submit proof that the water has been put to beneficial use. Upon submission of satisfactory proof, a certificate will be issued, which is your evidence of a water right. Our records indicate that you have not made proof of appropriation or change on your application. This is due February 28, 1970.

Proof must be prepared by a registered engineer or land surveyor and must be filed in this office on or before the above proof-due date. Failure to make proof by this due date shall cause the application to lapse. Blank forms for submitting proof will be sent upon request.

If proof cannot be submitted at this time, an extension of time may be requested by completing the enclosed form and submitting the request in affidavit form on or before the proof-due date. Since fourteen years or more have elapsed since approval of your application, your request for extension of time can only be granted after publication of notice of such request and a hearing before the State Engineer. The fee for filing this request is $25. Submission of a request for an extension of time in no way guarantees that it will be granted. An extension can be granted only after the applicant has made a showing of diligence at the hearing before the State Engineer.

Requests should not be made for unreasonable periods of time beyond that needed to complete the appropriation and proof.

Yours truly,

Hubert C. Lambert

Hubert C. Lambert
State Engineer
442 State Capitol
Salt Lake City, Utah 84114

mt

Enc. Form 30

PROOF DUE -- ADVERTISING REQUIRED

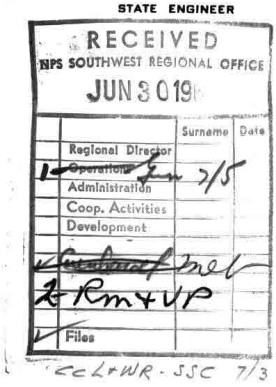
06-28-1967: letter to nps from state of utah regarding request for extension of time to submit proof of appropriation or proof of cha

Form 19

THE STATE OF UTAH
OFFICE OF STATE ENGINEER

SALT LAKE CITY
June 28, 1967

HUBERT C. LAMBERT
STATE ENGINEER



#1

United States of America
Department of the Interior
National Park Service
Southwest Region
Santa Fe, New Mexico 87501

Gentlemen: RE: APPLICATION NO. 13619 (01-25)

Request for extension of time in which to submit Proof of Appropriation or Proof of Change contemplated by the above application has been considered and the time for receiving proof is hereby extended from September 19, 1966 to February 28, 1970 inclusive.

Yours truly,

Hubert C. Lambert

ADDRESS ALL COMMUNICATIONS TO: STATE ENGINEER
442 State Capitol
Salt Lake City, Utah 84114

nh

EXTENSION GRANTED

P.S. Although this extension is granted in accordance with the provisions of the law, I earnestly recommend that you proceed to prepare and submit proof at the earliest possible date. One cannot foresee what contingencies might arise in the future; the present possession of your certificate might stand you in good stead.

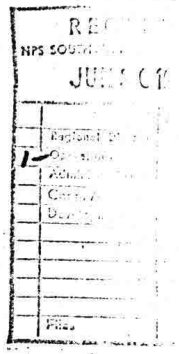
L54 ARCH

06-28-1967: letter to nps from state of utah regarding request for extension of time in which to submit proof of appropriation or pro

Form 19

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY
June 28, 1967

HUBERT C. LAMBERT
STATE ENGINEER



WR Data =
Areas Ltd.

United States of America
Department of the Interior
National Park Service
Southwest Region
Santa Fe, New Mexico 87501

Gentlemen: RE: APPLICATION NO. 13619 (01-25)

Request for extension of time in which to submit Proof of Appropriation or Proof of Change contemplated by the above application has been considered and the time for receiving proof is hereby extended from September 19, 1966 to February 28, 1970 inclusive.

Yours truly,

Hubert C. Lambert

ADDRESS ALL COMMUNICATIONS TO: STATE ENGINEER
442 State Capitol
Salt Lake City, Utah 84114

nh

EXTENSION GRANTED

P.S. Although this extension is granted in accordance with the provisions of the law, I earnestly recommend that you proceed to prepare and submit proof at the earliest possible date. One cannot foresee what contingencies might arise in the future; the present possession of your certificate might stand you in good stead.

WASO

06-22-1967: memorandum to supervisory hydraulic engineer from nps regarding water rights hearings

File
Arch Docket No. 1
NABR - Docket No 1
Copy in 1

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Canyonlands National Park
Arches and Natural Bridges National Monuments
Moab, Utah 84532

IN REPLY REFER TO:
L54SSCLW

June 22, 1967

Memorandum

To: Supervisory Hydraulic Engineer, SSC

From: Acting Superintendent, Canyonlands

Subject: Water Rights Hearings, Moab, Utah and Monticello, Utah

The writer attended the hearing (File) in the Grand County courthouse June 21 regarding application No. 13619. The State Engineer's representative granted an extension to September 19, 1968. He was quite concerned over the fact that this application is now 27 years old and urged that we take action to establish proof of use as soon as possible.

On June 22, I attended similar meeting in the San Juan County courthouse in Monticello, Utah regarding application No. 36575 (99-38), Natural Bridges. The State Engineer's representative granted an extension to February 28, 1972.

Roger J. Contor

Roger J. Contor

cc:
Reg.Dir.,SWRO

Recd 6/26
Morning Mail

Rec'd upon Mr. Fields' return to Asst. Dir. Spec. Attn. Mail Dated July 13, 1967.

06-07-1967: memorandum to superintendent from supervisory hydraulic engineer regarding water rights hearing on request for ext

File

Weaver
Fields

L54 SSCLW
ARCH Docket No. 1

June 7, 1967

Memorandum

To: Superintendent, Canyonlands National Park

From: Supervisory Hydraulic Engineer, SSC

Subject: Water Rights Hearing, County Courthouse, Moab, Utah
Docket No. 1

We have been notified that the Office of the State Engineer will conduct a hearing on our request for extension of time for Application No. 13619. This application covers the well at Arches headquarters water system covering .088 second-feet of water to be diverted from an 8-inch well, 123 feet deep.

We have informed them that $48,000 was spent on well, pump and conveyance lines, and that $322,000 has been spent on additional buildings, visitors' center and new residences. We have requested the additional time in order to complete the project and submit proof of appropriation. Primarily this additional time will allow us to place into effect all of the beneficial uses which we anticipate.

The hearing will be held at 9:00 AM on Wednesday, June 21, 1967, at the County Courthouse. Would you represent the Service at this hearing? If assistance is required from this office, would you please notify us immediately?

William E. Fields

cc: Ch. Br. Water Resources, WASO
Regional Director, SWR

WEFields:mlk

TALKED TO
MR. CARTER
ASST SUPT. 6/14/67
(WILL ATTEND)
R.K. WOMACK

m to SSC-SLW

THE STATE OF UTAH
OFFICE OF STATE ENGINEER

SALT LAKE CITY
June 2, 1967

HUBERT G. LAMBERT
STATE ENGINEER

Rec'd WR 6/15

Form No. 25

RECEIVED
San Francisco Planning and Service Center
Office of Land and Water Rights
NATIONAL PARK SERVICE
JUN 12 1967

ACT.	INFO.		INITIALS	DATE
	✓	CHIEF		
	✓	ASS'T. CHIEF		
		SUPV. APPR.		
		SUPV. Hyd. Eng.		
✓				

RECEIVED
NPS SOUTHWEST REGIONAL OFFICE
JUN 5 - 1967

	Surname	Date
Regional Director		
Operations		
Administration		
Coop. Activities		
Development		
Files		

United States of America
Department of the Interior
National Park Service
Southwest Region
Santa Fe, New Mexico 87501

Gentlemen:

Arches
RE: APPLICATION NO. 13619 (01-25)

This is to notify you of a meeting to be held on the above application at 9:00 a.m., Wednesday, June 21, 1967, at the County Courthouse, Moab, Utah.

The applicant or his representative must attend this meeting, be prepared to show what work has been completed to date, justify the extension requested, and answer any protests. Please calendar this date for your future attention.

Yours truly,

Donald G. Stewart
APPROPRIATIONS ENGINEER

mt

WASO,

Form 10-550
(Nov. 1958)

U. S. DEPARTMENT OF THE INTERIOR - NATIONAL PARK SERVICE

FIXED PROPERTY RECORD

DESCRIPTION OF PROPERTY *(Include reference to the location within the Park; how the asset was acquired, name of contractor, etc.)*

UTILITIES - Water System - Work accomplished under Account B-1, Contract Nos. 14-10-333-436 and 14-10-333-476 as follows:

1 - Water well, drilled, developed and cased with 8" casing under Contract No. 14-10-333-436
1 - Tank, steel, water, 50,000 gallons
1 - Pump house, cement block, 10' x 10'
1 - Pump, electric, 5 HP & heater
8 - Hydrants, Fire, 6"
4,036 Lin. ft. pipe, A.C., Class 150, 6"
Miscellaneous valves, valve boxes, galvanized steel pipe, manhole, concrete anchors, combination straight stream spray nozzles and fire hoses under Contract No. 14-10-333-476

The original system consists of:

1 - Tank, concrete, water, 20,000 gallons

1,220 ft. Line, water, 2" galvanized pipe

Line	DATE	REFERENCE		QUANTITY			COST		
		Journal Vou.	Other	Unit	No. of Units	Accumulated Total	Direct Costs	Indirect Costs	Accumulated Costs
1	1/21/60	33-212		System	1	1	$53,520.19	$8,030.12	$61,550.31
2	1/31/59	33-149							
3	6/30/63	483					123.00	19.68	61,692.99
4	3/18/65	398	WO B-6	Extension			$ 1,236.86	$ 197.90	$ 63,127.75
5									

G.P. Act. No.	General Classification	Sub-Classification	Region	State	Park or Office
1008	UTILITIES	WATER SYSTEM	Three	Utah	ARCH

09-15-1966: request for reinstatement and extension of time: application no. 13619 (01-25)

FORM 30

IN THE OFFICE OF THE STATE ENGINEER OF THE STATE OF UTAH
REQUEST FOR REINSTATEMENT AND EXTENSION OF TIME
(After Fourteen Years)

APPLICATION NO. 13619 (01-25))
STATE OF UTAH)
COUNTY OF Grand)

Daniel B. Beard, being first duly sworn says that he is the (agent of the) owner of the above-numbered Application; that he knows of his own knowledge of the construction of works completed to date.

Describe briefly the type and extent of construction completed to date; cost of this construction, and the estimated cost of any remaining construction to be done for completion of project and to submit proof of appropriation. Give reasons why the work could not be completed and water put to beneficial use within time heretofore allowed.

We have drilled a twelve inch (12") well, 123.4' deep, cased with 8" casing throughout. Water pumped through 6709' of various size water lines for utility area, five (5) permanent residences; one (1) 4-unit apartment house; visitor center for Headquarters, Arches National Monument. Installed pump capable of producing only 12.1 gpm. We have to date spent $48,000 on the water system alone. In addition we have spent $222,000 on utility buildings, visitor center and new residences. During the past summer water use in the area has caused the 12 gpm pump to work full time. As visitation increases there will be a need to increase the pump size in the well and possibly deepen the well. We anticipate that full beneficial use of the appropriated .088 cfs will eventually be needed.

Request is made for reinstatement and extension of time for filing proof from September 19, 1966, to September 19, 1968.

Affiant understands he will be notified of a hearing date, at which time he or his representative must attend, be able to defend data given above, and answer any protests thereon; and affiant upon oath states that the information given above is to the best of his knowledge true and correct. $25.00 is tendered herewith for publishing notice to water users.

UNITED STATES OF AMERICA
Daniel B. Beard
Daniel B. Beard APPLICANT Regional Director
National Park Service, Southwest Region
(If a corporation, give title of officer signing)

Subscribed and sworn to before me this 15th day of September, 19__.

NOTARY PUBLIC
* * * * * * * * * * My Commission expires: June 23, 1970

FOR OFFICE USE ONLY

REQUEST RECEIVED_____ADV. FEE $25.00 RECD._____by_____
RECEIPT NO._____NOTICE PUBLISHED WEEKLY IN_____
BEGINNING_____AND ENDING_____

FOR OFFICE USE ONLY

PROOF DUE DATE_____14 YEAR PERIOD ENDS_____

HEARING_____

APPLICANT DID APPEAR_____APPLICANT DID NOT APPEAR_____

APPLICANT REPRESENTED BY_____

REMARKS_____

RECOMMENDED DISPOSITION:_____

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
SAN FRANCISCO PLANNING AND SERVICE CENTER
Office of Land and Water Rights
P. O. Box 728
Santa Fe, New Mexico
87501

NATIONAL PARK SERVICE 1916 1966 50TH ANNIVERSARY

IN REPLY REFER TO:
L54

SEP 6 1966

Memorandum

To: Supervisory Hydraulic Engineer, SSC

From: Hydraulic Engineer, SSC, Santa Fe

Subject: Special Order No. 13619 (01-25) for Proof of Beneficial Use for Headquarters Well, Arches National Monument

Enclosed is a copy of the subject Special Order which orders us to either make Proof of Beneficial Use or request an Extension of Time for the Headquarters replacement well at Arches National Monument.

This notice should have been sent out on February 28, 1966 but was overlooked by the State Engineer. This follow up was requested from the State Engineer and allows us until September 19, 1966 to submit the proof. As a follow up of our telephone agreement to proceed with the proof I have already made a sketch of the as-built tanks and water lines. (I did this one day last week during the pump test of Well No. 2 at Upheaval Bottom while the pump was broken down.) This sketch is now complete on a hard sheet and I have Gary Everhart's, (he is acting in Tom Moran's place), permission to utilize Clyde to do the finished drawing. When I return to Moab to complete the pump test I will measure with precision the flow of water into the tank during the night hours. This is necessary because all water use will have to cease in the area during the measuring time. I will then fill out the proof forms, certify them as a registered engineer and submit them to the State Engineer. As things now stand I see no problem of having complete proof submitted prior to the required date.

I have inserted this document in Docket No. 1, Arches and am sending enough copies so that you can distribute them to Superintendent, Canyonlands, and WASO for insertion in their dockets.

I am also enclosing copies of DRILLING AND TEST PUMPING A REPLACEMENT WELL AT ARCHES NATIONAL MONUMENT, GRAND COUNTY, UTAH by Don Price, dated 1959. I got this from the dead files in Denver. I am also inserting it in Docket No. 1.

William E. Fields Jr.
William E. Fields

Enclosures

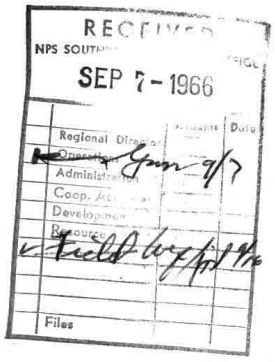
09-02-1966: letter to nps from state of utah regarding notification of deadline to submit proof before the lapsing of application no. 1

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

STATE ENGINEER

Form No. 11

September 2, 1966



U.S. Department of the Interior
National Park Service
Southwest Region
Santa Fe, New Mexico

Gentlemen: RE: APPLICATION NO. 13619 (01-25)

It is noted from our file that you only have 14 more days in which to submit proof before the lapsing of your application.

It is extremely dangerous to permit such a lapsing to occur so this letter is sent to remind you not to fail to have your proof, or a request for extension of time, filed in this office before the proof due date of your application which is September 19, 1966.

Enclosed for your convenience is a form for requesting an extension of time in case you have misplaced the one previously mailed to you.

Yours truly,

Hubert C. Lambert

Hubert C. Lambert
STATE ENGINEER

sjz.
Enc: Request for
Extension of Time

L54

7/21/66

BEFORE THE STATE ENGINEER OF THE STATE OF UTAH

IN THE MATTER OF APPLICATION)
) SPECIAL ORDER
NO. 13619 (01-25))

WHEREAS, Application No. 13619 (01-25) in the name of the United States of America, National Park Service was approved by the State Engineer on September 19, 1940, and the time in which to submit Proof of Appropriation was extended to February 28, 1966, and

WHEREAS, the 14-year period allowed by the law without readvertising to complete and submit proof under Application No. 13619 (01-25) ended on September 19, 1954, and

WHEREAS, the State Engineer failed to give the applicant the sixty days notice of this proof due date as required by statute,

NOW, THEREFORE, IT IS ORDERED that the applicant be allowed sixty days from the date of this order, or until September 19, 1966, within which to either submit Proof of Appropriation or a request for further extension of time with the necessary $25 readvertising fee. If proof or an extension of time request with the filing fee is not received on or before the above date, the application will lapse.

Dated this 21st day of July, 1966.

Hubert C Lambert

Hubert C. Lambert, STATE ENGINEER

DGS:sjz

REGISTERED MAIL

Enc: Request for Extension of Time Form

06-30-1959: letter to nps from state of utah regarding request for extension of time in which to submit proof of appropriation or pro

FORM L10 6-57 100M

RECEIVED
Chief Clerk's Office

1959 JUL 6 PM 1:01

Docket
Arches
L54

THE STATE OF UTAH
OFFICE OF STATE ENGINEER

SALT LAKE CITY
June 30, 1959

Pace
DR Lee

National Park Service
c/o M. A. Van V. Dunn
Chief, Water Resources Branch
Washington 25, D. C.

Gentlemen:

RE: APPLICATION No. 13619

Request for Extension of Time in which to submit Proof of Appropriation or Proof of Change contemplated by the above application has been considered and the time for receiving proof is hereby extended from Dec. 15, 1958 to Feb. 28, 1966 inclusive.

Yours truly,
Wayne D. Criddle

ADDRESS ALL COMMUNICATIONS TO:
STATE ENGINEER
403 STATE CAPITOL
SALT LAKE CITY 1
UTAH

gm

EXTENSION GRANTED

Reg. 3

P. S. Although this extension is granted in accordance with the provisions of the law, I earnestly recommend that you proceed to prepare and submit proof at the earliest possible date. One cannot foresee what contingencies might arise in the future; the present possession of your certificate might stand you in good stead.

OUR COPY

L54 AREA

STANDARD FORM NO. 64

Office Memorandum • UNITED STATES GOVERNMENT

TO : Regional Chief of Lands

DATE: 4/24/59

FROM : Superintendent, Arches

SUBJECT: Notices, Moab Times Independent

Attached are copies of the notices which were published in the Moab Times Independent, as requested in your Memorandum of 4/15/59, for required reproduction for all copies of the water rights docket.

Gerald A. Beavers
Administrative ~~Assistant~~

RECEIVED
APR 29 1959

NOTICE TO WATER USERS

Notice is hereby given that National Park Service, by A. van V. Dunn, Chief Water Resources Section, Washington, D. C., has filed with the State Engineer, a request for an extension of time from December 15, 1958 to December 15, 1966, in which to make and submit Proof of Appropriation of Water under Application No. 13619 for the appropriation of .088 sec.-ft. of water for domestic use at the Arches National Monument in Grand County.

It is represented that approximately $5,560.00 has been expended on works. It is estimated 1959 Fiscal Year construction will cost approximately $65,000.-00. Additional time is requested to complete project and apply the water to beneficial use.

Protests resisting the granting of said request, with reasons therefor must be in affidavit form, with extra copy and filed with the State Engineer, 403 State Capitol, Salt Lake City, Utah, on or before May 23, 1959.

A hearing will be held on this request for extension of time before the State Engineer at 10:00 a. m. Wednesday, June 17, 1959, at county courthouse, Moab, Utah. Protestants may appear at the hearing and adduce testimony in support of their protests.

Wayne D. Criddle
STATE ENGINEER

(Published in The Times-Independent, Moab, Utah, April 9, 16 and 23, 1959.)

fc

LEGAL NOTICES

NOTICE TO WATER USERS

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It is represented that approximately $5,560.00 has been expended on works. It is estimated 1959 Fiscal Year construction will cost approximately $65,000.-00. Additional time is requested to complete project and apply the water to beneficial use.

Protests resisting the granting of said request, with reasons therefor must be in affidavit form, with extra copy and filed with the State Engineer, 403 State Capitol, Salt Lake City, Utah, on or before May 23, 1959.

A hearing will be held on this request for extension of time before the State Engineer at 10:00 a. m. Wednesday, June 17, 1959, at county courthouse, Moab, Utah. Protestants may appear at the hearing and adduce testimony in support of their protests.

Wayne D. Criddle
STATE ENGINEER

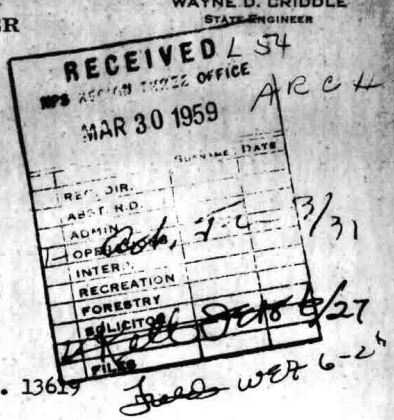
(Published in The Times-Independent, Moab, Utah, April 9, 16 and 23, 1959.)

03-26-1959: letter to nps from state of utah regarding application to drill a replacement well and file a well driller's report for applic

THE STATE OF UTAH
OFFICE OF STATE ENGINEER

WAYNE D. CRIDDLE
STATE ENGINEER

SALT LAKE CITY 14
March 26, 1959



United States Dept. of Interior
National Park Service
Region Three
Santa Fe, New Mexico

Gentlemen: RE: APPLICATION NO. 13619

This is to acknowledge your letter dated March 24, 1959, in which you ask if the Moab Drilling Company filed an application to drill a replacement well and if upon completion they had filed a well driller's report with this office.

Enclosed is a copy of your letter written to us on October 1, 1958, in which you enclosed an application to replace the well under the above-numbered application. Also enclosed is a Thermo-fax copy of the application and one of the well driller report. Should you desire a photo copy of either of these reports, they cost 60¢ per copy.

Yours truly,

Gretchen McClintock

Gretchen McClintock
SECRETARY, APPLICATIONS

GM/s

Enc: Copy of letter
2 thermo-fax reports

03-04-1959: report of well and tunnel driller

Docket 1

PHOTOSTATED 3-4-59 CB
Exam. & Recorded 1-14-59 ALC
Exam. for filing 1-14-59 ALC
Final Copy checked
Indexed 1-14-59
Well No. (D-25-21)20aad

PAGE (Leave Blank)

Report No. 13802
Filed 1-14-59, 19
Rec. By C.C.F.
Ret'd

Report of Well and Tunnel Driller
STATE OF UTAH

Jobbed

(Separate report shall be filed for each well or tunnel)

GENERAL INFORMATION:

Report of well or tunnel driller is hereby made and filed with the State Engineer, in accordance with the laws of Utah. (This report shall be filed with the State Engineer within 30 days after the completion or abandonment of well or tunnel. Failure to file such reports constitutes a misdemeanor.)

1. Name and address of ~~person, company~~ or corporation ~~boring~~ or drilling well ~~or tunnel~~. (Strike words not needed)

Moab Drilling Company INC. Box 487 Moab Utah

2. Name and address of owner of well ~~or tunnel~~ (Strike Words not needed) ~~United States Dept. of Interior~~

National Park Service, Arches National Monument, Utah

3. Source of supply is in Grand County; ..... (Leave blank) drainage area; ..... (Leave blank) artesian basin

4. The number of approved application to appropriate water is I3619

5. Location of well or mouth of tunnel is situated at a point ~~Located 20 ft west of~~ North 13 degrees 30min. west. 634.4' From W¼ Corner Sec. 20 T25S R2IE

(Describe by rectangular co-ordinates or by one course and distance with reference to U S Government Survey Corner — Copy description from well owner's approved application)

6. Date on which work on well ~~or tunnel~~ was begun (Strike words not needed) Nov. 3rd 1958

7. Date on which work on well ~~or tunnel~~ was completed ~~or abandoned~~ (Strike words not needed) Jan. 5th 1959

8. Maximum quantity of water measured ~~as flowing~~, pumped or ..... (Strike words not needed) on completion of well ~~or tunnel in sec. ft~~ .....; or in gals. per minute 12 Date Dec. 22, 58

DETAIL OF COLLECTING WORKS:

9. WELL: It is drilled, ~~dug~~, flowing or pump well. (Strike words not needed) Temperature of water ..... °F.

(a) Total depth of well is 123' ..... ft. below ground surface.

(b) If flowing well, give water pressure (hydrostatic head) above ground surface ..... ft.

(c) If pump well, give depth from ground surface to water surface before pumping 92' .....; during pumping 6 I2 Gal Per Min II5' .....

(d) Size and kind of casing 8" ID. H-40 24LB/FT (If only partially cased, give details)

(e) Depth to water-bearing stratum 92' (If more than one stratum, give depth to each)

(f) If casing is perforated, give depth from ground surface to perforations 96' .....

(g) Log of well Navajo sandstone 0 to I23'

(h) Well was equipped with cap, valve, or ..... (Strike words not needed) ..... to control flow.

RECEIVED JAN 14 1959 STATE ENGINEER'S OFFICE

(Over)

10. **TUNNEL:** It is timbered, tiled, piped, open, bulkheaded, covered or.....
(Strike words not needed)

(a) Dimensions.....; total length.....; temperature of water.....°F.

(b) Position of water bearing stratum or strata with reference to mouth of tunnel.....

.....

.....

(c) Log of tunnel.....

.....

.....

.....

11. **GENERAL REMARKS:** (Note any general or detailed information not covered above).

STATE OF UTAH,
COUNTY OF Utah } ss.

I, Earl E. Lamar, being first duly sworn, do hereby certify that I am the driller of the aforesaid well or tunnel who furnished the foregoing statement of facts; that I have read said statement and each and all of the items therein contained are true to the best of my knowledge and belief.

Earl E. Lamar
Driller

Subscribed and sworn to before me this 13 day of January, 1959.

(SEAL) Marjie M. Shafer
Notary Public

My Commission Expires:
10-27-61

Forwarded with Rpt Dir. 2/18/60 1 which was a copies to Div. Files

10-21-1958: request for extension of time: application no. 13619

FORM 29 1M 6-53

IN THE OFFICE OF THE STATE ENGINEER OF THE STATE OF UTAH

Request for Reinstatement and Extension of Time

(Strike words not needed)

(AFTER FOURTEEN YEARS)

APPLICATION NO. 13619

CITY OF WASHINGTON
DISTRICT OF COLUMBIA } ss.

A. van V. Dunn, being first duly sworn says that he is the agent of the owner of the above numbered Application; that he knows of his own knowledge that the construction of works as contemplated by the Application was actually commenced within 7 months after the date of approval of the Application, and the work has since been prosecuted with diligence.

The nature, extent and approximate cost of construction work done to this date, together with a detailed statement of use to which the water has been put, is as follows: (Describe briefly the type and extent of construction, whether impounding or diversion dam, or diverting channels and give the cost of construction. Indicate what part of the water, if any, covered by this Application has been put to beneficial use, the number of acres irrigated, etc. Mere statement as to general character of works, costs and use will not answer—give details sufficient for one to determine what has actually been done.)

As of June 30, 1958, the status of this project was as reported on December 8, 1954, at cost of $5,650. Incomplete construction resumed July 1, 1958, as described below, to complete main water supply at Headquarters Area, Arches National Monument by June 30, 1959.

The nature, extent and estimated cost of construction remaining to be done to complete the work in accordance with the Application follows: (Describe with same details as required last above.)

1959 Fiscal Year construction started July 1, 1958, consists of replacement well with 8" casing and approximate 130 ft. depth (see application dated October 1, 1958, by Hugh M. Miller, Regional Director, Region Three, Santa Fe, New Mexico), 2700 ft. 6 inch pipe, 7 fire hydrants, and 50,000 gallon storage reservoir at cost of approximately $65,000. Some distribution laterals to be constructed after June 30, 1959, as building construction progresses.

(OVER)

Request is made for an extension of time for filing proof from December 15, 1958, to December 15, 1966. (Last date for submitting proof cannot exceed 50 years from date of approval of Application.) Reasons why extensions should be granted are: (Give reasons why the work could not be completed and the water put to beneficial use within the time heretofore allowed and why conditions now will permit the completion of the works and filing of proof within the time requested. Be specific in statement.

This part of MISSION 66 development to provide adequate facilities for anticipated operation and public use of all parks and monuments in 1966. Priority of construction in each area depends on urgency of immediate needs. Proof of full beneficial use is contingent on estimated increased public use of Arches National Monument in approximately 1966.

Affiant upon oath states that he or the owner of the Application, whom he represents, has a bona fide intention and the financial ability to complete the works and to apply the water to beneficial use as provided in the Application, within the period of extension requested. $20.00 is tendered herewith for publishing notice to water users.

A. van V. Dunn, Chief
Water Resources Section
National Park Service
Applicant
(If a corporation, specify the title of the officer making the affidavit and affix corporate seal.)

Subscribed and sworn to before me this 21st day of October 1958

Notary Public
NOTARY PUBLIC, D. C.
Com. Ex. March 31, 1960

NOT TO BE FILLED IN BY APPLICANT

Application No. _____ Request due _____ Recd. _____
Applicant _____
Source _____
50 year period ends _____ Adv. fee $20.00 Recd. _____ by _____
Receipt No. _____
Hearing set for _____ at _____
Notice published weekly in _____
Beginning _____ and ending _____
Extension protested by _____

Request for extension approved / rejected ; time for submitting proof is hereby extended from _____ to and including _____

Date

STATE ENGINEER

10-21-1958: request for extension of time: application no. 13619

10/21/58

IN THE OFFICE OF THE STATE ENGINEER OF THE STATE OF UTAH

Request for Reinstatement and Extension of Time

(Strike words not needed)

(AFTER FOURTEEN YEARS)

APPLICATION NO. 13619

CITY OF WASHINGTON)
DISTRICT OF COLUMBIA) ss.

A. van V. Dunn, being first duly sworn says that he is the agent of the owner of the above numbered Application; that he knows of his own knowledge that the construction of works as contemplated by the Application was actually commenced within 7 months after the date of approval of the Application, and the work has since been prosecuted with diligence.

The nature, extent and approximate cost of construction work done to this date, together with a detailed statement of use to which the water has been put, is as follows: (Describe briefly the type and extent of construction, whether impounding or diversion dam, or diverting channels and give the cost of construction. Indicate what part of the water, if any, covered by this Application has been put to beneficial use, the number of acres irrigated, etc. Mere statement as to general character of works, costs and use will not answer - give details sufficient for one to determine what has actually been done.)

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(OVER)

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Affiant upon oath states that he or the owner of the Application, whom he represents, has a bona fide intention and the financial ability to complete the works and to apply the water to beneficial use as provided in the Application, within the period of extension requested. $20.00 is tendered herewith for publishing notice to water users.

A. van V. Dunn, Chief
Water Resources Section
National Park Service
Applicant
(If a corporation, specify the title of the officer making the affidavit and affix corporate seal.)

Subscribed and sworn to before me this 24th day of October 1958

Notary Public
NOTARY PUBLIC, D.C.
Com. Ex. March 31, 1960

NOT TO BE FILLED IN BY APPLICANT

Application No. _____ Request due _____ Recd. _____
Applicant _____
Source _____
50 year period ends _____ Adv. fee $20.00 Recd. _____ by _____
Receipt No. _____
Hearing set for _____ at _____
Notice published weekly in _____
Beginning _____ and ending _____
Extension protested by _____

Request for extension approved / rejected ; time for submitting proof is hereby extended from _____ to and including _____

_____ Date

_____ STATE ENGINEER

10-10-1958: letter to nps from state of utah regarding deadline for application no. 13619

251

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

October 10, 1958

Dunn

Rec ltr 10-21-58

National Park Service
c/o M. A. Van V. Dunn
Chief, Water Resources Branch
Washington 25, D.C.

Gentlemen: RE: APPLICATION NO. 13619

Proof as contemplated by the above numbered Application will be due December 15, 1958 Such proof, together with maps, profiles, if required, and drawings in conformity with rules and regulations promulgated by the State Engineer, and the statutory filing fees, must be received in this office on or before that date. The law provides that failure to make proof of appropriation or proof of change of the water on or before the date set therefor, shall cause the Application to lapse. Blank forms upon which proof must be submitted and a copy of the Rules and Regulations will be sent upon request.

Your attention is called to the fact that the 14 year period during which the State Engineer may grant extensions of time in which to submit proof of appropriation without publication, ended December 15, 1954 Further extensions may be granted only upon application to the State Engineer, publication of notice and a hearing before the State Engineer as provided by law.

Request for extension of time, made in affidavit form, must show diligence or a reasonable cause for delay and contain the following information:

1. Date actual construction work was begun and whether or not construction work has been prosecuted until this time with diligence.
2. Amount of work done to date and approximate cost.
3. Amount of work remaining to be done and its estimated cost.
4. Reason for extension, and time desired.

A fee of $20.00 to cover the cost of publishing notice of hearing must accompany each request. A blank form for extension of time is enclosed.

Yours very truly,

Wayne D. Criddle

Wayne D. Criddle
STATE ENGINEER
STATE CAPITOL
SALT LAKE CITY, UTAH

ADDRESS ALL COMMUNICATIONS TO:

rr
Encl: F-29

Encl.

PROOF DUE - - - ADV. REQUIRED

W.O.D.C

THE STATE OF UTAH

OFFICE OF STATE ENGINEER

SALT LAKE CITY

L54 ARCH

October 6, 1958

RECEIVED
NPS DENVER, COLO.
STATE ENGINEER
OCT 8 1958
ADMIN.
ACCTG.
INDEX
RECREATION
FORESTRY
SOLICITOR
FILES

United States of America
National Park Service
P. O. Box 1728
Santa Fe, New Mexico

Dear Sirs: RE: APPLICATION NO. 13619

I have your application, which has been numbered 4056, to replace an existing well, covered by Application No. 13619, located at a point N, 13°31' W. 634.4 ft. from E¼ Cor. Sec. 20, T25S, R21E, SLB&M. The new well is to be drilled at a point 20 feet west from the existing well and replacement is necessary because the well is sanded up.

Your request is granted with the understanding as set forth under rules and regulations listed on the reverse side of your application, that replacing a well means the drilling of a new well for the sole purpose of replacing an existing well, impaired or made useless by failing water supply, by structural difficulties, or by both. Such a new well can be substituted for, and can thereby acquire, the rights of the old well provided the water supply and nature of use are identical in the two wells, and no new right or advantage to the use of water accrues. Also, with the understanding that the old well which is to be abandoned by reason of this replacement, shall be permanently sealed from the bottom to the top before the driller of the new well leaves the premises.

In this well you must use new standard casing, or its equivalent. This well must be so constructed and finished that it may be readily controlled at all times, and prevent waste of underground water when it is not being used beneficially. Also, with the understanding that no more water is to be diverted from the new well than that for which a right has been initiated and in good standing by virtue of past beneficial use from the old well.

The driller must be bonded and have a Permit for the current year, issued by the State Engineer. Before commencing, he must give this office notice as to the day he will begin, and within 30 days after the new well has been completed and the old one permanently sealed, must file a well driller's report. This report is to contain accurate and complete information regarding the drilling and sealing, and become part of the files in this office pertaining to Application No. 13619.

After this work has been completed an engineer from this office will inspect the sealing of the old well and determine the location of the new one; the metal tag should be taken from the old well and attached to the new one after it has been completed.

This is the licensed driller's authority to begin drilling your replacement well under the conditions and provisions set forth herein.

Yours truly,

Donald G. Stewart,
GROUND WATER ENGINEER.

DGS/me

P.S. Enclosed is an original signed copy of Form 112, "Application to Replace an Existing Well", as requested in your letter of October 1, 1958.
D.G.S.

L54

Region Three
Santa Fe, New Mexico

October 1, 1958

State Engineer Wayne D. Criddle
403 State Capitol
Salt Lake City 1, Utah

Dear Mr. Criddle:

Attached are duplicate originals Form 112, 3-57, Application To Replace An Existing Well at Arches National Monument.

Our existing well, Application No. 13619, was cased with used pipe which is egg-shaped coupled with the fact there is a 6-inch deviation in the bore in a distance of 30 feet. The well is also "sanded up" to a point where it is not satisfactory for our needs.

If this application meets with your approval, we would like an original signed copy returned to this office at the above address.

Sincerely yours,

(SIGNED)

Hugh M. Miller
Regional Director

In duplicate

Copy to: Director(2)
Supt., Arches
W.O.D.C.

10-01-1958: application to repair, clean, deepen, or replace an existing well: application no. 13619

See ltr 10-17-58 to Supt from Waso

Form 112
3-57 1/2 M

THE STATE OF UTAH
OFFICE OF STATE ENGINEER

No. 4056

APPLICATION TO REPAIR, CLEAN, DEEPEN, OR REPLACE AN EXISTING WELL

RE: CLAIM NO. _____
APP. NO. 13619

Santa Fe (City), New Mex. (State), October 1 (Date), 1958

Application is hereby made to the State Engineer to ~~repair, clean, deepen~~ or replace an existing well, based upon the following showing of facts:

1. Name of applicant is United States of America, National Park Service

2. Post-office address of applicant is P. O. Box 1728, Santa Fe, New Mexico

3. Number of Claim or Application filed with the State Engineer covering the well which applicant proposes to ~~repair, clean, deepen~~ or replace is ~~Claim~~ or Application No. 13619. (Strike words not needed)

4. The existing well ~~located around the casing of the existing well~~ requires replacement by a new well. If replaced by a new well, its location will be Zero feet north, south, and 20 (Twenty) feet ~~east~~, west, from the existing well. (Strike words not needed)

5. The replacement well is to be 8 inches in diameter, and Approx. 130 feet deep.

6. The name of well driller who applicant proposes to do the work is:

Moab Drilling Co. . It is proposed to begin the work Oct. 15, 1958

7. Applicant hereby agrees, in case this application is approved, to abide by the rules and regulations promulgated by the State Engineer, set out on the reverse side hereof, for the repairing, cleaning, deepening, or replacing of existing wells. Applicant further agrees to and hereby authorizes the State Engineer to endorse his original claim or application to show any replacement resulting from this application.

8. Remarks: It is proposed to drill a 12-inch hole, insert an 8-inch I.D. casing and gravel pack the well. When completed the top ten feet will be grouted. The National Park Service has made arrangements for a representative of the U.S. Geological Survey to be present when the driller reaches the water bearing strata to advise regarding the proper penetration into the water bearing strata.

Hugh M. Miller Signature of Applicant

- o - o - o -

STATE ENGINEER'S ENDORSEMENT
(Not to be filled in by applicant)

1. 10-3-58 Application received ~~over counter~~ by mail in State Engineer's office by Eca
2. 10-6-58 Application examined by MB. Recommendations: Approval
3. _____ Field examination by _____. Recommendations: _____
4. 10-6-58 Application ~~approved~~ rejected subject to following conditions: See letter this date, attached to file.

WAYNE D. CRIDDLE, STATE ENGINEER.

By _____
DONALD G. STEWART, GROUND WATER ENGINEER.

RULES AND REGULATIONS

FOR REPAIRING, CLEANING, DEEPENING, OR REPLACING EXISTING WELLS

A well driller with a Permit is authorized to repair, clean, deepen, or replace an existing well on which there is an underground water claim or an approved application to appropriate, only, however, when the owner thereof has received written approval of the State Engineer to do such work. (Underground water claims are made for wells drilled prior to March 22, 1935, and applications for wells drilled subsequent to that date.)

REPAIRING:

Repairing a well means the renewal or reconstruction of the existing casing or the installation of new casing within or without the existing casing, or the repairing or replacing of pumping equipment, where such is done for the purpose of recovering or controlling the normal flow or discharge of the well.

CLEANING:

Cleaning a well means the act of removing rust, algae, sand, gravel, or any other obstruction whatsoever from the inside of an existing well, or from the casing thereof, for the purpose of recovering the normal discharge or flow. If, by reason of such cleaning, the flow or discharge is increased in excess of the existing right attached to said well, an application to appropriate the excess water will be required from the well owner. (Sec. 73-3-1, Utah Code Annotated, 1953.)

DEEPENING:

Deepening a well means the act of digging, drilling, or casing an existing well to an increased depth for the purpose of again securing the normal supply of water. If, as a result of such work, whether from structural alterations or otherwise, the discharge or flow of the well is increased to a rate in excess of the existing right attached to said well, an application to appropriate will be required to cover the excess above normal. (Sec. 73-3-1, Utah Code Annotated, 1953.)

REPLACING:

An existing well may be replaced with a replacement well within a radius of 150 feet from the existing well without the filing of a change application under Sec. 73-3-3, upon approval first having been obtained from the state engineer.

Such request for permission to drill a replacement well shall be filed with the state engineer upon a blank to be furnished by the state engineer. *** ***** No filing fee shall be required for the filing of such a request for permission to drill a replacement well and the state engineer need give only such notice as, in his judgment, is necessary to protect existing rights and in the event the state engineer shall determine that it is necessary to publish notice the advertising fee shall be paid in advance by the applicant.

The term "replacement well" as used herein means a new well drilled for the sole purpose of replacing an existing well which is impaired or made useless by structural difficulties and no new right in the use of water accrues. Upon completion of the new well the old well must be sealed by the applicant in a manner satisfactory to the state engineer. (Sec. 73-3-28, Utah Code Annotated, 1953.)

SEALING:

Permanently sealing a well for the use of these Rules and Regulations means the act of completely filling in said well from the bottom to the top in such a manner and with such materials necessary to prevent the flow of water from within or from without the well casing.

- o - o - o -

Form 112
3-57 1/2 M

THE STATE OF UTAH
OFFICE OF STATE ENGINEER

No._____

APPLICATION TO REPAIR, CLEAN, DEEPEN, OR REPLACE AN EXISTING WELL

CLAIM NO._____
RE: APP. NO. 13619

Santa Fe (City), New Mex. (State), October 1 (Date), 1958

Application is hereby made to the State Engineer to repair, clean, deepen or replace an existing well, based upon the following showing of facts:

1. Name of applicant is United States of America, National Park Service

2. Post-office address of applicant is P. O. Box 1728, Santa Fe, New Mexico

3. Number of Claim or Application filed with the State Engineer covering the well which applicant proposes to [illegible] replace is [illegible] Application No. 13619. (Strike words not needed)

4. The existing well [illegible] requires replacement by a new well. If replaced by a new well, its location will be Zero feet north, south, and 20 (Twenty) feet [illegible] west, from the existing well. (Strike words not needed)

5. The replacement well is to be 8 inches in diameter, and Approx. 130 feet deep.

6. The name of well driller who applicant proposes to do the work is:

Moab Drilling Co. . It is proposed to begin the work Oct. 15, 1958

7. Applicant hereby agrees, in case this application is approved, to abide by the rules and regulations promulgated by the State Engineer, set out on the reverse side hereof, for the repairing, cleaning, deepening, or replacing of existing wells. Applicant further agrees to and hereby authorizes the State Engineer to endorse his original claim or application to show any replacement resulting from this application.

8. Remarks: It is proposed to drill a 12-inch hole, insert an 8-inch I.D. casing and gravel pack the well. When completed the top ten feet will be grouted. The National Park Service has made arrangements for a representative of the U.S. Geological Survey to be present when the driller reaches the water bearing strata to advise regarding the proper penetration into the water bearing strata.

_____
Hugh M. Miller Signature of Applicant

- o - o - o -

STATE ENGINEER'S ENDORSEMENT
(Not to be filled in by applicant)

1._____ Application received over counter / by mail in State Engineer's office by_____

2._____ Application examined by_____. Recommendations:_____

3._____ Field examination by_____. Recommendations:_____

4._____ Application approved / rejected subject to following conditions:_____

_____

WAYNE D. CRIDDLE, STATE ENGINEER.

By_____
DONALD G. STEWART, GROUND WATER ENGINEER.

00-00-0000: rules and regulations for repairing, cleaning, deepening, or replacing existing wells

RULES AND REGULATIONS

FOR REPAIRING, CLEANING, DEEPENING, OR REPLACING EXISTING WELLS

A well driller with a Permit is authorized to repair, clean, deepen, or replace an existing well on which there is an underground water claim or an approved application to appropriate, only, however, when the owner thereof has received written approval of the State Engineer to do such work. (Underground water claims are made for wells drilled prior to March 22, 1935, and applications for wells drilled subsequent to that date.)

REPAIRING:

Repairing a well means the renewal or reconstruction of the existing casing or the installation of new casing within or without the existing casing, or the repairing or replacing of pumping equipment, where such is done for the purpose of recovering or controlling the normal flow or discharge of the well.

CLEANING:

Cleaning a well means the act of removing rust, algae, sand, gravel, or any other obstruction whatsoever from the inside of an existing well, or from the casing thereof, for the purpose of recovering the normal discharge or flow. If, by reason of such cleaning, the flow or discharge is increased in excess of the existing right attached to said well, an application to appropriate the excess water will be required from the well owner. (Sec. 73-3-1, Utah Code Annotated, 1953.)

DEEPENING:

Deepening a well means the act of digging, drilling, or casing an existing well to an increased depth for the purpose of again securing the normal supply of water. If, as a result of such work, whether from structural alterations or otherwise, the discharge or flow of the well is increased to a rate in excess of the existing right attached to said well, an application to appropriate will be required to cover the excess above normal. (Sec. 73-3-1, Utah Code Annotated, 1953.)

REPLACING:

An existing well may be replaced with a replacement well within a radius of 150 feet from the existing well without the filing of a change application under Sec. 73-3-3, upon approval first having been obtained from the state engineer.

Such request for permission to drill a replacement well shall be filed with the state engineer upon a blank to be furnished by the state engineer. ***** No filing fee shall be required for the filing of such a request for permission to drill a replacement well and the state engineer need give only such notice as, in his judgment, is necessary to protect existing rights and in the event the state engineer shall determine that it is necessary to publish notice the advertising fee shall be paid in advance by the applicant.

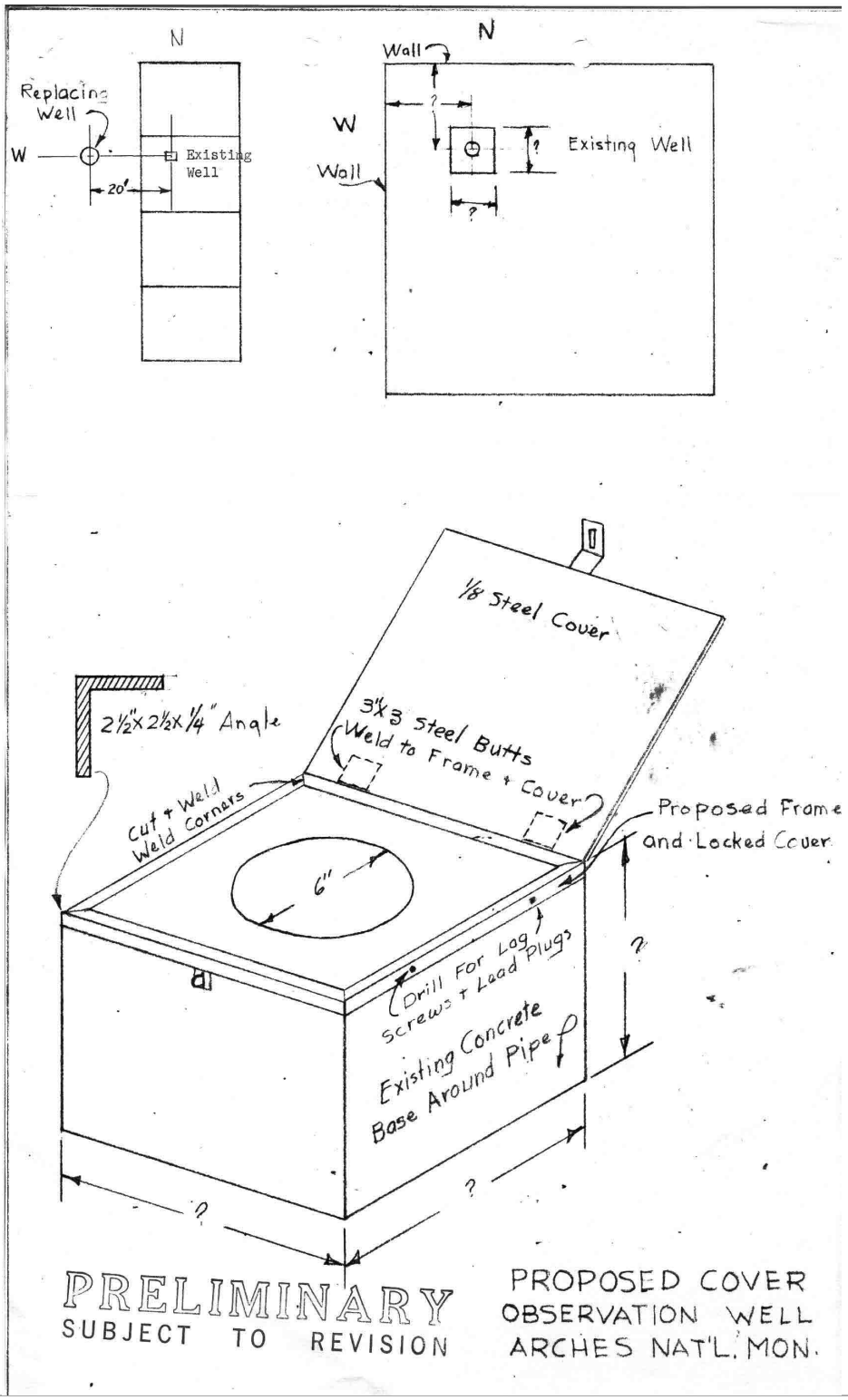
The term "replacement well" as used herein means a new well drilled for the sole purpose of replacing an existing well which is impaired or made useless by structural difficulties and no new right in the use of water accrues. Upon completion of the new well the old well must be sealed by the applicant in a manner satisfactory to the state engineer. (Sec. 73-3-28, Utah Code Annotated, 1953.)

SEALING:

Permanently sealing a well for the use of these Rules and Regulations means the act of completely filling in said well from the bottom to the top in such a manner and with such materials necessary to prevent the flow of water from within or from without the well casing.

- o - o - o -

00-00-0000: handrawn diagram of proposed cover: observation well



03-14-1955: letter to nps from state of utah regarding request for extension of time in which to submit proof of appropriation or pro

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

March 14, 1955

National Parks Service
c/o Mr. A. van V. Dunn
Chief, Water Resources Branch
Washington 25, D. C.

Gentlemen: RE: APPLICATION 13619 Arches - Docket

Request for Extension of Time in which to submit Proof of Appropriation or Proof of Change contemplated by the above application has been considered and the time for receiving proof is hereby extended from December 15, 1954 to December 15, 1958, inclusive.

Yours truly,
Joseph M. Tracy

Joseph M. Tracy
STATE ENGINEER
403 STATE CAPITOL
SALT LAKE CITY 1
UTAH

ADDRESS ALL COMMUNICATIONS TO:

le

EXTENSION GRANTED

P. S. Although this extension is granted in accordance with the provisions of the law, I earnestly recommend that you proceed to prepare and submit proof at the earliest possible date. One cannot foresee what contingencies might arise in the future; the present possession of your certificate might stand you in good stead.

00-00-0000: newspaper article: times independent; notice to water users

NOTICE TO WATER USERS

Notice is hereby given that National Park Service, by A. van V. Dunn, Chief Water Resources Section, Washington, D. C., has filed with the State Engineer, a request for an extension of time from December 15, 1954 to December 15, 1960, in which to make and submit Proof of Appropriation of Water under Application No. 13619 for the appropriation of .088 sec.-ft. of water for domestic use at the Arches National Monument in Grand County.

It is represented that approximately $5,650.00 has been expended on construction of works. It is estimated it will cost $20,000.00 to complete project and apply the water to beneficial use.

Protests resisting the granting of said request, with reasons therefor, must be in affidavit form, with extra copy and filed with the State Engineer, 403 State Capitol, Salt Lake City, Utah, on or before March 5, 1955.

A hearing will be held on this request for extension of time before the State Engineer at 403 State Capitol, Salt Lake City, Ut., at the hour of 10:00 a.m. March 10, 1955. Protestants may appear at the hearing and adduce testimony in support of their protests.

Joseph M. Tracy
STATE ENGINEER

Published in the TIMES INDEPENDENT, Moab, Ut. from Jan. 20 to Feb. 3, 1955.

02-11-1955: letter to nps from state of utah regarding reference to newspaper article 'notice to water users' in the times independe

OFFICE OF STATE ENGINEER

SALT LAKE CITY

February 11, 1955

National Parks Service
c/o Mr. A. van V. Dunn
Chief, Water Resources Branch
Washington 25, D. C.

Gentlemen: RE: APPLICATION NO. 13619

Reference is made to enclosed proof of Notice to Water Users concerning your Application No. 13619, which appeared in the Times Independent, Moab, Utah, from January 20, 1955 to February 3, 1955.

You submitted in connection with this application Purchase Order No. 99-258 in the amount of $20.00.

The cost of advertising Application No. 13619 was $19.35; therefore, please submit this amount within 60 days from date, or on or before April 12, 1955, otherwise your application will lapse.

Enclosed are triplicate copies of certified invoice covering the above amount, and your Public Voucher Form No.1034.

Yours truly,

Joseph M. Tracy
STATE ENGINEER

JMG/vm
Enc:Proof (2)
Invoice in triplicate
Public Voucher No.1034

10-13-1954: letter to nps from state of utah regarding notice of the last day for submitting proof of appropriation for application no.

THE STATE OF UTAH

OFFICE OF STATE ENGINEER

SALT LAKE CITY

JOSEPH M. TRACY
State Engineer

October 13, 1954

National Park Service
c/o Dr. A. van V. Dunn
Chief, Water Resources Branch
Washington 25, D. C.

Gentlemen: RE: APPLICATION NO. 13619

This is to advise you as the owner of the above numbered application.

On November 2, 1951, the State Engineer by Notice of Extension Granted, advised you that the time for submitting Proof of Appropriation under the above numbered application had been extended from December 15, 1951 to December 15, 1954. However, a review of the file indicates that the 14-year period, as provided in Section 73-3-12, Utah Code Annotated, 1953, expired September 19, 1954. The above section of the statute provides that the State Engineer may grant extensions of time not exceeding 14 years from the date of approval of an application, upon a sufficient showing by affidavit but that extensions beyond 14 years from the date of approval may be granted only after application for extension of time, publication of Notice to Water Users and a hearing before the State Engineer. It appears, therefore, that it was a mistake of this office to grant an extension of time, by virtue of said Notice of Extension Granted, beyond September 19, 1954, and said Notice of Extension Granted, regardless of the period of extension expressed on the face of the notice, could not serve to extend the time in which to make Proof of Appropriation beyond September 19, 1954. Therefore, there has been issued a Special Order of the State Engineer wherein the time for submitting proof is extended from September 19, 1954 to December 15, 1954, and wherein you are advised that the last day for submitting Proof of Appropriation, as contemplated by Section 73-3-16, Utah Code Annotated, 1953, as amended 1953, is December 15, 1954.

There is enclosed the above mentioned Special Order of the State Engineer, Notice of Proof Due and one blank form L29, which may be used for the purpose of requesting further extension of time. You are reminded that further extensions can be granted only after publication of Notice to Water Users, the cost of which is to be paid by the applicant, and a hearing before the State Engineer, in accordance with Section 73-3-12, Utah Code Annotated, 1953.

It is noted that the address of record of Application No. 13619 is the United States National Park Service, Coolidge, Arizona. A review of the file indicates that the past several statutory notices have been

10-13-1954: letter to nps from state of utah regarding notice of the last day for submitting proof of appropriation for application no.

National Parks Service
10/13/54

directed to you at various addresses in San Francisco, Chicago and Washington, D. C. It is requested that you formally advise this office as to the proper address to which further statutory notices are to be directed.

Yours truly,

Joseph M. Tracy

Joseph M. Tracy
STATE ENGINEER

FTM/vm
Enc:Special Order
Notice of Proof Due
Form L29

12/8/54

IN THE OFFICE OF THE STATE ENGINEER OF THE STATE OF UTAH

REQUEST FOR EXTENSION OF TIME
(After Fourteen Years)

APPLICATION NO. 13619

[redacted] City of Washington
[redacted] District of Columbia } ss.

A. van V. Dunn, being first duly sworn says that he is [redacted] the agent of the owner of the above numbered Application; that he knows of his own knowledge that the construction of works as contemplated by the Application was actually commenced within 7 months after the date of approval of the Application, and the work has since been prosecuted with diligence.

The nature, extent and approximate cost of construction work done to this date, together with a detailed statement of use to which the water has been put, is as follows: (Describe briefly the type and extent of construction, whether impounding or diversion dam, or diverting channels and give the cost of construction. Indicate what part of the water, if any, covered by this Application has been put to beneficial use, the number of acres irrigated, etc. Mere statement as to general character of works, costs and use will not answer—give details sufficient for one to determine what has actually been done.)
Well drilled 117 feet with 6" steel casing; 30 gpm pump installed and temporarily replaced by 8 gpm jet pump because of limited power facilities; 20,000 gallon concrete distribution reservoir; and 1375 feet of 2" GI pipe with connections to 2 residences, and hydrants adjacent to other buildings and public parking area for temporary use, at cost of $5,650. The Arches Natl. Mon. headquarters development, of which the water system is only a part, now includes 1 permanent residence; 1 expansionable type trailer residence with additions; 1 temporary office-warehouse without water connections; public parking area; 0.515 acres of irrigated lawn and shade trees. Another trailer and campground, each with 500 gallon storage tanks in central portion of Monument are served with water hauled from headquarters. Many other campers and picnickers haul their own water from headquarters for use at other authorized camp and picnic sites.

The nature, extent and estimated cost of construction remaining to be done to complete the work in accordance with the Application follows: (Describe with same details as required last above.)
Replace 1330 feet of 2" pipe with 4" pipe; construct additional 30,000 gallon concrete reservoir, install 12 fire hydrants; replace jet pump with 40 gpm pump at estimated cost of $20.000, with parallel headquarters development to consist of Administration building, museum building. public comfort stations, 3 additional employees' residences, utility area, and about 4.5 more acres of lawn and shade trees. There were 943 campers in 1953; and 896 campers and 22,500 picnickers in Monument in 1954 travel year. Total of Monument visitors have increased from 3,786 in 1941 to 8,520 in 1948 and 31,856 in 1953. The average daily water use in 1953 of 4,000 gal. with double that quantity on peak days was only 12.5% of probable demand if adequate facilities had been provided.

(OVER)

Request is made for an extension of time for filing proof from December 15 1954 to December 15 1960. (Last date for submitting proof cannot exceed 50 years from date of approval of Application.) Reasons why extensions should be granted are: (Give reasons why the work could not be completed and the water put to beneficial use within the time heretofore allowed and why conditions now will permit the completion of the works and filing of proof within the time requested. Be specific in statement.

Arches National Monument, consisting of small areas at The Windows and Devils Garden areas, was established by Proclamation of April 12, 1929 (46 Stat. 2988). The Monument was enlarged to include present Headquarters area by Proclamation of Nov. 25, 1938 (53 Stat. 2504). The temporary Headquarters development, including water supply, was a war time expedient whose post-war replacement has been deferred by directives of Bureau of the Budget and provisions of Congressional legislation to give first priority to national recovery and better balance of Federal budget. These limitations extend through the 1956 fiscal year despite the urgent need for Monument development to accommodate the public. The relatively small water system enlargement is scheduled with the comprehensive developments of facilities for the water use.

Affiant upon oath states that he or the owner of the Application, whom he represents, has a bona fide intention and the financial ability to complete the works and to apply the water to beneficial use as provided in the Application, within the period of extension requested. ~~$15.00~~ is tendered herewith for publishing notice to water users. $20.00

Grant Davis Chief, Water Resources Sec.
National Park Service Applicant
(If a corporation, specify the title of the officer making the affidavit and affix corporate seal.)

Subscribed and sworn to before me this 8th day of December 1954

Lorin A. Davis
Notary Public

NOT TO BE FILLED IN BY APPLICANT

Application No. _____ Request due _____ Recd. _____
Applicant _____
Source _____
50 year period ends _____ Adv. fee ~~$15.00~~ $20.00 Recd. _____ by _____ Receipt No. _____

Hearing set for _____ at _____
Notice published weekly in _____
Beginning _____ and ending _____
Extension protested by _____

Request for extension approved / rejected ; time for submitting proof is extended from _____

10/13/54
See memo 11/3/54

IN THE OFFICE OF THE STATE ENGINEER

IN THE MATTER OF APPLICATION NO. 13619 UNITED STATES OF AMERICA NATIONAL PARKS SERVICE	:	SPECIAL ORDER OF THE STATE ENGINEER

It appearing that the 14-year period, as provided in Section 73-3-12, Utah Code Annotated, 1953, expired September 19, 1954, and that the State Engineer by Notice of Extension Granted dated November 2, 1951, mistakenly extended the time in which to submit Proof of Appropriation beyond September 19, 1954, specifically to and including December 15, 1954.

NOW, THEREFORE, IT IS ORDERED: that the time for submitting Proof of Appropriation be and the same is hereby extended from September 19, 1954, to December 15, 1954, and you are hereby notified that the 15th day of December, 1954, is the last day for submitting Proof of Appropriation, as contemplated by Section 73-3-16, Utah Code Annotated, 1953, as amended 1953.

Dated this 13th day of October, 1954.

Joseph M. Tracy
STATE ENGINEER

11-02-1951: letter to nps from state of utah regarding request for extension of time in which to submit proof of appropriation or pro

FORM 110 SM 1-50 SMITH-ERS. CO.

Director, Region Three
Archea N. M.

THE STATE OF UTAH

OFFICE OF STATE ENGINEER

SALT LAKE CITY

November 2, 1951

National Parks Service
c/o Mr. A. van V. Dunn
Chief, Water Resources Branch
Washington 25, D. C.

Gentlemen:

RE: APPLICATION 13619

Request for Extension of Time in which to submit Proof of Appropriation or Proof of Change contemplated by the above application has been considered and the time for receiving proof is hereby extended from December 15, 1951 to December 15, 1954, inclusive.

Yours truly,

Joseph M. Tracy

Joseph M. Tracy
STATE ENGINEER
403 STATE CAPITOL
SALT LAKE CITY 1
UTAH

ADDRESS ALL COMMUNICATIONS TO:

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EXTENSION GRANTED

P. S. Although this extension is granted in accordance with the provisions of the law, I earnestly recommend that you proceed to prepare and submit proof at the earliest possible date. One cannot foresee what contingencies might arise in the future; the present possession of your certificate might stand you in good stead.

Form L25 7M 10-50
Arrow Press

Regional Director, Region Three
10/19/51

Arches N. M. Mesa 3

IN THE OFFICE OF THE STATE ENGINEER OF THE STATE OF UTAH

REQUEST FOR ~~REINSTATEMENT AND~~ EXTENSION OF TIME
(Strike words not needed)
(Before Fourteen Years)

APPLICATION NO. 13619

CITY OF WASHINGTON)
~~STATE OF UTAH~~ ~~COUNTY OF~~ DISTRICT OF COLUMBIA) ss.

A. van V. Dunn, being first duly sworn says that he is the ~~owner or the~~ agent of the owner of the above numbered Application; that he knows of his own knowledge that the construction of works as contemplated by the Application was actually commenced ~~within~~ before ~~months after~~ the date of approval of the Application, and that the work has since been prosecuted with diligence.

The nature, extent and approximate cost of construction work done to this date, together with a detailed statement of use to which the water has been put, is as follows: (Describe briefly the type and extent of construction, whether impounding or diversion dam, or diverting channels and give the cost of construction. Indicate what part of the water, if any, covered by this Application has been put to beneficial use, the number of acres irrigated, etc. Mere statement as to general character of works, costs and use will not answer,—give details sufficient for one to determine what has actually been done.)

Well drilled; 30 gpm pump unit, 20,000-gallon concrete distribution reservoir, approximately 1200 feet of 2-inch pipe, to Ranger's quarters and small sized fire hydrants, have all been completed at approximate cost of $5,650. The water is now used for all domestic purposes at the Ranger's Quarters, and for sanitary and recreational purposes by the visiting public stopping at the Headquarters area of Arches National Monument.

The nature, extent and estimated cost of construction remaining to be done to complete the work in accordance with the Application follows: (Describe with same details as required last above.)

Additional distribution system and regulatory storage, and replacement of much of the main water line with pipe of larger diameter, are planned at an estimated cost of $13,300. This water system is one unit of a larger project to cover the development of a complete Headquarters and Utility area at an estimated cost of $160,000, as reported 2 years ago.

(OVER)

Request is made for ~~reinstatement and~~ extension of time for filing
(Strike words not needed)
proof from December 15, 19 51, to December 15, 19 53. Reasons why extension should be granted are: (Give reasons why the work could not be completed and the water put to beneficial use within the time heretofore allowed and why conditions now will permit the completion of the works and filing of proof within the time requested. Be specific in statement.)

The extension of time is needed partially because the water system is only being completed at the rate necessary to satisfy the water demand. The schedule is partially dependent on the rate at which the related facilities, such as additional employees' quarters, public comfort stations, museum, utility shops, and landscaping can be completed.

Public attendance jumped from 12,282 visitors in 1949 to 18,441 in 1951, an increase of approximately 50% in two years. Further time is thus needed to permit the trend of demand to become more evident before the ultimate water system is designed and constructed.

Affiant upon oath states that he or the owner of the Application, whom he represents, has a bona fide intention and the financial ability to complete the works and to apply the water to beneficial use as provided in the Application, within the period of extension requested.

G. Vaux Lewis
Chief, Water Resources Branch
National Park Service
Applicant

(If a corporation, specify the title of the officer making the affidavit and affix corporate seal)

Subscribed and sworn to before me this 19th day of October 19 51

Doris A. Davis
Notary Public, D. C.
My Commission Expires [illegible]

NOT TO BE FILLED IN BY APPLICANT

Application No._____ Request due_____ Recd._____
Applicant_____
Source_____
14 year period ends_____

Request for extension approved / rejected ; time for submitting proof is hereby extended from _____ to and including_____

_____ Date

_____ STATE ENGINEER

12-12-1949: letter to nps from state of utah regarding extension of time in which to submit proof of appropriation or proof of chang

FORM L19 3M

THE STATE OF UTAH

OFFICE OF STATE ENGINEER

SALT LAKE CITY

December 12, 1949

National Parks Service
C/O Mr. A. van V. Dunn
Chief, Water Resources Branch
Washington 25, D. C.

Gentlemen:

RE: EXT. GRANTED APPLICATION NO. 13619

This will acknowledge receipt of your request of December 6, 1949 for Extension of Time in which to submit Proof of Appropriation or Proof of Change contemplated by Application No. 13619.

The matter has been considered and the time for submitting proof has been extended from December 15, 1949 to December 15, 1951 inclusive.

Yours very truly,

H. A. Linke

Harold A. Linke
STATE ENGINEER
403 STATE CAPITOL
SALT LAKE CITY 1, UTAH

ADDRESS ALL COMMUNICATIONS TO:
le

Extension Granted

P.S. Although this extension has been granted to you in accordance with the provisions of the law, I earnestly recommend that you proceed to prepare and submit your final proof at the earliest possible date. One cannot foresee what contingencies might arise in the future; the present possession of your certificate might stand you in good stead.

H.A.L.

Form L25 6M 11-47

12/2/49

IN THE OFFICE OF THE STATE ENGINEER OF THE STATE OF UTAH

REQUEST FOR ~~REINSTATEMENT AND~~ EXTENSION OF TIME
(Strike words not needed)
(Before Fourteen Years)

APPLICATION NO. 13619

CITY OF WASHINGTON)
~~STATE OF UTAH~~)
~~COUNTY OF~~ DISTRICT OF COLUMBIA) ss

A. van V. Dunn, being first duly sworn says that he is the ~~owner or the~~ agent of the owner of the above numbered Application; that he knows of his own knowledge that the construction of works as contemplated by the Application was actually commenced ~~within~~ before ~~months after~~ the date of approval of the Application, and that the work has since been prosecuted with diligence.

The nature, extent and approximate cost of construction work done to this date, together with a detailed statement of use to which the water has been put, is as follows: (Describe briefly the type and extent of construction, whether impounding or diversion dam, or diverting channels and give the cost of construction. Indicate what part of the water, if any, covered by this Application has been put to beneficial use, the number of acres irrigated, etc. Mere statement as to general character of works, costs and use will not answer,—give details sufficient for one to determine what has actually been done.)

Well drilled; 30 gpm pump unit, 20,000-gallon concrete distribution reservoir, approximately 1200 feet of 2-inch pipe, to Ranger's quarters and small sized fire hydrants, have all been completed at approximate cost of $5,650. The water is now used for all domestic purposes at the Ranger's Quarters, and for sanitary and recreational purposes by the visiting public stopping at the Headquarters area of Arches National Monument.

The nature, extent and estimated cost of construction remaining to be done to complete the work in accordance with the Application follows: (Describe with same details as required last above.)

Additional distribution system and regulatory storage, and replacement of much of the main water line with pipe of larger diameter, are planned at an estimated cost of $13,300. This water system is one unit of a larger project to cover the development of a complete Headquarters and Utility area at an estimated cost of $160,000.

(OVER)

Request is made for ~~reinstatement and~~ extension of time for filing proof from December 15, , 1949 , to December 15, , 1951 . Reasons why extension should be granted are: (Strike words not needed) (Give reasons why the work could not be completed and the water put to beneficial use within the time heretofore allowed and why conditions now will permit the completion of the works and filing of proof within the time requested. Be specific in statement.)

The extension of time is needed partially because the water system is only being completed at the rate necessary to satisfy the water demand. The schedule is partially dependent on the rate at which the related facilities, such as additional employees' quarters, public comfort stations, museum, utility shops, and landscaping can be completed.

Public attendance at the Monument totaled 2,129 people in 1946, 4,702 in 1947, 8,520 in 1948, and 12,282 in 1949, the travel year terminating on September 30. The additional time is needed to permit the postwar trends of attendance to become stable before attempting to complete the development. Meantime, temporary public facilities will be provided as far as possible, to the extent of the priority of federal recreational development of areas of the National Park System, in the general scheme of national expansion, as such priority is determined by Congress and the Bureau of the Budget.

Affiant upon oath states that he or the owner of the Application, whom he represents, has a bona fide intention and the financial ability to complete the works and to apply the water to beneficial use as provided in the Application, within the period of extension requested.

/s/ A. Van V. Dunn.
A. Van V. Dunn,
Chief, Water Resources Branch,
National Park Service.
Applicant

(If a corporation, specify the title of the officer making the affidavit and affix corporate seal)

(SEAL)

Subscribed and sworn to before me this 2nd day of December 19 49

/s/ Lorin A. Davis
Notary Public

NOT TO BE FILLED IN BY APPLICANT

Application No._____ Request due_____Recd._____
Applicant_____
Source_____
14 year period ends_____

Request for extension approved / rejected ; time for submitting proof is hereby extended from _____to and including_____

_____
Date

DEC 9 1949

_____
STATE ENGINEER

10-14-1947: letter to nps from state of utah regarding time in which proof of appropriation may be submitted granted: application 1

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

ED. H. WATSON
STATE ENGINEER

October 14, 1947

Mr. A. Van V. Dunn
Chief, Water Rights Division
Department of the Interior
National Park Service
Washington 25, D.C.

Dear Sir: Re: APPLICATION NO. 13619

You are hereby notified that the time in which proof of appropriation may be submitted on the above captioned application is extended from December 15, 1947, to December 15, 1949.

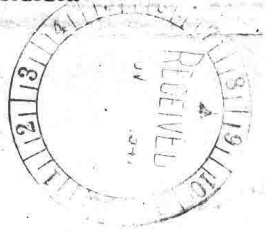
Yours very truly,
Ed. H. Watson

Ed. H. Watson
STATE ENGINEER

FWC/ba/pcr
eca

NOTE: Attach this letter to your approved application for reference.

E.H.W.



10-23-1945: letter to nps from state of utah regarding deadline for proof of appropriation for application no. 13619

C O P Y

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY 1, UTAH

ED. H. WATSON
State Engineer

Oct. 23, 1945.

Mr. A. Van V. Dunn
Chief, Water Rights Division
Department of the Interior
National Park Service
Chicago, 54, Ill.

Dear Sir:

Re: APPLICATION NO. 13619.

Under your application to appropriate underground water from a well, or wells, designated in this office by the number appearing above, proof of appropriation will be due on December 15, 1945.

Because of present conditions and the unavailability of engineering assistance to prepare proofs, the time in which to submit proof has been extended to and including December 15, 1947.

Yours very truly,

(Sgd.) Ed. H. Watson

Ed. H. Watson
STATE ENGINEER

FWC/nty
ba

NOTE: Attach this letter to your approved application for reference.

E.H.W.

08-09-1940: letter to publisher from state of utah regarding payment to publisher for application

Form L16 3000 6-24-41 The Times

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

August 9, 1940

Publisher,
Deseret News Publishing Co.,
P.O. Box 1257
Salt Lake City, Utah

PAYMENT - PUBLISHER

Dear Sir: REL: PAYMENT TO PUBLISHER FOR APPLICATION NO. See reverse side

Enclosed herewith you will find the State Engineer's check in the sum of $ 85.00 which is submitted as payment in full for publishing Notice to Water Users relative to the above numbered Application(s) by See reverse side

Yours very truly,

ADDRESS ALL COMMUNICATIONS TO:

STATE ENGINEER
403 STATE CAPITOL
SALT LAKE CITY, UTAH

There 2 sheets are front & back of one original
A Dunn 3/6/46

07-12-1940: affidavit of publication

AFFIDAVIT OF PUBLICATION

STATE OF UTAH
County of Salt Lake

NOTICE TO WATER USERS

The following Applications have been filed to change or to appropriate water from wells and springs in the State of Utah, all locations being from SLB&M.

TO CHANGE:

a-1481—George Venstra, Roy, Utah: 6.75 g.p.m. heretofore used for domestic use from 1½ in. well 80 ft. deep at point S. 80 deg. W. 126 ft. from E¼ Cor. Sec. 16, T. 5 N., R. 2 W.; proposed hereafter to divert said water for same use from 2 in. well 90 feet deep at point N. 31.1 ft. and W. 129.1 ft. from said E¼ Cor. Sec. 16.

a-1526—Katherine Snyder, Woods Cross, Utah: 6 g.p.m. heretofore used for domestic purposes from 1 in. well 60 ft. deep at point S. 4020 ft. and W. 2172 ft. from N¼ Cor. Sec. 25, T. 2 N., R. 1 W.; proposed hereafter to divert said water for same use from 3 in. well 250 ft. deep at point S. 4036 ft. and W. 2238 ft. from said N¼ Cor. Sec. 25.

TO APPROPRIATE:

12264—Wm. D. Haslam, 3838 So. 7th East, Salt Lake City; 7.85 g.p.m. for domestic use from 3 in. well 135 ft. deep at point N. 1791.7 ft. and E. 81 ft. from E¼ Cor. Sec. 31, T. 1 S., R. 1 E.

12996—August Gehring, 214 Hill Ave., Murray, Utah: 8.1 g.p.m. for domestic use from 2½ in. well 148 ft. deep at point E. 1748 ft. and N. 387 ft. from SW Cor. Sec. 31, T. 1 S., R. 1 E.

13211—Ralph A. Garner, RFD No. 3, Box 51, Ogden, Utah: 6.75 g.p.m. for domestic use from 2½ in. well 110 ft. deep at point S. 1383 ft. and W. 514 ft. from NE Cor. Sec. 4, T. 6 N., R. 1 W.

13360—Lewis Reed, Woods Cross, Utah: 6.75 g.p.m. for domestic use from 2 in. well 184 ft. deep at point N. 99 ft. and E. 2706 ft. from W¼ Cor. Sec. 13, T. 2 N., R. 1 W.

13416—Marlow L. Fisher, Centerville, Utah: 6.75 g.p.m. for domestic use from 3 in. well 130 ft. deep at point S. 2520.6 ft. and W. 1603.6 ft. from NE Cor. Sec. 7, T. 2 N., R. 1 E.

13421—Dora Magera, Magna, Utah: 10 g.p.m. for domestic use from 2½ in. well 100 ft. deep at point E. 820 ft. and N. 55 ft. from W¼ Cor. Sec. 21, T. 1 S., R. 2 W.

13422—Harvey C. Magera, Magna, Utah: 6.75 g.p.m. for domestic use from 2½ in. well 100 ft. deep at point E. 110 ft. and N. 432 ft. from W¼ Cor. Sec. 21, T. 1 S., R. 2 W.

13432—George Paskett, Grouse Creek, Utah: 6.75 g.p.m. for domestic use from 3 in. well 315 ft. deep at point S. 51 rds. and W. 3 rds. from SE Corn. Sec. 3, T. 11 N., R. 18 W.

13433—Ezra Wayment, RFD No. 2, Box 327, Ogden, Utah: 21.15 g.p.m. for irrigation from 2 in. well 300 ft. deep at point S. 355 ft. and E. 188 ft. from NW Cor. Sec. 6, T. 6 N., R. 2 W.

13503—Robert A. Olcott, Sevier, Utah: 6.75 g.p.m. for domestic use from 5 in. well 115 ft. deep at point W. 351 ft. and S. 1528 ft. from SE Cor. Sec. 34, T. 25 S., R. 4½ W.

13509—Morton Salt Company, Saltair, Utah: 166 g.p.m. for salt manufacturing from 6 in. well 860 ft. deep at point W. 7263 ft. and N. 3754 ft. from S¼ Cor. Sec. 35, T. 1 N., R. 3 W.

13524—Owen B. Wright and Lloyd B. Wright, Hurricane, Utah: 1.125 g.p.m. for stock watering from Sweat seep at point W. 1180 ft. and N. 440 ft. from E¼ Cor. Sec. 24, T. 43 S., R. 13 W.

13534—Florence Leone Day, 3873 So. 5300 West, RD No. 2, Salt Lake City: 6.75 g.p.m. for domestic use from 3 in. well 47 ft. deep at point N 2030.16 ft. and E. 104.19 ft. from S¼ Cor. Sec. 36, T. 1 S., R. 2 W.

13538—Levi Gordon Evans, 561h West 35th South, Salt Lake City, 6.75 g.p.m. for domestic use from 2 in. well 200 ft. deep at point S. 1539 ft. and E. 1051 ft. from NW Cor. Sec. 36, T. 1 S., R. 2 W.

13561—Heitt Moss, Levan, Utah: 45 g.p.m. for irrigation from a sump 20 ft. in diameter and 12 ft. deep, in the bottom of which is a 4 in. well driven to a depth of 47 ft. below ground surface at point S. 720 ft. and E. 2030 ft. from NW Cor. Sec. 2, T. 16 S., R. 1 W.

13572—Ernest M. Dunn, Grouse Creek, Utah: 360 g.p.m. for irrigation from 12 in. well 60 ft. deep at point S. 1892 ft. and W. 1289 ft. from NE Cor. Sec. 10, T. 11 N., R. 18 W.

13589—Kurt Matern, 4305 So. 5th East, [illegible] g.p.m. for domestic use

Leo H. Young

Being first duly sworn, deposes and says that he is the advertising clerk of THE DESERET NEWS, a newspaper published in Salt Lake City, Salt Lake County, in the State of Utah.

That the advertisement Notice to Water Users - State Engineer - Application A-1481 and 34 others.

was published in said newspaper, in its issue dated, the 13th day of June A. D. 1940

and was published 5 times

the last publication thereof being in the issue dated the 11th day of July A. D. 1940

/s/ Leo H. Young
Advertising Clerk.

Subscribed and sworn to before me this 12 day of July A. D. 1940

/s/ N. K. Whitney
Notary Public

I HEREBY CERTIFY that the foregoing is a true copy of Affidavit of Publication as shown by the records of my office on the date given below.

Salt Lake City, Utah February 17, 1944,

/s/ [illegible]
State Engineer

of 47 ft. below ground surface at point S. 720 ft. and E. 3030 ft. from NW Cor. Sec. 3. T. 15 S. R. 1 W.

13572—Ernest M. Dunn, Grouse Creek, Utah: 360 g.p.m. for irrigation from 12 in. well 60 ft. deep at point S. 1892 ft. and W. 1289 ft. from NE Cor. Sec. 10. T. 11 N., R. 18 W.

13589—Kurt Matern, 4305 So. 8th East, Murray, Utah: 6.75 g.p.m. for domestic use from 2 in. well 125 ft. deep at point W. 1100 ft. and S. 1441 ft. from NE Cor. Sec. 6. T. 2 S., R. 1 E.

13598—W Leo Whittle and Mel Thompson, RFD No 1, Sandy, Utah and RFD No. 1 Midvale, Utah, respectively: 10 g.p.m. for domestic use from 3 in. well 200 ft. deep at point S. 736 ft. and E. 115 ft. from NW Cor. Sec. 26. T. 2 S., R 1 W.

13611—Arnold C Jensen, 3695 So. 2d East, Salt Lake City: 6.75 g.p.m. for domestic use from 2¼ in. well 250 ft. deep at point N. 1827 ft. and W 1858 ft from SE Cor. Sec. 31. T. 1 S., R. 1 E.

13613—Hattie F Kynaston, 171 West Crystal Ave., Salt Lake City: 6.75 g.p.m. for domestic use from 2 in. well 200 ft. deep at point N 890 ft and W 1000 ft. from SE Cor. Sec. 25 T. 1 S., R. 1 W.

13616—R. A. Knadle, RFD No. 2, Box 133, Salt Lake City: 6.75 g.p.m. for domestic use from 3 in. well 125 ft. deep at point N. 126 ft. and W. 2257.5 ft. from SE Cor. Sec. 30. T. 1 S., R. 1 W.

13618—L. D. S. Church Welfare Program, 751 West 7th So., Salt Lake City: 11.25 g.p.m. for stock watering from 3 in. well 550 ft. deep at point S. 550 ft. and E. 2706 ft. from NW Cor. Sec. 23, T. 1 S., R. 1 W.

13619—United States National Park Service, Coolidge, Arizona: 40 g.p.m. for domestic use from 6 in. well 120 ft. deep at point N. 13 deg. 31 min. W. 634.4 ft. from E¼ Cor. Sec. 20. T. 25 S., R. 21 E.

13624—Elden C. Gibby, 402 E. 39th South, Salt Lake City: 6.75 g.p.m. for domestic use from 2 in. well 250 ft. deep at point N. 2216.9 ft. and W 152 ft. from S¼ Cor. Sec. 31. T. 1 S., R. 1 E.

13626—R. F. Rogers, RFD No. 2, Box 101A, Salt Lake City: 6.75 g.p.m. for domestic use from 3 in. well 70 ft. deep at point S. 1386 ft. and W. 66 ft. from N¼ Cor. Sec. 35. T. 1 S., R. 2 W.

13627—Dean B. Taylor, West Drive, Provo, Utah: 10 g.p.m. for domestic use from 3 in. well 200 ft. deep at point S. 2943.8 ft. and W. 368.5 ft. from NE Cor. Sec. 5. T. 6 S., R. 2 E.

13632—D. F. Bowthorpe, RFD No. 4, Murray, Utah: 10 g.p.m. for domestic use from 2 in. well 200 ft. deep at point E. 1526.38 ft. and S 75 ft. from NW Cor. Sec. 31. T. 1 S., R. 1 W.

13633—R. H. Poole, 204 East 39th South, Murray, Utah: 6.75 g.p.m. for domestic use from 2 in. well 240 ft. deep at point N. 1716 ft. and W. 865 ft. from S¼ Cor. Sec 31. T. 1 S., R. 1 E.

13634—Lorin Camp, 256 Leslie Ave., Salt Lake City: 6.75 g.p.m. for domestic use from 2 in. well 150 ft. deep at point N. 834 ft. and E. 2087 ft. from SW Cor. Sec. 19. T. 1 S., R. 1 E.

13635—Mrs. Lonia M. Madsen, 366 Wasmer Court, Salt Lake City: 6.75 g.p.m. for domestic use from 2 in. well 125 ft. deep at point N. 2461 ft. and W. 1810 ft. from SE Cor. Sec. 19. T. 1 S., R. 1 E.

13637—Lloyd H. Hammer, RFD No. 4, Box 273, Murray, Utah: 6.75 g.p.m. for domestic use from 3 in. well 90 ft. deep at point S. 1240 ft. and W. 897 ft. from NE Cor. Sec. 20. T. 2 S., R. 1 E.

13638—Gwendal Kenner, Magna, Utah: 6.75 g.p.m. for domestic use from 2 in. well 100 ft. deep at point S. 1697 ft. and E. 148 ft. from W¼ Cor. Sec. 32. T. 1 S., R. 1 W.

13643—R. Dean Ferreday, 183 Utonia Ave., Salt Lake City: 6.75 g.p.m. for domestic use from 2 in. well 150 ft. deep at point E. 1489.1 ft. and N. 1896.17 ft. from W¼ Cor. Sec. 19. T. 1 S., R. 1 E.

Protests resisting the granting of any of the foregoing Applications must be in affidavit form with extra copy and filed with T. H. Humpherys, State Engineer, Capitol Building, Salt Lake City, Utah, with a fee of $1 on or before August 10, 1940.

T. H. HUMPHERYS,
State Engineer.

02-17-1944: copy of the break down of the bill as applied to each application

NAME	APP. NO.	AMOUNT	NAME	APP. NO.	AMOUNT
Venstra, George	a-1481	2.43	Matern, Kurt	13589	2.43
Snyder, Katherine	a-1526	2.43	Whittle, Leo	13598	2.43
Haslum, Wm. D.	12264	2.43	Jensen, Arnold C.	13611	2.43
Garner, Ralph A.	13211	2.43	Knaple, R. H.	13616	2.43
Reed, Lewis	13360	2.43	L.D.S. Church	13618	2.43
Fisher, Marlow L.	13416	2.43	U.S. Nat'L Park Service	13619	2.43
Magera, Dora	13421	2.43	Gibby, Eldon, C.	13624	2.43
Magera, Harvey C.	13422	2.43	Rogers, R. E.	13626	2.43
Paskett, George	13432	2.43	Taylor, Dean B.	13627	2.43
Wayment, Ezra	13433	2.43	Bowthorpe, D. F.	13632	2.43
Olcott, Robert A.	13503	2.43	Poole, R. H.	13633	2.43
Morton, Salt Co.	13509	2.43	Camp, Lorin	13634	2.42
Wright, Owen B	13524	2.43	Madsen, Louis M.	13635	2.42
Day, Florence Leone	13534	2.43	Hammer, Lloyd H.	13637	2.42
Evans, Levi Gordon	13538	2.43	Kenner, Gwendal	13638	2.42
Moss, Hoitt	13561	2.43	Fereday R. Dean	13643	2.42
Dunn, Ernest M.	13572	2.43			
Gehring, August	12996	2.43	Kynaston, Hattie F.	13613	2.43

I HEREBY CERTIFY that the foregoing is a true copy of the break down of the bill as applied to each application, as shown by the records of my office on the date given below.

Salt Lake City, Utah, February 17, 1944

State Engineer

07-15-1940: the desert news publishing co. balance sheet

DESERET NEWS PUBLISHING CO.
P. O. BOX 1257

DISPLAY ADVERTISING STATEMENT — SALT LAKE CITY, UTAH

Glued portion attached

STATE OF UTAH
STATE ENGINEER'S OF.
CAPITOL BLDG.,
CITY

	Charge	Balance
JUNE 13 TO JULY 11, 1940 NOTICE TO WATER USERS APPLICATION A-1481 & 34 OTHERS 5 TIMES 17 INCHES	8500	8500

STATE OF UTAH)
COUNTY OF SALT LAKE) SS

I swear the above account is correct, that no part thereof has been previously presented to the Board of Commissioners, allowed nor paid.

THE DESERET NEWS
P A I D
JULY 15, 1940
Salt Lake City, Utah

/s/ John P. Isaac — Per /s/ Eva Thompson

Subscribed and sworn to July 15/40

/s/ N. K. Whitney
Notary Public

Total Miscellaneous Charge 8500
Total Charge for Month Ending July 11, 1940 8500

I HEREBY CERTIFY that the foregoing is a true copy of the Deseret News Publishing Company's advertising statement, as shown by the records of my office on the date given below.
Salt Lake City, Utah February 17, ,1944

E. H. Watson
State Engineer

NOTICE TO WATER USERS

The following Applications have been filed to change or to appropriate water from wells and springs in the State of Utah, all locations being from SLB&M.

TO CHANGE:

a-1481—George Venstra, Roy, Utah: 6.75 g.p.m. heretofore used for domestic use from 1¼ in. well 80 ft. deep at point S. 80 deg. W. 126 ft. from E¼ Cor. Sec. 16, T. 5 N., R. 2 W.; proposed hereafter to divert said water for same use from 2 in. well 90 feet deep at point N. 31.1 ft. and W. 129.1 ft. from said E¼ Cor. Sec. 16.

a-1526—Katherine Snyder, Woods Cross, Utah: 6 g.p.m. heretofore used for domestic purposes from 1 in. well 60 ft. deep at point S. 4020 ft. and W. 2172 ft. from N¼ Cor. Sec. 25, T. 2 N., R. 1 W.; proposed hereafter to divert said water for same use from 3 in. well 250 ft. deep at point S. 4036 ft. and W. 2238 ft. from said N¼ Cor. Sec. 25.

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Protests resisting the granting of any of the foregoing Applications must be in affidavit form with extra copy and filed with T. H. Humpherys, State Engineer, Capitol Building, Salt Lake City, Utah, with a fee of $1 on or before August 10, 1940.

T. H. HUMPHERYS,
State Engineer.

(D-[illegible]-21) 20 aad-1 File Copy

Form F-b—11-22-40—2M

Application No. 13619

Application to Appropriate Water for Domestic and Municipal Purposes

STATE OF UTAH

Do not fill out this blank until you have ready carefully and thoroughly understand the Rules and Regulations on the back hereof and all the notes in the body of it.

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for domestic and municipal purposes, Application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

NOTE.—The information given in the following blanks should be free from explanatory matter, but when necessary a complete supplementary statement should be made on the following page under the heading "Explanatory."

1. *The name of the applicant is* UNITED STATES OF AMERICA
2. *The post-office address of the applicant is* Coolidge, Arizona
3. *The quantity of water to be appropriated is* .088 *second-feet or* 40 g.p.m. ~~acre-feet~~ (See note on following page)
4. *The water is to be used each year from* January 1 (Month) (Day) *to* December 31 (Month) (Day) *incl.,*
   and stored each year (if stored) from ..... (Month) (Day) *to* ..... (Month) (Day) *incl.*
5. *The drainage area to whcih the direct source of supply belongs is* Colorado River (Leave blank)
6. *The direct source of supply is*† Underground water (Name of stream or other source)
   which is tributary to ....., *tributary to* .....

†NOTE.—Where water is to be diverted from a well or a tunnel, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, **even though the water may sink, evaporate, or be diverted before reaching said channels.** If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

7. *The point of diversion from* ~~stream, spring, spring area, drain, well (flowing or pump), tunnel, or~~ well (pump) (Strike words not needed)
   Pump well *is in* Grand *county, situated at a point**
   N. 13 degrees 31 minutes West 634.4 feet from the quarter corner common to Section 20 and 21, T. 25 S., R 21 E., S L B & M.

*NOTE.—The point of diversion must be located definitely by course and distance or by rectangular distances, with reference to some United States land corner or United States mineral monument, if within a distance of six miles of either, or if a greater distance, to some prominent and permanent natural object. (Also see note at top of following page.)

No Application will be received in which the point of diversion is not described definitely. Any change made in this description after Application is received and before approved will bring down the priority of Application to the date when the amendment is made of record in the State Engineer's office.

8. *The diverting and carrying works will consist of* Pump well, 120 feet deep, fully cased with 6-inch standard iron pipe
9. *The cross section of the diverting channel will be* ⊔ ⋁ ○ (Strike out ones not needed)
10. *The diverting works and diverting channel will be constructed of* ~~earth, wood,~~ iron, ~~concrete~~ (Strike out words not needed)
11. *The length of the diverting channel, exclusive of laterals, will be* 2,000 *feet*
12. *The top width of the diverting channel will be (if a ditch)* x *feet*
13. *The bottom width of the diverting channel will be (if a ditch)* x *feet*
14. *The depth of water in the diverting channel will be (if a ditch)* x *feet*
15. *The width of the diverting channel will be (if a flume)* x *feet*
16. *The depth of water in the diverting channel will be (if a flume)* x *feet*
17. *The diameter of the diverting channel will be (if a pipe)* 2 *inches*
18. *The grade of the diverting channel will be* variable *feet per thousand*

EXPLANATORY

NOTE.—The second sace provided in Paragraph 3 on page 1 must not be used except when storage is contemplated; in such case Paragraph 4 (first line) should indicate the time in each year during which the water will be released and used. The lands to be inundated by the reservoir must be described in the space below this note as nearly as may be and by government subdivisions if upon surveyed land, and the area of the reservoir when at full stage should be given in acres.

If the Reservoir is Located on the Channel of the Source from which the water is to be appropriated, it should be so stated in the space below, and—

1. The location of the center of the impounding dam should be described in Paragraph 7.
2. The point where the released storage will be rediverted from the natural stream should be described in the space below in accordance with the note under Paragraph 7.

When Water is Not Stored in the Natural Channel of the Source from which it is to be appropriated, it should be so stated in the space below, and—

1. The point of diversion from the supplying source should be described in Paragraph 7.
2. The center of the impounding dam and the point where the released storage will be rediverted from a natural channel should be described below in accordance with the note under Paragraph 7.

In all cases Paragraphs 8 to 18, inclusive, should describe the entire diverting works, exclusive of natural channels and laterals, even if already constructed in whole or in part.

If Application is Made for the Water of a Number of Springs, or other sources collected at a common point, said point should be described as the point of diversion in Paragraph 7 and the point of diversion from each source should also be described below, in accordance with the note in Paragraph 7. The quantity of water sought from each source should be indicated below, the total equaling the quantity specified in Paragraph 3. Where the source of supply is in reality a spring area, the point of diversion is the point where the water is collected; in such case the exterior boundary of the spring area must be described below by metes and bounds and located with reference to a point as outlined by the note under Paragraph 7.

The following additional facts are set forth in order to define more clearly the full purpose of the proposed appropriation:

This well is required to supply water for the headquarters at Arches National Monument which will include an administration building, a public comfort station, a public museum, ultimately not less than 4 employees residences, a utility area, and such other units as may be required. It is estimated that the developed area may receive 50,000 visitors annually. Plans (tentative) provide for a small pump to elevate the waters of the well to a 30,000-gallon concrete storage reservoir located on the cliff above to provide gravity distribution through a 4-inch iron down-pipe to outlets in the headquarters area. Incidental irrigation of ornamental planting around buildings is contemplated. ~~Maximum expected flow of the well is 40 gallons per minute.~~ There are no prior or conflicting water rights. All adjacent land is owned by the United States.

/s/ H. M. Miller
Hugh M. Miller, Superintendent, SWNM
*Signature of Applicant**

*If applicant is a corporation or other organization, signature must be in the name of such corporation or organization by its proper officer. If a corporation, the affidavit below need not be filled in. If there are more than one applicant, a power of attorney, authorizing one to act for all should accompany the Application.

STATE OF ~~UTAH,~~ Arizona
County of Pinal } ss.

On the 13 day of May, 19 40, personally appeared before me, a notary public for the State of ~~Utah~~, the above applicant who, on oath, declared that he is a citizen of the United States.

My commission expires Nov. 5/1941 Luis Castallerry (?)
(SEAL) *Notary Public.*

Arch. Desk 3

(This page is not to be filled in by applicant)

State Engineer's Endorsements

9:00 A.M.

1. May 17,1940 *Application received* ~~over counter~~ *by mail* *in State Engineer's office by* MHN
2. ..... *Priority of Application brought down to, on account of*.....
3. May 17,1940 *Fee for filing Application, $* 2.50 *, received by* Voucher received ERB Cc. #3016
4. May 18,1940 *Application copied in book* D-14 *, page* 310 *, and indexed by* Nty
5. May 20,1940 *Application platted by* A.C.T.
6. June 3,1940 *Application examined by* J.W.F.
7. ..... *Application returned, with letter, to*..... *for correction*
8. ..... *Corrected Application resubmitted* ~~over counter~~ *by mail* *to State Engineer's office.*
9. -- *Fee for publishing notice requested.* $2.57 refunded -- check #3931
10. May 17,1940 *Fee for publishing notice, $* 5.00 *, received by* Voucher recd. ERB Rec. #1158
11. June 3,1940 *Application approved for advertisement by* BFL RJ THH JWF
12. June 5,1940 *Notice to water users prepared by* JWF
13. June 13,1940 *Publication began; was completed* July 11,1940
    Notice published in Deseret News
14. June 11,1940 *Proof slips checked by* JWF - MS.
15. ..... *Application protested by*.....
16. Sept. 12,1940 *Application designated for* *approval* ~~*rejection*~~ *by* BFL RJ THH JWF
17. -- *Fee for approving Application requested*.....
18. May 17,1940 *Fee for approving Application, $2.50, received by* Voucher rec'd. ERB - Rec. #3016
19. Sept.17,1940 *Application proofread by* MS & MCT
20. Sept. 19,1940 *Application* *approved* ~~*rejected*~~ *and returned to applicant*.....

This Application is approved, subject to prior rights, if any, on the following conditions:

1. *Actual construction work shall begin within six months from date of approval.*
2. *Proof of Appropriation shall be submitted to the State Engineer's office by* Dec.15,1943,
3. ..... Extended to Dec. 15, 1947

/s/ T. H. Humpherys
T. H. HUMPHERYS *State Engineer.*

21. ..... *Time for making Proof of Appropriation extended to*.....
22. ..... *Proof of Appropriation submitted.*
23. ..... *Fee for filing Proof of Apppropriation, $1.00, received by*.....
24. ..... *Fee for filing maps, profiles and drawings, $5.00, received by*.....
25. ..... *Fee for issuing Certficate of Appropriation, $1.00, received by*.....
26. ..... *Certificate of Appropriation, No*....., *issued*

I HEREBY CERTIFY that the foregoing is a true copy of the Application by.....
to appropriate water and of the endorsements therein as shown by the records of my office on the date given below.

Salt Lake City, Utah,....., 19..... .....
State Engineer.

Application No. 13619

NOTICE TO APPLICANT

The approval of this Application is not a Certificate of Appropriation. It is merely your authority to begin construction work, which must be commenced within six months from the date of approval of this Application and prosecuted diligently to completion. To secure a Certificate of Appropriation under this Application, Proof of Appropriation must be submitted within the time limit allowed by the State Engineer. The amount of water for which Certificate will be issued will depend upon the amount of water actually put to a beneficial use, not to exceed, however ,the amount of water specified in this Application. Proof of Appropriation must be made in accordance with the requirements of the law. For further information write the State Engineer.

(Not to be filled in by applicant)

No. 13619

APPLICATION

OF United States of America

TO APPROPRIATE WATER

FROM Underground Water

IN Grand County

FOR DOMESTIC AND MUNICIPAL PURPOSES

Rules and Regulations

All waters in this state, whether aoove or under the ground, are the property of the public, subject to all existing rights to the use thereof. No appropriation of the unappropriated public water may be made and no rights to the use thereof shall be recognized except Application for such appropriation first be made to the State Engineer.

The application must be signed by the applicant at the bottom of page 2 and the affidavit relating to citizenship, acknowledged before a Notary Public before the Application be received by the State Engineer.

An Application shall not be made for more than one purpose, except where the secondary purpose is a necessary incident to the primary one; as for instance, an Application for irrigation purposes may specify domestic purposes as a necessary incident.

An Application made to appropriate water for use in a single system with one or more points of diversion or sources of supply, or both, whether the water be commingled or not, may be accepted if made by one person or by a corporation, if and when the points of diversion be in close proximity or located in continguous sections by government survey; provided, however, that the quantity of water sought, also tie to section corner, be given for each point of diversion.

In case a material error is made in the description of the point of diversion, or in case any error is made the correction of which would enlarge the rights sought in an Application after its receipt in the State Engineer's office, then such error may be corrected, but the priority date of the Application will be changed to the time when the corrected Application is resubmitted in the State Engineer's office; and, if the notice to water users has been published, the State Engineer may in his discretion cause a revised notice to be published at the expense of the applicant.

When there are two or more coapplicants the Application must be accompanied by a power of attorney, together with a fee of $1.00, authorizing one to act for all.

The applicant's permanent address should be given in Paragraph 2, and the State Engineer notified promptly of any change in address; otherwise applicant may lose rights initiated by Application by failing to receive notices sent from the State Engineer's office.

No Application or other paper pertaining to an Application will be marked received unless accompanied with the required filing fee.

Applications accepted and numbered by the State Engineer, when returned to applicant for correction or additions, must be amended with red ink. Erasures must not be made, but any matter may be eliminated by running a red line through it. Corrected Applications must be resubmitted to the State Engineer's office, within sixty days from the date of State Engineer's letter returning Application for correction; otherwise the Application will lapse.

Applicants will be informed by the State Engineer's office when cost of publishing notice of Application is due, and must advance cost within sixty days after date of notice, otherwise Application will lapse.

Fees Required by Law Payable to State Engineer

For filing Application to appropriate 10 second-feet of water or less and additionally, $1.00 for each second-foot above 10.	$2.50
For filing Application to appropriate 500 acre-feet of water or less and additionally, 2 cents for each acre-foot above 500.	2.50
When the filing fee on any Application to appropriate water shall exceed $1,000.00, the balance of the fee in excess of $1,000.00 may, at the option of the applicant, be paid at the time the Proof of Appropriation is submitted.	
For approving and recording completed Application	2.50
For examining and filing written Proof of Appropriation	1.00
For examining and filing map, profile and drawings that are part of the Proof of Appropriation	5.00
For issuing Certficate of Appropriation	1.00
For filing and examining paper of assignment	1.00
For filing protests against the granting of Application or answers thereto	1.00
For filing an affidavit or any other paper	1.00

NOTE.—Applicants will save time and expense by familiarizing themselves with the law before making Application.

3/4/44 Arches - Deed 3

PAGE ..... (Leave Blank)

Report No. .....
Filed ....., 194....
Rec. By .....
Ret'd .....

Report of Well and Tunnel Driller
STATE OF UTAH

(Separate report shall be filed for each well or tunnel)

GENERAL INFORMATION:

Report of well or tunnel driller is hereby made and filed with the State Engineer, in compliance with Utah Code Annotated, 1943. (This report shall be filed with the State Engineer within 30 days after the completion or abandonment of well or tunnel. Failure to file such report constitutes a misdemeanor.)

1. Name and address of person, company or corporation boring or drilling well or tunnel (Strike words not needed)
C M Conway Blanding Utah

2. Name and address of owner of well or tunnel (Strike words not needed) National Park Service

3. Source of supply is in Grand County County; ..... (Leave blank) drainage area; ..... (Leave blank) artesian basin

4. The number of approved application to appropriate water is 15619

5. Location of well or mouth of tunnel is situated at a point N. 15° 31' - West 634.4 ft. from the quarter corner common to Sections 20- 21 - T. 26 S. R. 21 E. S. L. M.
(Describe by rectangular co-ordinates or by one course and distance with reference to U. S. Government Survey Corner — Copy description from well owner's approved application)

6. Date on which work on well or tunnel was begun Feb. 16, 1940 (Strike words not needed)

7. Date on which work on well was completed or abandoned Feb. 29, 1940. (Strike words not needed)

8. Maximum quantity of water measured flowing, pumped or ..... on completion of (Strike words not needed)
well ..... ft. ; or in gals. per minute 10 Date 2/29/40

DETAIL OF COLLECTING WORKS:

9. **WELL:** It is a drilled, dug, flowing or pump well. Temperature of water 64 °F. (Strike words not needed)

(a) Total depth of well is 117 ft. below ground surface.

(b) If flowing well, give water pressure (hydrostatic head) above ground surface ..... ft.

(c) If pump well, give depth from ground surface to water surface before pumping 95 ft. ; during pumping 95 ft.

(d) Size and kind of casing 6 " Steel (Oil Well) (If only partially cased, give details)

(e) Depth to water bearing stratum 104 (If more than one stratum, give depth to each)

(f) If casing is perforated, give depth from ground surface to perforations none

(g) Log of well 0 to 2" Sand and Gravel
2 to 117 Sandstone (Navajo)

(h) Well was equipped with cap, valve, or ..... to control flow. (Strike words not needed)

(Over)

10. **TUNNEL:** It is timbered, tiled, piped, open, bulkheaded, covered or.....
(Strike words not needed)

(a) Dimensions.....; total length.....; temperature of water.....°F.

(b) Position of water bearing stratum or strata with reference to mouth of tunnel.....

.....

.....

(c) Log of tunnel.....

.....

.....

.....

11. **GENERAL REMARKS:** (Note any general or detailed information not covered above.)

STATE OF UTAH,
COUNTY OF San Juan } ss.

I, C. M. Conway, being first duly sworn, do hereby certify that I am the driller of the aforesaid well or tunnel who furnished the foregoing statement of facts; that I have read said statement and each and all of the items therein contained are true to the best of my knowledge and belief.

C M Conway
Driller

Subscribed and sworn to before me this 3rd. day of March, 194 4

Thomas C. Miller
Notary Public
Custodian, Aztec Ruins National Monument
" Act of June 20, 1943, section 206".

(SEAL)

My Commission Expires:

.....

10-27-1943: land ownership record

Form NPS-L-1 UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE Mail to Archos

LAND OWNERSHIP RECORD

State Utah Tract No.

County Grand Deed No. 3

Civil Subdivision Area acres Arches National Monument (Name of Park or Area)

Right based on application filed May 17,1940 Date Headquarters (Section of Park or Area)

Legal Description: Water right application 13619, Certificate , with priority of May 17, 1940.

Method of Acquisition: Water Right appropriation Appropriation or Source of funds: Water rights

Cost (if purchased) or estimated value: Approx. value $2,000

Acquired from: State of Utah

Accepted by Secretary ( ) Opinion of Att'y. Gen.-title in U. S. ( ) date:

Physical Characteristics: A conditional right to divert 0.088 sec. ft. of water from the underground flow in that portion of Section 20, T25S, R21E, SLM lying north of State Highway No. 450 and use said water for domestic, recreational, irrigation and fire protection purposes on the Headquarters Area of Arches National Monument in Sections 20 & 21 of same Township and Range.

Improvements on Land at time of Acquisition:

Existing or outstanding special use permits, reservations, rights, or rights of way:

Report Based on: Records of water rights section.

Prepared by: A. Van V. Dunn date: Oct. 27, 1943.

Map References: ARC - 5312, ARC - 69--

Remarks: Final certificate depends on completion of construction and full beneficial use. This right is appurtenant to land covered by deed No. 2.

25248

Supporting Hydro Data

METERED WATER USE
WELL
APPLICATION #A57272
ARCHES NATIONAL PARK

DATE	DAYS ELAPSED	READING	USE GALLONS	USE GALLONS/DAY	USE CFS, 24HRS	USE CFS, 8HRS
DEC 22 1986		7240920				
DEC 23 1986	1	7240920	0	0	0.000	0.000
DEC 24 1986	1	7246240	5320	5320	0.008	0.025
DEC 29 1986	4	7264120	17880	4470	0.007	0.021
DEC 30 1986	1	7264120	0	0	0.000	0.000
DEC 31 1986	1	7274790	10670	10670	0.017	0.050
JAN 2 1987	2	7285470	10680	5340	0.008	0.025
JAN 5 1987	3	7296460	10990	3663	0.006	0.017
JAN 6 1987	1	7300170	3710	3710	0.006	0.017
JAN 7 1987	1	7301920	1750	1750	0.003	0.008
JAN 8 1987	1	7307490	5570	5570	0.009	0.026
JAN 9 1987	1	7312690	5200	5200	0.008	0.024
JAN 12 1987	3	7312940	250	83	0.000	0.000
JAN 13 1987	1	7319740	6800	6800	0.011	0.032
JAN 14 1987	1	7321810	2070	2070	0.003	0.010
JAN 15 1987	1	7325090	3280	3280	0.005	0.015
JAN 16 1987	1	7330480	5390	5390	0.008	0.025
JAN 19 1987	3	7341040	10560	3520	0.005	0.016
JAN 20 1987	1	7346380	5340	5340	0.008	0.025
JAN 21 1987	1	7351700	5320	5320	0.008	0.025
JAN 22 1987	1	7351700	0	0	0.000	0.000
JAN 23 1987	1	7357040	5340	5340	0.008	0.025
JAN 26 1987	3	7373130	16090	5363	0.008	0.025
JAN 27 1987	1	7378680	5550	5550	0.009	0.026
JAN 28 1987	1	7378720	40	40	0.000	0.000
JAN 29 1987	1	7397010	18290	18290	0.028	0.085
JAN 30 1987	1	7402270	5260	5260	0.008	0.024
JAN 31 1987	1	7405790	3520	3520	0.005	0.016
FEB 2 1987	2	7413180	7390	3695	0.006	0.017
FEB 3 1987	1	7413220	40	40	0.000	0.000
FEB 4 1987	1	7413220	0	0	0.000	0.000
FEB 5 1987	1	7413220	0	0	0.000	0.000
FEB 6 1987	1	7419710	6490	6490	0.010	0.030
FEB 9 1987	3	7419710	0	0	0.000	0.000
FEB 10 1987	1	7424670	4960	4960	0.008	0.023
FEB 11 1987	1	7424670	0	0	0.000	0.000
FEB 12 1987	1	7424990	320	320	0.000	0.001
FEB 13 1987	1	7424990	0	0	0.000	0.000
FEB 17 1987	4	7429980	4990	1248	0.002	0.006
FEB 18 1987	1	7429980	0	0	0.000	0.000
FEB 19 1987	1	7446210	16230	16230	0.025	0.075
FEB 20 1987	1	7446210	0	0	0.000	0.000
FEB 23 1987	3	7446210	0	0	0.000	0.000
FEB 24 1987	1	7451160	4950	4950	0.008	0.023
FEB 25 1987	1	7451160	0	0	0.000	0.000
FEB 26 1987	1	7451160	0	0	0.000	0.000
FEB 27 1987	1	7451160	0	0	0.000	0.000

MAR	2	1987	3	7456200	5040	1680	0.003	0.008
MAR	3	1987	1	7456200	0	0	0.000	0.000
MAR	4	1987	1	7456200	0	0	0.000	0.000
MAR	5	1987	1	7458390	2190	2190	0.003	0.010
MAR	6	1987	1	7462740	4350	4350	0.007	0.020
MAR	8	1987	2	7462740	0	0	0.000	0.000
MAR	9	1987	1	7462740	0	0	0.000	0.000
MAR	10	1987	1	7466410	3670	3670	0.006	0.017
MAR	11	1987	1	7468680	2270	2270	0.004	0.011
MAR	12	1987	1	7468680	0	0	0.000	0.000
MAR	13	1987	1	7468680	0	0	0.000	0.000
MAR	14	1987	1	7468680	0	0	0.000	0.000
MAR	16	1987	2	7475350	6670	3335	0.005	0.015
MAR	17	1987	1	7481080	5730	5730	0.009	0.027
MAR	18	1987	1	7487760	6680	6680	0.010	0.031
MAR	19	1987	1	7516050	28290	28290	0.044	0.131
MAR	20	1987	1	7516050	0	0	0.000	0.000
MAR	23	1987	3	7520990	4940	1647	0.003	0.008
MAR	24	1987	1	7521080	90	90	0.000	0.000
MAR	25	1987	1	7526040	4960	4960	0.008	0.023
MAR	27	1987	2	7528670	2630	1315	0.002	0.006
MAR	28	1987	1	7531240	2570	2570	0.004	0.012
MAR	29	1987	1	7531240	0	0	0.000	0.000
MAR	30	1987	1	7536640	5400	5400	0.008	0.025
MAR	31	1987	1	7546940	10300	10300	0.016	0.048
APR	1	1987	1	7560410	13470	13470	0.021	0.063
APR	2	1987	1	7560410	0	0	0.000	0.000
APR	3	1987	1	7566000	5590	5590	0.009	0.026
APR	6	1987	3	7576620	10620	3540	0.005	0.016
APR	7	1987	1	7576620	0	0	0.000	0.000
APR	8	1987	1	7581810	5190	5190	0.008	0.024
APR	9	1987	1	7581810	0	0	0.000	0.000
APR	10	1987	1	7586930	5120	5120	0.008	0.024
APR	13	1987	3	7607640	20710	6903	0.011	0.032
APR	14	1987	1	7616430	8790	8790	0.014	0.041
APR	15	1987	1	7635770	19340	19340	0.030	0.090
APR	16	1987	1	7645180	9410	9410	0.015	0.044
APR	17	1987	1	7645180	0	0	0.000	0.000
APR	21	1987	4	7673360	28180	7045	0.011	0.033
APR	24	1987	3	7712650	39290	13097	0.020	0.061
MAY	20	1987	26	7731440	18790	723	0.001	0.003
MAY	21	1987	1	7772830	41390	41390	0.064	0.192
MAY	22	1987	1	7802350	29520	29520	0.046	0.137
MAY	27	1987	5	7879680	77330	15466	0.024	0.072
MAY	28	1987	1	7887450	7770	7770	0.012	0.036
MAY	29	1987	1	7901760	14310	14310	0.022	0.066
JUN	1	1987	3	7938980	37220	12407	0.019	0.058
JUN	2	1987	1	7944460	5480	5480	0.008	0.025
JUN	3	1987	1	7956030	11570	11570	0.018	0.054
JUN	4	1987	1	7965990	9960	9960	0.015	0.046
JUN	5	1987	1	7979810	13820	13820	0.021	0.064
JUN	8	1987	3	8019780	39970	13323	0.021	0.062
JUN	9	1987	1	8025840	6060	6060	0.009	0.028
JUN	10	1987	1	8033390	7550	7550	0.012	0.035
JUN	11	1987	1	8047180	13790	13790	0.021	0.064
JUN	12	1987	1	8062580	15400	15400	0.024	0.072

JUN 13 1987	1	8080890	18310	18310	0.028	0.085
JUN 14 1987	1	8092090	11200	11200	0.017	0.052
JUN 15 1987	1	8094290	2200	2200	0.003	0.010
JUN 16 1987	1	8103280	8990	8990	0.014	0.042
JUN 17 1987	1	8116930	13650	13650	0.021	0.063
JUN 18 1987	1	8124550	7620	7620	0.012	0.035
JUN 19 1987	1	8148820	24270	24270	0.038	0.113
JUN 20 1987	1	8168040	19220	19220	0.030	0.089
JUN 22 1987	2	8182680	14640	7320	0.011	0.034
JUN 23 1987	1	8212630	29950	29950	0.046	0.139
JUN 24 1987	1	8233590	20960	20960	0.032	0.097
JUN 25 1987	1	8240900	7310	7310	0.011	0.034
JUN 26 1987	1	8251690	10790	10790	0.017	0.050
JUN 29 1987	3	8289480	37790	12597	0.019	0.058
JUN 30 1987	1	8295370	5890	5890	0.009	0.027
JUL 1 1987	1	8311630	16260	16260	0.025	0.076
JUL 2 1987	1	8321210	9580	9580	0.015	0.044
JUL 6 1987	4	8379010	57800	14450	0.022	0.067
JUL 7 1987	1	8394180	15170	15170	0.023	0.070
JUL 8 1987	1	8410040	15860	15860	0.025	0.074
JUL 9 1987	1	8417690	7650	7650	0.012	0.036
JUL 10 1987	1	8439510	21820	21820	0.034	0.101
JUL 13 1987	3	8468890	29380	9793	0.015	0.045
JUL 14 1987	1	8475090	6200	6200	0.010	0.029
JUL 15 1987	1	8483730	8640	8640	0.013	0.040
JUL 16 1987	1	8525730	42000	42000	0.065	0.195
JUL 17 1987	1	8541910	16180	16180	0.025	0.075
JUL 20 1987	3	8560340	18430	6143	0.010	0.029
JUL 21 1987	1	8581470	21130	21130	0.033	0.098
JUL 22 1987	1	8610200	28730	28730	0.044	0.133
JUL 23 1987	1	8616420	6220	6220	0.010	0.029
JUL 24 1987	1	8622300	5880	5880	0.009	0.027
JUL 27 1987	3	8655540	33240	11080	0.017	0.051
JUL 28 1987	1	8661290	5750	5750	0.009	0.027
JUL 29 1987	1	8667180	5890	5890	0.009	0.027
JUL 30 1987	1	8671330	4150	4150	0.006	0.019
AUG 3 1987	4	8700610	29280	7320	0.011	0.034
AUG 4 1987	1	8731670	31060	31060	0.048	0.144
AUG 5 1987	1	8739210	7540	7540	0.012	0.035
AUG 6 1987	1	8744380	5170	5170	0.008	0.024
AUG 7 1987	1	8749680	5300	5300	0.008	0.025
AUG 10 1987	3	8761110	11430	3810	0.006	0.018
AUG 11 1987	1	8782930	21820	21820	0.034	0.101
AUG 12 1987	1	8810300	27370	27370	0.042	0.127
AUG 13 1987	1	8816110	5810	5810	0.009	0.027
AUG 14 1987	1	8827970	11860	11860	0.018	0.055
AUG 17 1987	3	8866280	38310	12770	0.020	0.059
AUG 18 1987	1	8898370	32090	32090	0.050	0.149
AUG 19 1987	1	8905480	7110	7110	0.011	0.033
AUG 20 1987	1	8912600	7120	7120	0.011	0.033
AUG 21 1987	1	8918040	5440	5440	0.008	0.025
AUG 25 1987	4	8962330	44290	11073	0.017	0.051
AUG 26 1987	1	8962330	0	0	0.000	0.000
AUG 27 1987	1	8968090	5760	5760	0.009	0.027
AUG 28 1987	1	8968840	750	750	0.001	0.003
AUG 31 1987	3	9001030	32190	10730	0.017	0.050

SEP 1 1987	1	9007580	6550	6550	0.010	0.030
SEP 2 1987	1	9042420	34840	34840	0.054	0.162
SEP 3 1987	1	9047830	5410	5410	0.008	0.025
SEP 4 1987	1	9059870	12040	12040	0.019	0.056
SEP 8 1987	4	9079560	19690	4923	0.008	0.023
SEP 9 1987	1	9116320	36760	36760	0.057	0.171
SEP 10 1987	1	9128370	12050	12050	0.019	0.056
SEP 11 1987	1	9143600	15230	15230	0.024	0.071
SEP 14 1987	3	9165460	21860	7287	0.011	0.034
SEP 15 1987	1	9179420	13960	13960	0.022	0.065
SEP 16 1987	1	9179420	0	0	0.000	0.000
SEP 17 1987	1	9184880	5460	5460	0.008	0.025
SEP 21 1987	4	9231910	47030	11758	0.018	0.055
SEP 22 1987	1	9262100	30190	30190	0.047	0.140
SEP 23 1987	1	9262490	390	390	0.001	0.002
SEP 24 1987	1	9265570	3080	3080	0.005	0.014
SEP 25 1987	1	9269640	4070	4070	0.006	0.019
SEP 28 1987	3	9298640	29000	9667	0.015	0.045
SEP 29 1987	1	9332410	33770	33770	0.052	0.157
SEP 30 1987	1	9332410	0	0	0.000	0.000
OCT 1 1987	1	9356200	23790	23790	0.037	0.110
OCT 2 1987	1	9362650	6450	6450	0.010	0.030
OCT 19 1987	17	9442520	79870	4698	0.007	0.022
OCT 20 1987	1	9452800	10280	10280	0.016	0.048
OCT 21 1987	1	9485450	32650	32650	0.051	0.152
OCT 22 1987	1	9485450	0	0	0.000	0.000
OCT 23 1987	1	9485450	0	0	0.000	0.000
OCT 26 1987	3	9490270	4820	1607	0.002	0.007
OCT 27 1987	1	9494780	4510	4510	0.007	0.021
OCT 28 1987	1	9494780	0	0	0.000	0.000
OCT 29 1987	1	9498110	3330	3330	0.005	0.015
OCT 30 1987	1	9498110	0	0	0.000	0.000
NOV 2 1987	3	9499950	1840	613	0.001	0.003
NOV 3 1987	1	9509320	9370	9370	0.015	0.044
NOV 4 1987	1	9509320	0	0	0.000	0.000
NOV 5 1987	1	9511220	1900	1900	0.003	0.009
NOV 6 1987	1	9511220	0	0	0.000	0.000
NOV 9 1987	3	9513880	2660	887	0.001	0.004
NOV 10 1987	1	9518110	4230	4230	0.007	0.020
NOV 12 1987	2	9520120	2010	1005	0.002	0.005
NOV 23 1987	11	9533810	13690	1245	0.002	0.006
NOV 30 1987	7	9553870	20060	2866	0.004	0.013
DEC 1 1987	1	9555330	1460	1460	0.002	0.007
DEC 2 1987	1	9567100	11770	11770	0.018	0.055
DEC 3 1987	1	9567100	0	0	0.000	0.000
DEC 4 1987	1	9568520	1420	1420	0.002	0.007
DEC 7 1897	3	9569250	730	243	0.000	0.001
DEC 8 1987	1	9572310	3060	3060	0.005	0.014
DEC 9 1987	1	9573070	760	760	0.001	0.004
DEC 10 1987	1	9573920	850	850	0.001	0.004
DEC 11 1987	1	9574890	970	970	0.002	0.005
DEC 14 1987	3	9575590	700	233	0.000	0.001
DEC 15 1987	1	9578680	3090	3090	0.005	0.014
DEC 16 1987	1	9578960	280	280	0.000	0.001
DEC 17 1987	1	9578960	0	0	0.000	0.000
DEC 18 1987	1	9578960	0	0	0.000	0.000

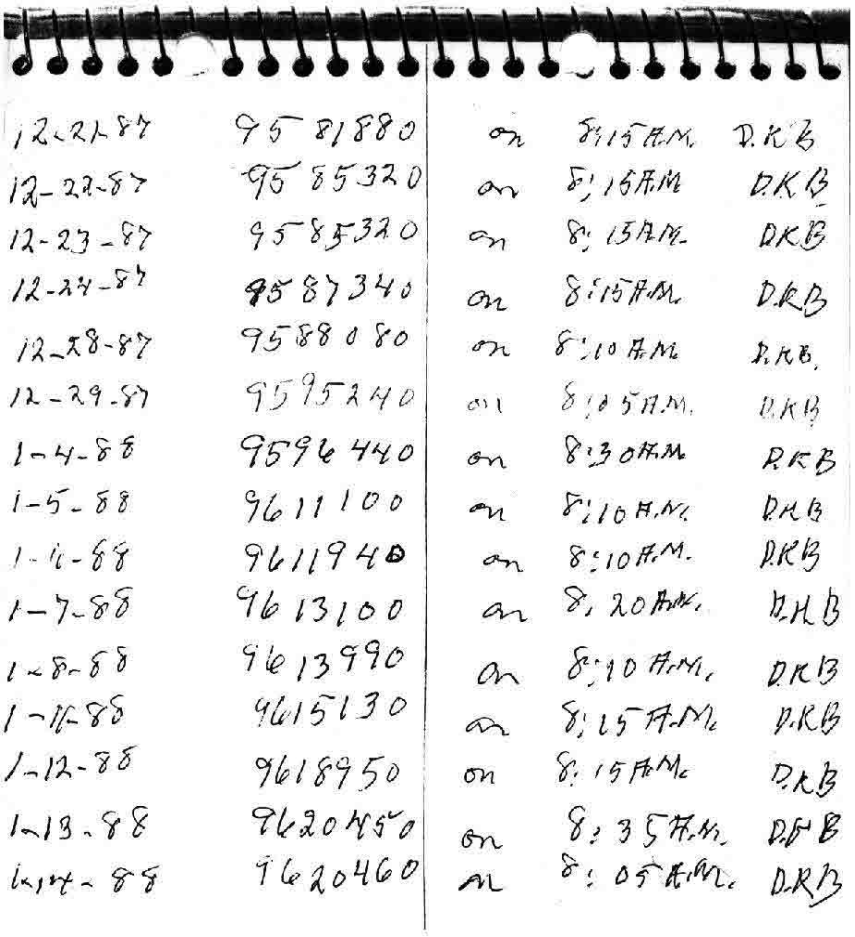
DEC 21 1987	3	9581880	2920	973	0.002	0.005
DEC 22 1987	1	9585320	3440	3440	0.005	0.016
DEC 23 1987	1	9585320	0	0	0.000	0.000
DEC 24 1987	1	9587340	2020	2020	0.003	0.009
DEC 28 1987	4	9588080	740	185	0.000	0.001
DEC 29 1987	1	9595240	7160	7160	0.011	0.033
JAN 4 1988	6	9596440	1200	200	0.000	0.001
JAN 5 1988	1	9611100	14660	14660	0.023	0.068
JAN 6 1988	1	9611940	840	840	0.001	0.004
JAN 7 1988	1	9613100	1160	1160	0.002	0.005
JAN 8 1988	1	9613990	890	890	0.001	0.004
JAN 11 1988	3	9615130	1140	380	0.001	0.002
JAN 12 1988	1	9618950	3820	3820	0.006	0.018
JAN 13 1988	1	9620450	1500	1500	0.002	0.007
JAN 14 1988	1	9620460	10	10	0.000	0.000

TOTAL DAYS: 387 TOTAL YIELD: 2379540 GALLONS

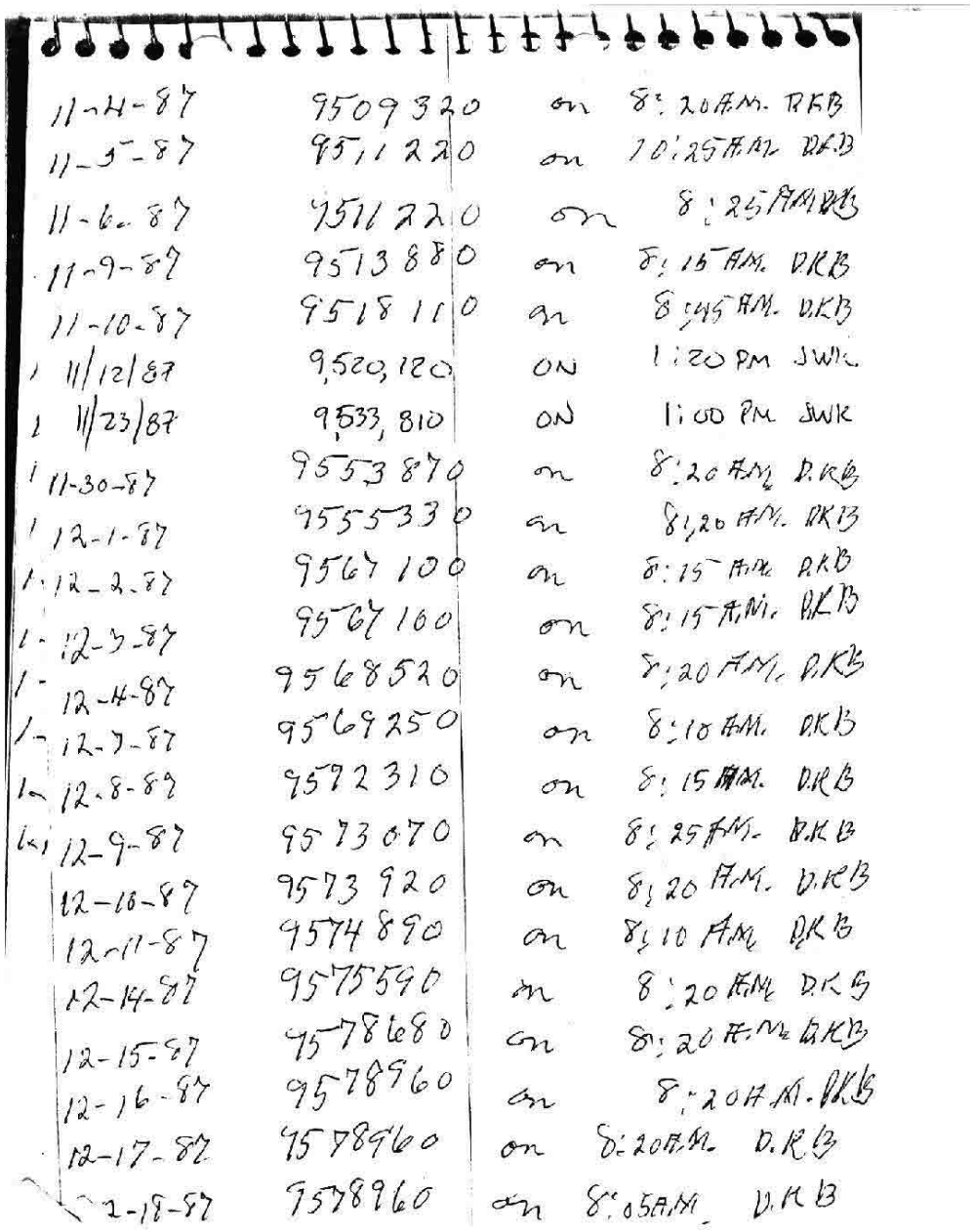
AVERAGE YEILD: 6149 GPD OR 0.0095 CFS BASED ON 24 HOUR DAY
OR 0.0286 CFS BASED ON 8 HOUR DAY

MAXIMUM FLOW: 0.065 CFS BASED ON 24 HOUR DAY
0.195 CFS BASED ON 8 HOUR DAY

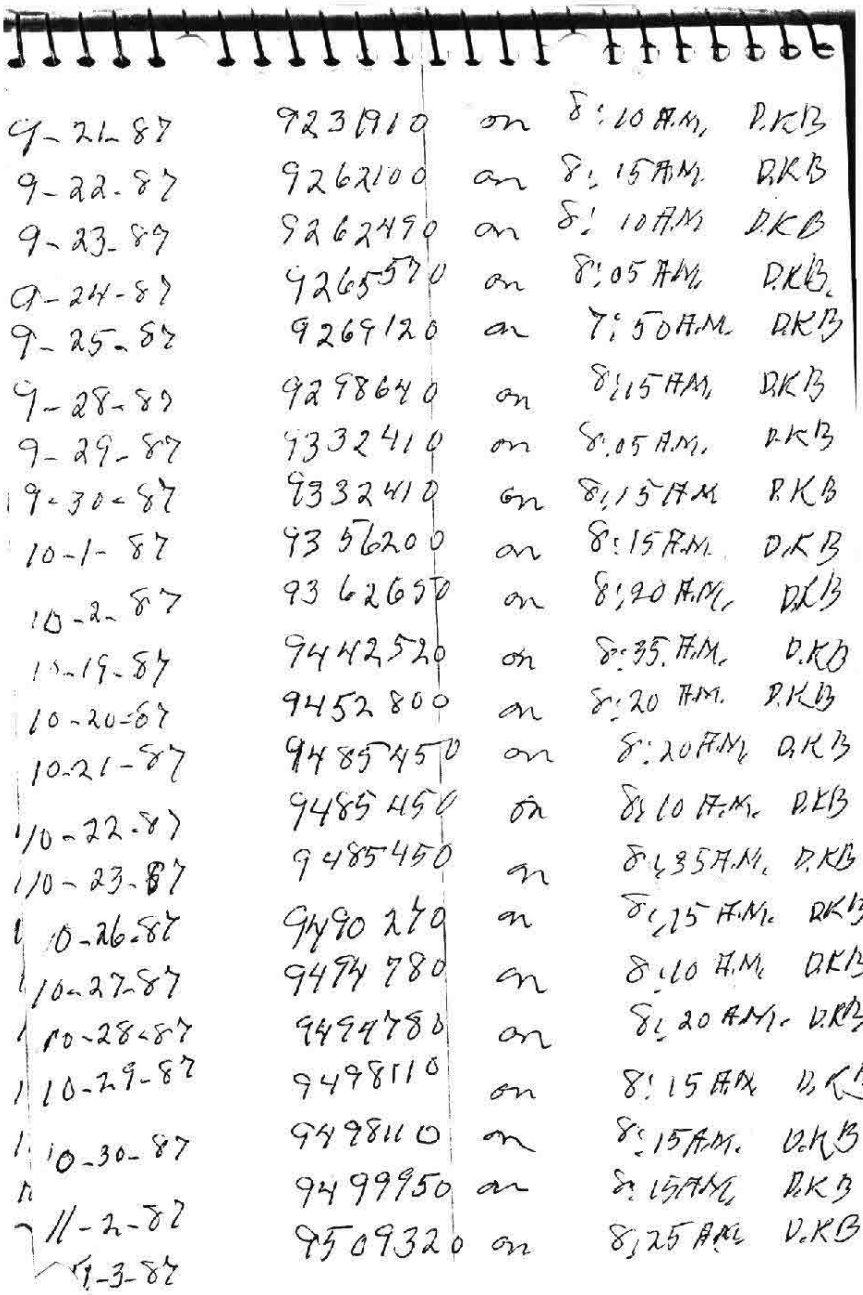
00-00-0000: handwritten date and times of metered water use



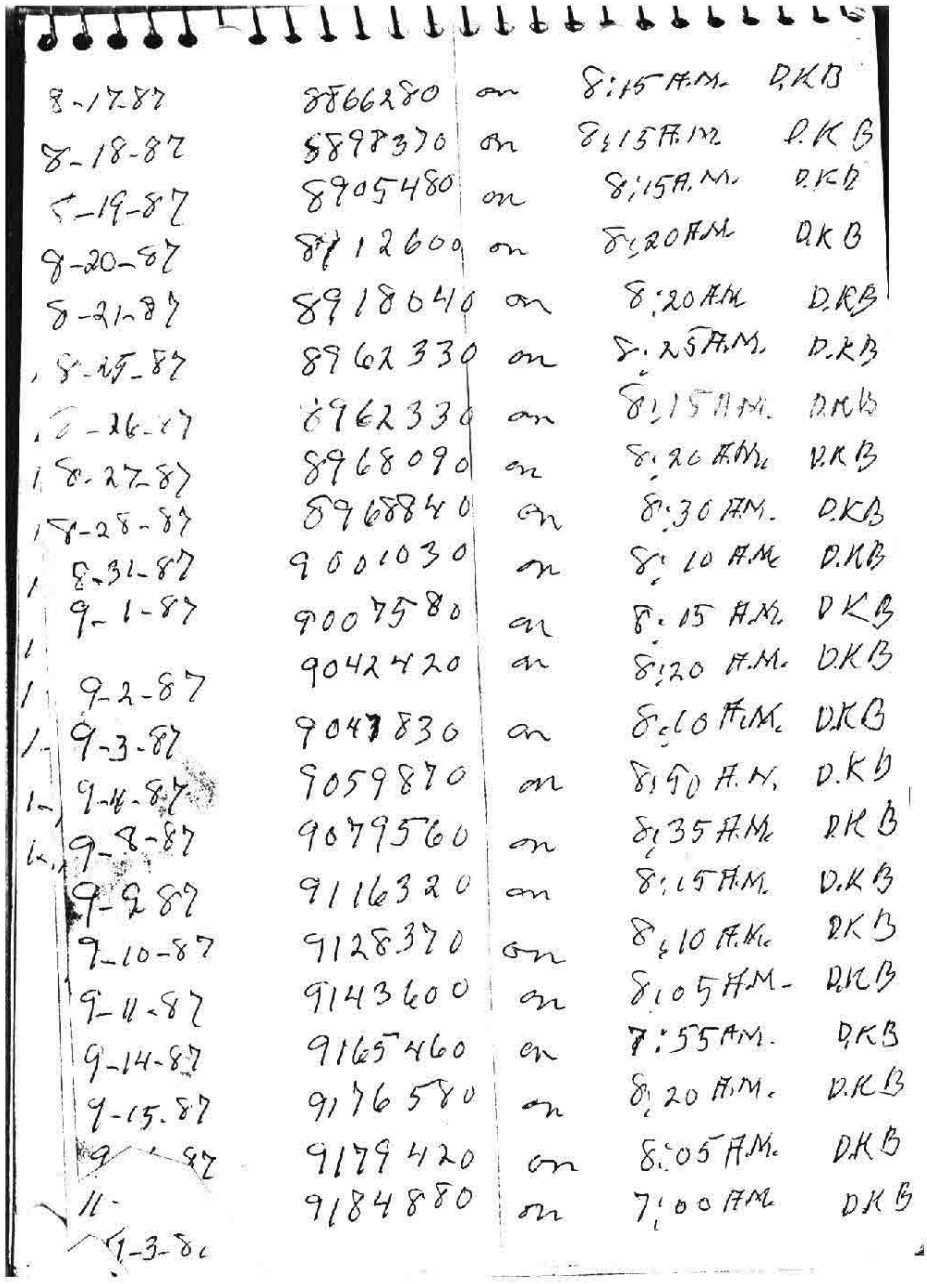
12-21-87	95 81880	on	8:15 A.M.	D.K.B
12-22-87	95 85320	on	8:15 A.M.	D.K.B
12-23-87	95 85320	on	8:15 A.M.	D.K.B
12-24-87	95 87340	on	8:15 A.M.	D.K.B
12-28-87	95 88080	on	8:10 A.M.	D.K.B.
12-29-87	95 95240	on	8:05 A.M.	D.K.B
1-4-88	95 96440	on	8:30 A.M.	D.K.B
1-5-88	96 11100	on	8:10 A.M.	D.K.B
1-6-88	96 11940	on	8:10 A.M.	D.K.B
1-7-88	96 13100	on	8:20 A.M.	D.K.B
1-8-88	96 13990	on	8:10 A.M.	D.K.B
1-11-88	96 15130	on	8:15 A.M.	D.K.B
1-12-88	96 18950	on	8:15 A.M.	D.K.B
1-13-88	96 20450	on	8:35 A.M.	D.K.B
1-14-88	96 20460	on	8:05 A.M.	D.K.B



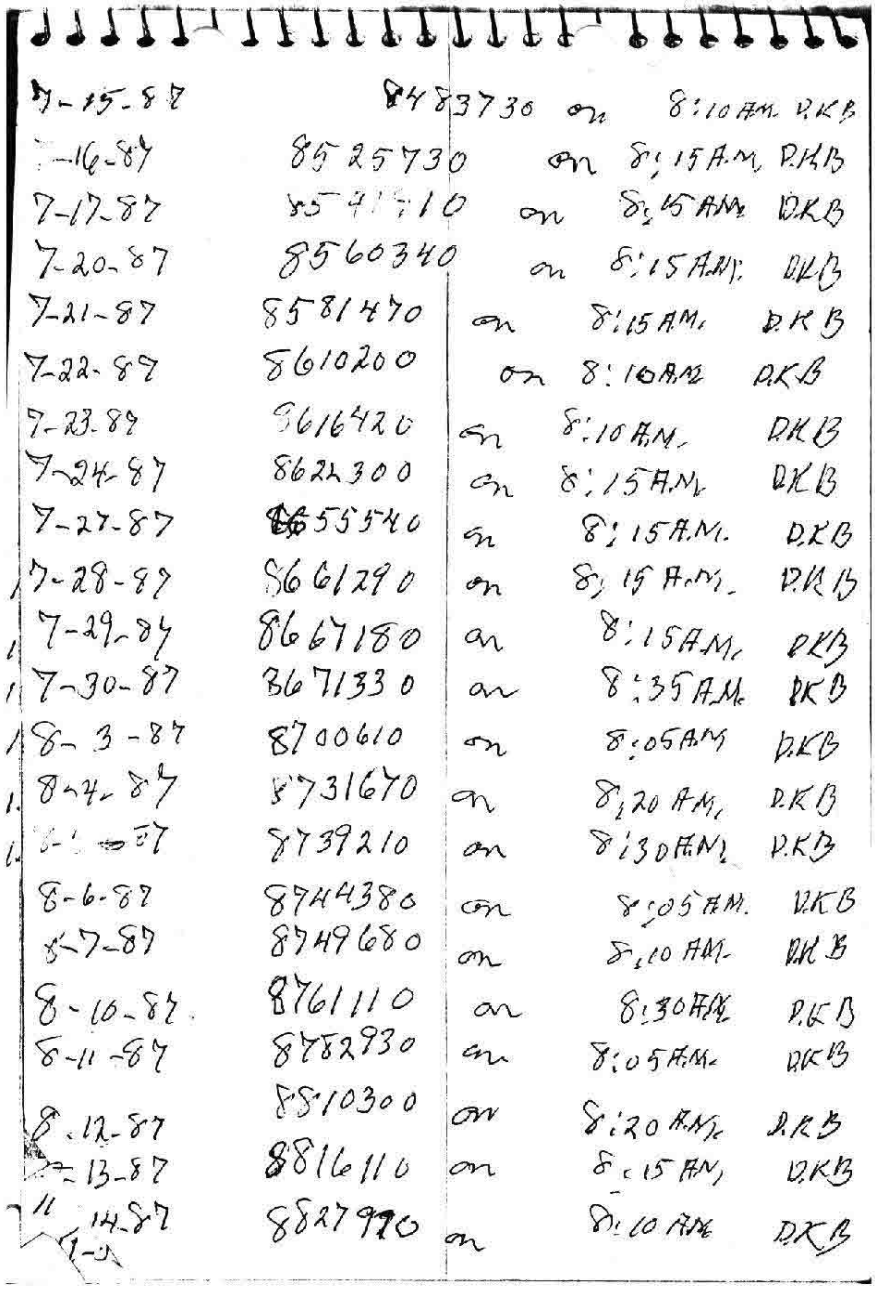
11-4-87	9509320	on	8:20 AM. DKB
11-5-87	9511220	on	10:25 AM DKB
11-6-87	9511220	on	8:25 AM DKB
11-9-87	9513880	on	8:15 AM. DKB
11-10-87	9518110	on	8:45 AM. DKB
11/12/87	9,520,120	ON	1:20 PM JWK
11/23/87	9,533,810	ON	1:00 PM JWK
11-30-87	9553870	on	8:20 AM DKB
12-1-87	9555330	on	8:20 AM. DKB
12-2-87	9567100	on	8:15 AM DKB
12-3-87	9567100	on	8:15 AM. DKB
12-4-87	9568520	on	8:20 AM. DKB
12-7-87	9569250	on	8:10 AM. DKB
12-8-87	9572310	on	8:15 AM. DKB
12-9-87	9573070	on	8:25 AM. DKB
12-10-87	9573920	on	8:20 AM. DKB
12-11-87	9574890	on	8:10 AM DKB
12-14-87	9575590	on	8:20 AM DKB
12-15-87	9578680	on	8:20 AM DKB
12-16-87	9578960	on	8:20 AM. DKB
12-17-87	9578960	on	8:20 AM. DKB
12-18-87	9578960	on	8:05 AM DKB



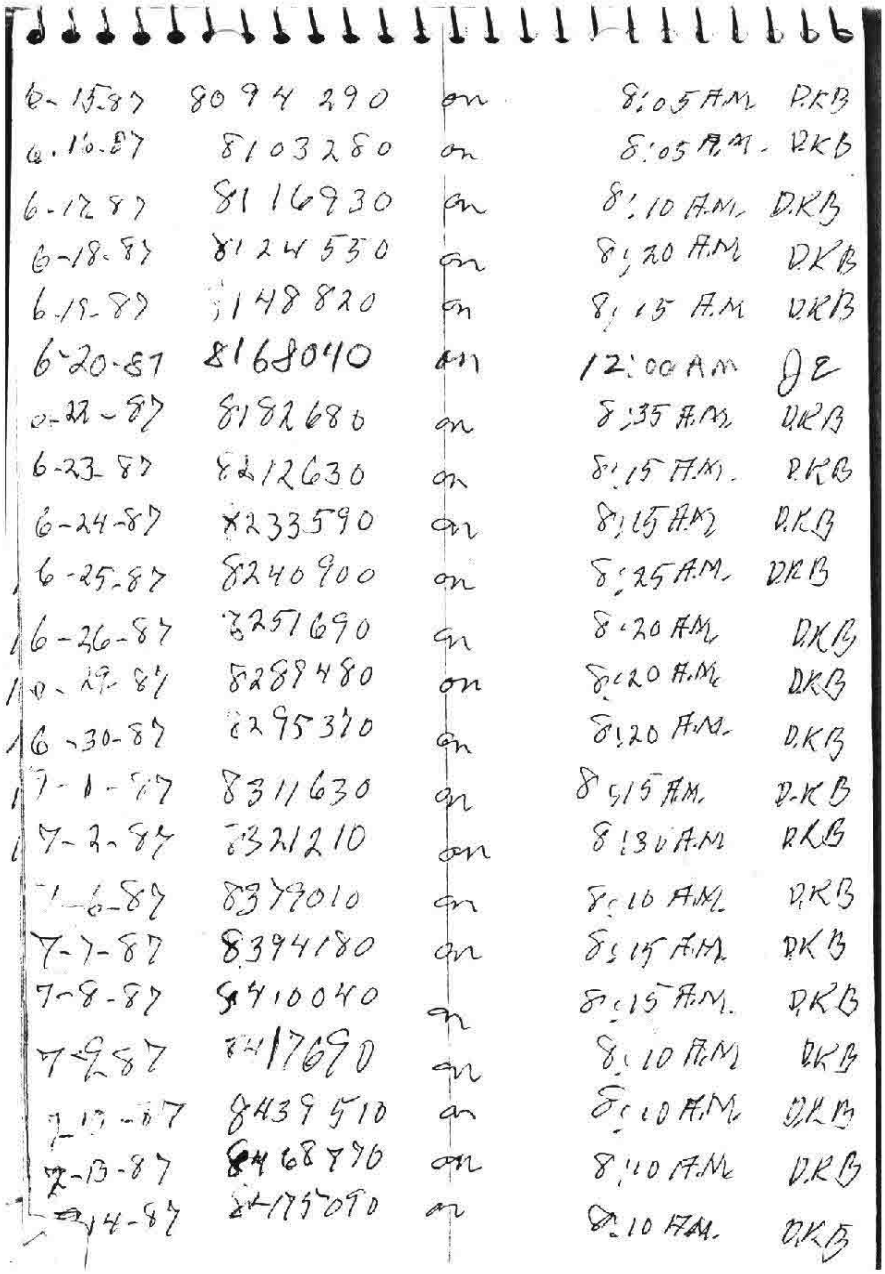
9-21-87	9231910	on	8:10 A.M.	D.K.B
9-22-87	9262100	on	8:15 A.M.	D.K.B
9-23-87	9262490	on	8:10 A.M.	D.K.B
9-24-87	9265570	on	8:05 A.M.	D.K.B.
9-25-87	9269120	on	7:50 A.M.	D.K.B
9-28-87	9298640	on	8:15 A.M.	D.K.B
9-29-87	9332410	on	8:05 A.M.	D.K.B
9-30-87	9332410	on	8:15 A.M.	D.K.B
10-1-87	9356200	on	8:15 A.M.	D.K.B
10-2-87	9362650	on	8:20 A.M.	D.K.B
10-19-87	9442520	on	8:35 A.M.	D.K.B
10-20-87	9452800	on	8:20 A.M.	D.K.B
10-21-87	9485450	on	8:20 A.M.	D.K.B
10-22-87	9485450	on	8:10 A.M.	D.K.B
10-23-87	9485450	on	8:35 A.M.	D.K.B
10-26-87	9490270	on	8:15 A.M.	D.K.B
10-27-87	9494780	on	8:10 A.M.	D.K.B
10-28-87	9494780	on	8:20 A.M.	D.K.B
10-29-87	9498110	on	8:15 A.M.	D.K.B
10-30-87	9498110	on	8:15 A.M.	D.K.B
11-2-87	9499950	on	8:15 A.M.	D.K.B
11-3-87	9509320	on	8:25 A.M.	D.K.B



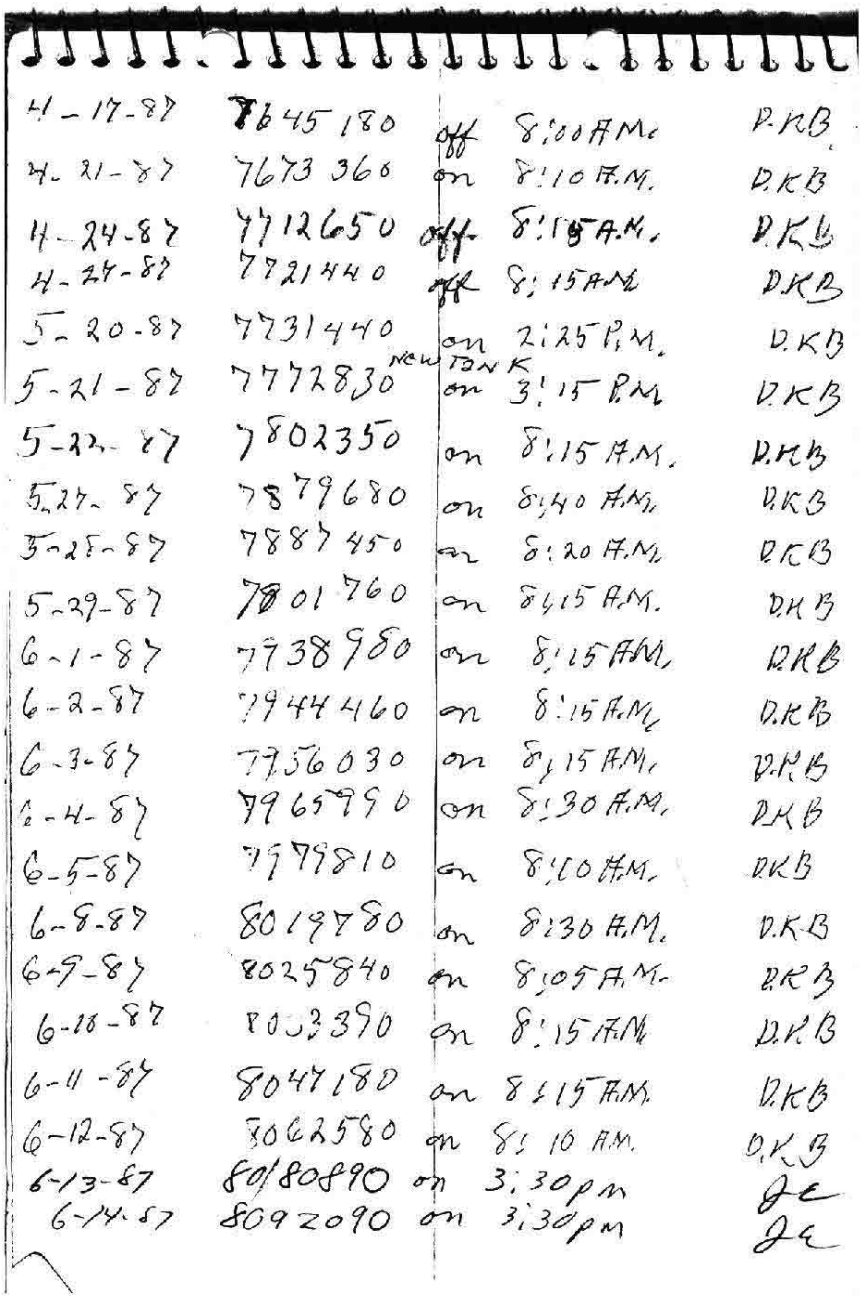
8-17-87	8866280	on	8:15 A.M.	D.K.B
8-18-87	8898370	on	8:15 A.M.	D.K.B
8-19-87	8905480	on	8:15 A.M.	D.K.B
8-20-87	8912600	on	8:20 A.M.	D.K.B
8-21-87	8918640	on	8:20 A.M.	D.K.B
8-25-87	8962330	on	8:25 A.M.	D.K.B
8-26-87	8962330	on	8:15 A.M.	D.K.B
8-27-87	8968090	on	8:20 A.M.	D.K.B
8-28-87	8976880	on	8:30 A.M.	D.K.B
8-31-87	9001030	on	8:10 A.M.	D.K.B
9-1-87	9007580	on	8:15 A.M.	D.K.B
9-2-87	9042420	on	8:20 A.M.	D.K.B
9-3-87	9047830	on	8:10 A.M.	D.K.B
9-4-87	9059870	on	8:10 A.M.	D.K.B
9-8-87	9079560	on	8:35 A.M.	D.K.B
9-9-87	9116320	on	8:15 A.M.	D.K.B
9-10-87	9128370	on	8:10 A.M.	D.K.B
9-11-87	9143600	on	8:05 A.M.	D.K.B
9-14-87	9165460	on	7:55 A.M.	D.K.B
9-15-87	9176580	on	8:20 A.M.	D.K.B
9-16-87	9179420	on	8:05 A.M.	D.K.B
9-17-87	9184880	on	7:00 A.M.	D.K.B
9-3-88				



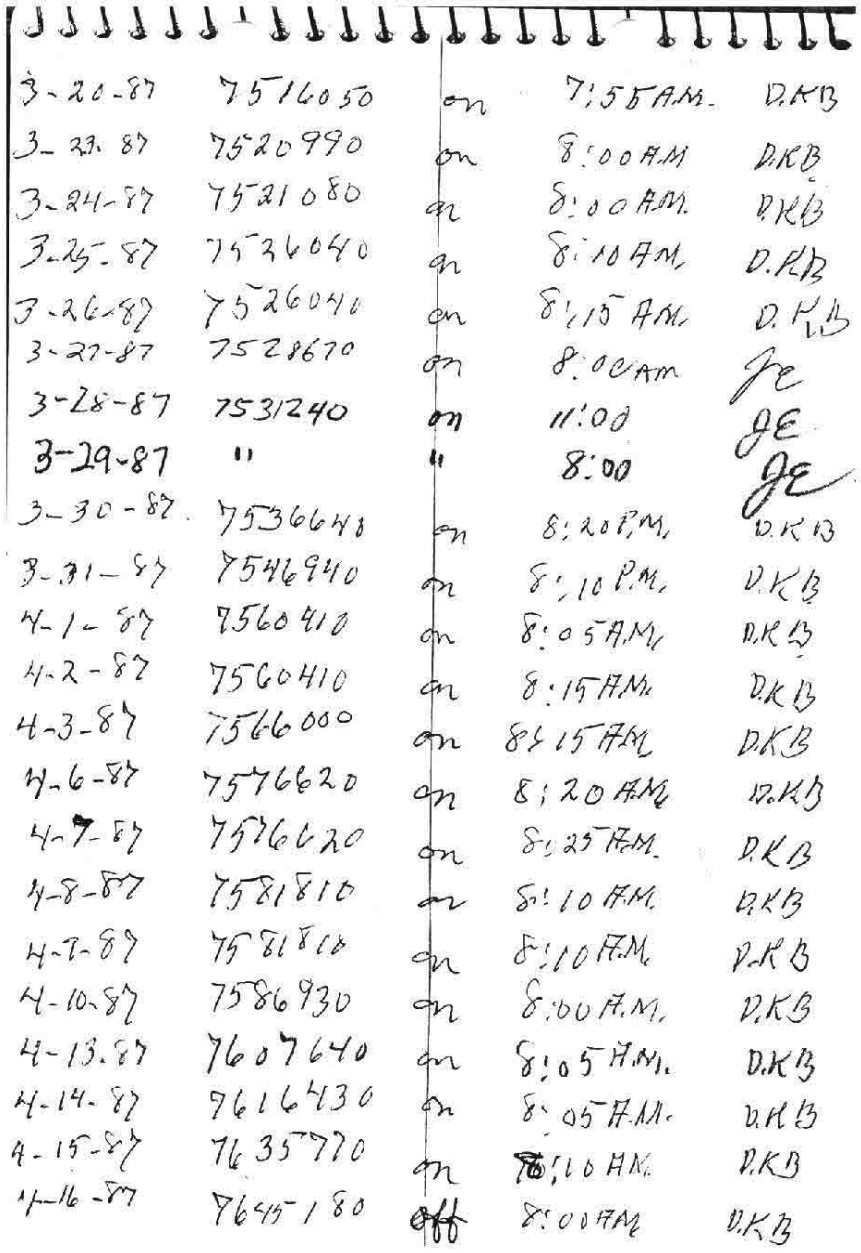
7-15-87	8483730	on	8:10 AM. D.K.B
7-16-87	8525730	on	8:15 A.M. D.K.B
7-17-87	8571710	on	8:15 AM D.K.B
7-20-87	8560340	on	8:15 A.M. D.K.B
7-21-87	8581470	on	8:15 AM. D.K.B
7-22-87	8610200	on	8:10 AM D.K.B
7-23-87	8616420	on	8:10 A.M. D.K.B
7-24-87	8622300	on	8:15 A.M. D.K.B
7-27-87	8655540	on	8:15 A.M. D.K.B
7-28-87	8661290	on	8:15 A.M. D.K.B
7-29-87	8667180	on	8:15 A.M. D.K.B
7-30-87	8671330	on	8:35 A.M. D.K.B
8-3-87	8700610	on	8:05 A.M. D.K.B
8-4-87	8731670	on	8:20 A.M. D.K.B
8-5-87	8739210	on	8:30 A.M. D.K.B
8-6-87	8744380	on	8:05 A.M. D.K.B
8-7-87	8749680	on	8:10 A.M. D.K.B
8-10-87	8761110	on	8:30 A.M. D.K.B
8-11-87	8782930	on	8:05 A.M. D.K.B
8-12-87	8810300	on	8:20 A.M. D.K.B
8-13-87	8816110	on	8:15 AM D.K.B
11 14-87	8827970	on	8:10 A.M. D.K.B



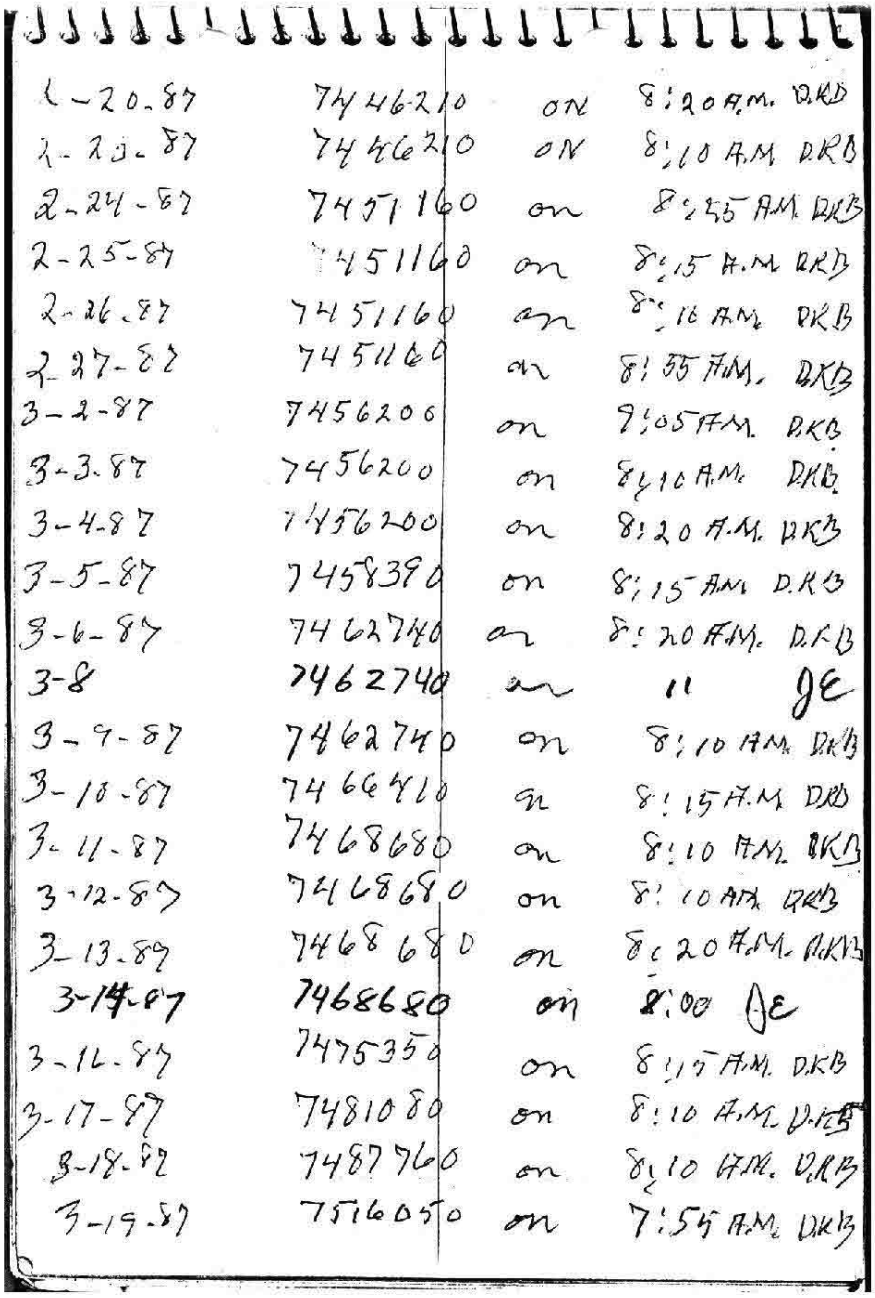
6-15-87	8094290	on	8:05 AM	DKB
6-16-87	8103280	on	8:05 AM	DKB
6-17-87	8116930	on	8:10 AM	DKB
6-18-87	8124530	on	8:20 AM	DKB
6-19-87	8148820	on	8:15 AM	DKB
6-20-87	8168040	on	12:00 AM	JE
6-22-87	8182680	on	8:35 AM	DKB
6-23-87	8212630	on	8:15 AM	DKB
6-24-87	8233590	on	8:15 AM	DKB
6-25-87	8240900	on	8:25 AM	DKB
6-26-87	8251690	on	8:20 AM	DKB
6-29-87	8288480	on	8:20 AM	DKB
6-30-87	8295310	on	8:20 AM	DKB
7-1-87	8311630	on	8:15 AM	DKB
7-2-87	8321210	on	8:30 AM	DKB
7-6-87	8379010	on	8:10 AM	DKB
7-7-87	8394180	on	8:15 AM	DKB
7-8-87	8410040	on	8:15 AM	DKB
7-9-87	8421690	on	8:10 AM	DKB
7-10-87	8439510	on	8:10 AM	DKB
7-13-87	8468790	on	8:10 AM	DKB
7-14-87	8475090	on	8:10 AM	DKB



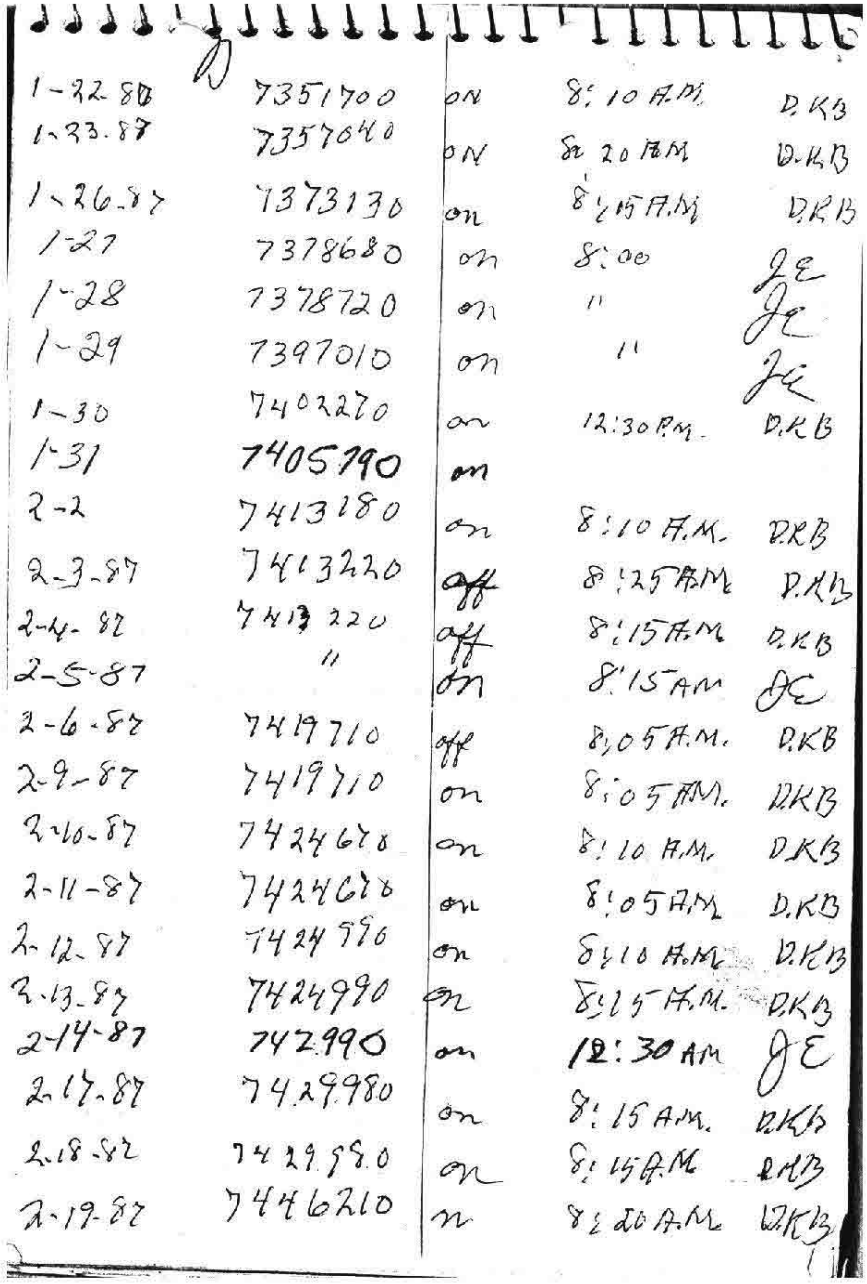
4-17-87	7645180	off	8:00 A.M.	D.K.B.
4-21-87	7673360	on	8:10 A.M.	D.K.B
4-24-87	7712650	off	8:15 A.M.	D.K.B
4-24-87	7721440	off	8:15 A.M.	D.K.B
5-20-87	7731440	on	2:25 P.M.	D.K.B
5-21-87	7772830	NEW TANK on	3:15 P.M.	D.K.B
5-22-87	7802350	on	8:15 A.M.	D.K.B
5-27-87	7879680	on	8:40 A.M.	D.K.B
5-28-87	7887450	on	8:20 A.M.	D.K.B
5-29-87	7901760	on	8:15 A.M.	D.K.B
6-1-87	7938980	on	8:15 A.M.	D.K.B
6-2-87	7944460	on	8:15 A.M.	D.K.B
6-3-87	7956030	on	8:15 A.M.	D.K.B
6-4-87	7965790	on	8:30 A.M.	D.K.B
6-5-87	7979810	on	8:10 A.M.	D.K.B
6-8-87	8019780	on	8:30 A.M.	D.K.B
6-9-87	8025840	on	8:05 A.M.	D.K.B
6-10-87	8033390	on	8:15 A.M.	D.K.B
6-11-87	8047180	on	8:15 A.M.	D.K.B
6-12-87	8062580	on	8:10 A.M.	D.K.B
6-13-87	8078090	on	3:30 pm	JC
6-14-87	8092090	on	3:30 pm	JC



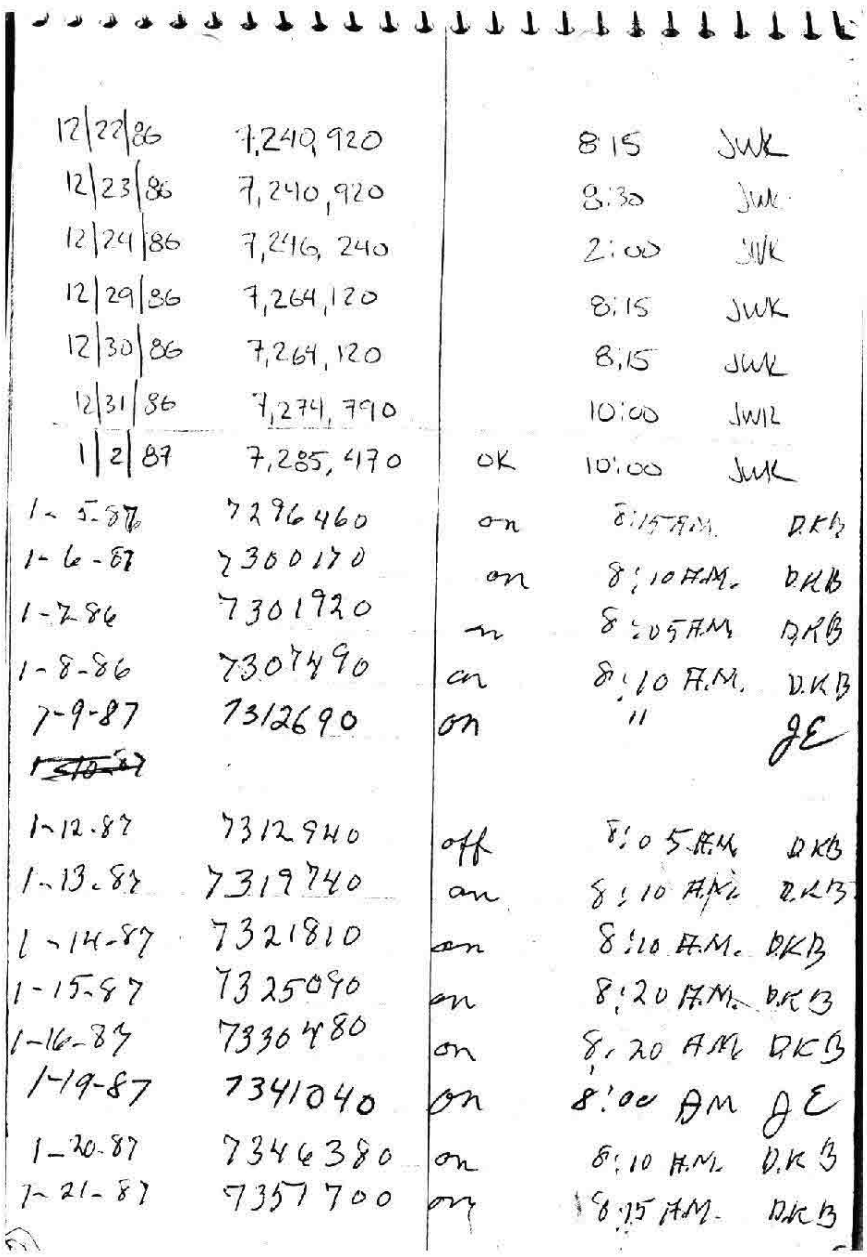
3-20-87	7516050	on	7:55 A.M.	D.K.B
3-23-87	7520990	on	8:00 A.M	D.K.B
3-24-87	7521080	on	8:00 A.M.	D.K.B
3-25-87	7526040	on	8:10 A.M.	D.K.B
3-26-87	7526040	on	8:15 A.M.	D.K.B
3-27-87	7528670	on	8:00 AM	JE
3-28-87	7531240	on	11:00	JE
3-29-87	"	"	8:00	JE
3-30-87	7536648	on	8:20 P.M.	D.K.B
3-31-87	7546940	on	8:10 P.M.	D.K.B
4-1-87	7560410	on	8:05 A.M.	D.K.B
4-2-87	7560410	on	8:15 A.M.	D.K.B
4-3-87	7566000	on	8:15 A.M.	D.K.B
4-6-87	7576620	on	8:20 A.M.	D.K.B
4-7-87	7576620	on	8:25 A.M.	D.K.B
4-8-87	7581810	on	8:10 A.M.	D.K.B
4-9-87	7581810	on	8:10 A.M.	D.K.B
4-10-87	7586930	on	8:00 A.M.	D.K.B
4-13-87	7607640	on	8:05 A.M.	D.K.B
4-14-87	7616430	on	8:05 A.M.	D.K.B
4-15-87	7635770	on	8:10 A.M.	D.K.B
4-16-87	7645180	off	8:00 AM	D.K.B



1-20-87	7446210	ON	8:20 A.M. DKB
2-23-87	7446210	ON	8:10 A.M. DKB
2-24-87	7451160	on	8:25 AM DKB
2-25-87	7451160	on	8:15 A.M. DKB
2-26-87	7451160	on	8:10 A.M. DKB
2-27-87	7451160	on	8:35 AM. DKB
3-2-87	7456200	on	9:05 AM. DKB
3-3-87	7456200	on	8:10 A.M. DKB
3-4-87	7456200	on	8:20 A.M. DKB
3-5-87	7458390	on	8:15 AM. DKB
3-6-87	7462740	on	8:20 AM. DKB
3-8	7462740	on	11 JE
3-9-87	7462740	on	8:10 AM. DKB
3-10-87	7466410	on	8:15 A.M. DKB
3-11-87	7468680	on	8:10 AM. DKB
3-12-87	7468680	on	8:10 AM. DKB
3-13-87	7468680	on	8:20 A.M. DKB
3-14-87	7468680	on	8:00 JE
3-16-87	7475350	on	8:15 A.M. DKB
3-17-87	7481080	on	8:10 A.M. DKB
3-18-87	7487760	on	8:10 AM. DKB
3-19-87	7516050	on	7:54 A.M. DKB



1-22-88	7351700	ON	8:10 A.M.	D.K.B
1-23-87	7357040	ON	8:20 A.M.	D.K.B
1-26-87	7373130	on	8:15 A.M.	D.K.B
1-27	7378680	on	8:00	J.E
1-28	7378720	on	"	J.E
1-29	7397010	on	"	J.E
1-30	7402270	on	12:30 P.M.	D.K.B
1-31	7405790	on		
2-2	7413180	on	8:10 A.M.	D.K.B
2-3-87	7413220	off	8:25 A.M.	D.K.B
2-4-87	7413220	off	8:15 A.M.	D.K.B
2-5-87	"	on	8:15 AM	J.E
2-6-87	7419710	off	8:05 A.M.	D.K.B
2-9-87	7419710	on	8:05 AM.	D.K.B
2-10-87	7424670	on	8:10 A.M.	D.K.B
2-11-87	7424670	on	8:05 A.M.	D.K.B
2-12-87	7424590	on	8:10 A.M.	D.K.B
2-13-87	7424990	on	8:15 A.M.	D.K.B
2-14-87	742990	on	12:30 AM	J.E
2-17-87	7429980	on	8:15 A.M.	D.K.B
2-18-87	7429980	on	8:15 A.M.	D.K.B
2-19-87	7446210	on	8:20 A.M.	D.K.B



12/22/86	7,240,920		8:15	JWK
12/23/86	7,240,920		8:30	JWK
12/24/86	7,246,240		2:00	JWK
12/29/86	7,264,120		8:15	JWK
12/30/86	7,264,120		8:15	JWK
12/31/86	7,274,790		10:00	JWK
1/2/87	7,285,470	OK	10:00	JWK
1-5-87	7296460	on	8:15 A.M.	DKB
1-6-87	7300170	on	8:10 A.M.	DKB
1-7-86	7301920	on	8:05 A.M.	DKB
1-8-86	7307490	on	8:10 A.M.	DKB
1-9-87	7312690	on	11	JE
~~1-10-87~~				
1-12-87	7312940	off	8:05 A.M.	DKB
1-13-87	7319740	on	8:10 A.M.	DKB
1-14-87	7321810	on	8:10 A.M.	DKB
1-15-87	7325090	on	8:20 A.M.	DKB
1-16-87	7330480	on	8:20 AM	DKB
1-19-87	7341040	on	8:00 AM	JE
1-20-87	7346380	on	8:10 A.M.	DKB
1-21-87	7357700	on	8:15 AM.	DKB

ROUTING AND TRANSMITTAL SLIP Date 1-21-86

TO: (Name, office symbol, room number, building, Agency/Post)	Initials	Date
1. Richard Ketchum		
2.		
3.		
4.		
5.		

	Action		File		Note and Return
	Approval		For Clearance		Per Conversation
XX	As Requested		For Correction		Prepare Reply
	Circulate		For Your Information		See Me
	Comment		Investigate		Signature
	Coordination		Justify		

REMARKS

As requested, attached are the Arches water meter readings for the past three years.

Note: Water has been hauled from Headquarters Well #1 system to other areas of the park. A water leak was also detected last month and since then the leak location was found and is currently being repaired.

DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)	Room No.—Bldg.
Bob Quesenberry, Facility Manager Canyonlands National Park	Phone No. (801) 259-7164

5041-102

☆ GPO : 1985 O - 461-274 (435)

OPTIONAL FORM 41 (Rev. 7-76)
Prescribed by GSA
FPMR (41 CFR) 101-11.206

WATER METER READINGS

Month January 1985 District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total
#1 Well	Res. Hqrs.	642,900	985400	342,500
#2 Well	Devils Garden	No Meter	— — —	— — —
31282425	Res. 3 Swanson-Young	89810	89810	— — —
31894042	Res. 5 Murphy	150680	157610	6,930
31282427	Res. 6 Blerhaus	178720	178750	30
7608124	CNHA/Library	1246300	1246600	300
31282422	Res. 10 Fender	139870	142880	3010
31894049	Res. 11	250310	250330	20
	Apartments	1006030	1017730	11,700
31860971	Shop	269520	274180	4,660
31860956	#1 V.C. Tree	141090	141090	— — —
31860974	#2 V.C. Tree	63910	63910	— — —
31894041	#3 V.C. Tree	62510	62510	— — —
26064220	Visitor Center	1697100	1701900	4,800

Pumped 342,500 gals — 310,850 — Total Water used 31,650 gals
Water used −31,650 gals — −20,000 gal — 31,650 gals
→ 310,850 — 290,850 → Loss
less Hawkes Water to Maze & Isky approx. 20,000

WATER METER READINGS

Month February 1985 District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total
#1 Well	Res. Hqrs.	985400	1255600	270,200
#2 Well	Devils Garden	No Meter	No Meter	— — —
31282425	Res. 3 Swanson-Young	89810	89810	9
31894042	Res. 5 Murphy	157610	160760	3,150
31282427	Res. 6 Blerhaus	178750	179120	370
7608124	CNHA/Library	1246600	1246980	380
31282422	Res. 10 Fender	142880	144930	2,050
31894049	Res. 11	250530	250640	110
	Apartments	1017730	1024160	6,430
31860971	Shop	274180	276570	2,390
31860956	#1 V.C. Tree	141090	141090	00
31860974	#2 V.C. Tree	63910	63910	00
31894041	#3 V.C. Tree	62500	62500	00
26064220	Visitor Center	1701900	1706900	5000

WATER METER READINGS

Month March 1985 District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs.	1255600	1487200	231,600	162.12
New Meter #2 Well	Devils Garden New Meter	0000	31400	31400	21.98
31282425	Res. 3 Swanson-Young	89810	89810	NOO] NEW METER	
31894042	Res. 5 Murphy	160760	163810	3,050	2.14
31282427	Res. 6 Blerhaus	179120	182330	3,210	1.55
7608124	CNHA/Library	1246980	1247440	460	.32
31282422	Res. 10 Fender	144930	151370	6440	4.51
31894049	Res. 11	250640	251830	1,190	.83
	Apartments	1024160	1031680	7520	5.26
31860971	Shop	276570	280480	3910	2.74
31860956	#1 V.C. Tree	141090	141090	00	—
31860974	#2 V.C. Tree	63910	63910	00	—
31894041	#3 V.C. Tree	62500	62500	00	—
26064220	Visitor Center	1706900	1729700	22800	15.96
New Meter 60167906		0000	62850	62850	44.00

WATER METER READINGS

Month April

District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs. 62850	~~1468700~~	450090	387240 ✓	271.07
#2 Well	Devils Garden	31400 ✓	139960	108560 ✓	75.99
31282425	Res. 3 Swanson-Young	~~29~~ 0	5570	5570	3.90
31894042	Res. 5 ~~Murphy~~ Fender	163810 ✓	170420	6610 ✓	4.63
31282427	Res. 6 Blerhaus	181330 ✓	194840	13510 ✓	8.76
7608124	CNHA/Library	1247440 ✓	1254150	6710 ✓	4.70
31282422	Res. 10 Fender	151370 ✓	157970	6600 ✓	4.62
31894049	Res. 11	251830 ✓	259490	7660 ✓	5.36
	Apartments	1031680 ✓	1041470	9790 ✓	6.85
31860971	Shop	280480 ✓	287860	7380 ✓	5.17
31860956	#1 V.C. Tree	141090 ✓	141590	500 ✓	
31860974	#2 V.C. Tree	63910 ✓	68090	4180 ✓	
31894041	#3 V.C. Tree	62500 ✓	63510	1010 ✓	
26064220	Visitor Center	1729700 ✓	1770400	40700 ✓	28.49
		~~1729700~~			

WATER METER READINGS

Month May '85

District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs.	450090 ✓	917050	466960 ✓	326.87
#2 Well	Devils Garden	1399600 ✓	3229 30	182970 ✓	128.08
31282425	Res. 3 Swanson-Young	5570 ✓	30150	~~24580~~ 24580	17.21
31894042	Res. 5 ~~Murphy~~ Fender	170420 ✓	188370	17950 ✓	12.57
31282427	Res. 6 Blerhaus	198840 ✓	220320	26480 ✓	18.54
7608124	CNHA/Library	1254150 ✓	1279200	25050 ✓	17.54
31282422	Res. 10 ~~Fender~~	157970 ✓	167760	11790 ✓	8.25
31894049	Res. 11	259490 ✓	274300	14810 ✓	10.37
	Apartments	1041470 ✓	1057360	15890 ✓	11.12
31860971	Shop	287860 ✓	298900	11040 ✓	7.73
31860956	#1 V.C. Tree	141590 ✓	157170	15580 ✓	10.91
31860974	#2 V.C. Tree	68090 ✓	82030	13940 ✓	9.76
31894041	#3 V.C. Tree	63510 ✓	77230	13720 ✓	9.60
26064220	Visitor Center	1770400 ✓	1838100	67700 ✓	47.39

WATER METER READINGS

Month June

District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs.	917050 ✓	1429030	511980 ✓	
#2 Well	Devils Garden	3229 30 ✓	469520	146590 ✓	
31282425	Res. 3 Swanson-Young	30150 ✓	60330	30180 ✓	21.13
31894042	Res. 5 ~~Murphy~~ Fender	188370 ✓	208370	20000 ✓	14.00
31282427	Res. 6 Blerhaus	220320 ✓	251160	30840 ✓	21.59
7608124	CNHA/Library	1279200 ✓	1307950	28750 ✓	20.13
31282422	Res. 10 Fender	167760 ✓	181620	13860 ✓	9.70
31894049	Res. 11	274300 ✓	293140	18840 ✓	13.19
	Apartments	1057360 ✓	1068580	11220 ✓	7.85
31860971	Shop	298900 ✓	304020	5120 ✓	3.58
31860956	#1 V.C. Tree	157170 ✓	169690	12520 ✓	
31860974	#2 V.C. Tree	82030 ✓	93410	11380 ✓	
31894041	#3 V.C. Tree	77230 ✓	89020	11790 ✓	
26064220	Visitor Center	1838100 ✓	1907300	69200 ✓	✓

WATER METER READINGS

Month July — District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs.	1429030	1576430	547,400	383.1
#2 Well	Devils Garden	4668440	4843050	174,610	173,530
31282425	Res. 3 Swanson ~~Young~~	60330	91870	31540	22.08
31894042	Res. 5 ~~Murphy Kaul~~	208370	228140	19,770	13.84
31282427	Res. 6 Bierhaus	251160	281730	30,570	21.40
7608124	CNHA/Library	1307950	1341540	33,590	23.51
31282422	Res. 10 ~~Fender~~	1836200	1965700	13,500	9.07
31894049	Res. 11	293140	314970	21,830	15.2
	Apartments	1068580	1082840	14,260	9.9
31860971	Shop	304020	309890	5,870	4.
31860956	#1 V.C. Tree	169690	181010	11,320	
31860974	#2 V.C. Tree	93410	103950	10,540	
31894041	#3 V.C. Tree	89020	99030	10,010	
26064220	Visitor Center	1907300	1978500	71,200	

WATER METER READINGS

Month August — District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs.	1976430	2705680	729,250	510.48
#2 Well	Devils Garden	6443050	~~7390250~~ 7550860	107,800	75.46
31282425	Res. 3 Swanson	91870	129810	36,940	25.86
31894042	Res. 5 Fender	228140	~~247830~~ 247830	19,690	13.78
31282427	Res. 6 Bierhaus	281730	317400	35,670	24.97
7608124	CNHA/Library	1341540	1384760	43,220	30.25
31282422	Res. 10	1965700	~~2130050~~ 2130050	16,530	11.57
31894049	Res. 11	314970	340760	25,790	18.05
	Apartments	1082840	1102990	20,150	14.11
31860971	Shop	309890	316560	6,670	4.67
31860956	#1 V.C. Tree	181010	199530	18,520	12.96
31860974	#2 V.C. Tree	103950	121310	17,360	12.15
31894041	#3 V.C. Tree	99030	117010	17,980	12.59
26064220	Visitor Center	1978500	2084300	105800	74.06

WATER METER READINGS

Month _____ — District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs.	2705680	3193270	487590	341.31
#2 Well	Devils Garden	7550860	7652840	101990	71.39
31282425	Res. 3 Swanson	129810	151170	21,360	14.95
31894042	Res. 5 Fender	247830	258260	10,430	7.30
31282427	Res. 6 Bierhaus	317400	340820	23,420	16.39
7608124	CNHA/Library	1384760	1408420	23,660	16.56
31282422	Res. 10	2130050	2139260	9,210	6.45
31894049	Res. 11	340760	350070	19,310	13.52
	Apartments	1102990	1119350	~~16,360~~ 16,360	11.45
31860971	Shop	316560	319540	2,980	2.09
31860956	#1 V.C. Tree	199530	214090	14,560	10.19
31860974	#2 V.C. Tree	121310	135150	13,840	9.69
31894041	#3 V.C. Tree	117010	131310	14,300	10.01
26064220	Visitor Center	2084300	2152800	68,500	47.95

WATER METER READINGS

Month October — District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total
#1 Well	Res. Hqrs.	3193220	3616490	423,170
#2 Well	Devils Garden	8528440	9088820	55,980
31282425	Res. 3 ~~Swanson~~	154470	160660	9490
31894042	Res. 5 Fender	258360	264670	6,410
31282427	Res. 6 Bierhaus	340820	350080	9260
7608124	CNHA/Library	1408420	1418120	9700
31282422	Res. 10 EVANOFF	222260	236360	14,100
31894049	Res. 11	357070	362970	5900
	Apartments	1119350	1129390	10,040
31860971	Shop	319540	320990	1450
31860956	#1 V.C. Tree	214690	221400	7310
31860974	#2 V.C. Tree	135150	142190	7040
31894041	#3 V.C. Tree	131310	138560	7250
26064220	Visitor Center	2152800	2211600	58,800

WATER METER READINGS

Month Nov. — District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total
#1 Well	Res. Hqrs.	3616440	3951710	335270
#2 Well	Devils Garden	9088820	9088820	00
31282425	Res. 3 Swanson	160660	163410	2,750
31894042	Res. 5 Fender	264670	267590	2,920
31282427	Res. 6 Bierhaus	350080	351270	1,190
7608124	CNHA/Library	1418120	1418550	430
31282422	Res. 10	236360	245250	8,890
31894049	Res. 11	362970	362990	20
	Apartments	1129390	1141220	11,830
31860971	Shop	320990	322440	1,450
31860956	#1 V.C. Tree	221400	221400	00
31860974	#2 V.C. Tree	142190	142190	00
31894041	#3 V.C. Tree	138560	138560	00
26064220	Visitor Center	2211600	2247400	35,80

WATER METER READINGS

Month Dec. — District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total
#1 Well	Res. Hqrs.	3951710	4207060	255350
#2 Well	Devils Garden	9088820	- - - -	- - - -
31282425	Res. 3 Swanson	163410	165050	1640
31894042	Res. 5 Fender	267590	270210	2620
31282427	Res. 6 Bierhaus	351270	352940	1670
7608124	CNHA/Library	1418550	1418970	420
31282422	Res. 10	245250	249080	3830
31894049	Res. 11	362990	363010	20
	Apartments	1141220	1143950	2730
31860971	Shop	322440	323430	990
31860956	#1 V.C. Tree	221400	221400	- - - -
31860974	#2 V.C. Tree	142190	142190	- - - -
31894041	#3 V.C. Tree	138560	138560	- - - -
26064220	Visitor Center	2247400	2251500	4100

Jim Evanoff

Month January 84 District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs.	19668200 ✓	19821800	153,600	✓
#2 Well	Devils Garden	25900000 ✓	25900000	—	
31282425	Res. 3 Swanson-Young	730 ✓	1550	820	.59
31894042	Res. 5 Murphy	51360 ✓	55110	3,750	2.63
31282427	Res. 6 Bierhaus	14520 ✓	16300	1,780	1.25
7608124	CNHA/Library	1078980 ✓	1079180	200	.14
31282422	Res. 10 Fender	10190 ✓	12,400	2,210	1.55
31894049	Res. 11 Clark	39,000 ✓	39,730	10,730	7.51
	Apartments	877670 ✓	885490	7820	5.47
31860971	Shop	1430000 ✓	1471140	4,140	2.90
31860956	#1 V.C. Tree	72390 ✓	72,390	—	
31860974	#2 V.C. Tree	200 ✓	200	—	
31894041	#3 V.C. Tree	30 ✓	30	—	
26064220	Visitor Center	1217000 ✓	1220900	3,900	

WATER METER READINGS

Month February District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs.	19821800 ✓	19920200	98,400	
#2 Well	Devils Garden	25,90000 ✓	—	—	
31282425	Res. 3 Swanson-Young	1550 ✓	2190	640	.45 ✓
31894042	Res. 5 Murphy	55110 ✓	58760	3,650	2.56
31282427	Res. 6 Bierhaus	16300 ✓	18290	1990	1.39 ✓
7608124	CNHA/Library	1079180 ✓	1079530	350	.25 ✓
31282422	Res. 10 Fender	12400 ✓	16530	4130	2.89 ✓
31894049	Res. 11 Clark	39730 ✓	49180	9450	6.62
	Apartments	885490 ✓	891900	6410	4.49
31860971	Shop	1471140 ✓	1486900	1550	1.09
31860956	#1 V.C. Tree	72390 ✓	72390	—	
31860974	#2 V.C. Tree	200 ✓	200	—	
31894041	#3 V.C. Tree	30 ✓	30	—	
26064220	Visitor Center	1220900 ✓	1227400	6,500	4.55

WATER METER READINGS

Month March District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs.	19920200 ✓	20081900	161,700 ✓	113.
#2 Well	Devils Garden	25900000 ✓	26222700	32,700 ✓	22.
31282425	Res. 3 Swanson-Young	2190 ✓	4240	2,050 ✓	1.
31894042	Res. 5 Murphy	58760 ✓	62390	3,630 ✓	2.
31282427	Res. 6 Bierhaus	18290 ✓	21760	3,470 ✓	2.
7608124	CNHA/Library	1079530 ✓	21760 1081690	2,160 ✓	1.
31282422	Res. 10 Fender	16530 ✓	26840	10,310 ✓	7.
31894049	Res. 11 Clark	49180 ✓	58590	9,410 ✓	6.
	Apartments	891900 ✓	901360	9,460 ✓	6.
31860971	Shop	1486900 ✓	1542100	15520 ✓	3.
31860956	#1 V.C. Tree	72390 ✓	72390	00 ✓	
31860974	#2 V.C. Tree	200 ✓	200	00 ✓	
31894041	#3 V.C. Tree	30 ✓	30	00 ✓	
26064220	Visitor Center	1227400 ✓	1251100	23,700 ✓	16.

WATER METER READINGS

Month April — District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs.	2007900 ✓	2029300	209400 ✓	
#2 Well	Devils Garden	2622200 ✓	2707700	85500 ✓	
31282425	Res. 3 Swanson-Young	4240 ✓	10520	6280 ✓	7.40
31894042	Res. 5 Murphy	62350 ✓	69490	7090 ✓	4.96
31282427	Res. 6 Bierhaus	21760 ✓	31430	9670 ✓	6.77
7608124	CNHA/Library	1081690 ✓	1092280	10590 ✓	7.41
31282422	Res. 10 Fender	26840 ✓	37150	10310 ✓	7.22
31894049	Res. 11 Clark	58590 ✓	71560	12970 ✓	9.08
	Apartments	901360 ✓	909260	7900 ✓	5.53
31860971	Shop	154210 ✓	161700	7490 ✓	5.24
31860956	#1 V.C. Tree	72390 ✓	72390	0	0
31860974	#2 V.C. Tree	200 ✓	200	0	0
31894041	#3 V.C. Tree	30 ✓	30	0	0
26064220	Visitor Center	1254100 ✓	1289400	35800 ✓	

WATER METER READINGS

Month May — District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs.	2028230	2065350	371600 ✓	260.1
#2 Well	Devils Garden	2708200	2814500	106300 ✓	74.4
31282425	Res. 3 Swanson-Young	10520	25200	14680 ✓	10.28
31894042	Res. 5 Murphy	69480	85800	16320 ✓	11.42
31282427	Res. 6 Bierhaus	31430	50760	19330 ✓	13.53
7608124	CNHA/Library	1092280	1119830	27550 ✓	19.29
31282422	Res. 10 Fender	37150	53090	15940 ✓	11.16
31894049	Res. 11 Clark	71560	95270	23810	16.67
	Apartments	909260	919750	10490 ✓	7.34
31860971	Shop	161700	172870	11170 ✓	7.82
31860956	#1 V.C. Tree	72390	86780	14390 ✓	9.93
31860974	#2 V.C. Tree	200	15000	14800 ✓	10.36
31894041	#3 V.C. Tree	30	11730	11700 ✓	8.19
26064220	Visitor Center	1289400	1358600	71700 ✓	50.19

WATER METER READINGS

Month June — District ARC...S NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs.	2065390 ✓	2103690	399300	279.5
#2 Well	Devils Garden	2814500 ✓	2949800	135300	94.7
31282425	Res. 3 Swanson-Young	25200 ✓	38700	13500	9.45
31894042	Res. 5 Murphy	85800 ✓	106830	21030	14.72
31282427	Res. 6 Bierhaus	58560 ✓	88250	29690	20.78
7608124	CNHA/Library	1119830 ✓	1144350	24520	17.16
31282422	Res. 10 Fender	53090 ✓	73370	20280	14.20
31894049	Res. 11 Clark	95370 ✓	120510	25140	1.50
	Apartments	919750 ✓	936630	16880	11.82
31860971	Shop	172870 ✓	189910	17040	11.91
31860956	#1 V.C. Tree	86580 ✓	97340	10760	7.53
31860974	#2 V.C. Tree	15000 ✓	24310	9310	6.52
31894041	#3 V.C. Tree	11730 ✓	20980	9250	6.48
26064220	Visitor Center	1358600 ✓	1444200	85600	59.92

WATER METER READINGS

Month July — District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs.	21053200	21464400	411200	287.84
#2 Well	Devils Garden	[illegible]	30552300	10[illegible]500	91.35
31282425	Res. 3 Swanson-Young	58700	54530	3830	11.08
31894042	Res. 5 Murphy	106830	119820	12,990	9.09
31282427	Res. 6 Bierhaus	88250	114680	26,430	18.50
7608124	CNHA/Library	1144350	1178330	33870	23.71
31282422	Res. 10 Fender	73370	92920	19560	13.69
31894049	Res. 11 Clark	120510	149590	29,080	20.36
	Apartments	938650	953410	15,780	11.05
31860971	Shop	1899100	2084000	18490	12.94
31860956	#1 V.C. Tree	97340	110460	13120	9.18
31860974	#2 V.C. Tree	24310	35210	10900	7.63
31894041	#3 V.C. Tree	20980	32460	11480	8.04
26064220	Visitor Center	1444200	1519100	74900	52.43

WATER METER READINGS

Month August — District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs.	21464400	22038100	573700	401.59
#2 Well	Devils Garden	30552300	31[illegible]100	54800	39.16
31282425	Res. 3 Swanson-Young	54530	70770	16,240	11.37
31894042	Res. 5 Murphy	119820	133270	13,450	9.42
31282427	Res. 6 Bierhaus	114680	143900	29,220	20.45
7608124	CNHA/Library	1178220	1213620	35,400	24.78
31282422	Res. 10 Fender	92930	106110	13,180	12.03
31894049	Res. 11 Clark	149590	176850	27,260	19.08
	Apartments	953410	972557	20,147	14.10
31860971	Shop	2084000	2307390	22,390	15.67
31860956	#1 V.C. Tree	110460	128810	18,350	12.85
31860974	#2 V.C. Tree	35210	53570	18,360	12.85
31894041	#3 V.C. Tree	32460	51200	18,740	13.12
26064220	Visitor Center	1519100	1604800	85,700	59.99

WATER METER READINGS

Month Sept. — District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs.	22038100	22547400	509500	391.6
#2 Well	Devils Garden	31091000	NO METER		
31282425	Res. 3 Swanson-Young	70770	86180	15410	10.79
31894042	Res. 5 Murphy	133270	142000	8730	6.11
31282427	Res. 6 Bierhaus	143900	168350	24450	17.12
7608124	CNHA/Library	1213620	1237470	23850	16.70
31282422	Res. 10 Fender	110410	125100	14690	10.49
31894049	Res. 11 ~~Clark~~ Visitor	176850	246050	69200	48.46
	Apartments	972557	984480	11923	8.35
31860971	Shop	2307390	2461660	154270	11.11
31860956	#1 V.C. Tree	128810	139700	10890	7.62
31860974	#2 V.C. Tree	53570	62870	9300	6.51
31894041	#3 V.C. Tree	51200	61410	10210	7.15
26064220	Visitor Center	1604800	1661000	56200	39.34

W ~ r GAS METER READINGS

Res./Trailer No.	Beginning	Ending	Used - 380,000	Cost
#1 Well P.C.	22597600 ✓	22977600	380,000	266.00
#2 Well	No Meter	No Meter		
Res #3 Swanson	86150 ✓	88230	2050 ✓	1.44
Res #5 Murphy	142000 ✓	144880	2,880 ✓	2.02
Res #6 Bierhaus	168350 ✓	171040	3690 ✓	2.58
Res #8 Library	1237420 ✓	1242750	5280 ✓	3.70
Res #10 Fender	125100 ✓	132380	7,280 ✓	5.10
Res #11 Clark	246050 ✓	248220	2,170 ✓	1.52
Apartments	984480 ✓	992410	7,930 ✓	5.55
Shop	246660 ✓	257960	11,300 ✓	7.91

--Continued--

WATER METER READINGS

Month Oct District Arches

Meter Serial No.	Location	Beginning	Total	Total
#1 V.C. Trees	139700 ✓	141090	1,390 ✓	.97
#2 V.C. Trees	62870 ✓	63910	1,040 ✓	.73
#3 V.C. Trees	61410 ✓	62510	1,100 ✓	.77
Visitor Center	1661000 ✓	1681400	20,400 ✓	14.28

WATER METER READINGS

Month NOV. 1984 District ARC ; NATIONAL PARK New Meter

Meter Serial No.	Location	Beginning	Ending ✓	Total
#1 Well	Res. Hqrs.	22597600 ✓	23090 0	323,900
#2 Well	Devils Garden	No Meter		
31282425	Res. 3 Swanson-Young	88230 ✓	89670	1440 ✓ 1.01
31894042	Res. 5 Murphy	144880 ✓	148740	3860 ✓ 2.70
31282427	Res. 6 Bierhaus	171040 ✓	175070	6,030 ✓ 4.22
7608124	CNHA/Library	1242750 ✓	1246000	3,250 ✓ 2.28
31282422	Res. 10 Fender	132380 ✓	136770	4,390 ✓ 3.07
31894049	Res. 11	248220 ✓	250250	2,030 ✓ 1.42
	Apartments	992410 ✓	998420	6,010 ✓ 4.21
31860971	Shop	257960 ✓	264370	6,410 ✓ 4.49
31860956	#1 V.C. Tree	141090 ✓	141090	—
31860974	#2 V.C. Tree	63910 ✓	63910	—
31894041	#3 V.C. Tree	62570 ✓	62510	—
26064220	Visitor Center	1681400 ✓	1691600	10,200 ✓ 7.14

WATER METER READINGS

Month Dec. 84 District ARCHES NATIONAL PARK 84

Meter Serial No.	Location	Beginning	Ending	Total
#1 Well	Res. Hqrs.	23090 ✓	642960	273,000.
#2 Well	Devils Garden	No Meter		
31282425	Res. 3 Swanson-Young	89670 ✓	89811	140 ✓
31894042	Res. 5 Murphy	148740 ✓	150680	1,940 ✓
31282427	Res. 6 Bierhaus	175070 ✓	178730	6501 ✓
7608124	CNHA/Library	1246000 ✓	1246300	300 ✓
31282422	Res. 10 Fender	136770 ✓	139870	3,100 ✓
31894049	Res. 11	250250 ✓	250310	60.
	Apartments	998420 ✓	1006030	7,610 ✓
31860971	Shop	264370 ✓	269520	5,150 ✓
31860956	#1 V.C. Tree	141090 ✓	141090	—
31860974	#2 V.C. Tree	63910 ✓	63910	—
31894041	#3 V.C. Tree	62570 ✓	62510	—
26064220	Visitor Center	1691600 ✓	1697100	5,500

24,450

WATER METER READINGS

Month January 83 District Arches National Park

Meter Serial No.	Location	Beginning	Ending	Total	
904748	Res. #6	1395190 ✓	1397430	2,240 ✓	1.57
904751	Res. #10	988960 ✓	988780	720 ✓	.50
904750	Res. #5	1557880 ✓	1561370	6,490 ✓	4.54
904752	Res. #3	1568620 ✓	1570390	1,770 ✓	1.24 ✓
	Apartments	727670 ✓	736460	8,790 ✓	6.15
7608128	Res. #11	1128560 ✓	1133190	4,630 ✓	3.24
7608124	Res. #8	874770 ✓	875150	380 ✓	.27
#1 Well	Res. Hdqrs.	162996000	164564500	154,900 ✓	108.43
#2 Well	Devils Garden	1883100 ✓	1883100	0 0	

WATER METER READINGS

Month February District Arches National Park

Meter Serial No.	Location	Beginning	Ending	Total	
904748	Res. #6	1397430 ✓	1399060	~~2,730~~	1.14
904751	Res. #10	988780 ✓	989310	530	.37
904750	Res. #5	1561370 ✓	1567760	6,390	4.47
904752	Res. #3	1570390 ✓	1572070	1,680	1.18
	Shop	00000	7730	7,730	5.41
	Apartments	736460 ✓	746700	10,240	7.17
7608128	Res. #11	1133190 ✓	1136610	3,420	2.39
7608124	Res. #8	875150 ✓	875470	320	.22
#1 Well	Res. Hdqrs.	164564500 ✓	16579800	125,300	87.7
#2 Well	Devils Garden	1883100 ✓	1883100	0 0 0	

WATER METER READINGS

Month March District Arches National Park

Meter Serial No.	Location	Beginning	Ending	Total	
904748	Res. #6	1399060 ✓	1400640	1,580	1.11
904751	Res. #10	989310 ✓	989320	10	.01
904750	Res. #5	1567760 ✓	1573450	5,690	3.98
904752	Res. #3	1572070 ✓	1573720	1,650	1.15
	Shop	7730 ✓	18470	10,740	7.52
	Apartments	746700 ✓	756420	9,720	6.80
7608128	Res. #11	1136610 ✓	1141510	4,900	3.43
7608124	Res. #8	875470 ✓	875810	340	.24
#1 Well	Res. Hdqrs.	16579800 ✓	16745300	165,500	115.85
#2 Well	Devils Garden	1883100 ✓	1936200	53,100	

WATER METER READINGS

Month April District Arches National Park

Meter Serial No.	Location	Beginning	Ending	Total	
904748	Res. #6	1400640	1421300	20,660	14.46
904751	Res. #10	989320	997810	8490	5.94
904750	Res. #5	1573450	1591430	17,980	12.59
904752	Res. #3	1573720	1585610	11,890	8.32
31860971	Shop	18420	26570	8,150	5.67
	Apartments	756420	769110	12,690	8.881
7608128	Res. #11	1141510	1150820	9,310	6.521
7608124	Res. #8	875810	896490	20,680	14.48
#1 Well	Res. Hdqrs.	16745300	16986100	240,800	168.56
#2 Well	Devils Garden	1996200	2025100	28,900	62.23
31860956	V.C. Trees	0000	2800	2800	1.96
31860955	V.C. "	0000	3550	3550	2.49
31860974	V.C. "	00000	0000	Not working	

WATER METER READINGS

Month May District Arches National Park

Meter Serial No.	Location	Beginning	Ending	Total	
904748	Res. #6	1421300	1444660	23,360	
904751	Res. #10	997810	1007360	9,550	
904750	Res. #5	1591430	1609190	17,760	
904752	Res. #3	1585610	1606260	20,650	
31860971	Shop	26570	36900	10,330	
	Apartments	769110	782450	13,340	
7608128	Res. #11	1150820	1188550	37,730	
7608124	Res. #8	896490	920050	23,560	
#1 Well	Res. Hdqrs.	16986100	17401800	415,700	
#2 Well	Devils Garden	2025100	2135600	110,500	
31860956	V.C. Trees	2800	11130	8330	
31860955	V.C. Trees	3550	13060	9,510	
31860974	V.C. Trees	0000	4470	?	
26064220	V.C.	?	88600	?	

WATER METER READINGS

Month June District Arches National Park

Meter Serial No.	Location/Occupant	Beginning	Ending	Total	
#1 Well	Res. Headquarters	17401800	17774300	372,500	✓
#2 Well	Devils Garden	2135600	2249300	113,700	✓
904752	Res. 3-Swanson-Young	1606260	1626720	20,460	
904750	Res. 5 -Murphy	1609190	1629520	20,330	
904748	Res. 6 - Bierhaus	1444660	1474260	29,600	
7608124	CNHA/Library	920050	953200	33,150	
904751	Res. 10-Fender	1007360	1020390	13,030	
7608128	Res. 11-	1188550	1206580	18,030	
	Apartments	782450	797496	15,046	
31860971	Shop	36900	50230	13,330	✓
31860956	V.C. Trees	11130	21650	10,520	
31860955	V.C. Trees	13060	24810	11,750	
31860974	V.C. Trees	4470	4470	Not working	
26064220	V.C.	88600	95300	6,700	

WATER METER READINGS

Month July 1983 — District Arches National Park

Meter Serial No.	Location/Occupant	Beginning	Ending	Total
#1 Well	Res. Headquarters	17774300 ✓	18223800	449,500
#2 Well	Devils Garden	2249300 ✓	2365100	115,800
904752	Res. 3-Swanson-Young	1626720 ✓	1652490	25,770
904750	Res. 5 - Murphy	1629590 ✓	1650500	20,910
904748	Res. 6 - Bierhaus	14742600 ✓	15035900	29,330
7608124	CNHA/Library	953200 ✓	995030	41,830
904751	Res. 10- Fender	1020390 ✓	1034410	14,020
7608128	Res. 11- Vacant	1206580 ✓	1226600	20,020
	Apartments	797490 ✓	815470	17,980
31860971	Shop	50230 ✓	70320	20,090
31860956	V.C. Trees	21650 ✓	35480	13,830
31860955	V.C. Trees	24810 ✓	40260	15,450
31860952	V.C. Trees	4470 ✓	5960	1,490
26064220	V.C.	9539000 ✓	10326000	78,700

Month August — District Arches National Park

Meter Serial No.	Location/Occupant	Beginning	Ending	Total
#1 Well	Res. Headquarters	18223800 ✓	18673300	449,500
#2 Well	Devils Garden	2365100 ✓	2405500	40,400
904752	Res. 3-Swanson-Young	1653490 ✓	1679540	27,050
904750	Res. 5 - Murphy	1650500 ✓	1670490	19,990
904748	Res. 6 - Bierhaus	15033990 ✓	15339990	30,400
7608124	CNHA/Library	995030 ✓	1031320	36,290
904751	Res. 10- Fender	1034410 ✓	1050680	16,270
7608128	Res. 11-	1226600 ✓	1248600	22,000
	Apartments	815470 ✓	830700	15,230
31860971	Shop	70320 ✓	99420	29,100
31860956	V.C. Trees	35480 ✓	48120	13,640
31860955	V.C. Trees	40260 ✓	53510	13,250
31860952	V.C. Trees	5960 ✓	18870	12,910
26064220	V.C.	10326000 ✓	11070000	74,400

Month September — District Arches National Park

Meter Serial No.	Location/Occupant	Beginning	Ending	Total
#1 Well	Res. Headquarters	18673300 ✓	19080100	466 800
#2 Well	Devils Garden	2405500 ✓	2443900	37,400 ✓
904752	Res. 3-Swanson-Young	1679540 ✓	1703760	24220
904750	Res. 5 - Murphy	1670490 ✓	1687380	16 890
904748	Res. 6 - Bierhaus	15339990 ✓	15601120	26130
7608124	CNHA/Library	1031320 ✓	1061300	29980
904751	Res. 10- Fender	1050680 ✓	1064930	14250
7608128	Res. 11-	1248600	1265400	16800 ✓
	Apartments	830700 ✓	846910	16210
31860971	Shop	99420 ✓	119140	19720
31860956	V.C. Trees Behind V.C.	48120 ✓	61800	13680
31860955	V.C. Trees CENTER	53510 ✓	67820	14310
31860952	V.C. Trees In FRONT	18870 ✓	34070	15200
26064220	V.C.	11070000 ✓	11671000	60 100

WATER METER READINGS

Month October — District Arches National Park

Meter Serial No.	Location/Occupant	Beginning	Ending	Total	
#1 Well	Res. Headquarters	19080100 ✓	19347500	267,400	\ 187
#2 Well	Devils Garden	25829000 ✓	25929000	31,100	\ 4.9
31282425 ~~904752~~	Res. 3-Swanson-Young	1703760 ✓	90	1,170	\ 5.0
31894042 ~~904750~~	Res. 5 - Murphy	1687380 ✓	53000	4,410	\ 4.49
31282427 ~~904748~~	Res. 6 - Bierhaus	1560120 ✓	10,760	15,400	\ 10.78
7608124	CNHA/Library	10613000 ✓	10763500	14,950	\ 10.47
31282422 - 904751	Res. 10- Fender	10649300 ✓	56700	7,550	\ 5.29
31894049 ~~7608128~~	Res. 11- Clark	12654000 ✓	66700	7,820	\ 5.47
	Apartments	8469100 ✓	8583300	11,460	\ 8.02
31860971	Shop	1191400 ✓	1286100	9,470	\ 6.63
31860956	#1 V.C. Trees	61800 ✓	72390	10,590	✓ 7.41
31860955	#2 V.C. Trees	67820 ✓	70570	2,750	✓ 1.93
31860974	#3 V.C. Trees	34070 ✓	37200	3,130	✓ 2.19
26064220	VC	11671000 ✓	12000700	33,600	✓ 23.52

WATER METER READINGS

Month November — District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs.	19347500 ✓	19532800	185,300 ✓	
#2 Well	Devils Garden	25900000 ✓	—	—	
31282425	Res. 3 Swanson-Young	90 ✓	230	140 ✗	.10
31894042	Res. 5 Murphy	53000 ✓	46960	4,660 ✗	29.16
31282427	Res. 6 Bierhaus	10700 ✓	12510	1810 ✗	1.27
7608124	CNHA/Library	10761500 ✓	10784300	22800 ✗	1.67
31282422	Res. 10 Fender	56700 ✓	78700	22000 ✗	1.54
31894049	Res. 11 Clark	66700 ✓	173900	10,720 ✗	7.50
	Apartments	9585700 ✓	9655500	10,660 ✗	7.41
31860971	Shop	1286100 ✓	1367600	8,150 ✓	5.71
31860956	#1 V.C. Tree	72390 ✓	72390	—	
31860974	#2 V.C. Tree	000	170	170	.12
31894041	#3 V.C. Tree	000	30	30	.02
26064220	Visitor Center	12000700 ✓	12120000	11,300	7.91

WATER METER READINGS

Month December 83 — District ARCHES NATIONAL PARK

Meter Serial No.	Location	Beginning	Ending	Total	
#1 Well	Res. Hqrs.	19532800 ✓	19668360	135,400 ✓	9478
#2 Well	Devils Garden	25900000 ✓	25900000	00	
31282425	Res. 3 Swanson-Young	230 ✓	730	500 ✓	.35
31894042	Res. 5 Murphy	46961 ✓	51360	4,400 ✓	3.08
31282427	Res. 6 Bierhaus	12510 ✓	14520	2,010 ✓	1.41
7608124	CNHA/Library	10784300 ✓	10789700	5400 ✓	.25
31282422	Res. 10 Fender	78700 ✓	101900	2,320 ✓	4.62
31894049	Res. 11 Clark	173900 ✓	291000	11,410 ✓	8.13
	Apartments	9655500 ✓	9777700	9,140 ✓	6.40
31860971	Shop	1367600 ✓	1430000	6,240	4.37 ✓
31860956	#1 V.C. Tree	72390 ✓	72390	00	
31860974	#2 V.C. Tree	170 ✓	200	30	.02
31894041	#3 V.C. Tree	30 ✓	30	00	
26064220	Visitor Center	12120000 ✓	12170000	50000	3.50

00-00-0000: summary of pump and well: includes drawing of dimensions of pump and surrounding area

Area: ARCHES NATIONAL PARK System or Location: WELL 1, HEADQUARTERS

Pump: Manufacturer Grundfos Pumps Corporation Size 3 H.P.
2555 Clovis Ave., Clovis, CA 93612 - (209) 299-9741
No. of stages 26 Model No. #2243 022 003 A 8006

Voltage 230 Phases Single Amp. (operating)

Date of installation 1/14/83 Date pump pulled and serviced

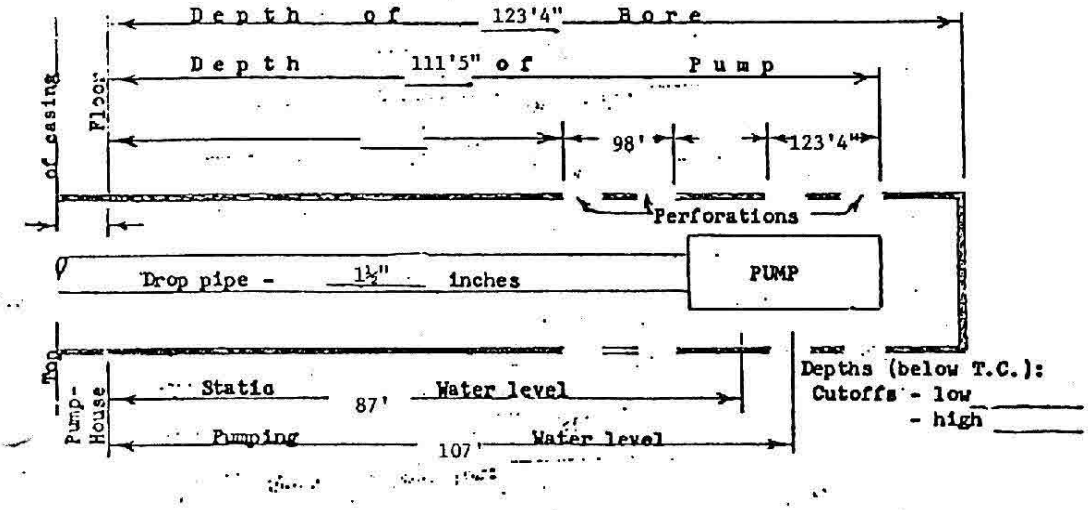
Cable: Type Size Length

Manufacturer Order No.

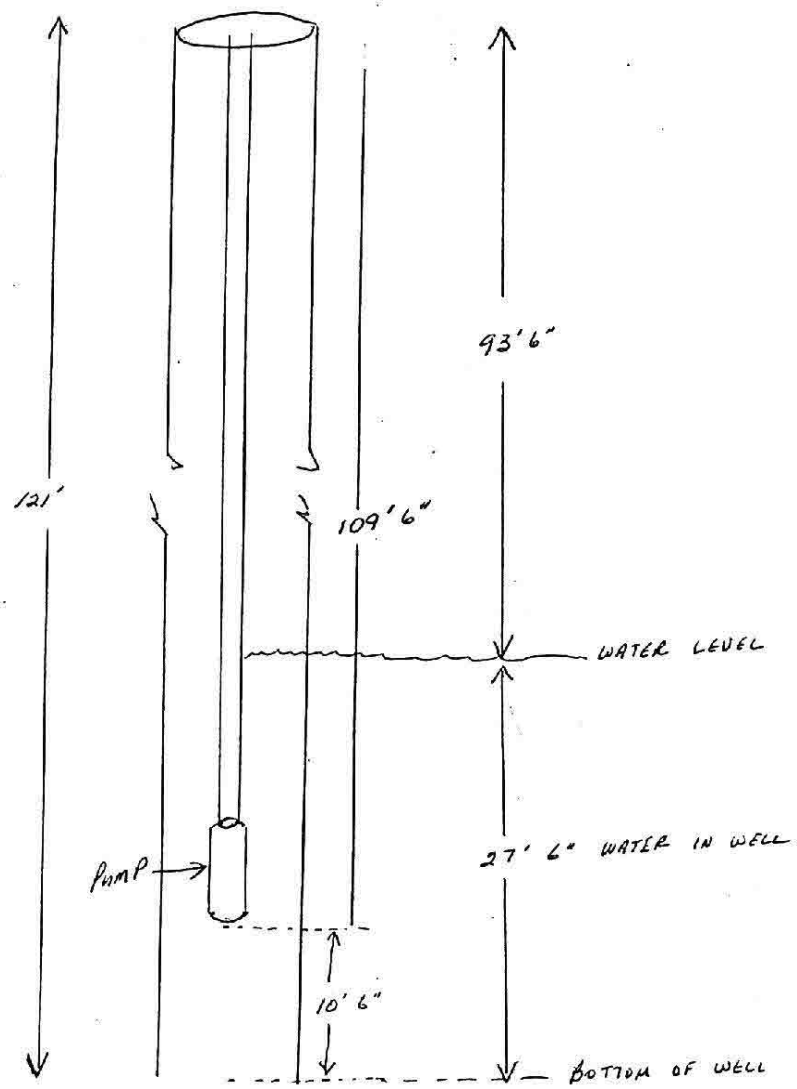
Dates previous pumps installed 8/70 12/79

Remarks: 1/12/83: H. E. Beeman Drilling Co. with crew of 3 men arrived on well site at ARCH at 8:15 AM., pulled pump and started bailing at rate of 25 gpm for approx. 20 min. The bailer contained large amounts of sand. After 3 hrs. of bailing with no appreciable drop in water level the pump was re-installed and produced 35 gpm with no head. The pump was then connected to the water line under full head pressure and the capacity dropped to 8 gpm, indicating the pump was badly worn from sand. Inspection of the check valve at top of well casing indicated excessive wear. It was determined necessary to replace check valve and pump.
H. E. Beeman Drilling Co. was authorized to purchase and install new pump and check valve. On Thursday, 1/13 Mr. Beeman drove to Grand Junction and picked up pump.
1/14/83: Beeman Drilling Co. arrived on site at 8:30 AM, pulled old pump, set new pump, controls and check valve, disinfected well and started new pump which delivered 27 gpm against full head pressure. The drill crew departed the site at 12:15 PM.

Remarks: Monroe Pump Supply (Grand Jct.)



00-00-0000: handrawn map of well



WATER SYSTEM ARCHES NATIONAL PARK (Headquarters Well - original) #1

1. Power source Public utility

2. Ground water investigation report (s) "Hydrologic Investigations in Arches National Monument, Fiscal Year 1971." Also see "Memorandum Summarizing the Drilling and Test Pumping of a Replacement Well at Arches National Monument, Grand County, Utah" dated 1959, both /by U.S.G.S.

3. Flow rate: 15 g.p.m. Well depth 123'

Well log, None on file

4. Visitor season May - Sept - Visitation

1975	1977	1978
May - 24,443		43,983
June- 38,955	48,123	
July- 44,931	51,004	
~~Aug - 46,928~~	~~51,612~~	
Sep - 28,417		

Other uses

5. Whether it is a floating system or not Yes

6. Reservoir size 50,000-gal. STEEL & 20000 gal concrete

7. Drawing numbers that pertain to well and system NM-ARC/3016 B

8. Usage: Apr '77 - Apr '78 = 4,936,100 or 411,342/mo.
High month: July 605,800

1 hydrant
6 permanent residences (6 3-bedroom
4-unit Apt. 1 2-bedroom
1 Visitor Center 4 1-bedroom)
1 Maint. Bldg.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON

Branch of Ground Water

DRILLING AND TEST PUMPING A REPLACEMENT WELL AT ARCHES NATIONAL MONUMENT, GRAND COUNTY, UTAH

By
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Prepared at the request of the
National Park Service, Department of the Interior

Salt Lake City, Utah

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Open-File Report

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Drilling and Test Pumping a Replacement Well At Arches National Monument, Grand County, Utah

By Don Price
April 18, 1959

INTRODUCTION

In October 1958 the National Park Service requested the assistance of the U. S. Geological Survey during the drilling of a replacement well at Arches National Monument, Grand County, Utah. The new well was needed in order to meet the growing water requirements at the Monument.

It was agreed that a representative of the Survey would be on hand during the final stages of drilling to collect and examine drill cuttings and to advise at what depth drilling should be stopped. He was also to be on hand during the test pumping of the well, to collect information on yield and drawdown. The following discussion summarizes the drilling and test pumping of the replacement well and includes some of the basic data collected during those operations. The well was drilled during the period November 3 to 12, 1958, and the well was developed and test pumped off and on, during the period November 12 to December 20, 1958.

Because of unavoidable interruptions during the development and test pumping, it was not possible for the writer to remain at the site the entire time. Bates Wilson, Superintendent of Arches National Monument, provided valuable assistance and collected data during the writer's absence.

Arches National Monument is in Grand County in southeastern Utah. The replacement well and the existing well (the well to be replaced) are both in the Monument headquarters area, about 5 miles northwest of the city of Moab. The replacement well is 20 feet west of the existing well and about 5 feet higher. Both wells obtain their water from the Navajo sandstone.

Drilling and Sample-Collecting Procedure

The replacement well was drilled during the period November 3 to 12, 1958. A truck-mounted rotary rig equipped with a 12-inch bit was used for the entire operation. During the drilling of the first 87 feet, cuttings were blown from the well with compressed air. At a depth of 87 feet below the land surface, however, water was encountered in the formation and the damp cuttings began to adhere to the drill bit. This made it necessary to use drilling fluid for the remainder of the drilling operation. The drilling fluid consisted of plain water at first, but it was soon necessary to thicken the fluid with mud and mill fiber in order to maintain circulation.

Sample cuttings were collected at 5-foot intervals from the land surface to a depth of 122 feet below. Samples were not collected from 122 feet below the land surface to the bottom of the well (123.4 feet below land surface) because the cuttings from this interval could not be recovered. All the samples were collected in a small container placed at the point where cuttings were being discharged from the well. This container was cleaned out after each sample was

collected to prevent contamination of succeeding samples. The samples from 87 to 122 feet below the land surface were mixed with drilling mud and had to be washed several times before they were placed in sample sacks.

Well Completion

The replacement well was constructed as an artificially gravel-packed well. It was drilled to a total depth of 123.4 feet below the land surface and had an original diameter of 12 inches. A steel casing 127 feet long and 8 inches in diameter was placed down the center of the well and the annular space between the casing and the wall of the well was filled with gravel to form the artificial gravel pack. The gravel consisted of pebbles averaging about 3/8 inches in diameter.

Before the casing was installed, the bottom 25 feet was perforated with a torch. The perforations consisted of narrow vertical slits about $\frac{1}{4}$ inch wide and 1 foot long. Care was taken to stagger the slits around the casing to preserve its strength.

After the casing and gravel pack were in place, a well-alinement device was lowered into the well, and the well was checked for straightness. No obstructions or crooks were encountered, but the casing was found to deviate from the vertical by about 1 degree; however, this did not place any restriction on the size of pump that could be installed in the well.

Development and Testing of the Well

The well was developed in two steps. The first step was a flushing and bailing operation designed to remove most of the drilling clay and loose sand from the well. The second step was a test-pumping operation which was intended to develop the well further to its maximum specific capacity. The flushing operation consisted of pumping clear water into the well through a 2-inch pipe which extended to the bottom of the casing. The water was allowed to circulate back up through the casing, carrying with it clay and loose sand that had accumulated in the bottom of the well. This operation lasted for 2 hours. Water was then pumped into the well in the same manner as above, but instead of being circulated back up through the casing it was forced out through the perforations and circulated up through the gravel pack. This operation lasted for 1 hour. The well was then bailed for 3 hours, during which time it yielded an average of 12 gallons per minute (gpm) and the water level in the well remained at approximately 100 feet below the land surface. The static water level in the well was not recorded prior to the bailing test.

The well was test pumped on three separate occasions prior to this report. A jet pump (the pump originally used on the existing well) was used for the first two tests and a submersible pump was used for the third test. A summary of data collected during the test pumping is given in the following table.

Test-pumping data from the replacement well,
Arches National Monument, Grand County, Utah.

Date	Static water level, in feet below land surface	Hours pumped	Discharge, in gallons per minute	Pumping water level, in feet below land surface	Drawdown, in feet	Specific capacity, gallons per minute per foot of drawdown
Dec. 10, 1958	91.22	4	6	97.50	6.28	0.96
Dec. 11, 1958	91.31	7	8	104.78	13.47	.59
Dec. 20, 1958	91.71	6	12	98.71	7.00	1.72[a/]

[a/] Data reported by drilling company.

The water level in the pumping well was measured with an electric tape and the yield was measured volumetrically by means of a barrel of known capacity and a stopwatch.

It was particularly difficult during the first two tests to keep the pump in continuous operation and to obtain constant yields. At the end of the second test the foot valve on the pump broke and the test pumping was discontinued until another pump could be obtained. The writer was absent during the third and final test and the figures in the preceding table, summarizing this test, were reported by the drilling company. A water-level recovery test was made on the well after the first and third pumping tests. Graphs of the recovery of the water level are shown in figure 1. The existing well was available for observation and was measured during the first two pumping tests. Pumping of the test well affected the water level in the old well, but

because the test well was still in the development stage and because a constant yield could not be maintained, no quantitative interpretations could be made at that time. The water level in the existing well was measured during the second pumping test, as shown in the following table.

Water-level measurements in existing well during second test pumping of the replacement well

Time, in minutes, after pump was started	Water level, in feet below land surface
0	86.36
5	86.37
25	86.41
35	86.42
45	86.46
50	86.48
65	86.51
85	86.55
160	86.68
180	86.72
235	86.82
420	86.85[a/]

[a/] Total drawdown 0.49 feet.

Log of the well

Table 1 shows the log of the replacement well at Arches National Monument. The well was drilled to a total depth of 123.4 feet entirely in the Navajo sandstone. On the outcrop the Navajo sandstone is a massive cream to yellow sandstone consisting primarily of medium-grained friable quartz sand cemented by calcium carbonate. It is the uppermost formation of the Glen Canyon group of Triassic and Jurassic age. A sieve analysis of the samples collected from the replacement well showed that the sand composing the Navajo sandstone is remarkably uniform in the total section that was penetrated by the drill bit. Between 70 and 80 percent of the sand grains were retained on the 250- and 125-micron screens. This percentage is probably low, however, because the sandstone was well cemented, except in the zone of saturation, and many grains were ground to a powder by the churning action of the drill bit. The samples collected from the zone of saturation were found to be poorly cemented and the sand grains were not excessively ground up by the drill bit. In these samples, 93 percent of the sand grains were retained by the 250- and 125-micron screens. This would indicate a medium-grained, well-sorted sand.

Some ironstone concretions and fragments of calcium carbonate were found in the zone of saturation. They were probably deposited by ground water.

Table 1.-- Log of the replacement well at Arches National Monument, Grand County, Utah, describing the Navajo sandstone and summarizing the drilling conditions (All depths are in feet below land surface)

Altitude of land surface: 4,090 feet
Diameter of well: 12 inches
Diameter of casing: 8 inches
Statice water level: 92 feet
Maximum measured yield: 12 gallons per minute
Driller: Moab Drilling Co.

Lithologic description	Drilling conditions	Thickness (feet)	Depth (feet)
Sandstone, yellow to orange, medium-grained, well-rounded, well-sorted, well-cemented; contains some wood fragments.	This interval was drilled with a pneumatic rotary rig. Drilling was uninterrupted and uniform.	87	87
Sandstone, orange to light-pink, medium-grained, well-rounded, well-sorted, fairly well cemented.	This interval was drilled with a hydraulic rotary rig. Circulation was lost at a depth of 105 feet.	18	105
Sandstone, orange to pink, medium-grained, well-rounded, well-sorted, very tightly cemented with calcium carbonate.	Drilling became extremely difficult and slow in this interval. Cuttings were recovered in large fragments.	7	112
Sand, orange to pink, well-rounded, well-sorted, uncemented; some small fragments of gray limestone, ironstone concretions, and calcium carbonate cement.	Drilling became easier and more repid in this interval; good saturation was encountered. Circulation was lost at 120 feet below land surface.	10	122
No sample recovered.	Drilling conditions became extremely difficult and slow in this interval. Circulation was lost at 122 feet below land surface.	1.4	123.4

Chemical Quality

A sample of water was collected from the replacement well after about 2,500 gallons had been pumped from the well. The results of a partial chemical analysis of the water are summarized in the following table. The water was analyzed at the Quality of Water laboratory of the U. S. Geological Survey, Salt Lake City, Utah.

Chemical analysis of water from the replacement well at Arches National Monument, Grand County, Utah.
(Chemical constituents in parts per million)

Date of collection:	Dec. 11, 1958
Temperature:	67°F
Specific conductance at 25°C:	762 micromhos
Silica (SiO_2):	12
Calcium (Ca):	55
Magnesium (Mg):	21
Sodium and potassium (Na + K):	75
Bicarbonate (HCO_3):	218
Sulfate (SO_4):	133
Chloride (Cl):	49
Nitrate (NO_4):	1.6
Dissolved solids:	454
Hardness as $CaCO_3$	Carbonate: 224 Noncarbonate: 45
pH:	7.4

Conclusions and Recommendations

The replacement well was drilled in the Navajo sandstone, which is a highly crossbedded sandstone. Where it is exposed at the surface, it is fractured along the bedding planes. The Navajo sandstone is also known to be jointed in this area. Apparently other joints and fractures exist at some depth because the driller had difficulty maintaining circulation. This loss of circulation strongly suggests that the drilling mud was being lost through a fracture. This condition occurred at three different depths, 105, 120, and 122 feet below the land surface. Each time, however, the measured water level in the well was 100 feet below the land surface. The water level remained constant at this depth despite the fact that the static water level in the well before circulation was lost was known to be approximately 92 feet below the land surface.[1/] This fact suggests that drilling fluid might be moving out through a principal fracture zone at a depth of about 100 feet below the land surface. To seal off the fracture zone, however, a thick mixture of drilling mud containing mill fiber was required. It is possible that some of this drilling mud penetrated the water-producing horizon to some extent. It is believed, however, that the mud did not completely seal off the aquifer. The existing well, which was pumping almost continuously during the drilling operation, stopped yielding water 2 days after the driller began using mud. However, mud was never detected in water

[1/] It is possible that the water level was depressed by the weight of the drilling mud but the water level remained at a depth of 100 feet even after the drilling mud was pumped from the well.

pumped from this well. It is possible that there may have been a cave-in of sand around the casing of the existing well which caused the well to stop yielding water. It is also possible that the yield of this well could be restored, in part at least, by surging.

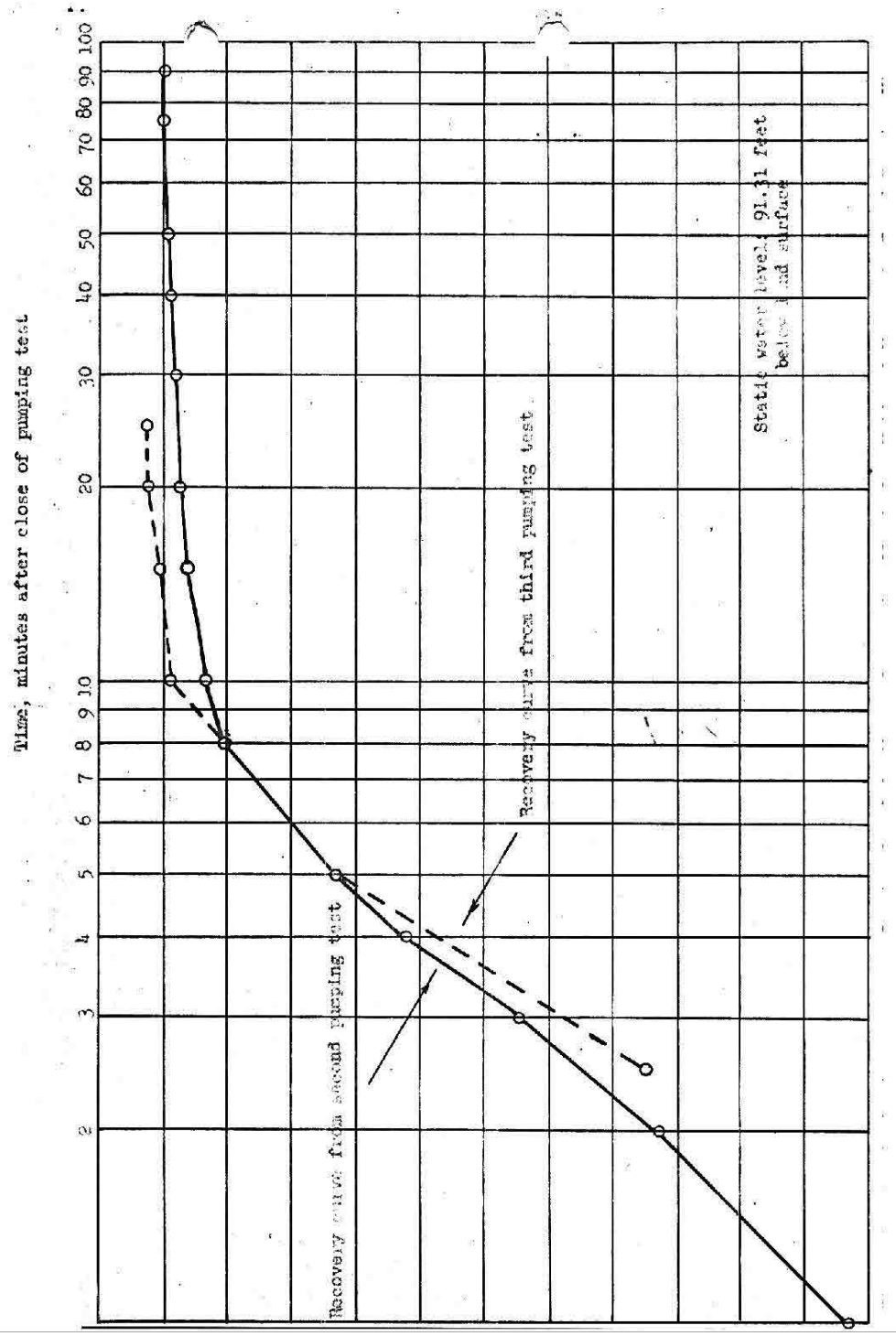
The maximum yield of the replacement well was reported to be 12 gallons per minute. However, there were still considerable quantities of clay and mill fiber in the water at the end of the third pumping test, and it is believed that the well will require additional development before it is put into operation.

A common and usually successful method of well development is to surge the well, alternately using a surge block and then a bailer to remove the churned-up water and sediment. The surge block is more effective in moving loose sand and materials through the gravel pack than is a pump discharging only 12 gpm. By using a surge block, fine material that plugs the gravel pack can be pulled into the casing. The water and fine material can then be bailed out of the well. It may be necessary to use a detergent such as sodium hexametaphosphate to break down the drilling clay so that it can be removed from around the well.

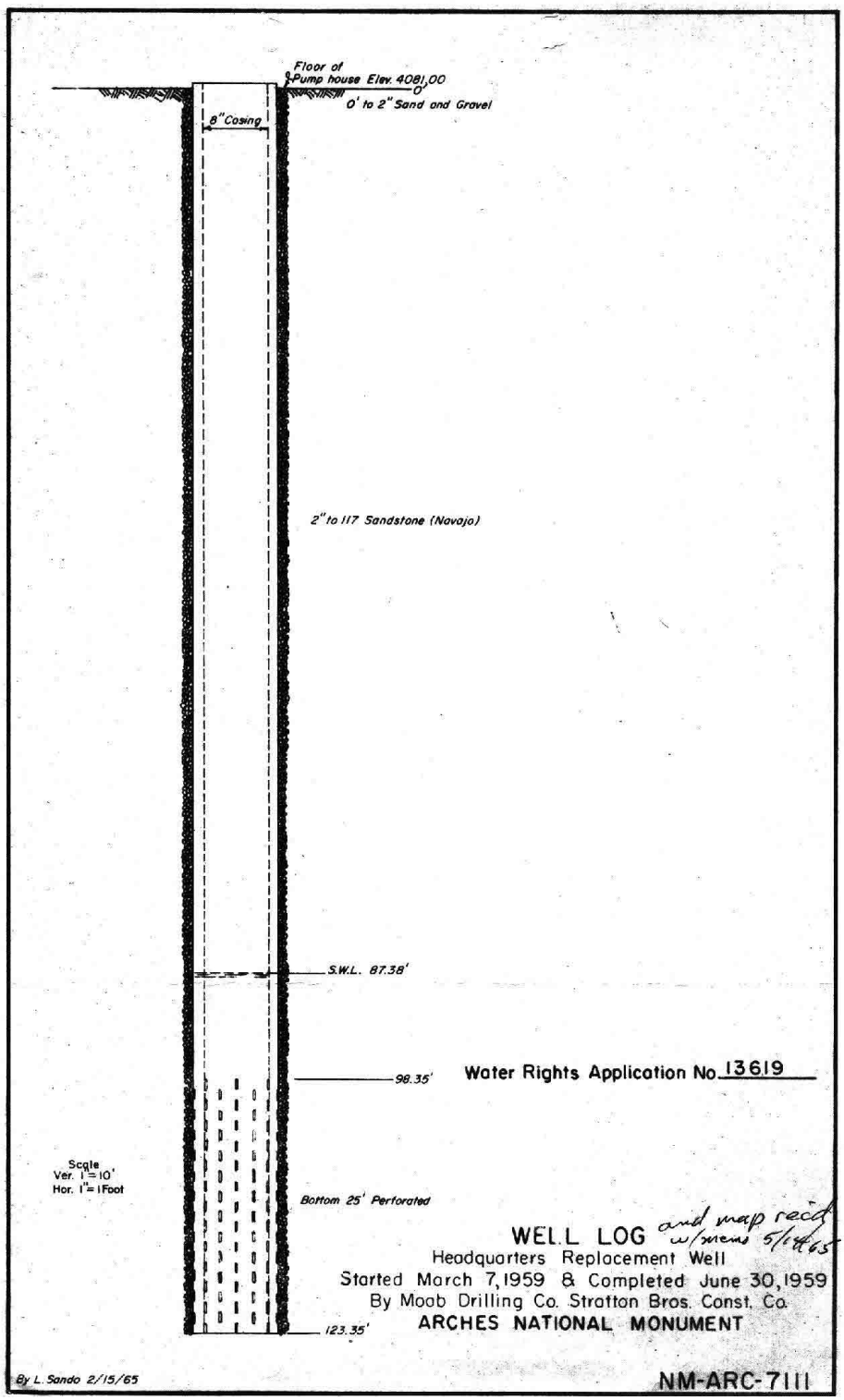
The State Engineer of Utah granted the National Park Service permission to retain the existing well for observation purposes after the replacement well is completed. When the replacement well is put into operation, a continuous water-level recording gage will be installed on the existing well. At that time, an aquifer-performance test will be made. It will be necessary to record water levels in both the existing well and the replacement well during

the test. It is suggested, therefore, that an air-line gage be installed in the existing well along with the pump. This would provide an easy and convenient way to measure water levels whether or not the pump is in operation.

00-00-0000: graph: recovery from pumping tests



06-30-1959: well log for headquarters replacement well; application 13619



Water Rights Application No. 13619

WELL LOG and map recd w/memo 5/14/65

Headquarters Replacement Well
Started March 7, 1959 & Completed June 30, 1959
By Moab Drilling Co. Stratton Bros. Const. Co.
ARCHES NATIONAL MONUMENT

NM-ARC-7111

C
O
P
Y

MOAB DRILLING COMPANY

Moab, Utah

December 20, 1958

Charles A. Steen
President

General Manager
Max D. Pierson

ARCHES NATIONAL MONUMENT WATER WELL

All measurements are from ground level

Water Draw Down Record

Standing water level	GPM Pumped	Time
91' 8.5"	12 GPM	0 Minute
96'	12 GPM	5 "
95' 8.5"	10 GPM	10 "
98'	12 GPM	15 "
98' 1.25"	12 GPM	20 "
98' 2"	12 GPM	25 "
99' 1.5"	12 GPM	30 "
98' 8.5"	12 GPM	35 "

Maximum yield 11.8 GPM pumped at this rate for 6 hours.

Recovery Record

Pumped well dry before starting test.

Water Level	Time
115'	0 Minute
99' 7"	2-1/2 Minute
94' 8"	5 "
92' 1.5"	10 "
91' 10.5"	15 "
91' 9.5"	20 "
91' 8.5"	25 "

12-00-1958: notes pertaining to the replacement well at arches national monument drilled

Arches docket No 1

NOTES PERTAINING TO THE REPLACEMENT WELL AT ARCHES

NATIONAL MONUMENT DRILLED - NOV.-DEC., 1958

ELEVATION: 4093.8 feet above M.S.L. (Top of casing)

Total depth of well: 123.35 feet

Diameter of casing: 8 inches

Outside diameter of gravel pack: 12 inches

Perforations: Bottom 25' perforated

Type of perforations: Slit type cut by torch. Each perforation is one foot long and about 1/8" - 1/4" wide. Perforations are staggered around casing.

Principal water-bearing zone: About 110 to 120 feet.

Maximum yield reported: 12 gpm (well still was not completely free of drilling mud and mill fiber).

Static water level - 87.38' (Dec. 11, 1958)

Pumping water level at 8 gpm - 107.97 (Dec. 11, 1958)

Other Supporting Information

Form 97 2M 10-70

Application No. _____

APPLICATION TO APPROPRIATE WATER
STATE OF UTAH

NOTE:--The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☐ Domestic ☒ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☐ Other Uses ☒
2. The name of the applicant is U.S. Department of the Interior, National Park Service
3. The Post Office address of the applicant is P.O. Box 25287, Denver, CO. 80225
4. The quantity of water to be appropriated 0.08 second-feet and/or _____ acre-feet
5. The water is to be used for Recreation (Major Purpose) from January 1 (Month) (Day) to December 31 (Month) (Day)
   other use period Domestic & Park Facilities (Minor Purpose) from January 1 (Month) (Day) to December 31 (Month) (Day)
   and stored each year (if stored) from January 1 (Month) (Day) to December 31 (Month) (Day)
6. The drainage area to which the direct source of supply belongs is _____ (Leave Blank)
7. The direct source of supply is* Underground water (well) (Name of stream or other source)
   which is tributary to _____, tributary to _____

*Note. Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in Grand County, situated at a point* south 2,700 feet and west 3,600 feet from the northeast corner of Section 21, T25S, R21E located near the maintenance complex at Arches National Park

*Note.--The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of One 8 inch well 172 feet deep
10. If water is to be stored, give capacity of reservoir in acre-feet 0.2 height of dam _____ area inundated in acres _____ legal subdivision of area inundated 70,000 gallon storage tank
11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:

_____ Total _____ Acres

12. Is the land owned by the applicant? Yes X No _____ If "No," explain on page 2.
13. Is this water to be used supplementally with other water rights? Yes _____ No X
    If "yes," identify other water rights on page 2.
14. If application is for power purposes, describe type of plant, size and rated capacity. _____
15. If application is for mining, the water will be used in _____ Mining District at the _____ mine, where the following ores are mined _____
16. If application is for stockwatering purposes, number and kind of stock watered _____
17. If application is for domestic purposes, number of persons _____, or families 6
18. If application is for municipal purposes, name of municipality _____
19. If application is for other uses, include general description of proposed uses one visitor center, one maintenance building and seven residential buildings
20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. Uses are in Section 21, T25S, R21E, SLB&M
21. The use of water as set forth in this application will consume 0.08 second-feet and/~~or acre-feet~~ of water and 0 second feet and/ or acre feet will be returned to the natural stream or source at a point described as follows: _____

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described

United States of America
National Park Service
Rocky Mountain Region

L.E. Surles
Signature of Applicant*

Associate Regional Director, Park Operations

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH,
County of ..... } ss

On the ..... day of ....., 19..., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public

FEES FOR APPLICATIONS TO APPROPRIATE WATER IN UTAH

Flow rate — c.f.s.	Cost	
0.0 to 0.1	$ 10.00	
over 0.1 to 0.5	20.00	
over 0.5 to 1.0	30.00	
over 1.0 to 15.0	30.00	plus $5 for each cfs above the first cubic foot per second.
over 15.0	100.00	
Storage — acre-feet		
0 to 20	15.00	
over 20 to 500	30.00	
over 500 to 7500	30.00	plus $5 for each 500 a.f. above the first 500 acre feet.
over 7500	100.00	

(This section is not to be filled in by applicant)

STATE ENGINEER'S ENDORSEMENTS

1. ..... Application received by mail / over counter in State Engineer's office by .....
2. ..... Priority of Application brought down to, on account of .....
3. ..... Application fee, $....., received by ..... Rec. No.....
4. ..... Application microfilmed by ..... Roll No. .....
5. ..... Indexed by ..... Platted by .....
6. ..... Application examined by .....
7. ..... Application returned, ... or corrected by office .....
8. ..... Corrected Application resubmitted by mail / over counter to State Engineer's office.
9. ..... Application approved for advertisement by .....
10. ..... Notice to water users prepared by .....
11. ..... Publication began; was completed .....
    Notice published in .....
12. ..... Proof slips checked by .....
13. ..... Application protested by .....
14. ..... Publisher paid by M.E.V. No. .....
15. ..... Hearing held by .....
16. ..... Field examination by .....
17. ..... Application designated for approval / rejection
18. ..... Application copied or photostated by ..... proofread by .....
19. ..... Application approved / rejected
20. **Conditions:**

    This Application is approved, subject to prior rights, as follows:

    a. Actual construction work shall be diligently prosecuted to completion.

    b. Proof of Appropriation shall be submitted to the State Engineer's office by .....

    c. .....

    ....
    State Engineer

21. ..... Time for making Proof of Appropriation extended to .....
22. ..... Proof of Appropriation submitted.
23. ..... Certificate of Appropriation, No. ....., issued

Application No.....

EXPLANATORY CONTINUED

NOTICE TO APPLICANT

All waters in this state, whether above or under the ground, are the property of the public, subject to all existing rights to the use thereof. No appropriation of the unappropriated public water may be made and no rights to the use thereof shall be recognized except Application for such appropriation first be made to the State Engineer.

The approval of this Application is not a Certificate of Appropriation. It is merely your authority to begin construction work, which must be prosecuted diligently to completion. To secure a Certificate of Appropriation under this Application, Proof of Appropriation must be submitted within the time limit allowed by the State Engineer. The amount of water for which Certificate will be issued will depend upon the amount of water actually put to a beneficial use, not to exceed, however, the amount of water specified in this Application. Proof of Appropriation must be made in accordance with the requirements of the law. For further information write the State Engineer.

02-23-1988: report of telephone conversation: go ahead and file for the statement of water user's claim since we appear to be usin

REPORT OF TELEPHONE CONVERSATION

DATE 2/23/88 TIME 2:30 AM/(PM)

PROJECT

NPS PERSON ON CALL: Beth Voelkel ☒ I CALLED ☐ S/HE CALLED

PERSON Ron Hermance

ORGANIZATION

ADDRESS

TELEPHONE NO. EXT.

SUBJECTS DISCUSSED He said we should go ahead and file for the Statement of Water User's Claim since we appear to be using what was claimed — 0.08 cfs was claimed and we're using up to 0.2 based on an 8 hour day but probably averaging closer to 0.03 cfs.

ACTION TO BE TAKEN

COPIES TO:

02-27-1988: report of telephone conversation: the state will prepare a statement of water user's claim for us if we send the form re

REPORT OF TELEPHONE CONVERSATION

DATE 2/27/88 TIME 3:00 AM/PM

PROJECT ARCH Well #1, Proof of Beneficial Use

NPS PERSON ON CALL: Beth Vaelkel ☒ I CALLED ☐ S/HE CALLED

PERSON Mark Page, Area Engineer

ORGANIZATION State Engineer's (Utah) Office, Division of Water Resources

ADDRESS

TELEPHONE NO. (801)637-1303 EXT.

SUBJECTS DISCUSSED He said that the State will prepare a Statement of Water User's Claim for us if we send the form requesting it. He said we should include a name and phone number for a contact with water use and other information at the park so they can get the info needed.

ACTION TO BE TAKEN Use Frank Darcey, Chief of Maintenance, as contact ?? Also ... only want to do this if use is same as we claimed!

COPIES TO:

01-13-1988: report of telephone conversation: any info. available on the well will be sent our way

REPORT OF TELEPHONE CONVERSATION

DATE 1/13/88 TIME 2:00 AM/PM

PROJECT Arches Well #1

NPS PERSON ON CALL: Beth Voelkel ☐ I CALLED ☐ S/HE CALLED

PERSON Chief of Maintenance, Frank Darcy

ORGANIZATION ARCH

ADDRESS

TELEPHONE NO. (801) 259 - 8161 EXT.

SUBJECTS DISCUSSED The Superintendent is out of town so I spoke with the Chief of Maintenance. I explained that we'd filed for extension of time and wanted to let them know. He said he'd send us copies of the water use info on the well and try to get a map together showing the exact location. He'll also give us any other details he can locate on the well — he's only been at Arches three days so it might take a bit to get all of it together.

ACTION TO BE TAKEN

COPIES TO:

01-11-1988: report of telephone conversation: suggestion to file immediately for an extension of time

REPORT OF TELEPHONE CONVERSATION

DATE 1/11/88 TIME 3:30 AM/(PM)

PROJECT ARCH Well #1 (Docket #7)

NPS PERSON ON CALL: Beth Voelkel ☒ I CALLED ☐ S/HE CALLED

PERSON Ron Hermance

ORGANIZATION Rocky Mountain Regional Office

ADDRESS

TELEPHONE NO. 969 - 2654 EXT.

SUBJECTS DISCUSSED He suggest that we file immediately for an extension of time. It appears that the well is now in use ~~the~~ but we'll need to get records of water use in order to submit prog. He suggests we contact Superintendent Harvey Witwer and explain the issue. Then contact whomever the supt. suggests (probably the chief of maintenance) for the information.

Go ahead and send appl. for extension of time under our signature and cc the Park and Ron Hermance.

ACTION TO BE TAKEN

COPIES TO:

12-31-1987: letter to nps from state of utah regarding records indicate that proof has not been made on application no. 01-166(a57

37

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER RIGHTS

Rocky Mountain
Regional Office

JAN 6'88

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Robert L. Morgan
State Engineer

1636 West North Temple, Suite 220
Salt Lake City, Utah 84116-3156
801-~~538-7240~~ 533-6071

December 31, 1987

Initial & Date

Regional Director
Deputy Reg. Director
Administration
Park Operations MP
Plan. & Resource Pres.
Communications & P.A.
Field
Action Taken

USA National Park Service
P.O. Box 25287
Denver, CO 80225

JAN 06 REC'D

Dear Applicant:

RE: Application No. 01-166 (A57272)
PROOF-DUE DATE: February 28, 1988

To appropriate water in Utah, or to change the point of diversion, place and nature of use of water, you must make application, receive approval, complete the intended development work and submit proof that the water has been put to beneficial use. Our records indicate that you have not made proof on your application. This is due on February 28, 1988.

In those areas in which general adjudication proceedings are pending and elections are authorized, the applicant can either:

1. Submit a satisfactory proof of appropriation;
   or
2. Elect to file a statement of water user's claim in lieu of proof of appropriation;
   or
3. Request an extension of time.

Failure to complete one of the above three actions on or before the proof-due date shall cause the application to LAPSE.

If development is not complete, additional time may be allowed by completing the enclosed request for extension of time and submitting it in affidavit form on or before the proof-due date. Submission of a request for extension of time does not assure that it will be granted. Extensions of time are granted only after the applicant has made a showing of diligence before the State Engineer. Also enclosed is an election to file a water user's claim form for submission in lieu of proof for submission if the project is complete.

Your contact with this office, should you need it, is with the Area Engineer, Mark Page. The telephone number is (801)637-1303.

Yours truly,

Robert L. Morgan

Robert L. Morgan, P.E.
State Engineer

Enclosure: Forms 29 & 152
Certified Mail No. 0251000 CF/RMRO Mailroom

PROOF DUE

an equal opportunity employer

10-16-1979: memorandum to regional director from acting superintendent regarding well drillers log; pump test data; chemical ana

Rocky Mountain
Regional Office

United States Department of the Interior

OCT 1 '79

NATIONAL PARK SERVICE
ARCHES AND CANYONLANDS NATIONAL PARKS
NATURAL BRIDGES NATIONAL MONUMENT
MOAB, UTAH 84532

IN REPLY REFER TO:
D5039

October 16, 1979

Regional Director	
Deputy Reg. Director	
Administration	
Park Operations MW	
Plan & Resource Pres.	
Executive Assistant	
Communications & P.A.	
EEO	
Action Taken	

Memorandum

To: Regional Director, Rocky Mountain Region

Attention: William L. Mekeel, Water Resources

From: Acting Superintendent, Canyonlands

Subject: Well drillers log; pump test data; chemical analysis

In checking the water analysis for the test well drilled at the Headquarters area in Arches N. P., we note the Lead concentrate is high and the Iron is low. This differs with the results of the existing well at Arches Headquarters. Is it possible that the figures have been interchanged?

With regard to Contract CX-1200-9-3007 for drilling the test well at Natural Bridges N. M., we have never received any well driller's data or chemical analysis. Could you please furnish us with a copy for our records.

John C. Urbanek

John C. Urbanek

09-28-1979: memorandum to regional director from superintendent regarding statement of water user's claim no. 13619 (01-25); s

Rocky Mountain
Regional Office

OCT 02'79

United States Department of the Interior

NATIONAL PARK SERVICE
ARCHES AND CANYONLANDS NATIONAL PARKS
NATURAL BRIDGES NATIONAL MONUMENT
MOAB, UTAH 84532

IN REPLY REFER TO:
D5039

September 28, 1979

Regional Director	
Deputy Reg. Director	
Administration	
Park Operations	MG
Plan & Resource Pres.	
Executive Assistant	
Communications & P.A.	
EEO	
Action Taken	

Memorandum

To: Regional Director, Rocky Mountain Region

Attention: Water Rights

From: Superintendent, Canyonlands

Subject: Statement of water user's claim No. 13619 (01-25)

Enclosed is a letter from the Utah Division of Water Rights with a partially filled out User's Claim and also a letter stating we are pumping a volume of water greater than our approved rights.

In checking through our files we are unable to determine where some of the data came from and have other questions. Therefore, we have filled in those items that seem in error or need additional explanation (see attached).

In regard to the claim of our exceeding the use of .088 second-feet of water, we feel this is in error. According to our calculations, .088 second-feet of water figures out to be approximately 39.5 gallons per minute. The present pump which has been in the well since 1968 can only pump at approximately 19 gallons per minute. At this rate we are able, during the peak summer use, to keep up with the demand by pumping 16 to 18 hours per day. In 1978, Arches visitation was 326,948 and we were using less than half our approved .088 second-feet of water. Therefore, we feel that this amount will be sufficient for the foreseeable future and do not see the need to apply for any additional water.

X 38.3 gpm

Another question we had was about the new well drilled at Arches last year. Was a water claim ever filed for it? We have no record in our files and wonder if this might be a reason for some of the misunderstanding.

X

In any event we hope it can all be straightened out and we will be available for what help we can give.

Peter L. Parry

Peter L. Parry

Enclosures

01-18-1973: letter to state engineer, utah from supervisory hydraulic engineer regarding enclosed forms for requesting extensions

17 1/23/73

Arches 1

RECEIVED
NATIONAL PARK SERVICE
WASHINGTON AREA OFFICE
JAN 22 9 16 AM '73

1/23

L54(MWR)PSW
CANY/WR#1,2,3
ARCH/WR#1

P N

January 18, 1973

1. Reed

2. Bentz

Hubert C. Lambert
State Engineer
442 State Capitol
Salt Lake City, Utah 84114

Dear Mr. Lambert:

In reply to your letters of December 29, 1972, enclosed are your forms 29 requesting an Extension of Time for Application Nos. 36771, 37065 and 37391. Also enclosed is your form 152 showing beneficial use of Water Application No. 13619 and 37064.

Sincerely yours,

(Sgd.) Richard W. Ketcham

Richard W. Ketcham
Supervisory Hydraulic Engineer

Enclosures (5)

cc:
WASO-PN w/enc(6)*
Supt., CANY w/enc(5)*
Supt., ARCH w/enc(1)*
Utah State Director

*Please file in the Water Right Docket indicated on the upper right corner of each enclosure.

12-29-1972: letter to nps from state of utah regarding records indicate proof has not been made on application 13619 (01-25)

Form 38

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

442 STATE CAPITOL
SALT LAKE CITY, UTAH 84114

DIVISION OF WATER RIGHTS

HUBERT C. LAMBERT
STATE ENGINEER

December 29, 1972

Arches

National Park Service
1709 Jackson Street
Omaha, Nebraska 68102

Gentlemen:

Re: Application No. 13619 (01-25)

To appropriate water in Utah or to change the point of diversion, place, and nature of use of water, you must make application, receive approval, complete the intended development work, and submit proof that the water has been put to beneficial use. Our records indicate that you have not made proof on your application. This is due **February 28, 1973.**

In those areas in which general adjudication proceedings are pending and elections are authorized, the applicant can either:

1. Submit a satisfactory proof of appropriation.
   or
2. Elect to file a statement of water user's claim in lieu of proof of appropriation.
   or
3. Request an extension of time.

Failure to complete one of the above three actions on or before the proof-due date shall cause the application to lapse.

If development is not complete, additional time may be allowed by completing the enclosed request for extension of time and submitting it in affidavit form on or before the proof-due date. Since fourteen years or more have passed since approval of the application, your request for extension of time can only be granted after publication of notice of such request and a hearing before the State Engineer. The fee for filing this request is $25. Also enclosed is an election to file a water user's claim in lieu of proof for submission if the project is complete.

Yours truly,

Hubert C. Lambert

Hubert C. Lambert, State Engineer

jh
Encs. Forms 30 & 152

Registered Mail

PROOF DUE-ADV. REQ.

08-05-1970: memorandum to nps director from chief, water resources section regarding extension of time, application 13619; offic

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WESTERN SERVICE CENTER
450 GOLDEN GATE AVENUE, BOX 36025
SAN FRANCISCO, CALIFORNIA 94102

IN REPLY REFER TO:

L54(WSC)LWW
ARCH/WR Docket #1
MW

August 5, 1970

Memorandum

To: Director, National Park Service
Attention: Chief, Division of Water Resources

From: Chief, Water Resources Section, Office of Land Acquisition and Water Resources, WSC

Subject: Extension of Time, Application No. 13619 (01-25), Water Right Docket No. 1 - Arches

Enclosed for your information and docket files is copy of a letter from Mr. William Mekeel, concerning his attendance at the hearing in Moab, Utah, in regard to the subject water right application.

At this time, this office has programmed the drilling of a test well for F. Y. 1972 at Arches. This should allow the Service enought time to make the necessary changes in the water system, establish volume requirements of the area and make proof of beneficial use, as indicated in Mr. Mekeel's letter.

By copy of this memorandum, a copy of Mr. Mekeel's letter is also being sent to the park for their water docket files.

Gerard S. Witucki

Enclosure / Retained in Div. of Water Res. Filed in Dockets

cc:
Director, Southwest Region w/enc
Superintendent, Canyonlands w/enc
Mr. Mekeel, Rocky Mountain

ARCH

07-16-1970: memorandum to nps director from chief, water resources section regarding extension of time request - there shouldn't

434 - 7-21-70
A. R. Copy

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

WESTERN SERVICE CENTER
450 GOLDEN GATE AVENUE, BOX 36025
SAN FRANCISCO, CALIFORNIA 94102

RECEIVED
NATIONAL PARK SERVICE
JUL 20 9 57 AM '70
Read 7/29

IN REPLY REFER TO:
L54(WSC)LWW
ARCH
(WR Docket No. 1)

July 16, 1970

MW

Memorandum

To: Director, National Park Service
Attention: Chief, Division of Water Resources

From: Chief, Water Resources Section, Office of Land Acquisition and Water Resources, WSC

Subject: Extension of Time Request, Application No. 13619(01-25), Water Right Docket No. 1, Arches

Enclosed for your information and docket files is a copy of a letter from the Utah State Engineer's office concerning the subject water right. Mr. William Mekeel attended the meeting in Moab, Utah, and he has indicated that there should be no problem in obtaining the extension of time.

By copy of this memorandum a copy of this letter is also being sent to the park for their water docket files.

Gerard S. Witucki

Gerard S. Witucki

Enclosure ρ Filed

cc:
Director, Southwest Region
Superintendent, Canyonlands w/enc
Mr. Meleel, Rocky Mountain

06-04-1970: letter to nps from state of utah regarding notification of a meeting about application 13619

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
442 STATE CAPITOL
SALT LAKE CITY, UTAH 84114

DIVISION OF
WATER RIGHTS

HUBERT C. LAMBERT
STATE ENGINEER

Form 25

June 4, 1970

Refer to: L54 (WSC) LWW
ARCH
(WR Docket #1)

United States National Park Service
Western Service Center
Water Resources Secretary
Office of Land Acquisition and Water Resources
450 Golden Gate Avenue
P.O. Box 36025
San Francisco, California 94102

Gentlemen: Re: Appl. No. 13619 (01-25)

This is to notify you of a meeting to be held on the above-numbered application at 9:00 A.M. Wednesday, June 17, 1970 in the County Courthouse, Moab, Utah.

The applicant or his representative must attend this meeting, be prepared to show what work has been completed to date, justify the extension requested, and answer any protests. Please calendar this date for your future attention.

Yours truly,

Earl M. Staker

Earl M. Staker
Directing Appropriations Engineer

jl

Rec'd w/memo to Adds from Shiraki 7/16/70

02-16-1970: memorandum to director from chief, water resources section regarding arrangements will be made to have a represer

97-2-20-78

A. R. Copy.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WESTERN SERVICE CENTER
450 GOLDEN GATE AVENUE, BOX 36025
SAN FRANCISCO, CALIFORNIA 94102

RECEIVED
NATIONAL PARK SERVICE
WASHINGTON OFFICE
FEB 19 8 42 AM '70

IN REPLY REFER TO:
L54(WSC)LWW
ARCH/WR Dkt. No. 1
MW

February 16, 1970

Memorandum

To: Director
Attention: Chief, Division of Water Resources

From: Chief, Water Resources Section, Office of Land Acquisition and Water Resources, WSC

Subject: Extension of Time, Application No. 13619 (01-25), water right docket No. 1, Arches

Enclosed are copies of materials pertinent to the subject water right. Upon notification of a hearing date, we will make arrangements to have a representative attend the hearing.

By copy of this memorandum, copies of these materials are also being sent to the park for their water docket files.

Gerard S. Witucki
Gerard S. Witucki

Enclosure W file

cc:
Regional Director, Southwest w/enc
Superintendent, Canyonlands w/enc
Mr. Mekeel, Rocky Mountain w/enc

DIVISION OF WATER RESOURCES

ACT.	INFO.	NAME	INIT.	DATE
		MORRIS, M.	L	
		KARBAN, J.	Please	
		GEBBIA, M.	file	
		REED, E.		
		~~BERTE, V.~~	MM	in
		CALCAMP, L.		Docket

02-11-1970: letter to utah state engineer from chief, water resources section regarding enclosed request for extension of time for a

L54(WSC)LWW
ARCH
(WR Docket #1)

February 11, 1970

Utah State Engineer
Department of Natural Resources
442 State Capitol
Salt Lake City, Utah 84114

Gentlemen:

In reply to your December 30, 1969, letter, enclosed is a request for Extension of Time for Application No. 13619 (01-25), for a well at Arches National Monument. A check for $25.00 from the U.S. Treasury Department for the publication of "Notice to Water Users" will be forwarded under separate cover.

Sincerely yours,

(SGD) GERARD S. WITUCKI

Gerard S. Witucki
Chief, Water Resources Section,
Office of Land Acquisition and
Water Resources, WSC

Enclosure

cc:
Chief, Division of Water Resources, WASO
Regional Director, Southwest
Superintendent, Canyonlands

Rec'd w/ memo to Dir from Witucki, WSC
dated Feb 16, 1970

07-13-1967: memorandum to assistant director from supervisory hydraulic engineer regarding enclosed for filing are the notice of t

W.R. Copy.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

SAN FRANCISCO PLANNING AND SERVICE CENTER
450 GOLDEN GATE AVENUE, BOX 36025
SAN FRANCISCO, CALIFORNIA 94102

IN REPLY REFER TO:

L54 LWSSC

July 13, 1967

Memorandum

To: Assistant Director, Operations - WASO
Attention: Chief, Branch of Water Resources

From: Supervisory Hydraulic Engineer

Subject: Material for Water Rights Docket #1 -- Arches National Monument and Natural Bridges National Monument

Enclosed for filing in your dockets are copies of the notice of the meeting for extension of time, the extension granted statement and some correspondence for the following dockets:

Application No.	Park	Docket No.
13619 (01-25)	Arches National Monument	1
36575 (99-38)	Natural Bridges National Monument	1

William E. Ellis
William E. Ellis

Enclosures

09-26-1966: memorandum to superintendent from supervisory hydraulic engineer regarding docket no. 1 was reviewed, revisions

323-9/29/66

SAN FRANCISCO PLANNING AND SERVICE CENTER
Office of Land and Water Rights
450 Golden Gate Avenue, Box 36063
San Francisco, California 94102
September 26, 1966

L54 LWSSC

S
SLW
Rec'd
EMV
9/28
Carriaged.

Memorandum

To: Superintendent, Canyonlands

From: Supervisory Hydraulic Engineer

Subject: Headquarters Water system, Water Rights Docket #1, Arches

A complete review has been made of the subject docket. We have made several revisions and altered the contents so that they follow an order that we feel will make the docket easier to use.

Enclosed is a new jacket to which the contents of your present docket should be transferred. Each section has its own table of contents under which the appropriate materials from your docket should be placed. We are also including several items which may be missing from your present docket. The reduced-scale plans should be substituted for the large-scale drawings which may be discarded. Material in your present docket not listed in the section indices should be removed. We find it convenient to place these on the left-hand side where we have filed all correspondence relating to this water right.

Any item in the indices not in your files will be furnished upon request. We would also appreciate your bringing to our attention any item which you feel is important and is not listed in the indices. We can also furnish copies of correspondence from the correspondence section of our docket.

Manuel Morris

CANY

Enclosures

cc:
Chief, Branch of Water Resources, w/encs.

09-15-1966: memorandum to supervisory hydraulic engineer from hydraulic engineer regarding enclosed copy of request for exten

W.R. Copy.

SAN FRANCISCO PLANNING AND SERVICE CENTER
Office of Land and Water Rights
P. O. Box 728
Santa Fe, New Mexico
87501

L54-LWSSC

SEP 16 1966

Memorandum

To: Supervisory Hydraulic Engineer, SSC

From: Hydraulic Engineer, SSC, Santa Fe

Subject: Request For Extension of Time, Headquarters Area, Application 13619, Arches

Enclosed is a copy of the Request for Extension of Time which was mailed to the State Engineer of Utah this date.

There is also enclosed a copy of the letter of transmittal.

We have placed copies of these items in Docket No. 1 and by copies of this memorandum are sending them to the Chief, Water Resources Division, WASO, and the Superintendent, Canyonlands, for insertion in their docket.

WILLIAM E. FIELDS

William E. Fields

Enclosures

cc: Chief, Water Resources Division, WASO, w/enc.
Superintendent, Canyonlands, w/enc.

ARCHES DOCKET #1, NARRATIVE STATEMENT

The water system at Arches Monument headquarters is a well on which proof of appropriation is yet to be made.

Arches has received several extensions of time for making proof. Under Utah law, after fourteen years a hearing is necessary to get proof extensions. The most recent extension, which expired Feb. 28, 1966, is the result of such a hearing. Although Feb. 28, 1966 has passed without further action, the Headquarters water right has not been forfeited, since the Utah State Engineers office assumes the responsibility of notifying appropriators when proof is due. Notice was not sent on time in this case, and the matter is now being rectified.

The well originally applied for is no longer being used. It has been replaced by a more efficient well which was drilled within 150 feet of the original well.

In such a situation, Utah law treats both wells as one for most purposes, even though a new application number is assigned.

A proposal to hold the old well open for use as an observation well was approved. However, it did not prove satisfactory for this purpose.

By Daniel Blum
LW SSC
July, 1966

203-7-26-66

SAN FRANCISCO PLANNING AND SERVICE CENTER
Office of Land and Water Rights
P. O. Box 728
L54 Santa Fe, New Mexico
87501

JUL 2 1, 1966

Memorandum

To: Supervisory Hydraulic Engineer, SSC

From: Hydraulic Engineer, SSC, Santa Fe

Subject: Water Right Docket No. 1, Arches

This is in answer to your memorandum of June 30 on the above subject. I will answer the questions in the same order as they appear in the memorandum.

Application No. 13619 and 4056 are the same file. Both numbers are now applicable to the same water right.

The State of Utah usually sends prior notification to the water right owner when some action is necessary. A telephone call to the State Engineer's office indicates that Proof or an Extension of Time should have been made on February 28, 1966. Their records show that no notification was sent to our office and they admit to an oversight. Mr. Don Stuart, Appropriations Engineer, will send us, for the record, a Notification That Proof Is Due or that an Extension of Time will have to be requested. Ordinarily I would be prepared to make Proof of Beneficial Use, however, Maintenance Construction Engineer Ronald Cotten telephoned me on July 15 and indicated some trouble in the Headquarters Well. He is now checking as to the source of the trouble and if, as suspected, it is a decline in the water table because of the serious drouth then I will request an Extension of Time for this reason. If the well is alright and it is a maintenance matter then I will proceed with Proof of Beneficial Use.

It is possible to deal directly with the State Engineer and they will bill our office in San Francisco.

The following information is submitted as requested:

1. Copy of a letter dated October 14, 1947 granting an Extension of Time for the period December 15, 1947 to December 15, 1949.

2. Our records indicate that Mr. John Kell forwarded the report "Drilling and Test Pumping of Your Replacement Well at Arches National Monument, Grand County, Utah", written by Don Price to the Director on July 22, 1959. The transmittal letter indicates that Superintendent Wilson was mailed two copies and that two copies were sent to the Washington office; one to WODC and one copy retained for Region 3 (now the Southwest Region). As all other items of correspondence previous to 1962, our copy of this report is obviously in the dead files in Denver. I have requested the return of this file.

3. We are attaching a copy of a Pictoral Well Log, NM-ARC-7111 and a drawing, No. NM-ARC-7116. These were transmitted for insertion in the Docket on May 14, 1965. My copy of this memorandum we are sending these items to the Director and the Superintendent, Canyonlands, for placement in their Docket in the event they were not received.

In checking over the old files I have discovered several additional items which should be in the docket. Enclosed for insertion in your docket are the following items:

1. Copy of the Ben E. Lofgren and Lorenzo Demara report dated March 22, 1954.

2. Copy of a pump test on Replacement Well dated December 20, 1958. Along with NOTES PERTAINING TO THE REPLACEMENT WELL AT ARCHES NATIONAL MONUMENT DRILLED - NOV. - DEC., 1958.

3. A copy of Form 112, Application To Repair, Clean, Deepen, Or Replace An Existing Well, No. 4056, dated October 1, 1958.

4. Letter from the State Engineer dated October 6, 1958, granting this request.

By copy of this memorandum we are sending these items to the Director and the Superintendent, Canyonlands, for insertion in their dockets.

WILLIAM E. FIELDS

William E. Fields

Enclosures → Filed.

cc: Director, w/encs.
Regional Director, SWR, w/o encs.
Superintendent, Canyonlands, w/encs.

07-21-1966: memorandum to supervisory hydraulic engineer from hydraulic engineer regarding copy of previous memo

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
SAN FRANCISCO PLANNING AND SERVICE CENTER
Office of Land and Water Rights
P. O. Box 728
Santa Fe, New Mexico
87501

NATIONAL PARK SERVICE 1916 1966 50TH ANNIVERSARY

Rec'd 7/25/66

IN REPLY REFER TO:
L54

JUL 21 1966

Memorandum

To: Supervisory Hydraulic Engineer, SSC

From: Hydraulic Engineer, SSC, Santa Fe

Subject: Water Right Docket No. 1, Arches

This is in answer to your memorandum of June 30 on the above subject. I will answer the questions in the same order as they appear in the memorandum.

Application No. 13619 and 4056 are the same file. Both numbers are now applicable to the same water right.

The State of Utah usually sends prior notification to the water right owner when some action is necessary. A telephone call to the State Engineer's office indicates that Proof or an Extension of Time should have been made on February 28, 1966. Their records show that no notification was sent to our office and they admit to an oversight. Mr. Don Stuart, Appropriations Engineer, will send us, for the record, a Notification That Proof Is Due or that an Extension of Time will have to be requested. Ordinarily I would be prepared to make Proof of Beneficial Use, however, Maintenance Construction Engineer Ronald Cotten telephoned me on July 15 and indicated some trouble in the Headquarters Well. He is now checking as to the source of the trouble and if, as suspected, it is a decline in the water table because of the serious drouth then I will request an Extension of Time for this reason. If the well is alright and it is a maintenance matter then I will proceed with Proof of Beneficial Use.

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The following information is submitted as requested:

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2. Our records indicate that Mr. John Kell forwarded the report "Drilling and Test Pumping of Your Replacement Well at Arches National Monument, Grand County, Utah", written by Don Price to the Director on July 22, 1959. The transmittal letter indicates that Superintendent Wilson was mailed two copies and that two copies were sent to the Washington office; one to WODC and one copy retained for Region 3 (now the Southwest Region). As all other items of correspondence previous to 1962, our copy of this report is obviously in the dead files in Denver. I have requested the return of this file.

3. We are attaching a copy of a Pictoral Well Log, NM-ARC-7111 and a drawing, No. NM-ARC-7116. These were transmitted for insertion in the Docket on May 14, 1965. By copy of this memorandum we are sending these items to the Director and the Superintendent, Canyonlands, for placement in their Docket in the event they were not received.

In checking over the old files I have discovered several additional items which should be in the docket. Enclosed for insertion in your docket are the following items:

1. Copy of the Ben E. Lofgren and Lorenzo Demars report dated March 22, 1954. Not appl.

2. Copy of a pump test on Replacement Well dated December 20, 1958. Along with NOTES PERTAINING TO THE REPLACEMENT WELL AT ARCHES NATIONAL MONUMENT DRILLED - NOV. - DEC., 1958.

3. A copy of Form 112, Application To Repair, Clean, Deepen, Or Replace An Existing Well, No. 4056, dated October 1, 1958. X

4. Letter from the State Engineer dated October 6, 1958, granting this request.

By copy of this memorandum we are sending these items to the Director and the Superintendent, Canyonlands, for insertion in their dockets.

William E. Fields
William E. Fields

Enclosures

cc: Director, w/encs.
Regional Director, SWR, w/o encs.
Superintendent, Canyonlands, w/encs.

WASO

SAN FRANCISCO PLANNING AND SERVICE CENTER
Office of Land and Water Rights
450 Golden Gate Avenue, Box 36063
San Francisco, California 94102
June 30, 1966

L54 LWSSC

Memorandum

To: Hydraulic Engineer, Santa Fe

From: Supervisory Hydraulic Engineer, L&W, SSC

Subject: Water rights docket No. 1 - Arches

Please clarify status of Application Nos. 13619 and 4056 in this docket. Application No. 13619 had an expiration date of February 28, 1966. Presumably this date also applies to No. 4056, for the correspondence indicates the two applications are considered as the same filing. Are we correct in assuming that an extension of time is now needed--or has proof already been made?

If fees are required for the extension or certification, submit your correspondence through this office and we shall enclose the payments. If possible, deal directly with the State Engineer, without prepayment, and ask him to bill this office for any charges.

Please furnish the following information to complete docket No. 1:

1. A letter dated October 14, 1947, from State Engineer Ed H. Watson to A. Van V. Dunn, indicates an extension was granted for the period December 15, 1947, to December 15, 1950. A copy of the order does not appear in our docket.

2. A USGS open-file report entitled Memorandum Summarizing the Drilling and Test Pumping of Replacement Well at Arches National Monument, Grand County, Utah, by Don Price, would be a good addition to the docket.

3. The pictoral well log NM-ARC-7111 and a drawing NM-ARC-7116 are referred to in the Director's memorandum of May 14, 1965 to Assistant Regional Director, Operations, Southwest Region. These are missing from our docket.

If you prefer, send materials to us for copying.

ARCH

(Sgd) MANUEL MORRIS

Manuel Morris

cc: Regional Director, SW
Chief, Branch of Water Resources, WASO

cc: Supt., Arches

05-14-1965: memorandum to director from assistant regional director regarding enclosed pictorial well log and a drawing for insert

283-5-17-65
FOR
GEWR

Southwest Region
Santa Fe, New Mexico
87501

L54

5/14/65

Memorandum

To: Director

From: Assistant Regional Director, Operations

Subject: Docket material, Docket No. 1, Arches National Monument

We are enclosing a pictorial Well Log, NM-ARC-7111 and a Drawing No. NM-ARC-7116 for insertion in your Docket No. 1. These items are relative to the Headquarters Well and Headquarters Water System at Arches National Monument. We have also removed Drawing No. NM-ARC-5315, Sheets 1 and 2, from this docket and inserted them in Docket No. 5.

By copies of this memorandum we are sending these items to Chief, WODC and Superintendent, Canyonlands for insertion in their docket and are requesting them to remove Drawing No. NM-ARC-5315 from Docket No. 1 and place it in Docket No. 5.

George W. Miller

In duplicate

Enclosures filed

cc: Chief, WODC (2)
w/encs.
Superintendent, Canyonlands
w/encs.

08-16-1963: letter to nps from state of utah regarding suggestion to use about equal portions of cement and betonite; application 1

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

August 16, 1963

WAYNE D. CRIDDLE
STATE ENGINEER

RECEIVED
NPS SOUTHWEST REGIONAL OFFICE
AUG 20 19
Surname | Date
Regional Director
Cons., Interp & Use
Administration
Resource Planning
Public Affairs
Program Coord.
Operations
Concessions
Natural History
Hist & Archaeology
Ranger Services

WR# 1

Mr. John E. Kell
Acting Assistant Regional Director
Resource Planning
U. S. Department of The Interior
National Park Service
Southwest Region
Santa Fe, New Mexico

Re: Application 13619

Dear Mr. Kell:

Thank you for your letter of July 31, seeking our concurrence in the grouting of the "old well" constructed under Application 13619.

We have no formal specifications that apply to this type of work. Because of the closeness of the two wells and the likelihood of some shrinkage when a plain cement grout sets up, we would suggest that you consider using about equal portions of cement and bentonite. A determination of the volume of material required to fill the open portion of the casing and a check on the amount of grout placed in the well will reveal whether or not any "bridging" has occurred when the grout is put in place. If care is taken in placing the grout by gravity, the use of pressure equipment should not be necessary.

Very truly yours,

Francis T. Mayo

Francis T. Mayo, Chief
Water Resources Branch

FTM:bm

CC: Ted Arnow

L54 Arch

07-31-1968: letter to utah state engineer regarding no indication of water in the well; the well will no longer serve the purpose agre

Arches

W R copy
8/7/68

Southwest Region
Santa Fe, New Mexico

L54
ARCH
XD5039

JUL 31 1968

Mr. Hubert C. Lambert
State Engineer
State Capitol Building
Salt Lake City, Utah

Attention: Francis T. Mayo

Dear Mr. Lambert:

On October 17, 1958 Acting Regional Director Harthon L. Bill wrote to your office regarding the drilling of a replacement well at the Headquarters Area Arches National Monument. This is application No. 13619 and we received a reply to Mr. Bill's letter written by Chief, Water Resources Branch, Francis T. Mayo dated October 22, 1958.

At that time through an exchange of correspondence and discussion with Messers. Waite and Marine of the U.S. Geological Survey an agreement was reached whereby the old well, inside the CCC Building, at Arches National Monument was not to be sealed and was to be kept with a locked cover and used as an observation well.

When the replacement well was drilled the driller lost circulation at a depth of about 90 feet. In order to restore circulation a large quantity of foreign material was introduced into the well with the result that the former well (designated as the "old well") and the one we proposed to use as an observation well was sealed off.

Recently Superintendent Bates E. Wilson, removed the cover, sounded the well with an electric probe and was unable to get any reading or indication that there was water in the well. Therefore, it appears that the well will no longer serve the purpose agreed upon between our various offices in 1958.

Eventually we expect to remove the old CCC Building that houses the "old well". When this has been accomplished it will be desirable to regrade the surrounding area to lead surface water away from the pumphouse housing the replacement well.

07-31-1968: letter to utah state engineer regarding no indication of water in the well; the well will no longer serve the purpose agre

It would be our proposal to fill the "old well' with a cement grout mixture from the bottom to the top of the land surface. When this has been accomplished, the casing would then be cut off flush with the ground and the entire area regraded.

Before we proceed we would like your formal concurrence and if you have specifications for filling of abandoned bores or recommendations for improvements in the above plan which we have suggested, we would appreciate your comments.

We are sending a copy of this correspondence to our U. S. Public Health Representative, Curtis E. Richey in San Francisco for his comments.

Sincerely,

(SIGNED)

John E. Kell
Acting Assistant Regional Director,
Resource Planning

cc: Mr. Richey, WODC
Director (2)
Superintendent, Arches

07-31-1963: letter to utah state engineer; copy of previous letter

W O D C
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ARCH

Southwest Region
Santa Fe, New Mexico

JUL 31 1963

Mr. Hubert C. Lambert
State Engineer
State Capitol Building
Salt Lake City, Utah

Attention: Francis T. Mayo

Dear Mr. Lambert:

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We are sending a copy of this correspondence to our U. S. Public Health Representative, Curtis E. Richey in San Francisco for his comments.

Sincerely,

(SIGNED)

John E. Kell
Acting Assistant Regional Director,
Resource Planning

cc: Mr. Richey, WODC

07-24-1963: memorandum to regional director from superintendent regarding recommendation that the old well be plugged perma

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Arches-Natural Bridges National Monuments
Moab, Utah

IN REPLY REFER TO:

L 54

July 24, 1963

WR#1

RECEIVED
NPS SOUTHWEST REGIONAL OFFICE
JUL 29 1963

	Initials	Date
Regional Director		
Cons., Interp & Use		
Administration		
Resource Planning		
Public Affairs		
Program Coord.		
Operations		
Concessions		
Natural History		
Hist & Archeology		
Ranger Services		

Memorandum

To: Regional Director

From: Superintendent

Subject: Plugging Old Headquarters Well - Arches

During the drilling of the new Headquarters Well a great deal of lost-circulation material was used which resulted in sealing off the flow of water to the old well, located about twenty feet to the east.

The USGS wished to use this old well to check water levels but it is now a dry hole and of no use for this purpose.

The casing has been capped with a removable metal plate and a ½" rubber gasket. We will soon be removing the building in which it is housed and landscaping the site.

I recommend that the old well be plugged permanently in such a way that there will be no danger of polution of the new well.

If this meets with your approval I would appreciate any suggestions as to the best way in which to accomplish the job.

Bates E. Wilson
Superintendent

Copy to: Chief WODC

L 54 Arch

03-04-1963: memorandum to assistant regional director from civil engineer regarding trip to pump test headquarters well, arch

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Southwest Region
Santa Fe, New Mexico

IN REPLY REFER TO:
L54 WR#1

MAR 4 1963

Memorandum

To: Assistant Regional Director, Resource Planning

From: Civil Engineer

Subject: Trip to Pump Test Headquarters Well, Arches National Monument

I departed from Santa Fe at 7:55 a.m., February 25 en route to Arches National Monument at the request of Superintendent Wilson. The purpose for my trip was to pump test the headquarters well at the Monument.

I first went by way of Albuquerque to take a gallon jar of water to the U. S. Geological Survey Quality Water Branch for chemical analysis. I arrived in Albuquerque at 9:00 a.m. and spent some time with Mr. Stow, the district chemist, discussing the analysis at the various parks and monuments which they are in the process of making this fiscal year. I left Albuquerque at 10:45 a.m. and arrived at Moab, Utah at 8:15 p.m. The following morning I arrived at Arches National Monument at 7:30 a.m. and reported to Superintendent Wilson.

The pump on the headquarters well had been removed and sent to Salt Lake City for repair the week before and during the week prior to my arrival the contractor had a well rig at the well and had been cleaning, surging and bailing. Great amounts of juniper bark, cottonseed hulls, etc. had been pulled from the well and when the pump was returned they found that there was no need of repair on the pump, that the only requirement had been to clean this material from the intake line.

The pump is a Pomona pump of the turbo type made by Fairbanks Morse and Company and has 3½" bowls with cup impellers and 14 stages. It is powered by a 5 hp motor. We set the impeller cups at a minimum discharge and started pumping. The static head at the beginning of the pump test was 89.3'. We calculated the discharge at the top of the ground to be 32 gpm. At 10:01 a.m., February 26, I started the pump test, took drawdown readings and

copy A5427 Arch

L54 Arch

the maximum drawdown at an average of 31.5 gpm was reached at 6:00 a.m., February 27.

I then pumped until noon and the drawdown remained stable at a depth of 103.1 feet below the top of the casing. This is 11.9' above the suction intake of the pump. I started recovery readings and within two hours the well had recovered 7 feet. I continued recovery readings throughout the night and the following day and a static head of 89.7' was reached at 1:30 p.m., February 28. Based on the above information I informed Superintendent Wilson that this well will pump 30 gpm for an extended period of time.

The present system which includes the large 50,000-gallon storage tank, is inoperative because of a broken main line. This break was caused by severe freezing during the month of January and they are now in the process of replacing the broken pipes. Temporarily they have been hailing water from Moab and placing it in the old system, which is still being utilized. I recommended that they tie this present well into the old system and use it until such time as their new system is repaired. When I left on Thursday afternoon they were in the process of making this tie.

Since there was no damage to the pump I recommended that they set the pump at as high a rate of discharge as they can get and continue using it without any remodelling. My calculations show that the present pump should pump at least 20 gpm into the large storage reservoir and this should be sufficient for many years. At such time as it becomes necessary to increase the flow of water to the tank this can be done merely by replacing the bowls in the present pump and utilizing the same motor.

I don't think that the water use at Arches has been as high as they had thought. Although our original pump test showed a production of 12 gpm I think that the debris inside the suction pump has limited this amount to 4 to 6 gpm for at least the past year and I feel that 20 gpm in the storage reservoir will be more than ample even during the heavy visitation season, at least for the present.

I departed from Arches at 2:30 p.m., February 28 and drove as far as Bloomfield, New Mexico, arriving there at 7:15 p.m. The following morning I left Bloomfield at 9:10 a.m. and arrived in Santa Fe at 3:15 p.m.

William E. Fields
William E. Fields

cc: Chief, WODC (2)
Assistant Regional Director G. Miller
Assistant Regional Director Carpenter
Regional Chief of Lands
T. Moran

08-06-1962: memorandum to regional director from chief, water resources regarding get a drilling permit so we can drill until a sati

WRL 1/29

August 6, 1962

L54-WL

Memorandum

To: Regional Director, Southwest Region

From: Chief, Branch of Water Resources

Subject: Application 34321, Arches National Monument

Although we have not been attempting to keep up with the detailed water right procedure in Washington, the letter of July 30 to the State Engineer from Mr. Carpenter seems to make a needlessly complex problem of the well drilling.

Application 34321 is for the appropriation of the water, and not for the permit to drill. It seems probable that any number of wells can be drilled, and without amendment of the right until a satisfactory well is obtained.

Sec 73-3-25, page 33 of our 1953 condensed code, indicates that a drilling permit is also needed, but our Docket 5 contains no copy of such an application or permit. The driller may have applied for, and received the permit if this service did not. A single permit to drill one or more wells in a designated area, or within a specified radius from the designated first site, should also be acceptable; although Mr. Carpenter suggests that no second well was anticipated in this case, and the Sexton Brothers Drilling Company would probably have been unable to bid on wells of the greater depth.

It is not clear whether Utah now requires an application for appropriation of the water before the start of drilling. If the application were deferred until after drilling a much more concise statement could be made as to the source and quantity of the water. Since no permit seems to have been granted on Application 34321, it seems possible that the State Engineer may be waiting for the data from the drilling report.

SIGNED
A. Van V. Dunn
Chief, Branch of Water Resources

Copy to: Superintendent, Arches
Chief, WDDC (2)
P. Miller
Mr. Dunn

AvanVDunn:ljc

07-30-1962: letter to utah state engineer regarding permission to proceed immediately with drilling of a water well under our applic

WR 8/3

AUG 2 10 24 AM '62

Southwest Region
Santa Fe, New Mexico

L54
ARCH

JUL 30 1962

Application No. 34321
Arches National Monument

Mr. Wayne D. Criddle
Utah State Engineer
State Capitol Building
Salt Lake City 14, Utah

Dear Mr. Criddle:

Permission to proceed immediately with drilling of a water well under our Application No. 34321 filed May 25, 1962 was granted by you May 28 with an expiration date of November 28, 1962.

The well was expected to be 450 feet deep and the tie was S.86°58'E., a distance of 1377.74 feet from the 1/4 corner common to Sections 27 and 28, T. 23 S., R. 21 E., SLBM, Arches National Monument.

This is the area known as the Devil's Garden section. On July 20 we wrote to your office filing an amended location as the result of a field study. The new location was N.72°50'E., a distance of 1213.04' from the West 1/4 corner of Sec. 27 in the above township and range.

The information for the location of the well was from a memorandum report prepared by Mr. Lofgren of the U. S. Geological Survey in 1954. We consulted District Geologist Ted Arnow regarding Mr. Lofgren's report and Mr. Arnow recommended a depth of 450' based on additional information not available when Mr. Lofgren's report was prepared. It was expected that water would be encountered at the bottom of the Navajo formation which was estimated to be roughly 450' deep at the Devil's Garden area.

No water was encountered at the base of the Navajo and on the recommendation of Mr. Arnow's office our Service was instructed to proceed to the top of the Wingate, estimated to be 1000' below land surface in this vicinity. The driller is Sexton Brothers Drilling Company, Cortez, Colorado and they are using a rotary rig. When water was not encountered at the 450' horizon we issued a change order in the contract authorizing them to proceed an additional 300' or to a depth of 750'. This depth has now been reached and we have still not encountered any water. The driller, because of the increased depth and the type of equipment used,

ARCH

07-30-1962: letter to utah state engineer regarding permission to proceed immediately with drilling of a water well under our applic

experienced difficulty in reaching the 750' horizon and has informed this office he cannot proceed with his present drilling equipment beyond this depth.

We are arranging a meeting on the ground on Tuesday, July 31, with representatives of the USGS to restudy the situation. The Devil's Garden area is known to contain fracture zones which may or may not produce water and one geologist has advanced the theory that the water may be moving in the fracture zones.

After the meeting at Arches National Monument on July 31 our Service will probably be faced with the decision of abandoning the present well as a dry hole. We may renegotiate with a new contractor or a sub-contractor under the present contractor to move in a cable drilling rig and go to the 1000' depth at the present location. It may be necessary to select an entirely new location, still within the boundaries of Arches National Monument and in the general vicinity of the Devil's Garden section.

For your ready information the area we refer to as the Devil's Garden section is an area where the sandstone fins either did not occur or have been eroded away and is in Section 27, T. 24 S., R. 21 E. It is the road "loop" shown on the U. S. Department of Interior Geological Survey, Thompson Quadrangle, 15" Series and lies between Tunnel Arch and Skyline Arch in Section 28.

This memorandum is to inquire if you could authorize a new location if it appears to be desirable to abandon the present well as a dry hole after the conference in the field on July 31. We would also like to be advised if a new fee will be required or if we may drill one or more test holes well within the boundaries of Arches National Monument and make an amended application with the proper ties to section corners as soon as the new location is known.

Sincerely yours,

[SIGNED]
J. M. Carpenter
Acting Regional Director

Copy to: Director (2)
Supt., Arches

07-10-1962: memorandum to superintendent from assistant regional director regarding instructions for use of rotary drilling equip

WRG/m
CW 7/19

Arches

Southwest Region
Santa Fe, New Mexico

L54

JUL 10 1962

Memorandum

To: Superintendent, Arches

From: Assistant Regional Director

Subject: Instructions for Use of Rotary Drilling Equipment, Sexton Brothers Drilling Company, Contract No. 14-10-0333-889, Arches National Monument

In connection with the drilling of the test well in the Devil's Garden Section of the Monument, Mr. Kell has telephoned the U. S. Geological Survey Office in Salt Lake City and talked with Mr. Arnow, on the morning of July 10, regarding the drilling of the test well.

Mr. Arnow recommends that we drill to the full depth of 450 feet. The logic behind this is that we are probably in an area of low recharge and even though we encounter water at a higher elevation in the current drilling program, the water level may recede with pumping and continued use.

Since we are using rotary equipment it will be probable that the driller may lose circulation during the drilling process. As Contracting Officer you should write a letter to the driller and have him acknowledge it. The letter should be to the effect "that nothing except standard commercial drilling mud shall be used during the drilling process except with the written permission of the Contracting Officer or an authorized representative of the U. S. Geological Survey."

In the event the driller encounters a situation where standard drilling mud is not satisfactory to restore circulation, you should telephone the U. S. Geological Survey in Salt Lake City, DAvis 8-2911 and consult with them after you have determined the conditions encountered by the driller and know the kind of material he proposes to use.

Regardless of the type of material used to maintain circulation, the U.S.G.S. representatives recommend thorough cleaning of the well

before any pump test is started. The specifications call for the use of an air line to check drawdown and recovery (paragraph 1, page 39 of the specifications) during the pumping test. You should be certain that this is installed by the contractor even though U.S.G.S. representatives may use an electric probe to measure drawdown and recovery.

This office should be kept advised of the progress made by the driller in order that we can give the U.S.G.S. representatives as much time as possible prior to any pumping tests or other request for assistance.

(SIGNED)

J. M. Carpenter
Assistant Regional Director

Copy to: Director (2)
WODC (2)
Mr. Arnow, U.S.G.S.
Salt Lake City, Utah

06-11-1962: memorandum to director from assistant regional director regarding enclosed partially complete docket (no. 5) includin

W Rolfe @ 6/14/62

Region Three
Santa Fe, New Mexico
June 11, 1962

L54
I-D5039

Memorandum

To: Director — Endorse Filed in Docket file

From: Assistant Regional Director

Subject: Devil's Garden Well, Application No. 34321, Docket No. 5, Arches National Monument

Enclosed is a partially completed docket including Application No. 34321 issued by the State Engineer of Utah May 28, 1962, granting immediate permission to drill a well at Arches National Monument. This well will be located in the Devil's Garden section at a point south 86°58'E of the ¼ corner common to Sections 27 and 28, T. 23 S., R. 21 E., SLBM. The well will be a six-inch well expected to be 450 feet deep. It is for municipal and irrigation purposes.

On Friday, June 1, Mr. Kell telephoned Keith Higginson of the State Engineer's Office, Salt Lake City, Utah from Zion. At that time Mr. Higginson assured Mr. Kell the application was ready for signature and a copy of the application granting authority to proceed would be mailed to the Superintendent at Arches. However, since we have not been informed that the Superintendent received a copy of the notice we wired the Superintendent on June 8 instructing him to sign and mail the Notice of Award to the contractor. The contractor at Arches is Sexton Brothers Drilling Company, Cortez, Colorado. At the time of the award the company was not licensed to drill wells in the state of Utah. We have been advised that they have made application to the State Engineer of Utah and supplied the required bond and should be in a position to proceed with the contract. The contract at Arches is No. 14-10-0333-889.

By copy of this memorandum we are supplying the Chief, WCDC with the above information and his copy of the partially completed docket. We have also made distribution of the docket to the Superintendent, Arches and the Regional Office copy of the docket has been placed in our permanent water rights records.

APPROVED

George W. Miller
Assistant Regional Director

In duplicate

Enclosure

Copy to: Chief, WCDC (2) w/1 copy of docket
Supt., Arches w/1 copy of docket

05-11-1961: memorandum to director from acting regional director regarding attached 2 copies of the subject report as requested

WR Copy

~~Price~~
D. E. Lee
~~D. Lee~~ D.

RECEIVED
MAY 15 11 39 AM '61
WASHINGTON OFFICE

Region Three
Santa Fe, New Mexico

L-54
ARCH

MAY 11 1961

Memorandum

To: Director

From: Acting Regional Director

Subject: Mr. Lofgren's Report of March 22, 1954, on Well Site Location at Devil's Garden Section, Arches

Attached are two copies of the subject report as per your request in memorandum dated April 20, 1961.

Report in USGS File

(SIGNED)

George W. Miller
Acting Regional Director

In duplicate

Attachments

Copy to: Chief, WODC (2) without attachments
Supt., Arches, without attachments

ARCH

05-11-1961: memorandum to director from acting regional director regarding copy of previous memo (file no. 181)

Copy

April 20, 1961

L54-CBL

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Mr. Lofgren's Report of March 22, 1954, on Well Site Location at Devil's Garden Section, Arches

We have received a copy of Mr. Kell's letter of April 4 to the Regional Chief of Operations in which the subject report is mentioned. We are unable to locate a copy of this report.

Please furnish this Office with a copy if you believe it is necessary that we have the report on hand.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Arches
Chief, WODC (2)
Mr. Dunn

VABerte:lgt

WR Copy

Region Three
Santa Fe, New Mexico

L-1425

APR 4 1961

To: Regional Chief of Operations

From: Regional Chief of Lands

Subject: Field Trip, March 20 - 21, Arches National Monument

Enroute to Capitol Reef National Monument I arrived at Moab, Utah at 8:35 P.M. As soon as I found a motel I telephoned Superintendent Wilson and advised him I had a film strip projector for Arches. Superintendent Wilson volunteered to meet me while I was having dinner in Moab to pick up the projector.

The following morning I stopped at the headquarters area and drove past the new residence and then to the visitor's center. Both of these buildings were under construction the last time I was at Arches National Monument. I was especially pleased with the visitor center and the exhibits there. In my opinion the use of the large sections of "real-rock" on wooden pads, and not behind glass is very effective. To me, it creates an alive rather than a museum effect.

With Superintendent Wilson we discussed methods of getting a drill rig to the proposed well site at Natural Bridges National Monument and the possibility of a water supply for the Devil's Garden section at Arches National Monument.

It is believed we could do test drilling at Natural Bridges or Arches under the Construction Account and our Work Order to be done sometime after July 1. The work at Arches, Devil's Garden section, would be on the assumption that Mr. Lofgren's report dated March 22, 1954 (covering the period March 15, to 17, inclusive) would be satisfactory to the U. S. G. S. office in Salt Lake City and no further formal report by the U. S. G. S. will be required.

I cannot locate a copy of Mr. Lofgrens' report.
Vic
4/19/61

The Lofgren report of March 22, 1954 was prepared by Ben F. Lofgren and Lorenzo DeMars. It recommended an 8-inch well be drilled within the "loop", Devil's Garden section, to a depth of approximately 250 feet or the entrada formation. Mr. Lofgren believes that we should penetrate the water bearing formation for at least a depth of 50 feet and he recommends that a geologist be present during the drilling.

On my return trip from Salt Lake City I re-discussed this matter with Superintendent Wilson and together we reviewed Mr. Lofgren's report. In the discussion with the Superintendent of the morning of March 29, we mutually agreed that the first work could probably be best accomplished by drilling one or more small diameter wells with a rotary rig and we agreed that 4 1/2 inch test holes would be satisfactory. If either of the proposed test bores produce water in satisfactory quantity we could then prepare a new contract for the water well at a size and depth recommended by the geological survey based on information produced by the test drilling.

Superintendent Wilson was also advised of the meeting with State Land Office representative Lee Young in Salt Lake on Monday, March 27. At that time I outlined to Mr. Young our need for State Land in order that we may construct a road and do test drilling at Natural Bridges National Monument. Mr. Young requested that I write him a letter outlining our needs and he promised prompt action. He explained the delay, if any in consummating such an exchange, will not lie with the Utah State Land office but will be with the Bureau of Land Management in Salt Lake City.

(SIGNED)
John E. Kell
Regional Chief of Lands

Copy to: Director (2)
Chief, WODC (2)
Superintendent Arches National Monument

Approved for distribution:

APR 3 1961

(SIGNED)

_____ Date: _____
Regional Director

12-21-1960: memorandum to chief, western office of design and construction from regional director regarding enclosed copies of c

Region Three
Santa Fe, New Mexico

L-54

DEC 21 1960

Memorandum

To: Chief, Western Office of Design and Construction

From: Regional Director

Subject: Water Right Docket No. 1, Application 13619, Permit 13619, Headquarters Water System, and Water Right Docket No. 2, Application 21087, Salt Wash Stock Watering Facilities, Arches National Monument

Attached are your copies of Water Right Docket No. 1, Application 13619, Permit 13619, Headquarters Water System, and Water Right Docket No. 2, Application 21087, Salt Wash Stock Watering Facilities, Arches National Monument which we received from the Southwestern Archeological Center at Globe, Arizona. We have brought these dockets up to date and are transmitting them to you for your water right records.

(SIGNED)

Thomas J. Allen
Regional Director

Attachments

In duplicate

Copy to: Director (2)
Superintendent, Arches National Monument

03-15-1960: memorandum to regional director from chief, water resources regarding attached copy of completion report for inserti

-WR copy

L54-CRI

March 15, 1960

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Docket 1, Arches National Monument

Attached is your copy of completion report, for insertion in subject docket, of the Headquarters Area water storage and distribution system.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Attachment

Copy to: Superintendent, Arches, w/identical attachment
Chief, WCDC (2), w/identical attachment
Mr. Dunn

VABerte:lct

01-14-1960: memorandum to regional director from chief, water resources regarding request for copy of backside of report (previc

Hedges Arches

WR copy

L54-GBL

January 14, 1960

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Water Drawdown Record and Notes, Replacement Well, Application 13619, Docket 1, Headquarters Area, Arches

Your memorandum of December 23, 1959, appears to have been received with only the photostat copy of the front side of the Report of Well and Tunnel Driller.

We have made an extra copy of your memorandum, but would like to have a photostat copy of the backside of the report. It contains space for some additional information and the signature.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Arches
Chief, WCDC (2)
Mr. Dunn

AvVDunn:lct

12-22-1959: memorandum to director from regional director regarding enclosed copy of report of well and tunnel driller

Arches Hdq to Well

WR copy

L-54

Region Three
Santa Fe, New Mexico

1959 DEC 28 AM 9 58

DEC 23 1959

Memorandum

To: Director

From: Regional Director

Subject: Water Drawdown Record and Notes, Replacement Well, Application 13619, Docket 1, Headquarters Area, Arches

Attachment in Dkt. 1

Mr. Dunn's memorandum of March 18, 1959 was answered in part by a memorandum from WODC and in part by action of this office. However, there was still one item which had not been complied with.

Mr. Dunn's memorandum stated that there were four different actions needed. Item 2 and item 3 were answered by WODC in a memorandum dated March 23, 1959. Item 4 was complied with by this office and a hearing was held in Moab, Utah by the State Engineer's Office on June 17, 1959. As a result of this hearing we were given an extension of time to prove beneficial use on the above numbered application until February 28, 1966. Item 1 requested data about the Moab Drilling Company who drilled our replacement well. The question was whether they have filed a well driller's report. We can answer that in the affirmative. Attached is a photostat copy from the State Engineer, State of Utah, of the Report of Well and Tunnel Driller as filed in that office January 15, 1959. We have placed a copy of this in our docket and are forwarding copies to WODC and Superintendent, Arches in order that they may do the same.

The application to drill a replacement well was submitted by us October 1, 1958 as Application 4056 and approved by the State Engineer on October 6, 1958. These items are in our docket and were previously furnished your office.

Thomas J. Allen (SIGNED)
Regional Director

ARCH

In duplicate

Attachment

Copy to: Supt., Arches w/attachment
Chief, WODC (2) w/attachment

00-00-0000: memorandum to director from acting regional director regarding attached copy of letter from the office of the state en

Letter file

WR Copy

L-54
Arches

Region Three
Santa Fe, New Mexico

Memorandum

To: Director

From: Acting Regional Director

Subject: Application No. 13619, Docket No. 1, Arches National Monument

Attached is a copy of letter from the office of the State Engineer, state of Utah, in regards to subject application. This letter has been filed in our Docket No. 1, Arches National Monument.

The attached copy is for your information and filing.

Jerome C. Miller
Acting Regional Director

Attachment

In duplicate ✓

Copy to: WSDC (2)
Supt., Arches

Filed Attachment in Docket

11-19-1959: completion report of construction project

Form 10-174
(Rev. 8-56)

11/19/59

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

COMPLETION REPORT OF CONSTRUCTION PROJECT

REGION	AREA	COUNTY	STATE
Three	Arches National Monument	Grand	Utah

PROJECT OR JOB TITLE: Water Storage and Distribution System
PCP NO: U-1-7
LOCATION IN AREA: Headquarters
MASTER PLAN NO: 3019
BUILDING NO:
WORKING DRAWING NO. AND TITLE: 3016-A, Water System, Headquarters
MASTER PLAN CORRECTED BY:
AS-BUILT DRAWING BY:
APPROPRIATION TITLE AND SYMBOL: 14X1035 Construction, NPS
WORK ORDER NO.: B-1
CONTRACT NO: 14-10-333-436; 14-10-333-476
DATE WORK STARTED: October, 1958; March 6, 1959
DATE WORK COMPLETED: January 3, 1959; June 30, 1959
NAME OF CONTRACTOR: Moab Drilling Company; Stratton Bros. Construction Co.
ADDRESS: Moab, Utah; Hurricane, Utah

COST ANALYSIS

CONSTRUCTION ITEMS	QTY	UNIT COST IN PLACE	TOTAL COST IN PLACE
Drilling Water Well (14-10-333-436)	1	4,235.58	4,235.58
50,000 gal. steel reservoir installed & furnished	1	8,451.00	8,451.00
Pump House, complete with pump, heater, etc.	1	5,400.00	5,400.00
6" Fire Hydrants with valves and valve boxes	8	340.00	2,720.00
6" Class 150, G.I. Tyton Joint Cement lined pipe	4063 lf	5.46	22,183.98
Misc. valves, valve boxes, galvanized steel pipe, manhole, concrete collar anchors installed	-	2,113.00	2,113.00
Nozzle, combination straight stream-spray with shut-off valve, cast finish brass complete with adapters, and wrenches	8	35.36	282.88
Fire Hose, 1½" I.D., Single Jacket rubber lined	25 lths	18.95	473.75
Standard Fire Hose Houses	8	243.00	1,944.00

FIELD FINANCE OFFICE CLEARANCE:

Henry Alarid, Jr. (11-19-59)
Actg. Regional Accountant

Construction Costs		$ 47,804.19
Plus PS & S Costs	17.51%	8,370.51
Total Project Costs		56,174.70
TOTAL		$ 47,804.19

SUMMARY OF EXPENDITURES

PERSONAL SERVICES	EQUIPMENT	MATERIALS AND SUPPLIES

OTHER: 47,804.19

CHANGE ORDERS

ORIGINAL CONTRACT AMOUNT	2,373.00	FIRST 1,962.58	SECOND Liq. Damages -100.00	THIRD
	41,325.00	-457.02 underruns		
FINAL CONTRACT AMOUNT	4,235.58	FOURTH	FIFTH	SIXTH
	40,867.98			

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

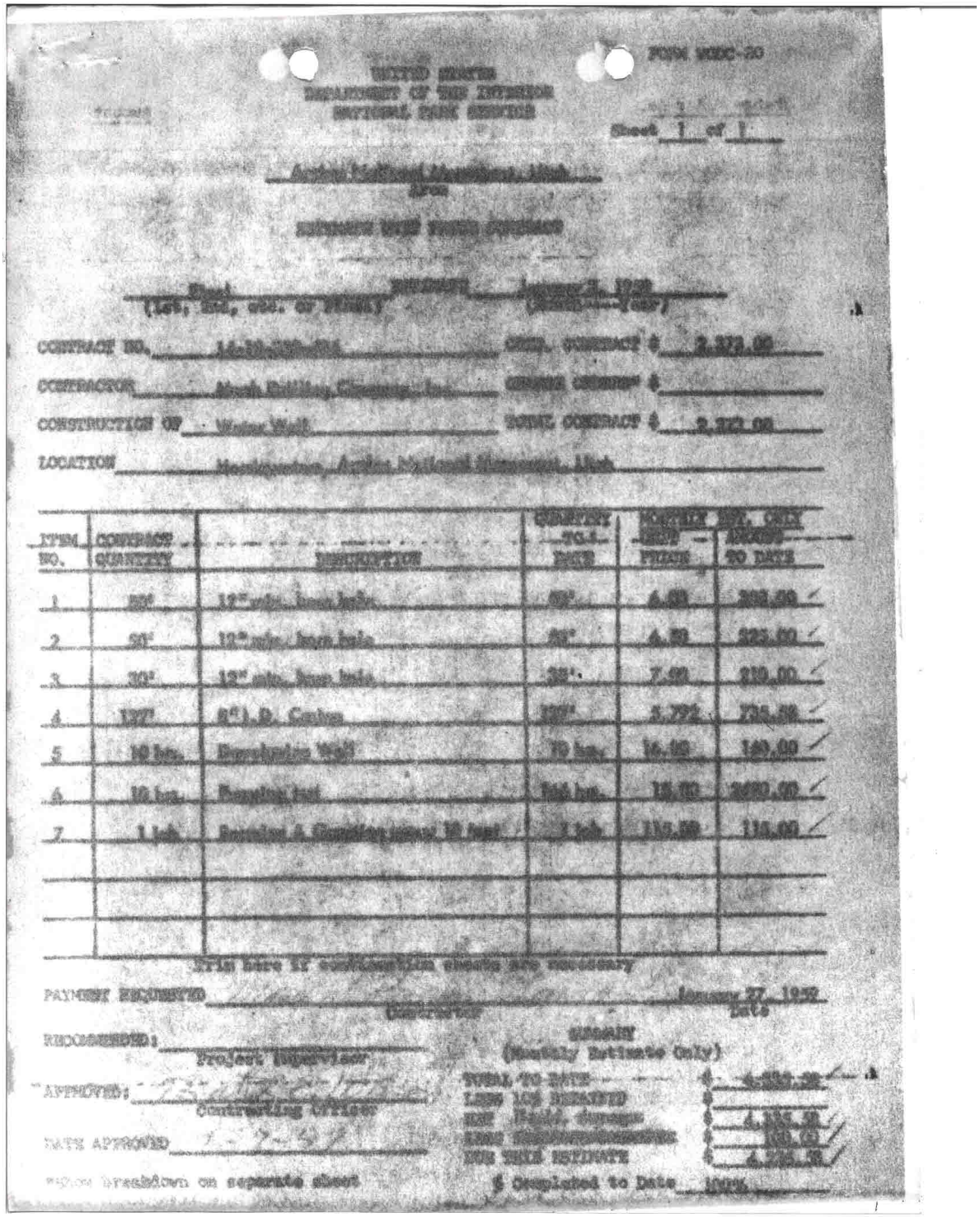
SUBMITTED BY (Name and title): W. P. Fairchild, Construction Representative — DATE:

APPROVED BY (Name and title): Bates E. Wilson, Superintendent — DATE: November 19, 1959

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

GPO 914176

00-00-0000: contract information



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

FORM WEEC-20

Sheet 1 of 1

[illegible]

[illegible]

Final [illegible] (1st, 2nd, etc. of Final) [illegible] January 7, 1952

CONTRACT NO. 14-10-[illegible] ORIG. CONTRACT $ 2,373.00

CONTRACTOR Mesa Drilling Company, Inc. CHANGE ORDERS $

CONSTRUCTION OF Water Well REVISED CONTRACT $ 2,373.00

LOCATION Headquarters, Arches National Monument, Utah

ITEM NO.	CONTRACT QUANTITY	DESCRIPTION	QUANTITY TO-DATE	UNIT PRICE	AMOUNT TO DATE
1	85'	12" wdr. bore hole	85'	4.00	340.00
2	50'	12" wdr. bore hole	50'	4.50	225.00
3	30'	12" wdr. bore hole	30'	7.00	210.00
4	197'	8" I.D. Casing	197'	3.775	735.58
5	10 hrs.	Developing Well	10 hrs.	14.00	140.00
6	10 hrs.	Pumping Test	246 hrs.	15.00	3690.00
7	1 Lsh.	Erecting & Dismantling [illegible] 18 feet	1 Lsh.	110.00	110.00

Attach hereto if continuation sheets are necessary

PAYMENT REQUESTED [illegible] January 27, 1952
Contractor Date

RECOMMENDED: [illegible]
Project Supervisor

APPROVED: [illegible]
Contracting Officer

DATE APPROVED 2-5-52

REMARKS
(Monthly Estimate Only)

TOTAL TO DATE $ 4,823.58
LESS 10% RETAINED $
NET Total Amount $ 4,335.58
LESS [illegible] $ 100.00
DUE THIS ESTIMATE $ 4,235.58

Work breakdown on separate sheet

% Completed to Date 100%

NARRATIVE STATEMENT

Water System, Headquarters Area, Arches National Monument, Utah, Contract No. 14-10-333-476.

The project was advertised on January 15, 1959 and bids opened in the office of the Regional Director, Region Three, National Park Service in Santa Fe, New Mexico.

The contract was awarded to the low bidder, Stratton Brothers Construction Company of Hurricane, Utah. The first day of the contract period was established as March 6, 1959.

The contractor moved on job March 7, 1959 and graded out an access road to tank site. During the month of March drilling, blasting for trenches and forms were installed for the tank. All water lines, fire hydrants, pump, etc., were installed in April. The contractor completed all tests and cleanup on May 3, 1959.

The contractor's work was very satisfactory. There were no change orders or revisions. Final acceptance for the job was June 30, 1959.

A copy of the Final Payment Estimate is attached and made a part of this statement to show the magnitude of the job and the unit costs.

00-00-0000: estimate unit price contract; contract no. 14-10-333-476

ESTIMATE UNIT PRICE CONTRACT — FORM NODC 20

Final ESTIMATE
(1st, 2nd, etc. or Final) (Month, Year)

CONTRACT NO. 14-10-333-476 . ORIG. CONTRACT $ 41,325.00

CONTRACTOR Stratton Brothers Construction Co. CHANGE ORDERS* $

CONSTRUCTION OF Water System TOTAL CONTRACT $ 41,325.00

LOCATION Headquarters, Arches National Monument, Utah

ITEM NO.	CONTRACT QUANTITY	DESCRIPTION	QUANTITY TO DATE	MONTHLY EST. ONLY UNIT PRICE	MONTHLY EST. ONLY AMOUNT TO DATE
1	1	Lump Sum, 50,000 gallons, steel reservoir furnished & installed at	1	8451.00	8451.00
2	1	Lump Sum, pump house complete with pump, heater, pump control electrical work and appurtenances at	1	5400.00	5400.00
3	4150	Lin.ft., 6" class 150, C.I. Tyton Joint cement lined pipe installed at	4063	5.46	22,183.98
4	3	Each, 6" Gate Valves with boxes installed at	3	130.00	390.00
5	1	Lump Sum, concrete valve box installed at	1	400.00	400.00
6	1	Each, 2" Gate Valves, complete with box installed at	1	50.00	50.00
7	6	Each, 1" Gate Valves, complete with boxes installed at	6	30.00	180.00
8	10	Lin.ft., 2" standard Galv. Steel pipe installed at	10	2.00	20.00
9	220	Lin.ft., 1" standard Galv. Steel pipe installed at	232	1.50	348.00
10	8	Each, 6" Fire Hydrants with operating wrench, 6" Gate Valves and Gate Valve boxes installed at	8	340.00	2720.00
11	1	Each, Precast Manhole, Complete with cover ring, installed at	1	225.00	225.00
12	5	Each, Concrete Collar Anchors installed at	5	100.00	500.00

RECOMMENDED: Acting Project Supervisor

APPROVED: Contracting Officer

*Show breakdown on separate sheet.

SUMMARY
(Monthly Estimate Only)

TOTAL TO DATE	$ 40,867.98
LESS 10% RETAINED	$ ----------
NET	$ 40,867.98
LESS PREVIOUS PAYMENTS	$ 36,683.99
DUE THIS ESTIMATE	$ 4,183.99

% Completed to Date 100

GPO 877849

07-22-1959: letter to nps from state of utah regarding map no. 7109 will be attached to the file of application 13619

@
Arches-Docket 1

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY 14

WAYNE D. CRIDDLE
STATE ENGINEER

L 54 Arch

July 22, 1959

RECEIVED
NPS
JUL 27 1959
PARK HOME
INTERP.
RECREATION
FORESTRY
SOLICITOR
FILES

United States Department of the Interior
National Park Service
c/o Hugh M. Miller, Regional Director
Region Three
Santa Fe, New Mexico

Gentlemen: RE: APPLICATION NO. 13619.

On July 20, 1959, this office received your letter dated July 17, 1959, accompanied by your map designated as No. 7109.

On examination of the file relative to this application fails to disclose your original map designated as No. 7106 attached thereto, therefore, Map No. 7109 will be attached to the file of Application No. 13619.

Yours truly,

J. M. Gardner
SENIOR APPLICATION ENGINEER.

JMG/ig

07-17-1959: memorandum to director from regional director regarding hearing on request for extension of time, application 13619,

L-5h

Region Three
Santa Fe, New Mexico

JUL 17 1959

Memorandum

To: Director

From: Regional Director

Subject: Hearing on Request for Extension of Time, Application 13619, Headquarters Water System, Docket 1, Arches

WESTERN OFFICE
DESIGN & CONSTRUCT
JUL 20 1959A
CHIEF
ADMIN.ASSIST.
PERSONNEL
PLANS & PROG.
SAFETY
ARCHITECT
ENGINEER
LAND. ARCH.
ACTION TAKEN—DATI

Mr. Dunn's memorandum of June 30 regarding the above subject has been discussed with Mr. Hall. acty 1

For future guidance for Region Two, your office as well as Region Three, it is Mr. Hall's opinion the person conducting the hearing will largely influence the kind of information that should be presented.

At the hearing in the courthouse at Moab, Utah, regarding Arches National Monument, we were prepared to give the number of permanent and seasonal employees residing in the area and the "expected" number of employees by 1966. cy mmb Mullahin

This question was not asked. Our representative did, however, point out, by means of a map, the location of the existing well, pipeline and storage facilities and gave an itemized account of the amount of money expended on installation of the well and water system to date.

It was Mr. Hall's impression the testimony given by Superintendent Wilson accompanied by graphic illustrations and the map that our water system was practically completed and the storage tank full made a definite impression on Mr. Lambert.

Another fact, not to be considered too lightly, was the fact there were some 17 other requests for extension of time. Ours, according to Mr. Lambert, was the only notice of the hearing that had been published in the newspaper. The others present had been requested by the State Engineer's Office by letter to attend the hearing and show cause why the requested extension of time should be

07-17-1959: memorandum to director from regional director regarding hearing on request for extension of time, application 13619,

granted. From the remarks made in the courtroom and correspondence received from the State Engineer, this procedure apparently is a new procedure that has been adopted by the State Engineer and will be followed in the future.

Hugh H. Miller
Regional Director

(SIGNED)

In duplicate

Copy to: Supt., Archer
WORS (2)
Regional Director, Region Two

07-17-1959: letter to mr. criddle from regional director regarding changed number of well drawing to 7109 from 7106 and corrected

WRC 0/2
1-54 @ 1/2.
Arches Archives

Region Three
Santa Fe, New Mexico

July 17, 1959

Mr. Wayne D. Criddle
403 State Capitol
Salt Lake City 1, Utah

Dear Mr. Criddle:

Please refer to Acting Regional Director Hill's letter of October 17, 1958 regarding Application 13619 and drilling of a replacement well, Application 4056, Arches National Monument.

At that time we enclosed a black-line print of NM-ARC-7106 showing how we proposed to place a locked cover over the abandoned well. It has now been discovered that there is a duplication in drawing numbers and 7106 was previously used on a map printed by the U. S. Government Printing Office in July 1958.

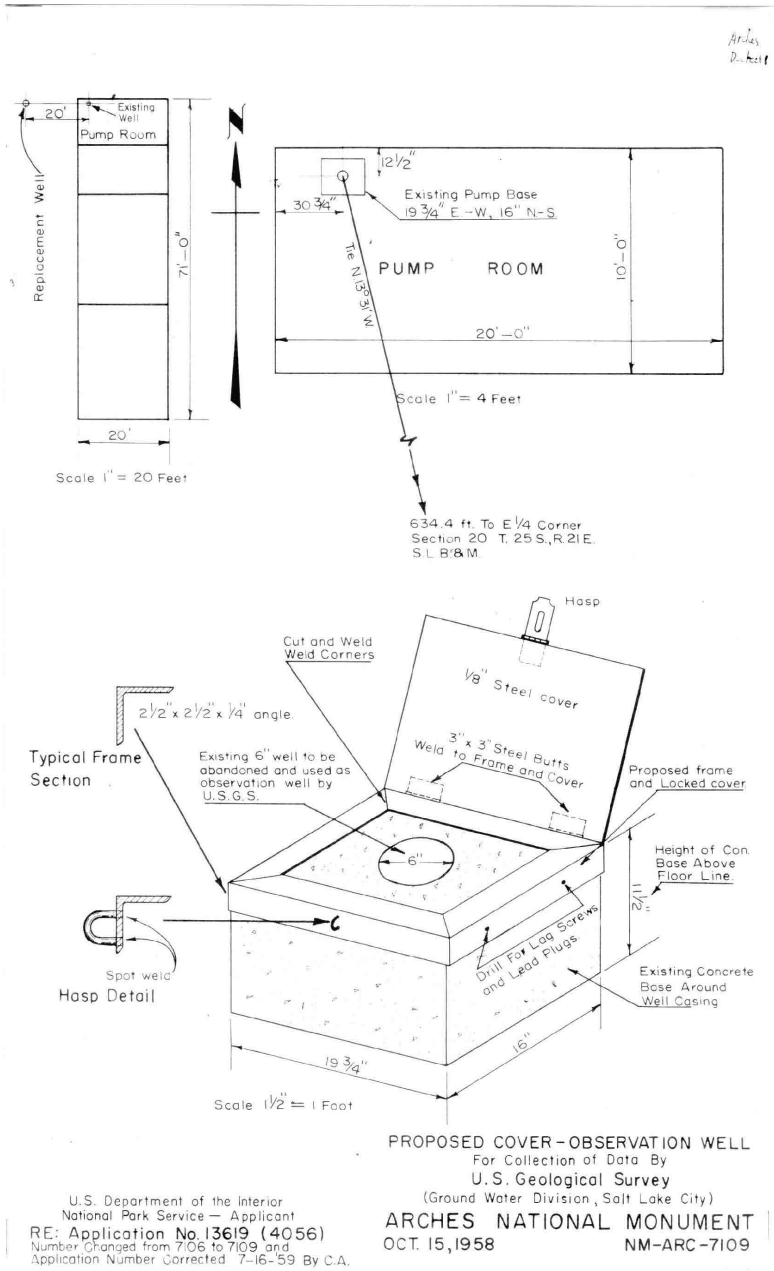
We have changed the drawing number of Proposed Cover-Observation Well to 7109, and we have corrected the application number to 13619 in accordance with the first paragraph of Mr. Hayo's letter to Mr. Hill dated October 22, 1958. It is respectfully requested that you destroy the previous print transmitted with Mr. Hill's letter of October 17 and substitute the attached which is exactly the same except the drawing number has been changed to 7109 and the application number corrected to 13619.

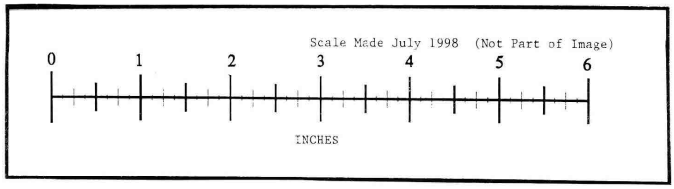
Sincerely yours,

Hugh H. Miller
Regional Director

Copy to: Director (2) w/c of drawing 7109
Herbert A. Waite w/c of drawing 7109
Supt., Arches w/c of drawing 7109

10-15-1958: drawing of proposed cover for observation well; application 13619





07-14-1959: memorandum to regional director from chief, water resources regarding attached copy of order granting an extension

UR copy 11 WR

154-GEN.

July 14, 1959

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Extension of Time, Application 13619, Headquarters Water System, Docket 1, Archas

Attached is your copy of the order of June 30, granting an extension of time from December 15, 1958 to February 28, 1966, in which to amend and perfect the subject water right. This should be filed in Docket 1.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Attachment

Copy to: Superintendent, Archas, with original of order
Chief, WCDC (2), w/c attachment
Mr. Dunn

AvVDunn:lct

06-30-1959: memorandum to regional director from chief, water resources regarding mr. lambert's interests should be considered

L54-OBL

June 30, 1959

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Hearing on Request for Extension of Time, Application 13619, Headquarters Water System, Docket 1, Arches

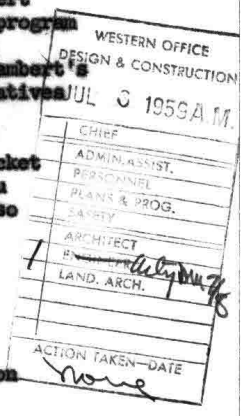
Mr. Kell's report of June 25 on the hearing is very gratifying, in indicating that the extension of time will be granted. We were lucky, of course, in that no one protested the particular extension. If there had been a protestant, the developments since the request was filed, might not have been as important as evidence of diligence during the previous 14 years.

For future guidance in Region Two as well as Three, we should all be advised as to the relative interest of Mr. Lambert in engineering features and the general Monument development program as measure of potential water demand. A future protestant in another case might be interested in other features, but Mr. Lambert's interests should be considered in selecting Federal representatives for future hearings.

I am filing one copy of Mr. Kell's report in the docket as a record of construction and costs that were reported. You may wish to substitute a revised record if it is incomplete, so that there will not be future duplication.

SIGNED

A. van V. Dunn
Chief, Water Resources Section



Copy to: Superintendent, Arches
Chief, WODC (2)
Regional Director, Region Two, w/c Kell's report

06-25-1959: memorandum to director from acting regional director regarding attached copy of mr. kell's report covering the hearin

CC Copy

L-54

Region Three
Santa Fe, New Mexico

June 25, 1959

Kells report in Docket 1 7/2/59 VAB

Memorandum

To: Director

From: Acting Regional Director

Subject: Water Rights Hearing, Request for an Extension of Time, Application 13619, Docket No. 1, Headquarters Water System, Arches National Monument

Attached is a copy of Mr. Kell's report covering the hearing held at Moab, Utah on June 17 by Deputy State Engineer Hubert Lambert. Mr. Kell was advised an extension of time will be granted to December 15, 1966, and we will supply copies of the State Engineer's letter granting the extension when it has been received.

Marthon L. Hill
Acting Regional Director

Attachment

In duplicate ✓

Copy to: Supt., Arches w/c attachment
WOOC (2) w/c attachment

06-25-1959: memorandum to regional director from regional chief of lands regarding report of hearing in moab on june 17 1959

IN REPLY REFER TO:
L-54
ARCH

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Region Three
Santa Fe, New Mexico

June 25, 1959

Memorandum

To: Regional Director
Through: Regional Chief of Operations

From: Regional Chief of Lands

Subject: Water Right Application 13619, Headquarters Water System, Docket No. 1, Arches National Monument

On June 17, 1959 a hearing was held in the courthouse at Moab, Utah, by the State Engineer for the purpose of determining if an extension of time could be granted by the State Engineer of Utah on our Application 13619. This was in accordance with the State Engineer's notice of October 10, 1958 to Mr. Dunn that proof of beneficial use would be due December 15, 1958 and the subsequent request for an extension of time filed by Mr. Dunn October 21, 1958. The hearing was necessary because our application was more than fourteen years old.

Prior to our arrival Superintendent Wilson had made pump tests and three measurements using a five gallon bucket and a stop watch at the storage tank. The production of the well at the present time, according to Mr. Wilson's tests made on June 16, was ten gallons per minute.

Superintendent Wilson, Civil Engineer Fields and I represented the National Park Service at the hearing. The hearing was conducted by Deputy State Engineer Hubert Lambert, representing Mr. Criddle, and Engineer Don Stewart. The meeting was called for 10:00 a.m. and there were several persons present also requesting extensions of time. The notice of the hearing was published in the Moab Times Independent April 9, 16, and 23, copies of which have been furnished to all offices for insertion in their water rights docket. Mr. Lambert explained the Park Service hearing was the only published notice since it was the only application more than fourteen years old. Two other persons requesting extension of time were heard prior to the National Park Service.

In conducting the hearing, Mr. Lambert requested information which would tend to establish diligence and what the Park Service had done up to the time of the hearing. We explained to Mr. Lambert that

we had made a request for a replacement well which had been completed at a cost of $4,235.58. We also showed him an "as constructed" drawing showing the connection to the replacement well, the six-inch water line leading to the Visitors Center, and the location of the 50,000 gallon storage tank. We showed Mr. Lambert the costs on the distribution system which were $41,325. In addition we have completed hose house and fittings at a cost of $792.15. The total amount spent since our request for an extension of time was $46,352.73. After giving Mr. Lambert these figures, Superintendent Wilson explained that we would open bids for a Visitors Center estimated to cost $122,400, an employee's residence at $21,600, and a sewage disposal system estimated at $11,900. Mr. Wilson explained the location of the existing Superintendent's residence, the Visitors Center, and the one residence scheduled for construction from 1959 fiscal year funds.

Mr. Lambert inquired when the remainder of the proposed work would be completed. We explained that three additional residences were scheduled for construction in the 1961 fiscal year and that an Equipment Storage and Shop Building was scheduled for 1962. Mr. Lambert inquired if we would have all of our proposed work completed by 1962 and if this might be a sufficient length of time to complete our work. We explained to Mr. Lambert that we felt, due to the uncertainty of appropriations, that we should have the full amount of time requested in the application to December 15, 1966.

At this point in the hearing, Mr. Lambert inquired if there were any protests or any objections to granting the National Park Service an extension of time to December 15, 1966 as requested. There were no objections and Mr. Lambert announced the extension of time would be granted as requested. He promised to confirm this in writing.

John E. Kell
Regional Chief of Lands

Copy to: Director (2)
WODC (2)
Superintendent, Arches
Hugh M. Miller

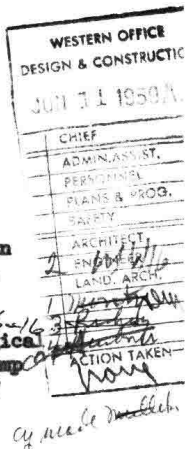
Approved for Distribution

Date: 6/25/59

Hawthorn L. Bell, Acting Reg Dir 6-25-59

L54-OBL

June 8, 1959



Memorandum (AIR MAIL)

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Proposed Hearing in Connection with Request for Extension of Time, Headquarters Well, Applications 13619 and 4056, Docket 1, Arches

My memorandum of June 4, concerning pumps and the Geological Survey report on test of the replacement well, may have stressed pump capacities with inadequate explanation of their use as a measure of well yields.

The well driller's report for first well indicated testing at 10 gpm in 1940. Mr. Lassiter's memorandum of 1942 indicated that 30 gpm deep well pump had been installed. The test of replacement well shows yield of 12 gpm. Application 13619 was for withdrawal and use of 40 gpm.

NPS witnesses at the hearing should have records of the maximum rate of pumping, or withdrawal which was ever made when the first well was new and equipped with largest pump. I hope, and assume that water has been so pumped at more than 12 gpm.

The second point is that the water claim and permit for 40 gpm was to be the ultimate, if true. If the old well never yielded more than 12 to 15 gpm, the permit for 40 gpm should still be claimed on the basis that one or more supplemental wells, with proper spacing, have been contemplated as the demand increases.

Third, the 40 gpm rate of pumping was probably based on plan to pump only 8 to 12 hours per day. If Mr. Don Price does not consider two or more wells practical, we should still claim right to pump at practical rate for as much of 24 hours per day as needed at peak travel season, to produce the required quantity of water.

I have assumed, for some years, that extensions of time were being obtained until 30 or 40 gpm were pumped for 8 or 10 hours per day, and fully used, or until a lesser amount was found to be the maximum need for a stabalized annual attendance. Testimony at the hearing should be to that effect.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Arches - AIR MAIL
Chief, WODC (2)

In reply refer to:
L54-OBL

June 4, 1959

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Memorandum Summarizing the Drilling and Test Pumping of a Replacement Well at Arches National Monument, by Don Price, Geological Survey

You are receiving a copy of a memorandum to the Director, Geological Survey, from Mr. Price requesting that the subject report, of which Mr. Kell forwarded a copy on May 29, be cleared for public use by June 17. This report may be helpful in justifying the requested extension of time under Water Right Applications 13619 and 4056, Docket 1, at the hearing in Moab.

The following points now appear to need clarification for possible testimony in the hearing:

1. The memorandum of July 20, 1942, to the Water Rights Section from Mr. Lassiter, advised that a 30 gpm deep well pump was installed, from list of materials supplied to you by SWNM Headquarters for Job Application 19. That well was reported in my notarized applications for extensions of time in 1949 and 1954, but not in the request of last October 1. I seem to recall that Mr. Kell told me, when here, or in San Francisco a year ago, that a smaller pump had to be substituted a year or so ago, and the subject report seems to indicate that a 12 gpm pump from the old well was used in tests 1 and 2 of the replacement well. The records of pumps, with approximate dates, should be clarified.

2. Application 13619 is for 40 gpm, which may, or may not be more than ultimate need for the headquarters. We should have at least the tentative opinion of Mr. Don Price or Mr. Waite, before the hearing, as to whether another well location, deeper well, or several wells would probably permit the required withdrawal from the formation. We should consider the water need, and not necessarily the claimed 40 gpm; and the practicability of obtaining that quantity

from the same formation, such that the 1940 priority of Application 13619 would still be applicable. We do not need details as to points of withdrawal or whether additional land would be needed, because the extension of time is being requested to permit further study as well as completion of construction.

[redacted]

A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Arches
Chief, WODC (2)
Chief, Ground Water Branch, G. S., Washington
Mr. H. A. Waite, 503 Federal Building, Salt Lake City, G. S.
Mrs. M. Griffin, Report Section, Ground Water Branch, G. S.
Mr. F. Miller
Mr. Dunn

AvVDunn:lct

L54-GBL

JUN - 3 1959

Memorandum

To: Director, Geological Survey

From: Assistant Director, National Park Service

Subject: Memorandum Summarizing the Drilling and Test Pumping of Replacement Well at Arches National Monument, Grand County, Utah, April 18, 1959 by Mr. Don Price

We have received a copy of the subject report and the attached memorandum of May 26 to our Regional Chief of Lands in Santa Fe from Mr. Herbert A. Waite. We are advised by Mrs. Margaret Griffin that Mr. Lohman has not yet forwarded a copy for review by your Report Section.

We are not only pleased to clear the report for the open file, as requested by Mr. Waite, but should like to have it cleared for possible public use by June 17.

This replacement well is part of the Headquarters water development started in 1940 under State water right permit. A hearing is scheduled in Moab on June 17 in connection with our request for extension of time in which to complete the water system and perfect the water rights. The permit is for the withdrawal of 40 gpm, and a 30 gpm pump was installed on the original well to serve initial needs. The replacement well became necessary because the original well yield fell to about 12 gpm. The subject report indicates that the replacement well has approximately the same capacity, and may be needed to support our request for more time in which to determine how to regain the larger required quantity of water.

WESTERN OFFICE DESIGN & CONSTRUCTI
JUN 5 1959A
CHIEF
ADMIN. ASSIST.
PERSONNEL
PLANS & PROG.
SAFETY
ARCHITECT
ENGINEER
LAND. ARCH.
ACTION TAKEN DATE
none

Jackson E. Price
Assistant Director

Attachment

Copy to: Regional Director, Region Three
Superintendent, Arches
Chief, WODC (2)

06-01-1959: official receipt: application no. 13619

FORM 130

PATRON'S COPY

STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY, UTAH

OFFICIAL **RECEIPT**

App No. 13619 Date June 1 19 59

Mr. National Park Service

Address Washington 25 D.C.

NATURE OF SERVICE		FEE RECEIVED	
~~FILING~~ APPLICATION advertising	$	20	70
APPROVING APPLICATION			
ADVERTISING			
FILING PROOF & MAPS			
ISSUING CERTIFICATE			
COPY			
FILING WELL DRILLER'S REPORTS & PERMITS			
FILING UNDERGROUND WATER CLAIM			
DILIGENCE CLAIM			
BLUEPRINTS			
PLANS & SPECIFICATIONS FOR DAMS			
TOTAL	$	20	70

CASH ☐ MONEY ORDER ☐ CHECK ☒

UTAH STATE ENGINEER

BY [signature]

No. 41680

05-29-1959: memorandum to chief from regional chief of lands regarding application for extension of time, application no. 13619:

L-54

Region Three
Santa Fe, New Mexico

May 29, 1959

Memorandum

To: Chief, Western Office of Design and Construction

From: Regional Chief of Lands

Subject: Application for Extension of Time, Application No. 13619, Headquarters Water Supply, Docket No. 1, Arches

You have received copies of my memorandum of May 18 and Mr. Scoyen's memorandum of May 22, relating to the subject application Headquarters Water System, Docket No. 1, Arches.

This office would like to have two black-line prints of Drawing NM-ARC-3016-B (four sheets) dated 5/6/59. This plan was prepared by Engineer Grunigen.

The drawing will be used at the hearing to be held at Moab, Utah on June 17.

[SIGNED]

John E. Kell
Regional Chief of Lands

In duplicate

Copy to: Director (2)
Superintendent, Arches

05-28-1959: memorandum to director from regional chief of lands regarding application for extension of time, application no. 1361

L-54

Region Three
Santa Fe, New Mexico

May 28, 1959

WESTERN OFFICE
DESIGN & CONSTRUCTION
JUN 1 1959 A.M.
CHIEF
ADMIN. ASSIST.
PERSONNEL
PLANS & PROG.
SAFETY
ARCHITECT
ENGINEER
LAND. ARCH.
ACTION TAKEN—DATE
Done

Memorandum

To: Director

From: Regional Chief of Lands

Subject: Application for Extension of Time, Application No. 13619, Headquarters Water Supply, Docket No. 1 Arches

Our memorandum of May 18 transmitting copies of the published notice of the application for extension of time (Application No. 13619) and Mr. Scoyen's memorandum of May 22 crossed in the mail. We have also just received Mr. Dunn's memorandum of May 26 on the same subject.

During the next trip to Salt Lake City or at the hearing at Moab June 17, we will advise representatives of the State Engineer's Office regarding the discrepancy of the applicant on the various documents that have been submitted in accordance with the second paragraph of Mr. Scoyen's memorandum of May 22.

I plan to be in Moab June 17, and if available, Mr. Fields will accompany me in order to gain experience in these hearings. We will arrive at Moab on June 16 in order to go over the work that has been completed with Superintendent Wilson and to obtain additional information to present to the State Engineer at the time of the hearing. Travel expenses and other items in relation to the hearing will be itemized and copies of the complete report transmitted to Region Two and Western Office of Design and Construction as requested.

(SIGNED)
John E. Kell
Regional Chief of Lands

In duplicate

Copy to: Supt., Arches
Chief, WODC (2)

05-26-1959: memorandum to regional director from chief regarding hearing on june 17 on federal application for extension of time,

L54-CBL

May 26, 1959

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Hearing on June 17 on Federal Application for Extension of Time, Application 13619, Headquarters Water System, Arches

The memorandum of May 18 from Mr. Miller has arrived after the memorandum of May 22 from Mr. Scoyen was mailed. This is the first case in which a hearing has been necessary in order to obtain an extension of time, but those hearings will apparently be necessary in all future cases.

I believe that the Superintendent, or his qualified representative, should attend hearings on such applications in all cases. However, I believe that it is particularly important that an engineer, who is familiar with the work, also be present in this case. We do not know what type of testimony will be needed, and there are several unusual aspects to be of diligence and the site of the replacement well to present.

We should also have a complete report on the hearing, with copies to Region Two, WODC and this office, so that all may know what to expect in future cases in Utah.

The travel expenses are going to add appreciably to the cost of future requests for extension of time. They are proper charges against your Work Order 3-WR-59, Account 134.1, with subsequent processing for capitalization as a part of the water right values of the particular area. They should also be included in your annual budget estimates. For this reason, the costs of this hearing should be carefully kept, to determine the total and how they may vary in future cases.

WESTERN OFFICE DESIGN & CONSTRUCTION
MAY 28 1959
CHIEF
ADMIN. ASSIST.
PERSONNEL
PLANS & PROG.
SAFETY
ARCHITECT
ENGINEER
LAND. ARCH.
1
2
3
ACTION TAKEN—DATE
Done

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Arches
Chief, WODC (2)
Regional Director, Region Two

L54 OBL

MAY 22 1959

WESTERN OFFICE
DESIGN & CONSTRUCTIO
MAY 25 1959A.M
CHIEF
ADMIN.ASSIST.
PERSONNEL
PLANS & PROG.
SAFETY
ARCHITECT
ENGR.
LAND. ARCH.
ACTION TAKEN / DATE

Memorandum

To: Regional Director, Region Three

From: ASSOCIATE Director

Subject: Application for Extension of Time, Application No. 13619, Headquarters Water Supply, Docket No. 1, Arches

Attached are the copy of published notice of the application for extension of time, the letter of transmittal from the State Engineer of Utah, and Mr. Dunn's acknowledgment. You have also been supplied with a letter of May 11 from the State Engineer's Office in connection with a similar application for extension of time in which to perfect rights at Bryce, in which the new system of hearings, and the need for the appearance of the applicant or his representative, was explained.

A review of Docket No. 1 will show that the United States is properly the claimant under Application No. 13619. However, neither that application nor Mr. Dunn's request of October 21, 1958, were properly signed to indicate that the National Park Service and Mr. Dunn are acting for the United States. The matter has been further complicated by your Application No. 4056 of October 1, 1958, and subsequent construction under WODC.

Since Mr. Dunn will not be able to be present, and your staff and WODC are better qualified to testify on the matter, please arrange for proper representation at the hearing.

(Sgd) E. T. Scoyen

ASSOCIATE Director

Attachments 3

Copy to: Superintendent, Arches, w/c attachments
Chief, WODC (2), w/c attachments

05-12-1959: letter to nps from state of utah regarding cost of advertising application no. 13619

8/19 L54

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

WAYNE D. CRIDDLE
State Engineer

May 12, 1959

Price
D. E. Lee

National Park Service
c/o M. A. Van V. Dunn
Chief, Water Resources Branch
Washington 25, D. C.

Gentlemen: RE: APPLICATION NO. 13619

Reference is made to Notice to Water Users, which was published in the Times-Independent, Moab, Utah from April 9, to April 23, 1959.

The cost of advertising Application 13619 was $20.70.

Enclosed are triplicate copies of certified invoice covering the above amount.

Yours truly,
Wayne D. Criddle
Wayne D. Criddle
STATE ENGINEER

Enc: Proof
Invoice in triplicate

00-00-0000: memorandum to director from acting regional chief of operations regarding hearing set for the work that has been dor

L-54

Region Three
Santa Fe, New Mexico

Memorandum

To: Director

From: Acting Regional Chief of Operations

Subject: Application 13619, Docket No. 1, Headquarters Water System, Arches National Monument

Attached is a reproduced copy of the State Engineer's notice published in the Moab Times Independent April 9, 16 and 23, 1959.

We have placed copies of the newspaper notice in our Docket No. 1 and copies have been furnished to all offices for insertion in the docket.

A hearing before the State Engineer has been set for Wednesday, June 17, at 10 a.m. at the courthouse in Moab, Utah. If at all possible, either Mr. Fields or myself or both will arrange to attend the hearing. If for any reason a representative of this office cannot be present, Superintendent Wilson should arrange to attend with prints of the water supply system and be able to testify regarding the work that has been done and the money spent to date.

Jerome C. Miller
Acting Regional Chief of Operations

In duplicate w/one attachment

Copy to: WODC (2) w/one attachment
Supt., Arches w/one attachment

L54 GBL

MAY 22 1959

Memorandum

To: Regional Director, Region Three

From: Director

Subject: Application for Extension of Time, Application No. 13619, Headquarters Water Supply, Docket No. 1, Arches

Attached are the copy of published notice of the application for extension of time, the letter of transmittal from the State Engineer of Utah, and Mr. Dunn's acknowledgment. You have also been supplied with a letter of May 11 from the State Engineer's Office in connection with a similar application for extension of time in which to perfect rights at Bryce, in which the new system of hearings, and the need for the appearance of the applicant or his representative, was explained.

A review of Docket No. 1 will show that the United States is properly the claimant under Application No. 13619. However, neither that application nor Mr. Dunn's request of October 21, 1958, were properly signed to indicate that the National Park Service and Mr. Dunn are acting for the United States. The matter has been further complicated by your Application No. 4056 of October 1, 1958, and subsequent construction under WODC.

Since Mr. Dunn will not be able to be present, and your staff and WODC are better qualified to testify on the matter, please arrange for proper representation at the hearing.

(Sgd) E. T. Scoyen

Director

Attachments 3

Copy to: Superintendent, Arches, w/c attachments
Chief, WODC (2), w/c attachments
Mr. Dunn

AvVDunn:lct 5-20 59

WR Copy

L54 OEL

May 20, 1959

Mr. Wayne D. Criddle, State Engineer
Office of State Engineer
Salt Lake City, Utah

Re: Application No. 13619
Headquarters Water Supply
Arches National Monument

Dear Mr. Criddle:

The bill for $20.70, for advertising the request for extension of time under the subject application, is being processed for payment.

The copy of the published notice is being referred to Mr. Hugh M. Miller, Regional Director, Region Three, of the National Park Service, in Santa Fe, New Mexico. He will provide the necessary representation for the hearing in Moab on June 17.

Very truly yours,

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Regional Director, Region Three
Superintendent, Arches
Chief, WCDC (2)
Mr. Dunn
} DETACHED

AvVDunn:lct

05-12-1959: letter to nps from state of utah regarding cost of advertising application 13619

8 5/7 L54

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

WAYNE D. CRIDDLE
STATE ENGINEER

May 12, 1959

Docket
Price
Arches
D & L Lee

National Park Service
c/o M. A. Van V. Dunn
Chief, Water Resources Branch
Washington 25, D. C.

Gentlemen: RE: APPLICATION NO. 13619

Reference is made to Notice to Water Users, which was published in the Times-Independent, Moab, Utah from April 9, to April 23, 1959.

The cost of advertising Application 13619 was $20.70.

Enclosed are triplicate copies of certified invoice covering the above amount.

Yours truly,
Wayne D. Criddle
Wayne D. Criddle
STATE ENGINEER

Enc: Proof
Invoice in triplicate

05-06-1959: memorandum to regional director from superintendent regarding pump capacity as measure of water right and water

L-54

ARCHES and NATURAL BRIDGES
NATIONAL MONUMENTS
MOAB, UTAH

May 6, 1959

Memorandum

To: The Regional Director, Region Three

From: The Superintendent, Arches National Monument

Subject: Pump Capacity as Measure of Water Right and Water System Design, Arches National Monument

As requested in Mr. Kell's Memorandum dated February 25, the following data is submitted on the pump installed on the replacement well at Arches Headquarters.

1. Manufacturer: Fairbanks Morse.
2. Type of Pump: Turbine oil lubricated.
3. Intake Pipe Diameter: 3".
4. Outlet Pipe Diameter: 2".
5. Power Unit Rating: 5 horse, 1 phase, 220 V.
6. Serial Number: 5KC215EG 2A.
7. Installed Head in Feet: 265.
8. Rating of Pump in Gallons Per Minute: 20.

For the first few days of operation the pump has been averaging about 17 gallons per minute.

Bates R. Wilson
Superintendent

Copy to: Chief, WUDC (2)

L-54

WR Copy
UABR

Region Three
Santa Fe, New Mexico

April 15, 1959

Memorandum

To: Superintendent, Arches

From: Regional Chief of Lands

Subject: Extension of Time for Replacement Well, and Purchase Order for Filing Fee, Application 13619, Docket No. 1, Headquarters Area, Arches

By now you should have received a copy of Mr. Dunn's memorandum of April 9 in further reply to his first memorandum of March 26. This was in regard to the extension of time for the above numbered application.

On April 9, Civil Engineer Fields and I were in Salt Lake City and discussed the matter with Field Solicitor McMaster, prior to the time we went to the State Engineer's Office. At the State Engineer's Office we were advised by Application Engineer Jack Gardner that Application 13619 will be advertised in the Moab Times Independent, April 9, 16 and 23. A hearing has been set for June 17 at Moab, Utah at 10:00 a.m.

Mr. Gardner explained that the State Engineer's Office will wait until after the notice is published and then our Service will be billed for an amount which will include the fee for extension of time and the cost of the newspaper notices.

Would you please furnish this office copies of the notices which were published in the Moab Times Independent in order that we may make the necessary reproduction of notices for all copies of the water rights docket.

(SIGNED)

John E. Kell
Regional Chief of Lands

Copy to: Director (2)
Chief, WODC

04-09-1959: letter to office of state engineer from chief regarding hearing on application 13619 for extension of time

154-CBL

April 9, 1959

Mr. Wayne D. Criddle, State Engineer
Office of State Engineer
Salt Lake City, Utah

Dear Mr. Criddle:

The letter of April 2 from Miss McClintock, concerning the hearing on our Application 13619, Arches National Monument, for extension of time has been referred to Mr. Hugh M. Miller, Regional Director, Region Three, P. O. Box 1728, Santa Fe, New Mexico. Mr. William Fields, Civil Engineer, and others from that office, or our Western Office, Division of Design and Construction, will represent the United States.

Very truly yours,

A. van V. Dunn
Chief, Water Resources Section

Copy to: Regional Director, Region Three (2)
Superintendent, Arches
Chief, WODC

L54-OBL



April 9, 1959

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Request for Extension of Time, Application 13619, Docket 1, Arches

Attached are copies of the letter of April 2 from Miss McClintock, and my reply.

The memorandum of March 23 to you from Mr. P. E. Smith suggests that the matter is under control if the new well is, or will be yielding the authorized 40 gallons per minute. As the alternative, my request of October 26, 1958, and your application of October 1, 1958, (No. 4056) for replacement still need integration as discussed when Messrs. Kell and Fields were here. At that time the well had yielded only 12 gpm.

My original request for extension was based on proposed replacement. Contract 14-10-333-436 was not accepted until January 3, but still seemed to yield only the 12 gpm. If that is all that can be developed, and more is needed, the reasons for the extension of time may need moficiation either before or during the hearing. We have definitely carried out the 1959 plan, and need time to develop the capacity or try another replacement.

Mr. Smith says permanent system is being constructed but does not give designed pump capacity. The right will be limited to well yield or pump capacity, whichever is less, unless time is granted to obtain more water.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Attachments 3

Copy to: Superintendent, Arches, with 2 attachments
Chief, WODC, with 2 attachments

Pump being installed is 20 gpm. FM with lower water outlet.
Well drillers report shows 12 gpm but this was early 16 gpm

04-02-1959: letter to nps from state of utah regarding extension of time for application no. 13619 is no being advertised

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

WAYNE D. CRIDDLE
STATE ENGINEER

April 2, 1959

National Park Service
c/o M. A. Van V. Dunn
Chief, Water Resources Branch
Washington 25, D. C.

Gentlemen: RE: APPLICATION NO. 13619

Your request for an extension of time in regard to the above-numbered application is now being advertised in the Times Independent, Moab, Utah, beginning April 9, 1959 and ending April 23, 1959.

The hearing that is required by law is set for the courtroom of the County Courthouse, 10:00 a.m. Wednesday, June 17, 1959, at Moab, Utah.

The applicant or his representative must attend this meeting and be prepared to justify diligence and answer all protests that may be raised.

Yours truly,

Gretchen McClintock

Gretchen McClintock
SECRETARY, APPLICATIONS

GM/s

03-26-1959: memorandum to regional director from chief regarding extension of time for replacement well, and purchase order 99-

L54-GBL

March 26, 1959

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Extension of Time for Replacement Well, and Purchase Order 99-245 for Filing Fee, Application 13619, Docket No. 1 Headquarters Area, Arches

The request for extension of time was signed by me on October 21, 1958, and submitted to the State Engineer with subject Purchase Order and Voucher of October 17. This was based in your information, including copy of your application of October 1 for permit for the replacement well. No fee was required of the U. S. for filing the latter application.

Our records, in docket, indicate that your application for replacement well was approved by the State Engineer as No. 4056 on October 6. The State Engineer appears to have replied to only the letters from you, and Mr. Bill. The last letters of October 29 and 22 related to a typographical error in the basic Application-Permit Number 13619.

We shall appreciate clarification of the following:

1. Did State Engineer waive the application and order for extension of time because he granted the permit for replacement well?

2. Did he waive filing fee because only needed for action on my application for extension of time?

3. Did he return the voucher, purchase order, and my request for extension of time?

It will prevent further confusion if you will determine whether an order for extension of time has, or is to be issued, and what has happened to our voucher and purchase order. If the filing fee is not needed, we should like to eliminate our obligation. If it is required, we should like to know when the State Engineer will sign and return the voucher to us for payment.

With Mr. Fields now available, future extensions of time should be made by you, and further fees should be paid from your Work Order 3-WR-59, or its equivalent in future years.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Arches
Chief, WODC
Accounts
M Mr. Dunn

AvVDunn:let

WRCfm
@
WRB 9.

L 54

1959 MAR 30 AM 11 35

March 23, 1959

D. C. Lee

Memorandum

To: Regional Director, Region Three

From: Supervisory Engineer, WODC

Subject: Water Supply, Headquarters Area, Arches National Monument

A copy of Mr. A. van V. Dunn's memorandum of March 18, subject: Water Drawdown Record and Notes, Replacement Well, Application 13619, Docket 1, Headquarters Area, Arches was received on March 20. Mr. Dunn says:

Paragraph 2. "Decide, with WODC, what has, and will be done by September to obtain adequate water for the tourist season."

The permanent water system is now being installed at the area by Stratton Bros. Construction Co., Contract No. 14-10-333-476 and should be completed well ahead of the September date.

Paragraph 3. "Decide, with WODC, what further action is to be taken to obtain adequate permanent replacement well, also by September."

The well, replacement, was drilled by Moab Drilling Co., under Contract No. 14-10-333-436 and accepted on January 3, 1959. The pumphouse, pump, etc., are being installed on this well as part of the water system, Contract No. 14-10-333-476 now under construction. It is not contemplated, at this time, that any other well will be drilled in the headquarters area.

(Sgd.) P. E. Smith

P. E. Smith
Supervisory Engineer

In duplicate

Copy to: Chief, D&C
Chief, Water Resources, WASO
Supt., Arches NM

ARCH

03-18-1959: memorandum to regional director from chief regarding water drawdown record and notes, replacement well, applicati

L54-GBL

March 18, 1959

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Water Drawdown Record and Notes, Replacement Well, Application 13619, Docket 1, Headquarters Area, Arches

The record, notes and one copy of memorandum of February 16 to Superintendent from Mr. Kell, have been filed in subject docket, as directed.

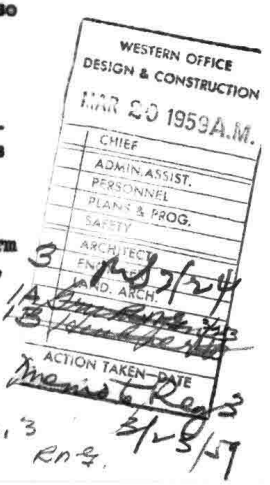
As explained to Mr. Kell, the following action is needed:

1. Assuming that Moab Drilling Company is licensed, he probably filed application to drill replacement well, and a well driller's report, with State Engineer. We should have copies of both instruments for the docket. These may be duplicated from driller's copies, or purchased from State Engineer, in latter case purchasing a negative or other reproducible from which to make other copies for Docket.

2. Decide, with WODC, what has, and will be done by September to obtain adequate water for the tourist season.

3. Decide, with WODC, what further action is to be taken to obtain adequate permanent replacement well, also by September.

4. Prepare request for extension of time, to be filed by prescribed date in October, giving outline of need for replacement well, and action taken by them, including past drilling, to obtain replacement well. This should include statement of all expenditures with Water Right and B&U Construction Funds since last request. I think it should also give ties from section corner to old and replacement wells. (For format, see copy of form for extension under Application 21087, Docket 2, Arches, of which Mr. Kell made copy on March 10, and took with him.)



See Memo to Reg. 3 RN-4.

In requesting copies of driller's application and report, if made to State Engineer, you can be frank about the confusion as to how far driller did, or did not, comply with State water laws. You should also admit that application for change in point of withdrawal is to be filed when suitable site is found. No map is needed if ties are to be given in request for extension of time, but a sketch, to scale, may be desirable for docket records.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Arches
Chief, WODC

00-00-0000: summary of contract

Location of Property in Area (Including State): Headquarters - Utah

How Asset Acquired: Appropriated Funds

Name of Contractor: Moab Drilling Co. and Stratton Bros. Const. Co.

Contract No.: 14-10-333-436 and 14-10-333-476

Completion Report Approval Date: 1/3/1959

Add, in accordance with JV 483 6/30/63, 1" gate valves and steel pipe in conjunction with construction of Residences 5, 6, and 10, under Contract 14-10-0333-771 with George W. Renie Construction Co., Completion Date: 6/30/62, Total Cost: $142.68

Add (JV398 3/18/65) Water system extension to serve 4-unit Apartment Building No. 7; consisting of 3 pressure reducing valve units, 69' of 1" G.I. Pipe; and extension to serve Residence No. 4, No. 11, constructed w/appropriated funds under Work Order No. B-6 by Earl Troop Construction Co. Contract 14-10-0333-1123; Completion Report Approval Date: 2/17/65; Cost: $3,010.48

02-26-1959: memorandum to director from regional chief of lands regarding water rights: application no. 13619

L-54 WR Copy

Region Three
Santa Fe, New Mexico

FEB 26 1959

Memorandum

To: Director

From: Regional Chief of Lands

Subject: Water Rights Docket No. 1, Application 13619,
Arches National Monument

In connection with the review of water rights dockets in Region Three, we have made an analysis of each docket.

There is attached a list of the items that appear in this docket.

When Mr. Fields and I are in the Washington Office, we would like to check your docket against the contents of the attached list. If there are additions or corrections, arrangements will be made to obtain the necessary copies in order that our docket as well as those in the field will all be in agreement.

JOHN E. KELL

John E. Kell
Regional Chief of Lands

Attachment

In duplicate

Copy to: Supt., Arches
WODC

Memo 2/26/59
from Reg. 3

Arches Docket No. 1 - Water Right Application 13619

1. Letter from Hugh N. Miller, Superintendent to T. H. Humpherys, State Engineer requesting proper forms for making the Application to File on Water, dated April 15, 1940.

2. Letter from T. H. Humpherys to Superintendent Miller dated April 27, 1940.

3. Application to Appropriate Water for Domestic and Municipal Purposes.

4. Letter from Supt. Miller to T. H. Humpherys enclosing an Application to Appropriate Water for Domestic Purposes at Arches, dated May 10, 1940.

5. Letter from T. H. Humpherys to H. N. Miller granting permission to proceed to drill well, dated July 27, 1940.

6. Letter from T. H. Humpherys to H. N. Miller enclosing receipts for payment of fees for filing, advertising and approving application.

7. Affidavit of Publication dated July 12, 1940.

8. Display Advertising Statement dated July 15, 1940.

9. Letter from State Engineer to Deseret News Publishing Co. regarding payment for publishing Notice to Water Users and enclosing check, dated August 9, 1940.

10. Drawing NM-ARC-5312

11. Letter from Ed. H. Watson, State Engineer, to A. van V. Dunn dated October 7, 1943.

12. Letter from Ed. H. Watson to A. van V. Dunn regarding the procedure necessary to appropriate water in the State of Utah.

13. Letter from Ed. H. Watson to A. van V. Dunn dated January 26, 1944.

14. Report of Well and Tunnel Driller.

15. Letter from Ed. H. Watson to Dunn dated October 23, 1945 changing date proof of appropriation will be due.

16. Letter from Ed. H. Watson to Dunn dated October 14, 1947 notifing him the time proof of appropriation may be submitted.

17. Request for Extension of Time dated December 2, 1949.

18. Extension Granted dated December 12, 1949.

19. Request for Extension of Time dated October 16, 1951.

20. Extension Granted dated November 2, 1951.

21. Special Order of the State Engineer dated October 13, 1954.

22. Memorandum to Regional Director from Dunn dated November 3, 1954.

23. Letter from State Engineer requesting $1935 for cost of advertising.

24. Notice to Water Users dated from January 20 to February 3, 1955.

25. Extension Granted dated March 14, 1955.

26. Memorandum to Regional Director from Dunn dated March 21, 1955 attaching Extension Granted of March 14.

27. Application to Repair, Clean, Deepen or Replace an Existing Well dated October 1, 1958.

28. Application to Repair, Clean, Deepen or Replace an Existing Well signed by Donald G. Stewart.

29. Letter from Donald G. Stewart enclosing Application to Replace an Existing Well, dated October 6, 1958.

30. Letter from Francis T. Mayo to Harthon L. Bill dated October 22, 1958.

31. Letter to Wayne D. Criddle from Harthon L. Bill asking for waiver of State Engineer's requirements for sealing well.

02-25-1959: memorandum to superintendent from regional chief of lands regarding pump capacity as measure of water right and

L-54

Region Three
Santa Fe, New Mexico

February 25, 1959

Memorandum

To: Superintendent, Arches National Monument

From: Regional Chief of Lands

Subject: Pump Capacity as Measure of Water Right and Water System Design, Arches National Monument

The well at Arches National Monument has recently been completed, and it is our understanding the contract for the water system either has or is about to be awarded.

If the pump for the replacement well in your area is included in the water system construction contract or is purchased as a separate item, we should have complete data for use in the water system docket.

The data we need, when the pump is obtained, is as follows:

1. Name of Manufacturer
2. Type of Pump
3. Intake Pipe Diameter in Inches
4. Outlet Pipe Diameter in Inches
5. Power Unit Rating
6. Serial Number
7. Installed Head in Feet
8. Rating of Pump in Gallons Per Minute

As soon as the pump is purchased and installed, we should have information regarding its production against the head the pump will operate under according to the plan.

(SIGNED)
John E. Kell
Regional Chief of Lands

Copy to: Director (2)
Chief, WODC

02-18-1959: memorandum to superintendent from regional chief of lands regarding log of well

L-54

Region Three
Santa Fe, New Mexico

February 18, 1959

Memorandum

To: Superintendent, Arches

From: Regional Chief of Lands

Subject: Log of Well, Arches National Monument

In accordance with the contract the Moab Drilling Company was supposed to furnish a log of the replacement well recently completed at Arches National Monument. When I was in Salt Lake City, I obtained copies of water drawdown record and some notes pertaining to the replacement well which were mailed to you, the Director, and WODC on February 16.

It may be that the log was mailed to WODC, but if you could conveniently furnish us a copy, we can make the necessary extra copies here for Mr. Martinez's contract file and the water rights docket.

JOHN E. KELL

John E. Kell
Regional Chief of Lands

Copy to: Director (2)
WODC

File all of this in docket

Xerox Copy

L-54

Arches Docket 1

Region Three
Santa Fe, New Mexico

February 16, 1959

Memorandum

To: Superintendent, Arches

From: Regional Chief of Lands

Subject: Water Drawdown Record and Notes Pertaining to Replacement Well, Docket No. 1, Application 13619, Arches National Monument

Attached are duplicate originals of water drawdown record and notes pertaining to replacement well drilled by Moab Drilling Company, Moab, Utah.

Please place these in your Docket No. 1, Application No. 13619. In docket

Typed copies have been placed in our docket in the Region.

Typed copies have also been sent to Mr. Dunn in the Washington Office and WODC for insertion in the dockets retained in WASO and WODC.

The notes pertaining to the replacement well were obtained by me from the USGS Office in Salt Lake City on February 5. Geologist Don Price is in the process of preparing a report on the Arches well for our use, and this report, when received, should clarify the notation of the well not being completely free of drilling mud and mill fiber.

(SIGNED)

John E. Kell
Regional Chief of Lands

Attachments (2)

Copy to: Director (2) w/1 set attachments ✓
WODC w/1 set attachments

ARCHES

Region Three Staff Conference Minutes - January 6, 1959

Bids on the water system at Arches will be opened on January 28, and also for the water and sewer system at Wupatki. At Wupatki the final test on well produced 60 gallons per minute, which is much better than we had even hoped for. At Arches, however, the new well is not producing as much water per minute as the old one. A contract has been awarded for a 20 KW electric generator for Chaco Canyon.

10-29-1958: memorandum to superintendent from regional chief of lands regarding observation well: application no. 13619

L-54

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
Region Three
Santa Fe, New Mexico

October 29, 1958

Memorandum

To: Superintendent, Arches

From: Regional Chief of Lands

Subject: Observation Well, Headquarters Area, Application 13619, Docket No. 1, Arches National Monument

On October 17 we furnished you a copy of Mr. Bill's letter to State Engineer Wayne D. Criddle. This letter requested a waiver of the State Engineer's requirements that the abandoned well "would be permanently sealed from bottom to top before the driller of the new well leaves the premises".

There is attached a typewritten copy of Mr. Bill's letter of October 17 to Mr. Criddle and a photostat copy of Chief, Water Resources Branch Francis T. Mayo's letter of October 22 granting our request. It is requested that you place the copy of Mr. Bill's letter of October 17 and the photostat copy of Mr. Mayo's reply of October 22 in your Docket No. 1 (Application 13619).

This would be placed immediately above the material transmitted to you on October 17 (Application 4056).

A similar assembly has been mailed to Mr. Dunn for his Docket No. 1 and the same material furnished W. O. D. C. for their Docket. We have placed similar material in our Docket.

The letter of October 17 to Mr. Criddle has been copied since it is an important item in the waiver of the State Engineer's requirement. The original reply from Mr. Mayo dated October 22 has been placed in our regular correspondence file.

JOHN E. KELL

John E. Kell
Regional Chief of Lands

Copy to: Director (2)
W. O. D. C.

10-29-1958: letter to state of utah from nps regarding locked cover over abandoned well

L-54 WK Copy

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Region Three
Santa Fe, New Mexico

October 29, 1958

State of Utah, Office of the State Engineer
403 State Capitol
Salt Lake City 1, Utah

Attention: Mr. Francis Mayo

Dear Mr. Mayo:

We are furnishing Superintendent Wilson copies of your letter of October 22 in reply to Mr. Hill's letter of October 17, 1958 addressed to Mr. Criddle.

We regret the figures were transposed. Our Water Right Docket shows the Application No. correctly as 13619 not 13691.

Mr. Waite plans to assign Geologist Don Price to the Arches study during the period the replacement well is being drilled and tested. We are suggesting to Superintendent Wilson that he consult Don Price and between the two of them work out the necessary details for a representative of Mr. Waite's office to make use of the observation well as needed.

It was our thought the locked cover would prevent contamination and the probability of introduction of foreign objects into the abandoned well. Mr. Wilson will make an extra key available for the use of the U. S. Geological Survey representatives when they are in that vicinity.

Thank you for your assistance in making these studies possible.

Sincerely yours,

JOHN E. KELL
John E. Kell

Copy to: Director (2)
Supt., Arches
W.O.D.C.
Herbert Waite

10-22-1958: letter to nps from state of utah regarding error concerning application nos.

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

WAYNE D. CRIDDLE
STATE ENGINEER

October 22, 1958

RECEIVED
NPS
OCT 24 1958
DATE
REG. DIR.
ASST R.D.
ADMIN.
INFO
RECREATION
FORESTRY
SOILS
FILES

Mr. Harthon L. Bill
Acting Regional Director
USDI - National Park Service
Region Three
Santa Fe, New Mexico

RE: L-54 (Application #13619)
ARCH

Dear Mr. Bill:

In response to your letter to Mr. Criddle dated October 17, 1958, we should like to state first that apparently there is some error on your part with regard to the application number. Our files indicate that the application in question is application No. 13619 rather than No. 13691.

I have had the opportunity to discuss the desirability of using the present well at the Arches National Monument as an observation well with Mr. Waite and Mr. Marine. We feel that there is considerable merit to this arrangement and we will be quite willing to accept whatever program is agreeable to your organization and the Ground Water Branch.

The sketch of the proposed cover for the observation well seems quite satisfactory indeed and is substantially more adequate than the facilities that are generally available to us. Accordingly then, it will not be necessary that the existing well be permanently sealed upon completion of the replacement well.

Thank you very much for the opportunity to include these facilities in our ground water resource investigation program.

Sincerely yours,

Francis T. Mayo

Francis T. Mayo, CHIEF
WATER RESOURCES BRANCH

FTM:ja

cc: H. Waite

10-21-1958: memorandum to regional director from chief regarding extension of time and replacement well, application no. 13619

WR Copy

L54-L

October 21, 1958

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Extension of Time and Replacement Well, Headquarters Area, Application 13619, Docket 1, Arches National Monument

Attached are your copies of the Request for Extension of Time which I am just filing, and the cover letter. The request should be filed in the indicated docket.

We are also filing a copy of the sketch, application, and your letter of October 1 to the State Engineer in our assembly of the docket. It will eliminate some extra correspondence to be sure that such records go in a docket, when applicable, if such procedure is specified in the memorandum of transmittal, such as Mr. Canfield's memorandum of October 3 in this case. I am forwarding a docket folder with the other copy of these instruments to WODC, and should like to know whether you or the Superintendent have better copies of the application, Drawing 15312, Well Driller's Report and last order of extension of time to duplicate for that assembly. All offices should be supplied with data on State Engineer's action, to complete their copies of the application for the replacement well.

On future instruments such as this application which you or the Superintendent may prepare or sign, I suggest that The United States is the name of the claimant for item 1, but it might be convenient to follow with "for Arches National Monument" The signature should be:

The United States of America
By: Hugh M. Miller
Regional Director, National Park Service.

Mr. Waite's proposal, also in Mr. Canfield's memorandum, that the old well be retained for observation purposes, implies that the source of supply is not under artesian pressure. This point, and the fact that both wells cannot, will not be used simultaneously, may be required before the State Engineer's approval is obtained.

Mr. Kell's memorandum of October 2 to the District Geologist, concerning Geological Survey supervision and analysis, was subsequently discussed with me on the phone. You are also receiving my memorandum

10-21-1958: memorandum to regional director from chief regarding extension of time and replacement well, application no. 13619,

to all regions of October 9, concerning a conference and program adjustment made in this office with Mr. Thomasson of the Geological Survey. It should be noted that all suggested work in Utah may not be possible until we review your resultant proposals with any received from other regions.

(SIGNED)

A. van V. Dunn
Chief, Water Resources Section

Attachments 3

Copy to: Superintendent, Arches, w/c 3 attachments
Chief, WCDC, with Docket No. 1
Mr. Dunn

AvVDunn:lct

10-21-1958: letter to state engineer from chief regarding request for extension of time for application no. 13619

L54-L

October 21, 1958

Mr. Wayne C. Criddle
State Engineer
Salt Lake City, Utah

Re: Application 13619
Arches National Monument

Dear Mr. Criddle:

Enclosed are a request for extension of time under the subject application, and purchase order and voucher to cover the $20.00 fee for publishing the notice. The voucher should be signed and returned for payment.

I mutilated the 1950 edition of the form which you submitted on October 10, and have used a 1953 edition of that Form 29, which I happened to have. I hope that this will be satisfactory.

Very truly yours,

(SIGNED)
A. van V. Dunn
Chief, Water Resources Section

Enclosures 2

Copy to: Regional Director, Region Three
Superintendent, Arches
Chief, WCDC
Mr. Dunn
} DETACHED

AvVDunn:lct

10-20-1958: memorandum to district geologist from regional chief of lands regarding geological assistance, drilling of replacement

L-54

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Region Three
Santa Fe, New Mexico

October 20, 1958

Memorandum

To: District Geologist, Ground Water Branch, U. S. G. S., 503 Federal Building, Salt Lake City, Utah

From: Regional Chief of Lands, National Park Service, Region Three, Box 1728, Santa Fe, New Mexico

Subject: Geological Assistance, Drilling of Replacement Well, Arches National Monument

The "Notice to Proceed" date in the first paragraph of my memorandum of October 16 should have read "October 20".

Will you please change your copy from "August" to "October".

JOHN E. KELL

John E. Kell
Regional Chief of Lands

Copy to: Director (2)
Supt., Arches
W. O. D. C.

10-17-1958: memorandum to superintendent from regional chief of lands regarding application to drill a replacement well (re: appli

L-54

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Region Three
Santa Fe, New Mexico

October 17, 1958

Memorandum

To: Superintendent, Arches

From: Regional Chief of Lands

Subject: Application to Drill a Replacement Well (Re: Application 13619) Application 4056, Arches National Monument

Attached is the original State Engineer Form 112 "Application to Replace an Existing Well" signed by Regional Director Miller October 1, 1958. The application was approved October 10, 1958 by Donald G. Stewart, Ground Water Engineer and No. 4056 has been assigned to the application. The original letter from Mr. Stewart dated October 6 outlining certain conditions to be followed is also attached.

Please place both instruments in your Docket No. 1 (Application 13619) as a part of your permanent Water Right Docket, Headquarters Water System, Arches.

By a letter of October 17 Acting Regional Director Bill has asked the State Engineer to waive his requirements that the old well be permanently sealed from the bottom to the top before the driller of the new well leaves the premises. It is our intention, if the State Engineer will waive his requirements, to retain the old well with a locked cover in order that it may be used as an observation well by representatives of the U.S.G.S. We will advise you promptly as soon as we have a reply in reply to Mr. Bill's request of October 17.

A copy of Form 112 approved October 6 and a copy of Mr. Stewart's letter of October 6 relating to Application 4056 (Application No. 13619) has been placed in our Docket No. 1 and copies furnished to Mr. Dunn and W. O. D. C. for their files.

JOHN E. KELL

John E. Kell
Regional Chief of Lands

Attachments

Copy to: Director (2) w/1 set attachments
W. O. D. O. w/1 set attachments

10-17-1958: memorandum to district geologist from regional chief of lands regarding request of waiver of state engineer's require

L-54

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Region Three
Santa Fe, New Mexico

October 17, 1958



Memorandum

To: District Geologist, Ground Water Branch, U.S.G.S.
503 Federal Building, Salt Lake City, Utah

From: Regional Chief of Lands, National Park Service,
Region Three, Box 1728, Santa Fe, New Mexico

Subject: Request of Waiver of State Engineer's Requirements That Abandoned Well at Arches National Monument be Completely Sealed

When we made application to the State Engineer for permission to replace the well at Arches National Monument, we did not request authority to retain the abandoned well as an observation well.

There is attached a copy of Acting Regional Director Hill's letter of October 17 to the State Engineer requesting a waiver of this requirement. Attached to Mr. Hill's letter is a sketch showing how we propose to place a locked cover over the old well after the new well has been developed.

Because your office is most familiar with the type of recording instruments and data which could be obtained if the State Engineer should see fit to waive the requirements for sealing the old well, we think you might wish to write direct to the State Engineer and advise him regarding the records you hope to obtain.

JOHN E. KELL

John E. Kell
Regional Chief of Lands

Attachment

In Duplicate

Copy to: Director (2)
Supt., Arches
W. O. D. C.

NO COPY MADE IN MAIL ROOM

10-17-1958: memorandum to superintendent from regional chief of lands regarding application to drill a replacement well (re: appli

L-54

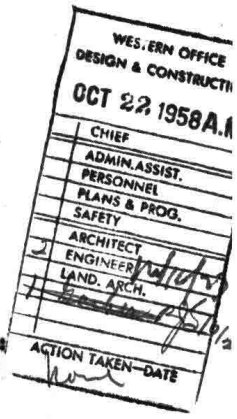
UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Region Three
Santa Fe, New Mexico

October 17, 1958



Memorandum

To: Superintendent, Arches

From: Regional Chief of Lands

Subject: Application to Drill a Replacement Well (Re: Application 13619) Application 4056, Arches National Monument

Attached is the original State Engineer Form 112 "Application to Replace an Existing Well" signed by Regional Director Miller October 1, 1958. The application was approved October 10, 1958 by Donald G. Stewart, Ground Water Engineer and No. 4056 has been assigned to the application. The original letter from Mr. Stewart dated October 6 outlining certain conditions to be followed is also attached.

Please place both instruments in your Docket No. 1 (Application 13619) as a part of your permanent Water Right Docket, Headquarters Water System, Arches.

By a letter of October 17 Acting Regional Director Hill has asked the State Engineer to waive his requirements that the old well be permanently sealed from the bottom to the top before the driller of the new well leaves the premises. It is our intention, if the State Engineer will waive his requirements, to retain the old well with a locked cover in order that it may be used as an observation well by representatives of the U.S.G.S. We will advise you promptly as soon as we have a reply in reply to Mr. Hill's request of October 17.

A copy of Form 112 approved October 6 and a copy of Mr. Stewart's letter of October 6 relating to Application 4056 (Application No. 13619) has been placed in our Docket No. 1 and copies furnished to Mr. Dunn and W. O. D. C. for their files.

JOHN E. KELL

John E. Kell
Regional Chief of Lands

Attachments
Copy to: Director (2) w/1 set attachments
W. O. D. C. w/1 set attachments ✓

NO COPY IN MAIL

10-17-1958: memorandum to district geologist from regional chief of lands regarding request of waiver of state engineer's require

L-54

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
Region Three
Santa Fe, New Mexico

October 17, 1958

Memorandum

To: District Geologist, Ground Water Branch, U.S.G.S.
503 Federal Building, Salt Lake City, Utah

From: Regional Chief of Lands, National Park Service,
Region Three, Box 1728, Santa Fe, New Mexico

Subject: Request of Waiver of State Engineer's Requirements
That Abandoned Well at Arches National Monument be
Completely Sealed

When we made application to the State Engineer for permission to replace the well at Arches National Monument, we did not request authority to retain the abandoned well as an observation well.

There is attached a copy of Acting Regional Director Bill's letter of October 17 to the State Engineer requesting a waiver of this requirement. Attached to Mr. Bill's letter is a sketch showing how we propose to place a locked cover over the old well after the new well has been developed.

Because your office is most familiar with the type of recording instruments and data which could be obtained if the State Engineer should see fit to waive the requirements for sealing the old well, we think you might wish to write direct to the State Engineer and advise him regarding the records you hope to obtain.

JOHN E. KELL

John E. Kell
Regional Chief of Lands

Attachment

In Duplicate

Copy to: Director (2)
Supt., Arches
W. O. D. C.

10-17-1958: letter to nps from acting regional director regarding application to replace an existing well: application 4056 (13619) a

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
Region Three
Santa Fe, New Mexico

OCT 17 1958

Mr. Wayne D. Criddle
403 State Capitol
Salt Lake City 1, Utah

Dear Mr. Criddle:

On October 1 Regional Director Miller made application to replace an existing well at Arches National Monument. (Re: Application No. 13691) Application 4056 was approved October 6, 1958 with the understanding the abandoned well "would be permanently sealed from the bottom to the top before the driller of the new well leaves the premises."

We have discussed this matter with District Geologist Herbert A. Waite, Ground Water Branch, U. S. G. S. and it is the opinion of representatives of his office that it would be a decided advantage if the abandoned well could be kept open as an observation well. Mr. Waite's representatives believe reasonably accurate measurements could be taken from the abandoned well providing we can obtain your permission to waive your requirements for completely plugging the old abandoned well.

In this connection we have attached two black line prints of NM-ARC-7106 showing the building that houses the existing well, the existing pump room and the method we propose to use to place a locked cover over the abandoned well. We are also sending copies of a sketch and our letter to District Geologist Waite for his information. We are asking Mr. Waite to write to you direct before you make your decision in order to further explain and clarify exactly what use the Ground Water Branch of the U. S. G. S. would make of the well in the event you should see fit to waive your requirements that the well be plugged from bottom to top.

Sincerely yours,

(SIGNED)

Enclosures

Harthon L. Bill
Acting Regional Director

In Duplicate
Copy to: Director (2)
Mr. Waite
Supt. Wilson

10-17-1958: memorandum to superintendent from regional chief of lands regarding application to drill a replacement well (re: appli

L-54

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Region Three

Santa Fe, New Mexico

October 17, 1958

DIV. OF DESIGN AND CONSTRUCTION
OCT 27 1958
Vint
Morrell
Sager
Sutton
D&C Files
Reports Files

Memorandum

To: Superintendent, Arches

From: Regional Chief of Lands

Subject: Application to Drill a Replacement Well (Re: Application 13619) Application 4056, Arches National Monument

Attached is the original State Engineer Form 112 "Application to Replace an Existing Well" signed by Regional Director Miller October 1, 1958. The application was approved October 10, 1958 by Donald G. Stewart, Ground Water Engineer and No. 4056 has been assigned to the application. The original letter from Mr. Stewart dated October 6 outlining certain conditions to be followed is also attached.

Please place both instruments in your Docket No. 1 (Application 13619) as a part of your permanent Water Right Docket, Headquarters Water System, Arches.

By a letter of October 17 Acting Regional Director Bill has asked the State Engineer to waive his requirements that the old well be permanently sealed from the bottom to the top before the driller of the new well leaves the premises. It is our intention, if the State Engineer will waive his requirements, to retain the old well with a locked cover in order that it may be used as an observation well by representatives of the U.S.G.S. We will advise you promptly as soon as we have a reply in reply to Mr. Bill's request of October 17.

A copy of Form 112 approved October 6 and a copy of Mr. Stewart's letter of October 6 relating to Application 4056 (Application No. 13619) has been placed in our Docket No. 1 and copies furnished to Mr. Dunn and W. O. D. C. for their files.

JOHN E. KELL

John E. Kell
Regional Chief of Lands

Attachments

Copy to: Director (2) w/1 set attachments
W. O. D. O. w/1 set attachments

ARCH

10-10-1958: letter to nps from state of utah regarding deadline for application 13619

FORM 16
1M 5-58

254

A. Dunn

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

October 10, 1958

National Park Service
c/o M. A. Van V. Dunn
Chief, Water Resources Branch
Washington 25, D.C.

Gentlemen: RE: APPLICATION NO. 13619

Proof as contemplated by the above numbered Application will be due December 15, 1958 Such proof, together with maps, profiles, if required, and drawings in conformity with rules and regulations promulgated by the State Engineer, and the statutory filing fees, must be received in this office on or before that date. The law provides that failure to make proof of appropriation or proof of change of the water on or before the date set therefor, shall cause the Application to lapse. Blank forms upon which proof must be submitted and a copy of the Rules and Regulations will be sent upon request.

Your attention is called to the fact that the 14 year period during which the State Engineer may grant extensions of time in which to submit proof of appropriation without publication, ended December 15, 1954 Further extensions may be granted only upon application to the State Engineer, publication of notice and a hearing before the State Engineer as provided by law.

Request for extension of time, made in affidavit form, must show diligence or a reasonable cause for delay and contain the following information:

1. Date actual construction work was begun and whether or not construction work has been prosecuted until this time with diligence.
2. Amount of work done to date and approximate cost.
3. Amount of work remaining to be done and its estimated cost.
4. Reason for extension, and time desired.

A fee of $20.00 to cover the cost of publishing notice of hearing must accompany each request. A blank form for extension of time is enclosed.

Yours very truly,

Wayne D. Criddle

Wayne D. Criddle
STATE ENGINEER
STATE CAPITOL
SALT LAKE CITY, UTAH

ADDRESS ALL COMMUNICATIONS TO:

rr
Encl: F-29

Encl.

PROOF DUE - - - ADV. REQUIRED

Arches File

L-54

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
Region Three
Santa Fe, New Mexico

October 2, 1958

Memorandum

To: District Geologist, Ground Water Division, United States Geological Survey, Room 505 Post Office Building, Salt Lake City, Utah

From: Regional Chief of Lands, National Park Service Box 1728, Santa Fe, New Mexico

Subject: Sample Sacks, Well Drilling Cuttings, Replacement Well, Arches National Monument

I am in the process of preparing a memorandum to Mr. Dunn according to the estimates discussed in your office on Friday, September 26. We have also filed with the State Engineer permission to drill a replacement well at Arches National Monument 20 feet west of the existing well. We will advise your office as soon as we have authority to proceed with the drilling, and our anticipated date for beginning the work is on or about October 15.

When I was in your office I neglected to inquire if you have sample sacks that Superintendent Wilson and the driller (Moab Drilling Company, Moab, Utah)could use for collecting the samples. It is estimated the well will be 130 feet deep, and if you can spare sample sacks it is suggested they be mailed to Superintendent Wilson direct.

The present pump is on a concrete base, presumably poured around the 6-inch well casing. The concrete base rises an estimated 6 to 12 inches above the level of the floor and would appear to be perhaps 18" x 14". I have asked Superintendent Wilson to supply exact measurements and this office will prepare a proposed sketch for covering the well after the pump has been removed. As soon as these sketches can be completed, they will be submitted to your office for review and suggestions before we make a formal application to the State Engineer for permission to retain the old well as an observation well.

A copy of this memorandum is being transmitted to Superintendent Wilson for his information, and his address at Moab is Box 98. His telephone number is Alpine 3-2313. During our discussion it was my understanding samples should be taken every 10 feet and intermediate samples if there is a change in the formation. We believe Superintendent Wilson has had experience in collecting and caring for well cutting samples. However, if you wish to give him any special instructions, please feel free to write to him direct.

JOHN E. KELL

John E. Kell
Regional Chief of Lands

Copy to: Director (2) ✓
Supt., Arches

L-54

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Region Three
Santa Fe, New Mexico

October 17, 1958

Mr. Wayne D. Criddle
403 State Capitol
Salt Lake City 1, Utah

Dear Mr. Criddle:

On October 1 Regional Director Miller made application to replace an existing well at Arches National Monument. (Re: Application No. 13619) Application 4056 was approved October 6, 1958 with the understanding the abandoned well "would be permanently sealed from the bottom to the top before the driller of the new well leaves the premises."

We have discussed this matter with District Geologist Herbert A. Waite, Ground Water Branch, U. S. G. S. and it is the opinion of representatives of his office that it would be a decided advantage if the abandoned well could be kept open as an observation well. Mr. Waite's representatives believe reasonably accurate measurements could be taken from the abandoned well providing we can obtain your permission to waive your requirements for completely plugging the old abandoned well.

In this connection we have attached two black line prints of NM-ARC-7106 showing the building that houses the existing well, the existing pump room and the method we propose to use to place a locked cover over the abandoned well. We are also sending copies of a sketch and our letter to District Geologist Waite for his information. We are asking Mr. Waite to write to you direct before you make your decision in order to further explain and clarify exactly what use the Ground Water Branch of the U. S. G. S. would make of the well in the event you should see fit to waive your requirements that the well be plugged from bottom to top.

Sincerely yours,

(SGD) HARTHON L. BILL

Harthon L. Bill
Acting Regional Director

Enclosures

In Duplicate
Copy to: Director (2)
Mr. Waite
Supt. Wilson

W.O.D.C

10-16-1958: memorandum to regional director from regional chief of lands regarding proposed replacement well: application no. 1

L-54

Region Three
Santa Fe, New Mexico

October 16, 1958



Memorandum

To: Regional Director through Regional Chief of Operations

From: Regional Chief of Lands

Subject: Proposed Replacement Well, Arches National Monument, Application 13619

Enroute to Panguitch, Utah on Sunday, September 21 I stopped briefly at Arches National Monument.

At that time Superintendent Wilson advised a contract had been awarded to the Moab Drilling Company, Moab, Utah, to drill a well approximately 20 feet due west of the present Headquarters well, Application No. 13619 (Docket No. 1). I had been aware the well was proposed in the Headquarters area but did not realize it had progressed to the point of awarding the contract.

I advised Superintendent Wilson a permit from the State Engineer and an application should be filed and approved prior to the actual drilling. The proposed well, which will be completed by the Moab Drilling Company, is actually a replacement well for the old well which was drilled several years ago. Superintendent Wilson advised that the present well, located inside a building, is 117 feet deep and the water stands at approximately 95 feet. The well "bottomed out" in the Navajo sandstone and the bottom 15 feet of the casing is perforated. When the well was drilled and cased, used casing was used and the present casing is egg shaped approximately 5-3/4"x 6-1/4". In addition, there is a 6-inch deviation of the bore in 30 feet.

While I was in Salt Lake City I obtained from the State Engineer's Office application forms which have been completed and mailed to the State Engineer on October 1. In

10-16-1958: memorandum to regional director from regional chief of lands regarding proposed replacement well: application no. 1

discussing this matter with Mr. Francis T. Mayo, Chief, Water Resources Branch, State Engineer's Office in Salt Lake City, he advised the application, providing the replacement well is not further than 150 feet from the existing well, should be approved as a matter of course. He did not anticipate any difficulty in obtaining authority to drill a replacement well.

Under Utah law the old well, which is to be abandoned, must be permanently sealed from the bottom to the top before the driller of the new well leaves the premises.

Since the new well is to be only 20 feet west of the old well, Mr. Marine suggested we make an application to the State Engineer requesting the old well be retained for observation purposes. Mr. Marine pointed out that a much more accurate measurement could be taken in the old well than would be possible to obtain by use of a tape or instruments in the replacement well while it was in operation. It is recognized the 6-inch deviation in the bore may probably give a "stepped" reading from instruments, but Mr. Marine believes the over-all data obtained would be accurate enough to determine draw down and directional flow of the aquifer, if any. The United States Geological Survey has only one or two observation wells in the entire vicinity of Moab, and after the permit has been obtained from the State Engineer granting authority to drill a replacement well, this office will prepare a sketch showing the locked cover we propose to use over the old well after the pump has been removed. I will follow up with the correspondence to the State Engineer to see if it will be possible to have him waive his requirements that the well be sealed from bottom to top before the driller leaves the premises.

By telephone conversation after my return to Santa Fe, Superintendent Wilson has been advised of the action I have taken and propose to take and the well driller, under Utah law, must give the State Engineer's Office a notice of the day he intends to begin drilling before actually commencing the work.

JOHN E. KELL
John E. Kell
Regional Chief of Lands

Copy to: Director (2)
Supt., Arches
N. O. D. C.

10-16-1958: memorandum to district geologist from regional chief of lands regarding geological assistance, drilling of replacement

UNITED STATES

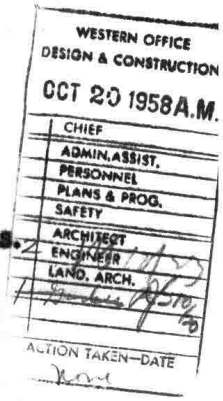
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Region Three
Santa Fe, New Mexico

L-54

October 16, 1958



Memorandum

To: District Geologist, Ground Water Branch, U.S.G.S., 503 Federal Building, Salt Lake City, Utah

From: Regional Chief of Lands, National Park Service, Region Three, Box 1728, Santa Fe, New Mexico

Subject: Geological Assistance, Drilling of Replacement Well, Arches National Monument

The "Notice to Proceed" to drill a well at Arches National Monument is dated August 20 and will be mailed to the Moab Drilling Company, Moab, Utah, probably today.

I have talked with Superintendent Wilson by phone. He has received the sample sacks and plans to drop you a note outlining his proposed method for collecting the samples. He hopes that you will advise him if his proposed method can be improved upon in order to meet your requirements.

The Moab Drilling Company, under Utah law, must file with the State Engineer a notice giving the day they expect to start work. By copy of this memorandum, I am asking Superintendent Wilson to check with representatives of the Moab Drilling Company and advise your office as soon as he knows the date the Moab Drilling Company expects to actually begin work.

This will enable Geologist Don Price to arrange his schedule accordingly. Superintendent Wilson can report progress of the drilling to you or Mr. Price by telephone. We think the formation will be rather uniform so that after the first day's drilling, Superintendent Wilson should be able to anticipate the daily progress unless, of course, some mechanical trouble might be encountered.

The funds for reimbursement of Don Price's assistance are available in the amount of $475 according to the estimate worked out in your office. You may not receive formal authorization from your Washington Office prior to the actual work.

10-16-1958: memorandum to district geologist from regional chief of lands regarding geological assistance, drilling of replacement

Since my return to Santa Fe, I have discovered that we also need assistance from your office at Natural Bridges National Monument. We would like to initiate this study this year and include these funds in our over-all Utah study along with Bryce Canyon, Capitol Reef, and Arches. The Natural Bridges study is a subject of a separate memorandum.

Camp Ground Area

JOHN E. KELL

John E. Kell
Regional Chief of Lands

Copy to: Supt., Arches
Director (2)
W. O. D. C.

10-15-1958: Memo to NPS Regional Director from NPS Regional Chief of Lands re: ground water studies & USGS cooperation

UNITED STATES L-54

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
Region Three
Santa Fe, New Mexico

October 15, 1958

To: Regional Director through Regional Chief of Operations

From: Regional Chief of Lands

Subject: Ground Water Studies, U. S. G. S. Cooperation, Utah

On September 26 after visiting Bryce Canyon National Park and Capitol Reef National Monument, I spent the day in Salt Lake City at the office of District Geologist Herbert L. Waite (Ground Water Division) and discussed with Mr. Waite and Geologist I. Wendell Marine ground water problems in Utah for the remainder of this year.

Enroute to the water rights hearings at Panguitch I stopped briefly at Arches National Monument and visited with Superintendent Wilson. At Arches I learned our Service had awarded a contract for a well which will be a replacement well at the Headquarters area. The present well is unsatisfactory and details regarding it and the replacement well are covered in a separate report titled "Arches". During the discussion at Salt Lake City with Mr. Waite and Mr. Marine it was determined that when the drilling has been started at Arches it would be desirable for a representative of Mr. Waite's office to be present to advise our Service regarding the depth of penetration into the water bearing strata and proper development of the well.

Mr. Marine met me at the water rights hearings at Panguitch and accompanied me to Bryce Canyon and Capitol Reef National Monument. Arrangements have been made for a representative of the United States Geological Survey to be present when the proposed test well is drilled at Bryce Canyon. We also worked out details of a ground water report for Capitol Reef National Monument and the manner in which the report would be prepared.

Separate reports dealing with Bryce Canyon, Capitol Reef and Arches have been prepared in order to facilitate filing. A more complete report regarding the details of the investigations to be carried on this year by representatives of Mr. Waite's office will be covered in an exchange of correspondence between Mr. Waite, myself, and Chief, Water Resources Section A. van V. Dunn.

JOHN E. KELL

John E. Kell
Regional Chief of Lands

Copy to: Director (2)
Supt., Bryce Canyon
U. S. G. S.
Supt., Arches

10-03-1958: Memo from NPS Regional Chief of Operations to Arches NP Supt. re: replacement of existing well

Arches N.M.

cc RG
Ca

UNITED STATES

L-54

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Region Three
Santa Fe, New Mexico

OCT 3 - 1958

Memorandum

To: Superintendent, Arches

From: Regional Chief of Operations

Subject: Application to Replace an Existing Well, State Engineer's Form 112, Arches National Monument

Attached is a copy of Regional Director Miller's letter of October 1 to the State Engineer submitting an application to replace the existing well at Arches National Monument.

When Mr. Kell was in Salt Lake City on September 26 he made arrangements with District Geologist Herbert L. Waite for a representative of the U.S.G.S. to be present during at least a portion of the drilling. Through the use of the service of the U.S.G.S. we will be able to obtain the advice on the proper depth of penetration into the water bearing stratum in order to produce the best well possible. The U.S.G.S. will want samples taken at 10-foot intervals or closer if there is a change in the formation. It is believed that sample sacks can be furnished by the Salt Lake City Office of the U.S.G.S., and we are writing to determine if they can be made available and mailed to you direct.

In discussing the replacement well with Mr. Waite and Wendell Marine, it was their recommendation that the old well be left open and used as an observation well. An observation well within 20 feet of the replacement well would provide more accurate data regarding the draw down and movement of water than attempting to measure direct from the replacement well. The rules and regulations of the State Engineer's Office require the old well to be sealed by the applicant upon completion of the replacement well. However, we believe that upon proper application to the State Engineer we can obtain permission for the old well to remain as an observation well.

If this is done, there must be some provision for capping or covering the old well and the cap or cover should be provided with a lock. We have attached a letter-sized sketch of the existing conditions and would like you to complete the measurements and return to this office. Upon receipt of this information we will submit the proposed plan to Mr. Waite's office to determine if the proposed cap would be satisfactory to him and the State Engineer.

Mr. Kell talked with Mr. Francis T. Mayo, Chief Water Resources Branch, State Engineer's Office while he was in Salt Lake City. Mr. Mayo was of the opinion the application for a replacement well would be approved promptly; and as soon as we have an approved copy, we will advise your office immediately. The contractor should not be authorized to proceed until we actually have an approved application for the replacement well.

(SIGNED)

David H. Canfield
Regional Chief of Operations

Attachments

Copy to: Director (2) ✓
U. S. G. S.

L-54

Region Three
Santa Fe, New Mexico
JUN 15 1958

Don Kell / Covers

Memorandum

To: District Geologist Herbert A. White, Ground Water Division, U.S.G.S., Room 503 Federal Bldg. Salt Lake City, Utah

From: Regional Chief of Lands, National Park Service, Region Three Office, P. O. Box 1728, Santa Fe, New Mexico

This will confirm my telephone conversation with Mr. Good and Mr. Don Price regarding the release of the report "Memorandum Summarizing the Drilling and Test Pumping of Replacement Well at Arches National Monument, Grand County, Utah" by Don Price to the open file.

It is my understanding the contents of the report can be used, if necessary, at the hearing at Moab, Utah on June 17 before representatives of the State Engineer's Office.

If the report is needed in the testimony presented to the State Engineer, I will explain that it has been released subject to minor editorial changes. Your letter giving the necessary clearance should be at Arches by the time I reach there Tuesday, June 16.

Enclosed for the information of Mr. White and Mr. Marino is a letter which I mailed June 8 before I left for Tucson and Phoenix. In the future we will use Room 503, Federal Building with the hope that mail will not be returned.

(SIGNED)

John E. Kell
Regional Chief of Lands

WESTERN OFFICE
DESIGN & CONSTRUCTION
JUN 18 1958 A.M.
CHIEF
ADMIN. ASSIST.
PERSONNEL
PLANS & PROG.
SAFETY
ARCHITECT
ENGINEER
LAND. ARCH.
ACTION TAKEN—DATE
6-22

Enclosure

Copy to: Director (2)
Chief, WODC (2)
Superintendent, Arches

L54

Region Three
Santa Fe, New Mexico

Docket 1
corres

December 19, 1955

Memorandum

To: General Superintendent, Southwestern N. M.

From: Acting Regional Chief of Operations

Subject: Geological Study and Report to Select Well Sites at Arches

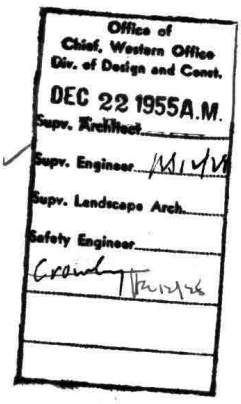
Please refer to your copy of Mr. Dunn's memorandum of November 29 in which he discusses the proposal to make an investigation to determine if water is available at Arches at an estimated cost of $1500. It is our understanding that this investigation relates to the proposed Devil's Garden campground.

In your priority list dated December 2, you list the projects for the Devil's Garden campground in priorities 33, 34 and 35. In view of this, will you please advise what year you feel that the drilling of a test well at Arches should be undertaken. Upon receipt of information from you, we will request Mr. Dunn to schedule such activities from his funds in the year which would be suitable for you.

(SIGNED)

Jerome C. Miller
Acting Regional Chief of Operations

Copy to: Director
WODC
Supt., Arches



11-29-1955: memorandum to regional director from chief regarding geological study and report to select well sites

Chief, Western Office
Div. of Design and Const.
DEC 5 1955A
Supv. Architect
Supv. Engineer NMV
Supv. Landscape Arch.
Safety Engineer
Groundwater

L54-L

November 29, 1955

Memorandum

To: Regional Director, Region Three

Docket 1 copies

From: Chief, Water Resources Section

Subject: Geological Study and Report to Select Well Sites at Arches

The memorandum of August 16 from Mr. Canfield, with copy of report and estimate of the Geolocial Survey, has just been found attached to other correspondence.

The program which was outlined by the Geological Survey in March, at a cost of $1,500, appears to be primarily an investigation project even though the well would be used if adequate water were obtained. The money may be provided from our Water Resources Investigation Account 140.3 (143.2) if funds are available when needed, and it might be well to determine that an adequate supply can be obtained before completing plans and allotting funds for the water system construction.

We suggest that you consider its inclusion in the estimate of investigation funds for the desired year, based on the schedule for the rest of the developments. You should supply us with estimates of all continuing projects, such as those at Carlsbad and the Haunted Spring area at Grand Canyon, and any new projects you wish to start, in time for our budget estimates each year. The question at the moment is whether the development is far enough in the future for inclusion in investigations, or should be included in a construction project you have in a current estimate.

No further investigations seem to be needed before the exploratory drilling.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Arches
General Superintendent, Southwestern National Monuments
Western Office of Design and Construction

03-21-1955: memorandum to regional director from chief regarding water right application 13619

In reply refer to:
L54-L

Office of
Chief, Western Office
Div. of Design and Const.
MAR 28 1955 A.M
Supv. Architect
Supv. Engineer
Supv. Landscape Arch.
Safety Engineer

March 21, 1955

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Water Right Application 13619, Docket 1, Arches

Attached are the original and two copies of order of March 14 granting until December 15, 1958, in which to complete the headquarters water system and make full use of the water at Arches National Monument. The original should filed in Docket 1 at the Monument and copies are for docket assemblies at your office and Southwestern National Monument Headquarters. Also attached are copies of the advertisement and letter by which it was transmitted, for similar filing.

You will note that the State Engineer recommends early proof, even though we have now jumped the hurdle from extensions within to extensions in excess of 14 years, at an added expense of $19.35 for readvertising. While we now have a legal right to further extensions for a total of 50 years from the date the right was established, it is possible that the State water laws may be amended to shorten the time.

There is need for more diligence than Congress has permitted since the war, but proof in this case depends partially on completing the water system but also on completing the residences, lawns, comfort stations and other water using facilities. The problem is to develop the area to accommodate the public.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

In triplicate

Attachments 9

Copy to: Western Office of Design and Construction with attachments

03-21-1955: memorandum to regional director from chief regarding water right application 13619

In reply refer to:
L54-L

March 21, 1955

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Water Right Application 13619, Docket 1, Arches

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SIGNED

A. van V. Dunn
Chief, Water Resources Section

In triplicate

Attachments 9

Copy to: Western Office of Design and Construction with attachments
Mr. Langley
Mr. P. Miller
~~Mr. Dunn~~

AvVDunn:lct

02-05-1955: official receipt no. 33235

FORM 130

PATRON'S COPY WR Copy

STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY, UTAH

OFFICIAL **RECEIPT**

Ky Ex. 13619 Date Feb 25 19 55

Mr. National Parks Service

Address Washington 25, D.C.

NATURE OF SERVICE		FEE RECEIVED	
FILING APPLICATION	$		
APPROVING APPLICATION			
ADVERTISING		19	35
FILING PROOF & MAPS			
ISSUING CERTIFICATE			
COPY			
FILING WELL DRILLER'S REPORTS & PERMITS			
FILING UNDERGROUND WATER CLAIM			
DILIGENCE CLAIM			
BLUEPRINTS			
PLANS & SPECIFICATIONS FOR DAMS			
TOTAL	$	19	35

2

CASH ☐ MONEY ORDER ☐ CHECK ☐

Joseph M. Tracy
STATE ENGINEER

No. 33235 By

02-11-1955: letter to nps from state of utah regarding proof of notice to water users concerning application no. 13619 which appea

Archives

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

JOSEPH M. TRACY
STATE ENGINEER

February 11, 1955

National Parks Service
c/o Mr. A. van V. Dunn
Chief, Water Resources Branch
Washington 25, D. C.

Gentlemen: RE: APPLICATION NO. 13619

Reference is made to enclosed proof of Notice to Water Users concerning your Application No. 13619, which appeared in the Times Independent, Moab, Utah, from January 20, 1955 to February 3, 1955.

You submitted in connection with this application Purchase Order No. 99-258 in the amount of $20.00.

The cost of advertising Application No. 13619 was $19.35; therefore, please submit this amount within 60 days from date, or on or before April 12, 1955, otherwise your application will lapse.

Enclosed are triplicate copies of certified invoice covering the above amount, and your Public Voucher Form No.1034.

Yours truly,

Joseph M. Tracy
STATE ENGINEER

JMG/vm
Enc:Proof (2)
Invoice in triplicate
Public Voucher No.1034

01-04-1955: memorandum to general superintendent from regional chief regarding request for extension of time, application 1361

WR Copy

In reply refer to:
LSh

Region Three
Santa Fe, New Mexico

January 4, 1955

Memorandum

To: General Superintendent, SWRM

From: Regional Chief, Cooperative Activities Division

Subject: Request for Extension of Time, Application 13619, Docket 1, Arches National Monument

Attached is Mr. Dunn's memorandum of December 8 to the State Engineer, Salt Lake City, requesting an extension of time from December 15, 1954 to December 15, 1960 in which to complete the Headquarters water system at Arches National Monument.

Attached to Mr. Dunn's memorandum of December 8 are four pages of excerpts taken from the UTAH CODE Annotated - 1953 - Volume Seven - Sales to Water and Irrigation, and photostat copies of the request for extension of time (after 11 years).

In accordance with the present procedure of keeping original material in the docket at the area, with copies retained in the Region and the office of the Coordinating Superintendent, we have mailed the signed assembly direct to Superintendent Wilson with a copy of this memorandum. Mr. Wilson is familiar with the procedure of placing original material in his water rights docket, and similar material has been placed in Arches Docket 1, Regional Office.

William L. Bowen, Regional Chief
Cooperative Activities Division

In duplicate
Attachments 6
Copy to: Director (2)
Supt., Arches. With 6 attachments

ARCH

12-08-1954: letter to state engineer from chief regarding request for an extension of time

In reply refer to:
L54-L

Office of
Chief, Western Office
Div. of Design and Const.
DEC 13 1954 A.M.
Supv. Architect
Supv. Engineer
Supv. Landscape Arch.
Safety Engineer

December 8, 1954

Mr. Joseph M. Tracy
State Engineer
Salt Lake City, Utah

Reference: Application 13619

Dear Mr. Tracy:

Enclosed is our request for an extension of time, after 14 years, from December 15, 1954 to December 15, 1960, in which to complete the Headquarters water system at Arches National Monument.

Since the application form does not provide for extensive explanations, it may be well to point out that Arches National Monument was enlarged in 1938 at a time when the United States was beginning to divert its peace time activities to the defensive measures which preceded the war. The existing water system and related administrative public water using facilities were constructed as temporary inexpensive expedients. Since the war, there have been Federal limitations beyond the agency control on the use of materials and appropriations which were more essential at various times for national housing and stock piling, and on the Federal budget as an economy measure.

In accordance with your letter of October 13, the provision in the application form and sections 73-2-14, 73-3-6 and 73-3-12 of 1953 Utah Code Annotated, we enclose a voucher with the charges omitted and a purchase order with an estimated cost of $20.00 for the publication of the notice. The statutory provision for the Federal charges seem to be ample and we have authority to pay under Section 12 of the act of August 2, 1946, Public Law 600 (60 Stat. 806).

However, since the original publication only cost $2.43, and any prepayment must be based on statutory or published regulations of your office, it is requested that you sign and date the voucher and show the actual amount due, and return it with a separate statement as to the nature of and basis for the designated amount. We shall also need two copies of the published notice, when available.

Sincerely yours,

(SGD.) A. VAN V. DUNN.

A. van V. Dunn
Chief, Water Resources Section

Enclosures 3
Copy to: Regional Director, Region Three (3) with copy of application
Western Office, Design & Construction

12-08-1954: letter to state engineer from chief regarding request for an extension of time

In reply refer to:
L54-L

December 8, 1954

Mr. Joseph H. Tracy
State Engineer
Salt Lake City, Utah

Reference: Application 13619

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Sincerely yours,

(SGD.) A. VAN V. DUNN,

A. van V. Dunn
Chief, Water Resources Section

Enclosures 3
Copy to: Regional Director, Region Three (3) with copy of application
Western Office, Design & Construction
Mr. Pipes) Please allot unalloted funds of $0.00, if
Mr. Douglas) necessary for obligation
A.vVDunn:lct Mr. Dunn

12-02-1954: handwritten note: data for application for extension of time

12/2/54

Headquarters Well - Arches - Water Right 13619

Data for application for extension of time in excess of 14 years.
from Memo of 11/23/54 from Gen. Supt. Davis

1) Well drilled Feb 16-29, 1940 - App. 13619 approved Sept. 19, 1940

2) 30 gpm pump installed for test - 40 gpm proposed & authorized. 8 gpm jet now used because of limited power - 3 x 8 = 24 gpm, the max comparable 24 hr yield, compared with 40 gpm proposed yield in 8 hr day. Max. daily yield with jet pump = 34,560 gallons.

3) 30,000 gal. reservoir proposed & authorized - only 20,000 gallons provided

4) 4" pipe line authorized, but only 2" pipe installed

5) 2" Pipe line is 1375 feet long and serves

	1953	Prob. Demand with modern facilities
(a) Supt's Res. - 4 people @ 50 gpc =	200 gpd.	200 gpd
(b) Ranger's quarters 4 people @ 50 gpc = (trailer +)	200 gpd.	200 gpd
(c) Office - Warehouse (equipment washing, etc.) hydrant out side = est. utility use 500 gpd (equiv.		3000 gpd)
(d) Trailer at Wayside exhibit (500 gpwk) =	70 gpd.	800 gpd
(e) Public use at " " (500 gpwk) =	70 gpd	
(f) Public use in Windows Sect. (500 gpwk) =	70 gpd	2,580 gpd
(g) Public haul from headquarters (est.	132 gpd	150 gpd.
(h) irrigated area 1953 & 1954 (0.515 acres) ultimate irrigation (5 acres)	2,800 gpd	27,200 gpd
Total 1953 water use	4,012 gpd	33,430 gpd.

The jet pump is apparently now adequate when operating 3-6 hrs/day.

c) There were 943 campers in 1953 & 896 in 1954 - ∴ 1953 is 105% of 1954 use
There were 22,500 picnickers in 1954 ∴ prob 105%, or 23,500 picnickers in 1953

1953 camp water use (est.)	943 x 5 + 4715 gpd	if modern facilities	33005 gpd
" picnickers (=)	22,500 x 1 22,500 gpd		225,000 gpd
Total	27,215 gpd		258,005 gpd.
Average per day with 100 day season	272 gpd		2,580 gpd.
" " " provided 5 @ 25 f	- 140 gpd		
(g) Prob. pub. haul from Wights	132 gpd		150 gpd

7.) Irrigated area 1953 & 1954 0.515 acres with water demand of 3 acre feet per annum per annum = 1.545 acre-feet per year = 505,000 gallons
at 180 day season = 2,400 gpd
Ultimate irrigation of 5 acres at same rate 27,200 gpd

8.) Cost of water system to date $650 :

11-03-1954: memorandum to superintendent from chief regarding perfection of right to diversion and use of water by headquarters

WR Copy

In reply refer to:
L54-L

Air Mail

November 3, 1954

Memorandum

To: Superintendent, Southwest National Monuments

From: Chief, Water Resources Section

Subject: Perfection of Right to Diversion and Use of Water by Headquarters Water System Under Application 13619, Docket No. 1--Arches National Monument

Attached are a copy of a letter of October 13 from the State Engineer and a copy of the request of 1951 for extension of time in which to perfect rights for the subject water system. Copies of the Special Order of the State Engineer will be distributed for the docket assemblies by separate memorandum

Two copies of the docket were sent to the Regional Director on March 15, 1944. The "original" assembly, with signed instruments, was sent to him for the Superintendent on November 14, 1951. The attached request for extension of time was evidently prepared for one of the docket assemblies distributed in 1944 and not sent because of the substitution of the original assembly in the Monument. It is hoped that you have, or can recover, the first assembly sent to the Superintendent, which was designated as Deed 3 at the time.

In the event that you do not have an assembly of the docket, the water claim was for 0.088 sec.ft. or 40 gallons per minute and the construction of a 4-inch pipeline and 30,000 gallon receiver to serve an administration building, public comfort station museum 4 employees residences, a utility area, and an estimated 50,000 annual visitors, based on Drawing ARC-5312 which was subsequently approved in 1951 and is included in the docket. The 1951 request for extension of time is the same as that filed in 1949 except for the revision of attendance records, shows that only one building and a temporary, undersized water system had been completed. A check of the construction accounts since about 1943, in this office, does not reveal any further development in the Headquarters area.

11-03-1954: memorandum to superintendent from chief regarding perfection of right to diversion and use of water by headquarters

In order to show as much diligence as possible in the application for further extension of time, which must be filed before December 15, please confirm or correct the description of water using facilities and their cost. We should know whether any part of the water system has been replaced with pipe of larger diameter or pump of greater capacity as a maintenance or repair measure. We should also have a complete list of employee quarters, including tents or trailers, and the normal population of employees during the tourist season. Any shed and other facilities for equipment maintenance, with approximate daily water use; and the acreage of any irrigated area with description of the type and density of vegetation should also be given. We note that attendance has reached 31,856 for the 1953 travel year, and 29,972 for the year ending September 30, and should like to know what sanitary facilities have been provided for them, whether any of them camp or picnic where they can use water from the system, and about the maximum number of daily campers and picnickers, if any.

In explaining the reasons for not completing the system within 14 years, we propose to refer to war and limitations imposed by the Bureau of the Budget. With copies of this memorandum to the other field offices, we are inviting any other suggestions which any of you can offer.

We are answering Mr. Tracy's question as to mailing address in accordance with a general memorandum of which you will receive a copy.

(SGD.) A. VAN V. DUNN

A. van V. Dunn
Chief, Water Resources Section

Attachments 2

Copy to: Regional Director, Region Three w/c/o State Engineer's letter
Superintendent, Arches National Monument " " "
Western Office of Design and Construction " "
Mr. P. Miller w/c/o State
Mr. Dunn w/c/o State Engineer's letter

AvVDunn:let

10-13-1954: letter to nps from office of state engineer regarding application no. 13619

THE STATE OF UTAH

OFFICE OF STATE ENGINEER

SALT LAKE CITY

JOSEPH W. TRACY
State Engineer

October 13, 1954

National Parks Service
c/o Mr. A. van V. Dunn
Chief, Water Resources Branch
Washington 25, D. C.

Gentlemen: RE: APPLICATION NO. 13619

This is to advise you of the status of the above numbered application.

On November 2, 1951, the State Engineer by Notice of Extension Granted, advised you that the time for submitting Proof of Appropriation under the above numbered application had been extended from December 15, 1951 to December 15, 1954. However, a review of the file indicates that the 14-year period, as provided in Section 73-3-12, Utah Code Annotated, 1953, expired September 19, 1954. The above section of the statute provides that the State Engineer may grant extensions of time not exceeding 14 years from the date of approval of an application, upon a sufficient showing by affidavit but that extensions beyond 14 years from the date of approval may be granted only after application for extension of time, publication of Notice to Water Users and a hearing before the State Engineer. It appears, therefore, that it was a mistake of this office to grant an extension of time, by virtue of said Notice of Extension Granted, beyond September 19, 1954, and said Notice of Extension Granted, regardless of the period of extension expressed on the face of the notice, could not serve to extend the time in which to make Proof of Appropriation beyond September 19, 1954. Therefore, there has been issued a Special Order of the State Engineer wherein the time for submitting proof is extended from September 19, 1954 to December 15, 1954, and wherein you are advised that the last day for submitting Proof of Appropriation, as contemplated by Section 73-3-16, Utah Code Annotated, 1953, as amended 1953, is December 15, 1954.

There is enclosed the above mentioned Special Order of the State Engineer, Notice of Proof Due and one blank form L29, which may be used for the purpose of requesting further extension of time. You are reminded that further extensions can be granted only after publication of Notice to Water Users, the cost of which is to be paid by the applicant, and a hearing before the State Engineer, in accordance with Section 73-3-12, Utah Code Annotated, 1953.

It is noted that the address of record of Application No. 13619 is the United States National Park Service, Coolidge, Arizona. A review of the file indicates that the past several statutory notices have been

National Parks Service
10/13/54

directed to you at various addresses in San Francisco, Chicago and Washington, D. C. It is requested that you formally advise this office as to the proper address to which further statutory notices are to be directed.

Yours truly,

Joseph M. Tracy

Joseph M. Tracy
STATE ENGINEER

FTM/vm
Enc:Special Order
Notice of Proof Due
Form L29

00-00-0000: memorandum re: perfection of right to diversion and use of water ; 1954

In reply refer to:
L54-L

Office of
Chief, Western Office
Div. of Design and Const.
NOV 8 1954 A.M.
Supv. Architect
Supv. Engineer
Supv. Landscape Arch.
Safety Engineer

Air Mail

November 3, 1954

Memorandum

To: Superintendent, Southwest National Monuments

From: Chief, Water Resources Section

Subject: Perfection of Right to Diversion and Use of Water by Headquarters Water System Under Application 13619, Docket No. 1--Arches National Monument

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In the event that you do not have an assembly of the docket, the water claim was for 0.088 sec.ft. or 40 gallons per minute and the construction of a 4-inch pipeline and 30,000 gallon receiver to serve an administration building, public comfort station, museum, 4 employees residences, a utility area, and an estimated 50,000 annual visitors, based on Drawing ARC-5312 which was subsequently approved in 1951 and is included in the docket. The 1951 request for extension of time is the same as that filed in 1949 except for the revision of attendance records, shows that only one building and a temporary, undersized water system had been completed. A check of the construction accounts since about 1943, in this office, does not reveal any further development in the Headquarters area.

11-03-1954: memorandum to superintendent from chief regarding perfection of right to diversion and use of water by headquarters

In order to show as much diligence as possible in the application for further extension of time, which must be filed before December 15, please confirm or correct the description of water using facilities and their cost. We should know whether any part of the water system has been replaced with pipe of larger diameter or pump of greater capacity as a maintenance or repair measure. We should also have a complete list of employee quarters, including tents or trailers, and the normal population of employees during the tourist season. Any shed and other facilities for equipment maintenance, with approximate daily water use; and the acreage of any irrigated area with description of the type and density of vegetation should also be given. We note that attendance has reached 31,856 for the 1953 travel year, and 29,972 for the year ending September 30, and should like to know what sanitary facilities have been provided for them, whether any of them camp or picnic where they can use water from the system, and about the maximum number of daily campers and picnickers, if any.

In explaining the reasons for not completing the system within 14 years, we propose to refer to war and limitations imposed by the Bureau of the Budget. With copies of this memorandum to the other field offices, we are inviting any other suggestions which any of you can offer.

We are answering Mr. Tracy's question as to mailing address in accordance with a general memorandum of which you will receive a copy.

(SGD.) A. VAN V. DUNN.

A. van V. Dunn
Chief, Water Resources Section

Attachments 2

Copy to: Regional Director, Region Three w/c/o State Engineer's letter
Superintendent, Arches National Monument " " "
Western Office of Design and Construction " "

10-13-1954: letter to nps from office of state engineer regarding application no. 13619

FORM 18
1M 5-53

W R Cohy
@

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
Arches

SALT LAKE CITY

October 13, 1954

National Parks Service
c/o Mr. A. van V. Dunn
Chief, Water Resources Branch
Washington 25, D. C.

Gentlemen: RE: APPLICATION NO. 13619

Proof as contemplated by the above numbered Application will be due December 15, 1954 . Such proof, together with maps, profiles, if required, and drawings in conformity with rules and regulations promulgated by the State Engineer, and the statutory filing fees, must be received in this office on or before that date. The law provides that failure to make proof of appropriation or proof of change of the water on or before the date set therefor, shall cause the Application to lapse. Blank forms upon which proof must be submitted and a copy of the Rules and Regulations will be sent upon request.

Your attention is called to the fact that the 14 year period during which the State Engineer may grant extensions of time in which to submit proof of appropriation without publication, ~~ended~~ will end December 15, 1954 . Further extensions may be granted only upon application to the State Engineer, publication of notice and a hearing before the State Engineer as provided by law.

Request for extension of time, made in affidavit form, must show diligence or a reasonable cause for delay and contain the following information:

1. Date actual construction work was begun and whether or not construction work has been prosecuted until this time with diligence.
2. Amount of work done to date and approximate cost.
3. Amount of work remaining to be done and its estimated cost.
4. Reason for extension, and time desired.

A fee of $20.00 to cover the cost of publishing notice of hearing must accompany each request. A blank form for extension of time is enclosed.

Yours very truly,

Joseph M. Tracy

ADDRESS ALL COMMUNICATIONS TO:
Joseph M. Tracy
STATE ENGINEER
STATE CAPITOL
SALT LAKE CITY, UTAH

le

Encl. F-29

PROOF DUE - - - ADV. REQUIRED

MEMORANDUM COVERING THE RESULTS OF A PRELIMINARY FIELD RECONNAISSANCE OF GROUND-WATER CONDITIONS AT ARCHES AND NATURAL BRIDGES NATIONAL MONUMENTS, SOUTHEASTERN UTAH(BASED ON 3-DAY FIELD INSPECTION OF THE TWO AREAS BY BEN E. LOFGREN AND LORENZO DEMARS DURING THE PERIOD MARCH 15-17, INCL.).

Prepared by
Ben E. Lofgren,
March 22, 1954

ARCHES NATIONAL MONUMENT

Conclusions:

The possibility of obtaining a satisfactory ground-water supply to meet the proposed camp-site needs in the Devil's Garden area is favorable. Although there are virtually no surface evidences of ground water in the vicinity, it is believed that sufficient ground-water retention is provided in the well-developed joint structure of the sandstone bedrock and in the alluvial sands entrapped in the cove of the Devil's Garden "loop" to maintain a continuous water-supply from one season of precipitation until the next. The drilling of a shallow well, as herein recommended, is to be considered as a ground-water prospect well and not necessarily as the final installation.

Recommendations:

It is recommended that an 8-inch water well be drilled within the "loop" of the Devil's Garden area to a depth estimated at approximately 250 feet. This well should be designed so as to draw water from the saturated sands overlying the shallow bedrock and from the well-developed joint structure of the Entrada sandstone formation. The well should be aligned with one of the major joint systems that occur between two prominent "fins" and near enough the center of the "loop" area to take advantage of the reservoiring possibilities provided by this cove. This well should be deep enough to penetrate the entire thickness of alluvial sand, estimates at less than 100 feet, and should continue at least 50 feet into the underlying, jointed, sandstone bedrock. Drilling should not proceed beyond a total depth of 400 feet, in the event that an adequate supply of water is not readily encountered at a shallower depth. It is also recommended that a competent geologist be at the well site during the entire drilling operation.

Discussion

To meet the proposed camp-site demands, a water supply of about 10 gallons per minute is required in the Devil's Garden area. Since no surface water occurs in the vicinity, it is proposed that a ground-water supply be developed as near to the site of the campgrounds as is practicable.

Evidence collected during a brief geologic reconnaissance of the area suggests that the possibilities of developing a ground-water supply from deep bedrock aquifers are not too favorable. However, it is probable that an adequate water supply can be developed from the shallow alluvial sediments and from the unusual "fin" structures in the "loop" area. The parallel "fin" structure of the Entrada sandstone, trending into the "loop" area from the northwest, appears to be a deep, joint feature and, as a result, the sandstone probably has an appreciable water-holding capacity. Storm run-off that accumulates in the pond area is known to puddle for more than 10 days, suggesting a sizable, fairly tight, underground reservoir.

Costs:

It is estimated that a well-drilling contractor might charge from $4.00 to $10.00 per lineal foot, including the cost of the casing. The cost of drilling would be dependent on the type of materials encountered. The cost of drilling in unconsolidated sediments would be somewhat less than the cost of drilling in sandstone. Any costs in connection with technical supervision of the drilling program, including the collection and interpretation of sample cuttings by a qualified geologist, chemical analysis of samples of water obtained during the drilling, preparation of report, and other related services, would be in addition to the drilling costs.

NATURAL BRIDGES NATIONAL MONUMENT

Conclusions:

The possibilities of developing an adequate ground-water supply in the proposed new headquarters area in Natural Bridges National Monument appear favorable, but depends entirely on conditions of water saturation within the Cedar Mesa sandstone formation. Since no wells have penetrated the Cedar Mesa in this locality, little information is available as to the water-bearing properties of this formation. The upper part of the Cedar Mesa sandstone has been trenched by White River and its tributaries, and, as a result, it is quite likely that much of the upper part of the formation has been drained out along White Canyon and its tributary canyons. The Cedar Mesa sandstone is reported to be 1,000 feet thick in the White Canyon area, and it is possible that some of the lower portions of the formation may be saturated. A few extremely minor seeps along canyon walls suggest that some water does exist in the formation; however, the first well in the area must be considered as a prospect hole.

Recommendations:

It is reported that a water well is to be drilled by the Atomic Energy Commission in White Canyon in the vicinity of the HappY Jack Uranium Mine, under conditions similar to those that prevail at the Bridges site. Since this well will test the water possibilities of the Cedar Mesa sandstone, it is suggested that final decisions pertaining to the Bridges well be delayed several months until the data from the AEC test well are available. In the event that it is decided to drill a test well at the Bridges site, it is recommended that an 8-inch, uncased well be drilled by cable-tool equipment in the proposed headquarters area. Care should be taken to thoroughly test all potential water-producing zones that might be encountered as drilling advances, because small quantities of ground water may be encountered anywhere within the formation, and because conditions of complete saturation of the entire formation probably do not exist. The selection of an exact site to be tested within the headquarters area is not too important, and in no instance should drilling be continued beyond an 800 ft. depth.

Description:

The Cedar Mesa sandstone member of the Cutler formation dominates the area between White Canyon and Armstrong Canyon, and has been entrenched by streams to depth of 50 to 200 feet. It consists of thick beds of light cream-colored, cross-bedded, fine-grained, calcareous sandstone, with local thin beds of red shale near the top. Developed principally along the major red shale strata are natural shelters and undercut alcoves, with numerous small hanging gardens and some evidence of water seeps. These alcoves are due principally to the rapid differential erosion of the less resistant shales, and partly to the water seepage that occurs along these strata. Field indications suggest that the fine-grained sandstones are moderately permeable, but that the red shale tends to

"hold up" the percolating waters. Thus, an adequate water supply might be encountered in a saturated zone above one of these shale horizons. It is probably that a successful well in this area would have to penetrate depths greater than the incised stream channels which have a tendency to drain the sandstone formation.

Costs:

It is expected that drilling costs in Natural Bridges Headquarters Area will be somewhat more expensive than in Arches National Monument. At Natural Bridges, drilling will be entirely in the Cedar Mesa sandstone.

An estimated footage cost of one dollar per diameter-inch of drilled hole is sometimes quoted for this type of drilling. Thus, if it were necessary to drill a well 600 ft. deep to encounter water, an 8-inch well would cost approximately $5,000.00. Unusual expenses, such as costs of hauling drilling water, getting the equipment onto the well site, may be added to this figure. Also, any costs in connection with technical supervision of the drilling program, including the collection and interpretation of sample cuttings by a qualified geologist, chemical analysis of samples of water obtained during the drilling, preparation of report, and other related services would be in addition to the drilling costs.

Taken from UTAH CODE Annotated - 1953 - Volume Seven - Sales to Water and Irrigation

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73-3-12. Time limit on construction of work and application of water to beneficial use--Extensions of time--Procedure in case of extensions beyond fourteen years--Finality of engineer's decision--Effect of failure to make proof for fifty years.--The construction of the works and the application of water to beneficial use shall be diligently prosecuted to completion within the time fixed by the state engineer. Extensions of time, not exceeding fifty years from the date of approval of the application, may be granted by the state engineer on proper showing of diligence or reasonable cause for delay. Extensions not exceeding fourteen years after the date of approval may be granted by the state engineer upon a sufficient showing by affidavit. But extensions beyond fourteen years shall be granted only after application, publication of notice and a hearing before the state engineer. Such notice shall be published at the expense of the applicant, three times, once each week for three successive weeks, in a newspaper of general circulation in the county in which the source of supply is located. The notice of the proposed hearing shall contain the name and address of the applicant, the number of the application, the amount and source of supply of water filed on, the purpose for which it is to be used, the approximate expenditures already made, an estimate of the future expenditures required and the additional time asked for, and the date and place of the hearing before the state engineer. Whereupon any person interested may, at any time within thirty days after completion of publication of such notice, file with the state engineer a written protest against the granting of such extension of time, stating the reasons therefor, and may appear and adduce testimony at the hearing in support of such protest, all of which shall be considered by the state engineer. The decision of the state engineer shall be final, unless an action to review such decision is filed in the district court as provided by section 73-3-14.

An application upon which proof has not been submitted shall lapse and have no further force or effect after the expiration of fifty years from the date of its approval; provided, however, that if the works be constructed with which to make beneficial use of the water applied for, the state engineer may, upon showing of such fact, grant additional time beyond the fifty year period in which to make proof.

Taken from UTAH CODE Annotated - 1953 - Volume Seven - Sales to Water and Irrigation

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73-3-6. Publication of notice of application--Expense--Contents--Exception as to underground water for domestic or livestock purposes--Corrections or amendments of application--Judicial review.--When an application is filed in compliance with this title the state engineer shall at the expense of the applicant, to be paid in advance, publish in a newspaper having general circulation within the boundaries of the river system or near the water source from which the appropriation is to be made a notice of the application showing by whom made, the quantity of water sought to be appropriated; the stream or water source from which the appropriation is to be made and at what point on the stream or water source; the use for which it is to be appropriated and by what means; which notice shall be published at least five times, once a week for a period of five successive weeks; provided the state engineer shall not publish notice of the application for appropriation of underground water when the application is for domestic and for livestock purposes and a flow of 0.015 second feet (6.73 g.p.m.) or less. Clerical errors, ambiguities and mistakes which do not prejudice the rights of others may be corrected by order of the state engineer either before or after the publication of notice. After publication of notice to water users, the state engineer may authorize amendments or corrections which involve a change of point of diversion, place or purpose of use of water, only upon republication of notice to water users. Any person aggrieved by an order of the state engineer authorizing any alteration of an application may file an action for plenary review thereof as provided by section 73-3-14.

Taken from UTAH CODE Annotated - 1953 - Volume Seven - Sales to Water and Irrigation

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73-2-14. Fees of state engineer - The state engineer shall collect the following fees which shall be paid by him monthly into the state treasury to the credit of the general fund.

For examining and filing applications:

To appropriate any quantity of water up to and including 10 second-feet, for each application, $2.50, and in addition, $1. for each second-foot or fraction thereof above 10;

To appropriate for storage any quantity of water up to and including 500 acre-feet, $2.50, and in addition, two cents for each acre-foot above 500;

For a permanent change of point of diversion, place or purpose of use, $2.50;

For temporary change of point of diversion, place or purpose of use, $1;

For exchange, replacement or segregation, $2.50;

For a well driller's permit, $1;

For extensions of time in which to resume use of any quantity of water up to and including 10 second-feet, for each such application, $5, and in addition, $2 for each second-foot above 10;

For extensions of time in which to resume use of any quantity of storage water up to and including 500 acre-feet, $5, and in addition, two cents for each acre-foot above 500;

When filing fee for any application shall exceed $1,000, the balance of the fee in excess of $1,000, may, at the option of the applicant, be paid at the time when proof of the completion of works is submitted.

The following additional fees shall be charged:

For approving a completed application to appropriate water, to permanently change the point of diversion, place or nature of use, to exchange or replace water, or to segregate, $2.50.

73-2-14 (continued)

For examining and approving plans and specifications for any dam, $1 for each foot or fraction thereof in height above the point where the longitudinal axis of the dam crosses the center of the stream bed, or if the dam is constructed across the outlet of a lake, $1 for each foot or fraction thereof in height above the point where the longitudinal axis of the dam crosses the subgrade of the outlet; provided, no fee shall be paid or charge made for inspection of the site where the dam is to be built or for examining and approving plans and specifications for dams submitted by the United States or any agency or department thereof.

For examining maps, profiles and drawings which are part of the proof of appropriation, permanent change, replacement or exchange, $5.

For filing written proofs of appropriation, permanent change, replacement or exchange, $1.

For examining and filing report of well and tunnel drillers, $1.

For examining and filing each notice of claim to water, $2.50.

For issuing certificate of appropriation, permanent change, replacement or exchange, $1.

For copy of any paper, except application, proof, claim or certificate, for each 100 words 20 cents, if one page or less; 25 cents for each page of any document consisting or more than one and less than five pages; 75 cents an hour for copying documents consisting of more than five pages; for copy of application, proof, claim or certificate, without flyleaf, $1; for copy of flyleaf, 20 cents for each 100 words; for carbon copies, 5 cents for each page.

For one copy of blueprint from tracing of a map, profile or drawing, per square foot 10 cents; for additional copies, per square foot 5 cents.

For each certification, 50 cents.

The United States of America shall not be required to pay any fees or charges provided by Title 73, Utah Code, Annotated 1953 relating to water and irrigation except costs of publication of notices.

10-11-1951: letter to nps from state of utah regarding application no. 13619

orm 21 4M 7-15-51

THE STATE OF UTAH
OFFICE OF STATE ENGINEER

SALT LAKE CITY
October 11, 1951

Archer N. M.
Richey
Dunn

National Parks Service
c/o Mr. A. van V. Dunn
Chief, Water Resources Branch
Washington 25, D. C.

Gentlemen: RE: APPLICATION NO. 13619

Proof as contemplated by the above indicated application will be due December 15, 1951 . Such proof, together with maps, profiles and drawings, and the statutory filing fees, must be received in this office on or before that date. "Failure to make proof of appropriation or proof of change of water on or before the date set therefor, shall cause the Application to lapse." (Section 100-3-17, Utah Code Annotated 1943.)

Blank forms upon which proof must be submitted and a copy of the Rules and Regulations will be sent upon request. Upon receipt of the proof it will receive an office examination after which a field inspection will follow.

An extension of time for filing proof will be granted only upon the filing of a written request for extension made in affidavit form, showing diligence or a reasonable cause for delay and containing the following information:

1. Amount of work done and approximate cost.
2. Amount of work remaining to be done and its estimated cost.
3. Reason for extension and time desired.

Yours very truly,

Joseph M. Tracy

ADDRESS ALL COMMUNICATIONS TO:

Joseph M. Tracy
State Engineer
403 State Capitol
Salt Lake City 1, Utah

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Encl: F L-25

PROOF DUE

01-10-1950: memorandum to regional director from chief regarding extension of time under water right application 13619 covering

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

In reply refer to:
L54 ARCH

January 10, 1950

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Branch

Subject: Extension of time under Water Right Application 13619 covering Headquarters Water System, Arches National Monument

Enclosed are two photostat copies of an order granting extension of time until December 15, 1951, in which to complete the Headquarters Water System and make full beneficial use of the water at Arches National Monument. These should be added to the assemblies of Arches Deed No. 3 in the files of your office and at the Monument.

Your attention is called particularly to the postscript by Mr. Linke, earnestly recommending that we prepare and submit final proof at the earliest possible date. It seems to be the intent of Mr. Linke, as suggested in this order and in various correspondence which we have received, to try to force the perfection of water rights if the applicants are not able to give strong arguments for retarded construction and proof.

We shall probably have to explain the status of developments in the various parks and monuments on the basis of use and appropriations before we get very many more extensions of time from Mr. Linke. It is of course utterly impossible to perfect rights under the particular Application 13619 until the Headquarters area is completed, but in this case and in any other it will be extremely helpful if the field office will report whenever there is any progress toward the completing of a water system or making additional use of water wherever water rights are still in application-permit form.

(SGD.) A. VAN V. DUNN.

A. van V. Dunn
Chief, Water Resources Branch

Attachments 2

In duplicate

AvanVDunn:sh

12-09-1949: memorandum to regional director from chief regarding water right, application 13619

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

In reply refer to:
L54 ARCH

December 9, 1949

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Branch

Subject: Water right, Application 13619, Headquarters Water System, Arches National Monument

The memorandum of December 2 from Mr. Lassiter indicates nominal agreement between the data which I submitted to justify an extension of time in which to perfect water rights at Arches National Monument under Application 13619 and conditions as they exist.

There is no need for pressing the development of the water system as a means of perfecting water rights any faster than we can complete the general development of the headquarters and utility area, including sewer systems, residences, public comfort stations, office buildings, and other water-using facilities. In asking for information on recent developments or in making similar requests at approximately two-year intervals in the future, we will merely be attempting to obtain data to show some evidence of progressive development of the area. In some years, you may wish to report the construction of two or three new residences to accomodate a specified population, rather than any further water development other than the connections from the water main.

One of our statements, however, seems to have been misconstrued by Mr. Lassiter--namely, that relating to the state recognition of municipal status. There has been no general recognition of municipal status at all areas of the National Park System in Utah. The state did recognize municipal status for Zion National Park when the applications for amendment of Crawford and Gifford Ditch rights were filed. State Engineer Humpherys refused to recognize municipal status for Bryce Canyon National Park, but Mr. Watson subsequently agreed to do so, and Application 14066 was succeeded by Application 20278 on that basis. So far, State Engineer Links has not rejected any proof in connection with the Bryce Canyon right on the basis of municipal status, but, somewhat like Mr. Humpherys, he seems to be offering every excuse he can find to make it difficult for this Service to perfect the federal water right, and we know that the state and the United States are not entirely in harmony in their attitudes toward the jurisdiction over the waters flowing through Utah.

In the particular case, Application 13619 is filed on the form now obsolete for domestic and municipal purposes and, under the policy recently established by Mr. Linke, will be accepted only as an application for domestic water rights. To establish municipal purposes, we have to file a new application, as we have done in connection with the Bryce Canyon water right. However, it is not now possible to determine whether the headquarters and utility area of Arches National Monument will ever become a community of sufficient magnitude to merit municipal status. It is also impossible at this time to determine whether the State Engineer in office at the time final proof is offered would see fit to recognize municipal status or not.

(SGD.) A. VAN V. DUNN.

A. van V. Dunn
Chief, Water Resources Branch

In duplicate

AvanVDunn:sh

12-02-1949: memorandum to director from regional engineer regarding water right, application 13619

WR Coby (OK)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

In reply refer to:
L54 ARCH

Region Three
Santa Fe, New Mexico

December 2, 1949

Memorandum

To: Director

From: Regional Engineer

Subject: Water right, Application 13619, Headquarters Water System, Arches National Monument

Reference is made to Mr. Dunn's memorandum of October 19, in which he requests information to justify the request for an extension of time on the above mentioned water right.

The only additional use of water at headquarters area was made last year when a trailer house, secured from war surplus, was set up for use by the monument Ranger. This trailer house was connected to the water system and a small cesspool dug about fifty feet from it.

The original application was for 0.0888 second feet, or 40 gallons per minute. A Peerless turbo gear pump of 30 g.p.m. capacity was installed in the well. However, this pump failed in 1943 and was replaced with a pump jack which had been formerly used at Aztec Ruins National Monument, with a 2⅜ inch cylinder and a 6 inch stroke. This pump delivers about 6 g.p.m. This latter installation was a war time measure only and will be replaced with a larger size pump when the demand justifies.

Although the distribution system has not been installed in accordance with the original plan, it will deliver water at the Superintendent's residence at a higher rate than the Peerless pump, capacity of 30 g.p.m. Since the State Engineer has recognized our water systems as being in the same class as municipal systems, it is suggested that the proof of use be based on the installation of the Peerless turbo gear, 30 g.p.m., pump, as that pumping rate is less than the distribution rate which we have already installed.

The fact that the Peerless pump is not now in use should not necessarily influence our proof of use as that pump has been

used and will be used again when the funds are available to repair it and the demand for water justifies.

(SIGNED)

J. R. Lassiter
Regional Engineer

In duplicate

Copy to: Superintendent, Arches

10-19-1949: memorandum to regional director from chief regarding water right proof under application 13619

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

In reply refer to:
L54 ARCH

ADDRESS:
THE DIRECTOR, NATIONAL PARK SERVICE

October 19, 1949

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Branch

Subject: Water right proof under Application 13619,
Headquarters Water System - Arches National Monument

We have just received the notice of proof due on December 15 in connection with the above designated application, with a forwarding letter which states:

1. That wartime leniency is over, and adequate justifications must be submitted to obtain further extensions of time in Utah.

2. That the last legislature amended the water laws to eliminate the need for formal proof in connection with the appropriation of less than 0.015 sec. ft. (9,700 gal. per day) for domestic or stock watering purposes.

Our records show that the extent of the headquarters area development is still limited to rough grading, the water system with pipe of smaller diameter than will be needed ultimately, one superintendent's residence, and a cesspool. It is assumed that no landscaping with extensive irrigation has been attempted with so little of the construction started. The well driller's pump test showed a well yield of at least 10 g.p.m., or 0.023 sec. ft., and correspondence suggests that a true yield and ultimate use of four times that quantity is anticipated.

Accordingly, please advise what justification you can offer to help me in a request for another extension of time. Also, please correct my statement of existing developments, if possible.

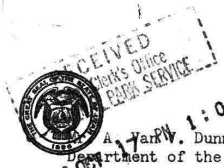
(SGD.) A. VAN V. DUNN.

A. van V. Dunn
Chief, Water Resources Branch

In duplicate

AvanVDunn:sh

00-00-0000: letter from state engineer on proof due; 1949



L54REG3

THE STATE OF UTAH

OFFICE OF STATE ENGINEER

H. A. LINKE
STATE ENGINEER

SALT LAKE CITY

A. Yan W. Dunn
Department of the Interior
National Park Service, Washington 25, D. C.

October 11, 1949

Dunn Vint

Dear Sir:

RE: APPLICATION NO. 13619 Andrus

Since the creation of the State Engineer's Office on March 12, 1903, the procedures necessary to appropriate water in the State of Utah are as follows;

An application to the State Engineer must be filed containing the necessary information relative to the proposed appropriation. After this application has been put in adequate form and is complete it is either approved or rejected by the State Engineer. Your application was approved and at the time of approval, in accordance with the statutes, it is the State Engineer's duty to fix a time within which proof of appropriation must be submitted. The application itself is only a right granted by the State Engineer to proceed to appropriate the water. After the water has been used as contemplated and set forth under the application, the proof above referred to must be submitted to the State Engineer indicating the quantity, nature and extent to which the water has been used. The law provides that this proof must be prepared by a reputable civil engineer.

In the instance of your application above captioned, in the past the time has been extended in which proof might be submitted for the following reason: During the World War it has been extremely difficult for you and others similarly situated to obtain the services of competent engineers to do this work as most of the engineers have either been in the service of their country in the field of combat or in industry connected therewith. This, in instances similar to yours, has caused the State Engineer to extend the time, on his own motion, on several occasions. Now that this emergency is past and engineering services are obtainable, it is to your interest to complete your appropriation and receive your certificate for the same, which will be the conclusion of the procedures in the State Engineer's Office and will constitute prima facie evidence of your water right.

Since the work of preparing the proof is of a professional nature, you should depend upon an engineer in whom you have confidence to prepare the same for submission to this office. If, for any reason, there is a question in your mind as to the procedures necessary to comply with the statutes in this respect, you are cordially invited to call at this office and have the procedures explained to you.

The proof above referred to, together with maps and the statutory filing fee of $1.00 and the fee of $5.00 for examining the maps will be due in this office December 15, 1949 . "Failure to make proof of appropriation or proof of change of water on or before the date set therefor shall cause the application to lapse." (Section 100-3-17 Utah Code Annotated 1943.) Blank forms upon which proof must be submitted and a copy of the Rules and Regulations will be sent upon request. Upon receipt of the proof it will receive an office examination after which a field inspection will follow.

An extension of time for filing proof will be granted only upon the filing of a written request for extension made in affidavit form, showing diligence or a reasonable cause for delay and containing the following information;

1. Amount of work done and approximate cost.
2. Amount of work remaining to be done and its estimated cost.
3. Reason for extension and time desired.

ADDRESS ALL COMMUNICATIONS TO:

Yours truly,

H. A. Linke
STATE ENGINEER
403 STATE CAPITOL

FWC/ bcb
Enc: Form L-25
See attached notice.

The last legislature made provision that in instances of appropriations of water for stock watering or domestic purposes where the flow of the well was less than .015 second foot, no proof of appropriation is required. If you have measured the water from your well and by such measurement it has been determined that it does not yield more than the quantity specified, you should write a letter to the State Engineer stating the flow which you have measured. After that letter has been received indicating that the flow is less than that required for proof, the files in this office will be made to show that no proof is due and the whole matter will have been closed.

09-08-1949: memorandum to director from regional engineer regarding water right application 13619

WR Cpy

In reply refer to:
L54 ARCH

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Region Three
Santa Fe, New Mexico

September 8, 1949

Memorandum

To: Director

From: Regional Engineer

Subject: Water Right Application 13619, Arches National Monument

The only change in the water system at Arches National Monument has been the extension of a line to serve the trailer house which was set up to provide quarters for a ranger. This makes a total of two houses which are now served by the headquarters water system. It will be a long time before the headquarters development reaches the stage where it will utilize the water right amounting to 0.088 second feet of water. We have not made any measurements or studies of the well but believe it will produce somewhere near the 40 gallons per minute that the water right calls for. No change should be made in the amount of water involved until such time as it is definitely proven that the well will not produce this much water.

(SIGNED)
J. R. Lassiter
Regional Engineer

In duplicate

Copy to: Superintendent, Arches

A. van V. Dunn
Chief, Water Resources Branch

Expect auto matic extension of time. See letter of Oct 7, 1943 from State engineer re this permit if justification is needed for not having requested extension of time 9/19

08-31-1949: memorandum to regional director from chief regarding water right application 13619

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

ADDRESS:
THE DIRECTOR, NATIONAL PARK SERVICE

In reply refer to:
L54 ARCH

August 31, 1949

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Branch

Subject: Water Right Application 13619, Arches National Monument

Our records indicate that proof or another extension of time will be needed under Water Right Application 13619 (Deed 3), covering the Headquarters Water System at Arches National Monument, by December 15.

Please advise what changes have been made since the last extension of time was requested. Assuming that the system is not yet adequate for the diversion or full beneficial use of the designated 0.088 second-feet of water, we should also like to know whether any measurements or studies have been made to determine whether the final proof will have to be made for a lesser amount because of inadequate source of supply.

(SGD.) A. VAN V. DUNN.
A. van V. Dunn
Chief, Water Resources Branch

In duplicate

AvanVDunn:sh

10-23-1945: letter to nps from office of state engineer regarding application no. 13619

C O P Y

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY 1, UTAH

ED. H. WATSON
State Engineer

Oct. 23, 1945.

Mr. A. Van V. Dunn
Chief, Water Rights Division
Department of the Interior
National Park Service
Chicago, 54, Ill.

Dear Sir:

Re: APPLICATION NO. 13619.

Under your application to appropriate underground water from a well, or wells, designated in this office by the number appearing above, proof of appropriation will be due on December 15, 1945.

Because of present conditions and the unavailability of engineering assistance to prepare proofs, the time in which to submit proof has been extended to and including December 15, 1947.

Yours very truly,

(Sgd.) Ed. H. Watson

Ed. H. Watson
STATE ENGINEER

FWC/nty
ba

NOTE: Attach this letter to your approved application for reference.

E.H.W.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION THREE
SANTA FE, NEW MEXICO

April 2, 1945.

MEMORANDUM for the Director.

With reference to Mr. Burney's memorandum of March 27 regarding the pumping installation at Arches National Monument, the information contained in his memorandum is essentially correct.

We first had trouble with the Arches well sanding over a year ago. On two occasions it was necessary for us to pull the Simplex Gearturbo pump, because the sand in the casing had gradually worked up to cover the valve at the base of the pumping unit. After the sand was baled out, there seemed to be no change in the water table or the flow of the well. However, after the last cleaning, the tubing which suspends the turbo unit crystallized and broke off, falling into the well. Although repeated efforts were made with the best well equipment we could obtain in the Moab area, it was impossible to fish this unit out of the casing.

Because of the excessive maintenance cost, it was decided to put in a smaller working barrel type pump for the time being, which would meet our limited needs during wartimes. The working barrel of this pump has been set higher in the casing than was the former unit, and so far we have had no difficulty with sand.

Although we have not been able to determine exactly, it is believed that part of the sand in the well may have worked down around the casing since there was considerable vibration from the turbo unit. Since that time, we have attempted to make a better seal around the outside of the casing to eliminate the above-suggested possibility.

Another reason that we did not repair the existing pump was that the parts would cost in the neighborhood of $200.00, plus shipping cost and installation charges. Even then, we had no assurance that the unit would operate satisfactorily since it would have been necessary to place it at a much shallower depth, and there was a possibility of pumping off the head of water in the casing. There were also not sufficient funds in our limited National Monuments appropriation to take care of the extra expense involved.

The placement of a smaller pumping unit in the Arches well should be considered strictly a wartime measure, as it will not provide sufficient water for normal domestic demands after the war. It is our

intention to replace the original pump at that time, or to secure a new one. In this connection, it will be necessary to clean out the casing and fish out the old pumping equipment.

We will attempt to make a check from time to time to determine whether sand is continuing to build up in the casing.

CHARLES A. RICHEY

Charles A. Richey,
Assistant Regional Director.

In duplicate.

cc: Custodian Arches,
(With copy of Mr. Burney's memorandum of March 27).

54

March 27, 1945.

MEMORANDUM for the Regional Director, Region Three.

Reference is made to Mr. Richey's memorandum of March 23 describing the new pump unit installed at Arches National Monument in November 1944. It is a little difficult to understand what the development plan is to be from the succeeding decreases in diversion capacity.

At the time the well was drilled there was a test pump by bailer of 10 gallons per minute for 17 hours with no lowering of the water level and no report of sand. By memorandum of February 9, 1944, Mr. Richey reported that the well driller had estimated the well capacity at between 30 and 40 gallons per minute. On this basis the water right application was filed for 0.088 second-foot or approximately 40 gallons per minute.

In the request for extension of time which was signed on September 22, 1943, a pump of 30 gallons per minute capacity was reported as already installed. By the latest report this pump was replaced by one of only 6 gallons per minute capacity in November 1944 and no sand was obtained in pumping. This new pump will deliver only 8,640 gallons per day or 2880 gallons during an 8-hour shift.

We should like to know why such a small unit was installed, and whether the references to sand indicate that the well is showing signs of reduced yield so early in the development.

(SGD) A. W. BURNEY

Acting Chief Engineer.

AvVD:sh.

In duplicate.

cc: Mr. Dunn.

03-08-1945: memorandum to regional director from chief regarding description of the new pump reported in the minutes

March 8, 1945.

MEMORANDUM for the Regional Director, Region Three.

Please supply us with a description of the new pump reported in the minutes of your February 19 staff meeting to have been installed at Arches National Monument. Such data on changes in diversion capacity are needed for the water rights records.

(SGD.) A. VAN V. CLU[illegible]

AvVD:sh.
In duplicate.

Chief, Water Rights Division.

Notes from Superintendent's Report, Southwestern National Monuments,

October, 1944.

Chaco Canyon without water until pump head on plant in Farmington was repaired.

Undersized pump installed at Arches because of high bids on Peerless Gearturbo Pump.

Breaks occurred in the pipe line between Clarksdale and Tuzigoot National Monument.

Mr. Hughie, Soil Conservation Service, Farmington, New Mexico, made tests and survey of drainage problem at Aztec Ruins.

October water use at Mesa Verde 88,421 gallons.

04-06-1944: memorandum to regional director from acting chief of lands regarding receipt submitted for the files of the water right

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

APR 10 1944
ROUTING



ADDRESS ONLY
THE DIRECTOR, NATIONAL PARK SERVICE

April 6, 1944.

MEMORANDUM for the Regional Director, Region Four.

The enclosed receipt is hereby submitted for the files of the Water Rights Section for Deed No. 5, Craters of the Moon National Monument.

Receipt is also acknowledged of Deed No. 3, Arches National Monument, recently submitted to this Office from the Water Rights Section.

Ben H. Thompson
Acting Chief of Lands.

In duplicate.

Enclosure 290.

03-18-1944: memorandum to water rights section from nps regarding deed 3 has been received in the office of region three

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

REGION THREE
SANTA FE, NEW MEXICO

Arches

3/18/44.

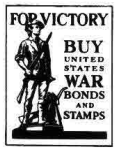
MEMORANDUM for the Water Rights Section.

Arches National Monument Deed 3 has been received in the office of Region Three.

J. R. Penniston
Reg. Engr.

MAR 21 1944

FILE



03-15-1944: memorandum to director from hydraulic engineer regarding assemble of deed 3 with original instruments

WATER RIGHTS SECTION
601 Shelden Building
San Francisco 5, California

March 15, 1944.

MEMORANDUM for the Director.

Reference is made to Mr. Wirth's memorandum of March 10 transmitting your incomplete copy of Arches Deed 3, Water Right Application 13619, as enclosure No. 268.

In exchange, we return the complete assembly of Deed 3 with original instruments.

Your partial assembly also included:

1. My memorandum of October 16, 1943, to Regional Director which I had added as the only available record of extension of time when I was in Chicago.

2. My memorandum of January 10 to the Regional Director.

3. My memorandum to you of January 13.

4. Mr. Richey's memorandum to us of January 14.

5. My memorandum to you of March 4.

These should be filed as correspondence rather than as part of the deed, as should also this memorandum of transmittal.

There is also enclosed an acknowledgment which I should like to have returned.

A. van V. Dunn,
Hydraulic Engineer.

AvVD:sh
Enclosure 388.

cc: Region Three with 2 copies of Deed 3 and an acknowledgment.

FILE COPY

03-09-1944: memorandum to regional director from nps regarding assemblage of the water right application 13619

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION THREE
SANTA FE, NEW MEXICO

MAR 13 1944
ROUTING | Date
3/13

March 9, 1944.
FILE

MEMORANDUM for the Regional Director,
Region Four.

This will acknowledge receipt of Mr. Dunn's memorandum of March 6, regarding the assemblage of the Water Right Application 13619 for Arches National Monument.

With regard to question No. 2 on the first page of Mr. Dunn's memorandum, I am enclosing the original copy of State Engineer Humpherys' letter of April 27, 1940.

With regard to question No. 5, we do not have the original of State Engineer Humperys' letter of May 20, 1940, authorizing immediate start of well drilling with conditions and giving instructions regarding well driller's report. The original copy, which was sent you with our memorandum of January 25, 1944, was the only copy that we had of the letter. Another careful search of both the Southwestern National Monuments and Region Three Office files have been made, and we fail to find any further evidence of the original letter.

The well driller's report, mentioned in question No. 14, was sent to your office on March 6, 1944.

With reference to the number of copies of the Water Right assemblage needed, only one copy is required by this office. The Regional Three Office file and the Southwestern National Monuments file were combined as of July 1, 1943. There is very little correspondence in the custodian's file, but he should have a complete file when the assemblage has been completed.

Copies of this memorandum and of your memorandum of March 6 are being forwarded to the Director and to the custodian of Arches National Monument.

Ross A. Maxwell

Ross A. Maxwell,
Acting Assistant Regional Director.

Enclosure 2873133

cc: The Director
Custodian, Arches National Monument.

03-09-1944: letter to state engineer from hydraulic engineer regarding well driller's report required for perfection of rights under app

WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

March 9, 1944.

State Engineer,

Salt Lake City, Utah.

Dear Sir:

With the assistance of your letter of February 18 we have located Well Driller Cecil M. Conway who drilled the well at Arches National Monument under Water Right Application No. 13619.

We enclose the well driller's report required for perfection of rights under that application, executed before Custodian Thomas C. Miller of Aztec Ruins, Aztec, New Mexico, who has been authorized by Congress, under the act of June 26, 1943, Section 206, to notarize such documents. In your letter of February 17 you indicated that the record is wanted partially to chart the underground flow of the state for future reference. In this connection we can add to Mr. Conway's report that his pumping was by bailer, that the 10 gallons per minute did not affect the water surface and that with more adequate pump equipment we expect to prove that the available supply is approximately 40 gallons per minute. In proving up on the water right we will see that you receive any further data which can be collected.

Yours very truly,

AvVD:sh

A. van V. Dunn,
Hydraulic Engineer.

Enclosure 382.

cc: Director
Region Three (2)

Note: Copies of report are attached to Arches Deed 3.

FILE COPY

03-06-1944: memorandum to regional director from nps regarding reference to deed 3: assembling to cover water right application

WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

March 6, 1944.

MEMORANDUM for the Regional Director, Region Three.

Reference is made to the Deed 3 which we are assembling to cover Water Right Application 19619 for Arches National Monument.

The history of this right is so irregular that considerable correspondence seems a desirable part of the deed to show the steps that have been taken and the compliance with the water code together with their dates. The following constitutes a description of the deed with comments as to whether particular instruments are here or still needed from you.

1. Copy of Mr. Miller's letter to State Engineer of April 19, 1940, which describes proposed appropriation as from a well to be drilled by equipment and employees of Division of Grazing. (Copies now here.)

2. State Engineer's reply of April 27, 1940, with instructions for procedure if you wish to start drilling before statutory period for advertisement is completed. (Please send us the original from Southwestern Monuments file. A copy is enclosed herewith for correspondence file.)

3. Application to appropriate water, with approval of State Engineer. (Original and 2 copies here, and one requested from Director.)

4. Copy of Mr. Miller's letter transmitting application to State Engineer, dated May 10, 1940, and requesting permission to start drilling at once. (Copies made here.)

5. State Engineer's letter of May 20, 1940, authorizing immediate start of well drilling with conditions and giving instructions regarding well driller's report. (We have the original copy, which was sent with your memorandum of January 25, 1944, but not the original letter with Mr. Humpherys' signature and possibly a seal. Please send the original letter if you can possibly find it.)

FILE COPY

At this point there should have been a card from Well Driller Conway to the State Engineer stating the date he would start drilling. It was not sent, and it seems too late to make one now, so no attempt is being made to make one.

6. State Engineer's letter of July 25, 1940, explaining status of application and advertising. (All necessary copies and original are here.)

7. Certified copy of affidavit of advertisement with clipping of advertisement from paper. (Certified copy and photostats are here.)

8. Certified copy of display advertising statement from State Engineer's records. (Certified copy and photostats are here.)

9. Certified copy of statement of advertising costs and payment with breakdown of charges. (Certified copy and photostats are here.)

10. Map submitted with a request for extension of time in which to complete proof, which was retained although the request was returned. (Prints are here except for one requested from Director.)

11. Letter from State Engineer returning needless application for extension of time. (Original and copies here except that requested from Director.)

12. State Engineer's Order of October 7, 1943, granting extension of time in which to complete proof. (Original and copies, except that requested from Director, are here.)

13. State Engineer's letter of January 26, 1944, advising that no well driller's report had ever been filed. (Original and copies are here.)

14. Well Driller's Report. (To be obtained if possible -- see your memorandum of February 26, 1944, to Custodian Aztec Ruins.)

In stating that copies are available or accounted for, we refer to assemblies for the Director, Regional Director, Custodian and Water Rights Section. You have not yet provided any of above data which may be in the Custodian's files. We do not know whether you want a separate

copy for the Southwestern Monument files or not. Hence, we are merely making such a copy up to the extent that we have to make copies for other assemblies. We will send the partial assembly along with the complete ones when released and you may destroy them or call in the extra data to complete it at that time.

We also enclose the following copies of memoranda from your files which were forwarded with, or attached to items which are now in the deed assemblies. Some of them may be needed to complete your files, and they account for the remainder of the data you sent from your records:

Dunn to Regional Director - April 26, 1941.
Supt., Southwestern Monuments, to Dunn - May 12, 1941.
Dunn to Regional Director - Oct. 16, 1943 (in duplicate).
Dunn to Director - Jan. 19, 1944 (in duplicate).

It is suggested that copy of this memorandum be sent to the Director in case he has any question as to what we still need from his file.

AvVD:sh

A. van V. Dunn,
Hydraulic Engineer.

Enclosure 374.

03-04-1944: memorandum to director from hydraulic engineer regarding original instruments relating to water right application 136

WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

March 4, 1944.

MEMORANDUM for the Director.

We have now assembled the original instruments relating to Arches Deed 3, Water Right Application 13619, except for the Well Driller's Report which is expected in the near future.

Will you please send us the copy of the deed in your files in order that we may complete it for use in Region Three as a substitute for the original to be forwarded to you.

AvVD:sh

cc: Region Three.

A. van V. Dunn,
Hydraulic Engineer.

FILE COPY

02-26-1944: memorandum to custodian from nps regarding water rights and blank copies of well driller report forms

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION THREE
SANTA FE, NEW MEXICO

MAR 2 1944

ROUTING	Date
	3/2/44

February 26, 1944.

MEMORANDUM for the Custodian,
Aztec Ruins National Monument.

We are enclosing a copy of Mr. Dunn's memoranda of February 16 and 23, Mr. Richey's memorandum of February 9, State Engineer Watson's letters of February 17 and 18, regarding water rights at Arches National Monument. We are also enclosing six blank copies of the State of Utah's Well Driller Report forms.

You will note from the attached correspondence that we have experienced difficulty in obtaining a well driller's report on the Arches National Monument Headquarter's well. This report is necessary in order to complete our water rights, and we will greatly appreciate it if you will attend to this matter for us.

We are enclosing a travel order, so that you can go to Blanding to see Mr. Cecil M. Conway, the well driller, and you may also take a look at Natural Bridges National Monument if the road is open and you think it advisable to do so.

The last paragraph of Mr. Richey's memorandum will give you some of the background regarding the well drilling project. The information in Mr. Dunn's and Mr. Richey's memoranda should enable you and Mr. Conway to complete the well driller's report, except for the temperature of the water, which is about 64°. Although Mr. Conway is responsible for completing this report, we are sure he will appreciate any help that you can give.

If you are not sure that Mr. Conway is now at Blanding, it may be well for you to communicate with someone in that vicinity to determine his present address, otherwise your trip may be fruitless. If Mr. Conway should be at some other town, but within practical driving distance, we will revise your travel order accordingly. If he has left that section of the country, try to obtain his address, return the file to us and we will write to him. If you are successful in getting the well driller's report completed, leave one copy with Mr. Conway and return the other five copies to us.

ROSS A. MAXWELL

Ross A. Maxwell,
Acting Assistant Regional Director.

cc: Director,
Mr. Dunn,
Custodian, Arches National Monument.

Enclosure No. 2873118.

WATER RIGHTS SECTION
601 Shelden Building
San Francisco 5, California

February 24, 1944.

MEMORANDUM for the Regional Director, Region Two.

In attempting to assemble a water right deed for Arches National Monument we have discovered that the Well Driller did not file the report required by the State Engineer of Utah. In our further investigation of the report and its application it became evident that the same form of report might be required in connection with the shaft and tunnel at the Dinosaur Quarry Headquarters.

In reply to my inquiry the State Engineer has sent the accompanying letter of February 17, 1944. We also enclose a copy of the form used for such reports.

No form is needed until the tunnel and shaft are completed. At the moment the question of applicability seems to be one for us to decide, but it is quite possible that the report may become mandatory at the time of proof. I am inclined to feel that we should prepare to file the report. It cannot be waived for having been dug before 1943 because the same requirement is in the 1939 manual and water code. For this reason we should assemble that portion of the data which is already available and keep the record up to date in the future.

There is no hurry but when the present data is assembled please send us a copy. Also please note that your design for the post war project should include proper controls to prevent waste flow from the tunnel.

AvVD:sh

A. van V. Dunn,
Hydraulic Engineer.

Enclosure 362.

(2 extra copies with enclosure attached for Director and Rocky Mt.

FILE COPY

601 Sheldon Building

February 23, 1944.

MEMORANDUM for the Regional Director, Region Three.

With further reference to my memorandum of February 16, 1944, with regard to the required Well Driller's report in connection with Water Right Application 13619 for Arches National Monument, we enclose copies of letters of February 17 and 18, 1944, from the State Engineer of Utah, together with 6 copies of the form on which to prepare such a report.

Apparently the well was drilled by Cecil M. Conway who must submit the report for his own protection and to permit the National Park Service to complete ultimate proof under the application. We hesitate to approach him directly because of our limited knowledge of the complications you report between this Service and the Grazing Service at the time of drilling. Perhaps, too, better results can be obtained by a personal call on the next trip to Mesa Verde. However, there should not be too much delay if Mr. Conway is subject to draft, and I hope the failure to renew his license for 1944 does not mean he has already left.

The six copies of the report are for the State Engineer, Mr. Conway, and the deed files of the Director, your office, the Monument, and this Section. It is probable that Mr. Conway will wish to fill them out in his own manner, but a copy of your memorandum of February 9, 1944, should be helpful in refreshing his memory. It might help and encourage cooperation if you obtained the temperature of the well water. Since we are holding the applications we offer the following suggestions or answers to questions:

1. Cecil M. Conway, Blanding, Utah.

2. United States of America, Region Three, National Park Service, Santa Fe, New Mexico.

3. Grand County.

4. 13619.

5. N. 13°31' W 364.4 feet from the quarter corner common to Sections 20 and 21, T. 25 S., R. 21 E., S. L. B. & M.

6. Well or tunnel was begun Feb. 16, 1940.

FILE COPY

7. Well ~~or tunnel~~ was completed ~~or abandoned~~- Feb. 29, 1940.

8. ..... measured as ~~flowing~~, pumped or _____ on .....
in sec. ft. 0.022; or in gallons per minute 10. Date Feb. 29, 1940 (see general remarks).

9. It is a drilled, ~~dug, flowing or pump~~ well. Temperature of water ___° F.

(a). . . . 117 feet.

(b). . . . ____ ft.

(c). . . . 95 ft.; during pumping 95 ft.

(d) . . . . 6" oil well

(e). . . . 22 feet

(f). . . . 104 feet

(g). . . . 0 to 2 ft., sand and gravel; 2 to 117 ft., Navajo sandstone

(h). . . . with cap, ~~valve~~, or nothing needed

10. (Leave blank)

11. General remarks:

This well was drilled to determine whether water was available. The well was bailed with 6 inch bailer at rate of 10 gallons per minute for 17 hours with no reduction in water level. It seems probable that a supply of 40 gallons per minute can be obtained but such test will be made by owner when more adequate equipment is provided.

Utah does not permit erasures and anything to be eliminated must be struck out with a single black line.

We have obtained a certified copy of the notice and certificate of its publication from the State Engineer and are now having them photostated. Hence the various copies of the "deed" will be ready for distribution as soon as we obtain the Well Driller's certificate. In submitting the original of that to the State Engineer it is suggested that the Well Driller include one copy with the request that he return it to this office after completing it as he does his original as to page, drainage basin, etc.

Copies of this correspondence, other than the report, are included for the Director and Monument.

(SGD.) A. VAN V. DUNN

AvVD:sh

A. van V. Dunn,
Hydraulic Engineer.

Enclosure 359.

3

02-18-1944: letter to nps from state of utah regarding information on well driller

FEB 21 1944

2/23

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

ED. H. WATSON
STATE ENGINEER

February 18, 1944

Mr. A. van V. Dunn, Hydraulic Engineer
National Park Service, Water Rights Section
601 Sheldon Building
San Francisco 5, California

Dear Sir: RE: CECIL M. CONWAY
WELL DRILLER

In your letter of February 15, 1944, you ask for information regarding a well driller by the name of Conway with a license in good standing in 1939 and 1940, residing in the general vicinity of Moab.

You no doubt refer to Cecil M. Conway, now residing in Blanding, Utah. He has had a license in good standing in this State for each year since 1939, and has drilled wells in San Juan and Grand counties. His license number is 36. Mr. Conway has not yet applied for his license to drill wells for the year 1944.

Yours very truly,

Ed. H. Watson

Ed. H. Watson,
STATE ENGINEER.

mv

02-17-1944: letter to hydraulic engineer from state of utah regarding well driller's report forms and certified copy of the affidavit of

2/23

FEB 1 . 1944

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

ED. H. WATSON
STATE ENGINEER

February 17, 1944

Mr. A. Van V. Dunn,
Hydraulic Engineer
U. S. Department of the Interior
601 Sheldon Bldg.,
San Francisco, California

Dear Sir: RE: APPLICATIONS NOS. 13209 & 13619

In your letter of February 3, 1944, you requested certain forms and information.

Under separate cover I am forwarding to you 12 well driller's report forms, and enclosed are, a certified copy of the Affidavit of Publication as issued by the Deseret News, also certified copy of Deseret News advertising statement, and certified copy of the break down of this statement as applied to each application advertised - all relative to Application No. 13619. It is the well driller's responsibility to file well driller's reports and the information on these reports will be required when proof of appropriation is made, and this must be made regardless of who owns the well, whether it be federal agency or individual.

You asked if it was necessary for a well driller's report to be submitted covering the development of water under Application No. 13209, which covers a shaft and tunnel being excavated by hand at the Dinosaur National Monument. Application No. 13209 states that the source of the water to be developed was a spring area, tributary to Green River, which was not indicated as underground-water development on the application; however, from your description of the development, water was obtained by tunneling.

The primary purpose of the well driller's report was to obtain the pertinent information regarding the drilling of wells which is very often lost if not recorded shortly after the well has been completed. Reports of the construction of the diverting works as proposed in applications that contemplate diverting water from a stream or a spring area, have not been required before proof of appropriation was submitted. There are cases when a development may be considered either a ground-water appropriation or a surface diversion, and so at times may present a problem as to whether the well driller's report should be submitted or not. It seems as though the development under Application No. 13209 is of this nature.

You may draw your own conclusions and submit the report if you think necessary.

3 copies to Region Three 2/23/44
3 copies to Region Two 2/23/44

Yours very truly, Ed. H. Watson

JAW/ig Encl: (3) Documents.

Ed. H. Watson
STATE ENGINEER

02-15-1944: letter to state department of business regulation from hydraulic engineer regarding records on well driller

WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

February 15, 1944.

State Department of Business Regulation,
Registration Division,
Salt Lake City, Utah.

Gentlemen:

Will you please advise if your records include a well driller by the name of Conway with a license in good standing in 1939 and 1940, with a residence probably in the general vicinity of Moab. If you have such a record we should like to have his initials, last known address, and license number.

Yours very truly,

A. van V. Dunn,
Hydraulic Engineer.

AvVD:sh

cc: Region Three, in triplicate.

FILE COPY

02-14-1944: memorandum to regional director from nps regarding instruments to complete deed 3 covering water right application

FEB 14 1944

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION THREE
SANTA FE, NEW MEXICO

February 9, 1944

MEMORANDUM for the Regional Director,
Region Four.

This will acknowledge receipt of Mr. Dunn's memorandum of February 3, regarding the instruments to complete Arches "Deed" No. 3 covering Water Right Application 13619, and copy of Mr. Dunn's memorandum of February 3 to State Engineer Watson. The copy of Mr. Watson's memorandum, mentioned by Mr. Dunn, was not received at this office.

In regard to the nine questions listed on page one of your memorandum, we are offering the following information:

1. The name of the driller was Mr. Conway. According to the records in our office, he was employed by the Division of Grazing, and it is believed that he drilled a number of wells for the Grazing Service in that vicinity. His initials are not available in this office, and we assume that his Post Office address was Moab, Utah.

2. Owner of well - National Park Service.

3. Number of approved Application - 13619.

4. Location of well. It is given on the maps recently returned to your office, and, according to our file, the well is located North 13°31', West 634.4' from the 1/4 corner common to Sections 20 and 21, T.25S., R.21E., SLM.

5. Size and kind of casing - 6" oil well casing.

6. Depth of well - Total depth 117'.

Log of well
0-2' sand and gravel
2-117' Navajo sandstone.

Water encountered at 95'. 116.6' of casing in well. Perforation from 104 to 116 feet.

7. Date well came into production - Drilling started February 16, 1940; well completed, cased and ready for operation February 29, 1940.

8. Temperature and quantity of water issuing, drawn or pumped therefrom. No data on temperature. Well was bailed with 6" bailer at rate of ten gallons per minute for seventeen hours. The water level remained at 95', and the driller suggested that the well might produce as much as 30 to 40 gallons per minute.

9. Location of water-bearing strata - In the Navajo sandstone.

According to the information in this office, the well was drilled as a favor to the National Park Service. According to rumors, it was not believed feasible to drill a well in that locality, and the well was drilled more or less as a test to see if water was available. Much to everyone's surprise, they got a well, and the well was actually drilled prior to any correspondence with the State Engineer regarding a permit. It is assumed that Mr. Conway was a licensed driller, because he was an employee of the Grazing Service. Since there were certain complications with respect to the drilling procedure for this well, it is suggested that the Grazing Service not be pressed for a complete drilling record, unless the State Engineer requires it. After all, the Grazing Service drilled the well without cost as an accommodation to our Service.

Charles A. Richey
Assistant Regional Director

cc: Director
Arches National Monument

02-03-1944: memorandum to regional director from nps regarding the instruments to complete arches 'deed' no. 3 covering water

FILE COPY

/5

401 Sheldon Building
WATER RIGHTS SECTION
SAN FRANCISCO, CALIF.

February 3, 1944.

MEMORANDUM for the Regional Director,
Region Three.

Reference is made to your memorandum of January 25, 1944, with regard to instruments to complete Arches "Deed" No. 3 covering Water Right Application 13619.

This will acknowledge receipt of the item listed therein. Their return is being delayed a few days because of limited stenographic assistance. Miss Hicks was knocked down by a motor car last week and is home with a break in one of the bones of the lower leg. For the benefit of those who may know her, she is in a form of cast which permits her to move about the apartment, and seems to be coming along nicely, but has not yet adjusted herself sufficiently to attempt to come to the office.

The enclosed letters from the State Engineer dated January 26, and my reply of this date are self-explanatory. However, the next step will be to file the well driller's report. We will send the necessary forms when they are received. Meantime, it may expedite matters to start the Soil Conservation Service, if they did drill the well, on a search for the necessary records.

The preliminary report before drilling, is explained in Mr. Watson's letter. From the Water Laws of Utah issued by the State Engineer in 1939, the following data is required in the final well driller's report:

1. Name and post office address of driller.
2. Owner of the well. (N.P.S.)
3. Number of approved Application. (13619).
4. Location of well. (Given on map you have just returned).
5. Size and kind of casing.
6. Depth and log of well.
7. Date well came into production.
8. Temperature and quantity of water issuing, drawn or pumped therefrom.
9. Location of water-bearing strata.

Failure to file such report within thirty days constitutes a misdemeanor unless the Soil Conservation Service was exempt. The State Engineer's letter to Mr. Miller of May 20, 1940, also states that the driller should have a 1940 permit, something else that may be waived for federal agencies.

FILE COPY

It occurs to me, too, that if the Soil Conservation Service was drilling various wells in the area for public use, it may have had special state authorization. It may be that the well at Arches was properly reported in some group report, and that all that is lacking is the cross-reference for perfection of the monument.water right. In that case, too, we shall want a copy of the group report for the deed file.

Because of the relation to the Director's deed and water right files, copies of this correspondence are enclosed for him, Mesa Verde and Arches.

(SGD.) A. VAN V. DUNN
A. van V. Dunn,
Hydraulic Engineer.

Enclosure 1815357.
AVD:rw

02-03-1944: letter to state engineer from hydraulic engineer regarding water right application 13619 and the related well driller's re

Water Rights ✓

FILE COPY

5

601 Sheldon Building

February 3, 1944.

Mr. Ed. H. Watson,
State Engineer,
Salt Lake City, Utah.

Dear Sir:

Reference is made to your letter of January 26, 1944, with regard to Water Right Application 13619 and the related well driller's reports.

The well in question has been drilled for us, I believe by another federal agency. As the work was not done under the direction of this office, it appears that we will have to check with some other offices of this Service to determine why the reports were not made.

Meantime, will you please send us about a dozen of the forms used for the well driller's reports. Also, please send us a certified copy of the notice of appropriation as published in the "Desert News" for five Thursdays ending July 11, 1940, and of any certificate, which that paper may have sent you, to show that advertisement was so published. A voucher to cover these instruments is enclosed for your signature, and should be returned with a statement of the amount of such charges.

The other federal agency which is reported to have drilled the well, also drilled several others in the same portion of the state. I believe it drilled the well in question because it had the equipment available when this Service was in need of a driller. It seems strange that it did not know enough to make all required reports. Therefore, I wonder if there is some waiver of reports when federal agencies drill wells.

Your attention is also called to Water Right Application 13209 covering a shaft and tunnel being excavated by hand at Dinosaur National Monument. This shaft is intended to tap only the water bearing vein which serves the adjacent spring. We have already found that the spring flow is affected by any diversions from the shaft. We also seem to find no percolating water in the area. From this explanation and the data in your office, will you please advise whether you consider the shaft as a well needing any "driller's" reports.

Sincerely yours,

(SGD.) A. VAN V. DUNN
A. van V. Dunn,
Hydraulic Engineer.

Enclosure 1815356.
AVD:rw
cc: The Director.
Region Three
Mesa Verde
Arches.

01-26-1944: letter to hydraulic engineer from office of state engineer regarding application no. 13619

Archive Deed 3

COPY

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITH

ED. H. WATSON
State Engineer

January 26, 1944

REFER TO:
WATER RIGHTS SECTION

Mr. A. van V. Dunn
Hydraulic Engineer
U. S. Department of the Interior
601 Shelden Building
San Francisco 5, California

Dear Sir: RE: APPLICATION NO. 13619

Your letter of January 19, 1944, asks for a photostat negative of the well driller's report of a well drilled by virtue of Application No. 13619.

Under this application it was proposed to drill a 6-in. well, 120 ft. deep, located N. 13°31' W. 634.4 ft. from the E¼ Cor. Sec. 20, T. 25 S., R. 21 E., SLB&M. The application was approved September 19, 1940.

When a well driller commences drilling a well in the State of Utah, a few days prior to commencing the work, he sends a card to this office stating the date, the location, and the application number of the well he intends to drill. Within 30 days after the well has been completed by the driller, he is to file a well driller's report in this office. To date, this office has received neither the card giving the intentions to drill nor the well driller's report. It is assumed by this office that the well has not yet been drilled. If it has, will you please notify this office of the time it was drilled and the name of the well driller?

I am returning the voucher, which you enclosed in your letter, to you unsigned.

Yours very truly,

/s/ Ed. H. Watson

Ed. H. Watson,
STATE ENGINEER.

JAW/mv
Enc: Voucher

01-26-1944: memorandum to regional director from nps regarding water rights

JAN 28 1944

ROUTING | Date
(2) 1/28
1/28

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION THREE
SANTA FE, NEW MEXICO

January 25, 1944..

MEMORANDUM for the Regional Director, Region Four.

This will acknowledge receipt of Mr. A. Van V. Dunn's memorandum of January 19 relative to water rights at Arches National Monument. In order to keep the records straight, the following comments regarding the eight instruments required for completing the proposed "original" file for the Director's Office are offered:

1. The original application (Southwestern National Monuments Copy) and the Region Three office copy of that application were mailed to your office on January 14, 1944.

2. Copy of Superintendent Miller's letter of transmittal of May 10, 1940, was sent you on January 14, 1940. We have another copy in our files.

3. The original letter from the State Engineer to Superintendent Miller, dated July 27, 1940, which authorizes start of drilling, at applicant's risk, prior to approval of application, together with the original copy of the State Engineer's letter of May 20, 1940, giving permission to drill well prior to formal approval of the application are enclosed. We are keeping copies of both instruments.

4. A careful search of both the Southwestern National Monuments and Regional Office files failed to reveal a copy of the clipping from the Desert News, Salt Lake City, on one of five Thursdays ending July 11, 1940, or a typed copy of same. We do, however, have an official receipt from the State Engineer in the amount of $5.00 for advertising which we assume is the receipt for publication costs of the notice of application to appropriate water. This receipt can be forwarded to you if you desire. In some cases a clipping of the notice of application to appropriate water accompanies the voucher. If the Water Rights Section paid for this publication notice, it is possible that the clipping may be in the Water Rights Section file.

5. Is this the same letter of July 27, 1940, mentioned in No. 3? If so, the original letter is enclosed.

6. We are unable to locate a copy of the well driller's report on the well and are forwarding your letter of January 19 and Voucher to the State Engineer.

7. The two photostat reduction prints of Drawing NM-ARC-5312 which were received with your memorandum of January 13 are being returned in order that they may be assembled with the other water rights application instruments.

8. The copies of the letter from the State Engineer dated October 7, 1943, granting extension of time in which to submit proof, were attached to application No. 13619 and forwarded to your office with our registered memorandum of January 14, 1944.

Charles A. Richey
Charles A. Richey,
Assistant Regional Director.

Enclosure 2889179.

cc: The Director.

01-20-1944: memorandum to director from water rights section regarding enclosed copy of the request for extension of time which

WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

January 20, 1944.

MEMORANDUM for the Director.

We enclose a copy of the request for extension of time which we submitted to the State Engineer in connection with Water Right Application No. 13619 covering the well at Arches National Monument, but which was returned as unnecessary in the case of wells in the State of Utah.

Since it did not become a record in the State Engineer's file it does not constitute a part of the water right instrument, but the information may be of value at some later date. We suggest, therefore, that it be filed with the correspondence under 660-05.7 for possible future reference.

A. van V. Dunn,
Hydraulic Engineer.

AvVD:SH

Enclosure 351.

cc: Region Three, with 3 copies
of enclosure.

FILE COPY

01-19-1944: memorandum to regional director from water rights section regarding original water right application 13619 appurtena

WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

January 19, 1944.

MEMORANDUM for the Regional Director, Region Three.

Reference is made to Mr. Richey's memorandum transmitting original Water Right Application 13619 appurtenant to the Arches Headquarters well and water system.

Just what should constitute a complete water right instrument is somewhat a matter of opinion. Those in the office of the Chief Counsel suggested that I was as good a judge as any. After reviewing the data you have just sent, I think the document for the right in question should have the instruments listed below, but I am sending a copy of the memorandum directly to the Director for concurrence. This list constitutes the assembly for the proposed "original" for the Director. Other assemblies will have more copies.

1. Application with State Engineer's signed approval.

2. Copy of Superintendent Miller's letter of transmittal of May 10, 1940, which also requests authority to start drilling at earliest practical date.

3. Original letter from State Engineer to Superintendent Miller, dated July 27, 1940, which authorizes start of drilling, at applicant's risk, prior to approval of application. (This will rob your files of an original.)

4. Clipping from Desert News, Salt Lake City, on one of five Thursdays ending July 11, 1940, giving notice of application to appropriate. (Perhaps a typed copy will suffice, and would fit in file better.)

5. Copy of State Engineer's letter of July 27, 1940, advising that notice has been published, etc.

6. Copy of Well Driller's Report. (This should be on record for the Branch of Engineering as well as to make the National Park Service and State water right records agree.)

FILE COPY

7. Print of photostat reduction of Drawing NM-ARC-5312 of which copies were sent to you by copy of memorandum of January 13, 1944, to the Director. (You may wish to return these prints now that I have the rest of the data for assembly.)

8. Letter from State Engineer to A. van V. Dunn, dated October 7, 1943, granting extension of time in which to submit proof.

You will have to supply item 3, and we are making copies of the copy you have already sent.

Do you have a copy of the clipping listed as item 4? Otherwise we may have to order one from the publisher.

A letter to the State Engineer requesting item 6 is enclosed for you to forward if necessary. However, it seems possible that you may be able to get a typed copy free from the Soil Conservation Service, in which case there would be no need to order from the State Engineer.

The matter of published or posted notices, item 4, is giving me considerable concern at the moment. Few Superintendents or Custodians seem to have made copies of the notices when they post or send them out for publication and they may not have seen them when the State Engineer handled the matter in Utah. The same thing applies to certificates of posting or advertising where such have been required by State officials. I think copies should be in the water right assemblies, but since we will have to buy most of the past ones now from State officials or publishers, and there are probably 100 or more to acquire, I am particularly anxious to know whether the Chief Counsel agrees as to their value before we start.

A. van V. Dunn,
Hydraulic Engineer.

AvVD:SH

Enclosure 349.

cc: Director.

01-19-1944: letter to state engineer from water rights section regarding photostat negative of the well driller's report relating to wat

WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

January 19, 1944.

State Engineer,

Salt Lake City, Utah.

Dear Sir:

Will you please send us a photostat negative of the Well Driller's Report relating to Water Right Application No. 13619.

Also, please sign the attached voucher as indicated, and return with a statement of charges for the negative.

Yours very truly,

A. van V. Dunn,
Hydraulic Engineer.

Attachment.

AvVD:sh

cc: Region Three (2)

FILE COPY

01-17-1944: memorandum to regional director from nps regarding copies of the map of arches

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION THREE
SANTA FE, NEW MEXICO

JAN 20 1944

ROUTING	Date
AD	1/20
FILE	

January 17, 1944.

MEMORANDUM for the Regional Director,
Region Four.

This will acknowledge receipt of Mr. A. Van V. Dunn's memorandum of January 13, with which he enclosed copies of the map of Arches National Monument water system.

This memorandum undoubtedly crossed our memorandum of January 14 in the mails. With our memorandum we returned the original and one copy of Water Rights Application No. 13619 in order that Mr. Dunn could distribute these copies according to the new plan.

We are holding two copies of the map in our safe to be placed with copies of the Water Rights Application when they are received. We have sent one copy to Arches National Monument for their files.

Charles A. Richey

Charles A. Richey,
Assistant Regional Director.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION THREE
SANTA FE, NEW MEXICO

JAN 17 1944

ROUTING	Date
	3/6/44

January 14, 1944.

Registered Mail.

MEMORANDUM for the Regional Director, Region Four.

This will acknowledge receipt of Mr. A. van V. Dunn's memorandum of January 10 regarding water rights at Arches National Monument.

With regard to paragraph No. 1, the original application, signed by Mr. Hempherys, is filed in the safe in this office. This was formerly in the file of the Superintendent, Southwestern National Monuments. There is also a duplicate copy of the application in what was formerly the Region Three Office file. These files will probably be combined as time allows but at present all correspondence prior to July 1, 1943, is kept separate.

It is suggested in paragraph No. 2 of your memorandum that copies of the map sent to the State Engineer in September 1943 were not distributed. This appears probable since we fail to find a copy of that map in our file. We assume that the copies will be distributed from your office.

Paragraph No. 3. Your memorandum of October 16, 1943 with the attached order--granting extension of time--which was signed by the State Engineer on October 7, 1943 was received. The original was attached to the original application and is filed, in the safe, in this office. Copies have been mailed to the Director's Office and to Arches National Monument.

With regard to the first paragraph on page 2 of your memorandum, there is no record in this office of the Grazing Service's having made application for a water right on the Arches well. This is explained in the Superintendent's memorandum of May 12 to you (copy attached). We are also enclosing a copy of your memorandum of April 26, 1941 to the Regional Director, Region Three, as well as copies of communications from the State Engineer in reply to our requests. I believe the communications cover all pertiment matters discussed with the State Engineer prior to your visit to Arches National Monument on April 17, 1941.

In accordance with your suggestion, we are enclosing the original application No. 13619 which has been in the safe, and also the Region Three Office copy, in order that you may assemble the various instruments and distribute them properly.

Charles A. Richey
Charles A. Richey,
Assistant Regional Director.

Im dupl.
Encl. 2889163.
cc: The Director.

01-13-1944: memorandum to director from water rights section regarding assembly of arches deed no. 3 covering water right appl

WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

January 13, 1944.

MEMORANDUM for the Director.

Reference is made to my memorandum of January 10, 1944, to the Regional Director of Region Three with regard to assembly of Arches Deed No. 3 covering Water Right Application No. 13619.

As suggested therein, the enclosed print of the Arches water system, as proposed and as built to date, is to be inserted in your copy of the deed, just above the application.

Enclosure 346.

A. van V. Dunn,
Hydraulic Engineer.

AvVD:SH

cc: Region Three, with enclosure (in triplicate), for files of Region Three, Southwest Monuments, and Arches National Monument.

FILE COPY

01-10-1944: memorandum to regional director from water rights section regarding the plan to transfer original water right instrume

WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

January 10, 1944.

MEMORANDUM for the Regional Director, Region Three.

Reference is made to the plan to transfer original water right instruments from the parks and monuments to the Director's Office, as suggested by a memorandum from Mr. Thompson of about December 22, 1943, and my memorandum to Region Two of January 1, 1944.

When making the transfer it is planned to send the Director's copy to the Park. However, the Director's copy is not usually complete, and at times the copies of the Regional Office and the Water Rights Section have some gaps. Before any transfers are made, we wish to account for four complete assemblies of the "deed" pertaining to the water right.

The following seems to be the status of the water right relating to the Arches headquarters well, Application No. 13619, hereafter known as Deed No. 3.

1. Application to appropriate water. The original, with approval signed by T. H. Humpherys, is in files of Southwest National Monuments (if there still is such a separate file) or in files of Arches National Monument. There are copies in the Director's files; the files of this office; and presumably of Region Three; and the Monument or Superintendent of Southwest National Monuments files, depending on which has the originals.

2. An application for extension of time, including a map, was sent to the State Engineer in September 1943. The application was returned as needless, and, therefore, can be ignored, but the map was retained. Since I could not find print of the map in the Director's file, and by reference to my letter to the State Engineer of September 27, I gather that copies were not circulated. I am having prints made for all, now.

3. Without formally recorded request, an order granting extension of time was signed by the State Engineer on October 7, 1943. This order, together with three extra copies for the Director, and two of your three interested offices in Region Three, were transmitted by memorandum of October 16, 1943. At the time I left Chicago in early December, no copy had reached the Director. Will you please look up the original and attach it to theoriginal

FILE COPY

application in accordance with the footnote on it, and advise whether you have the other copies.

So far as I know, this deed will consist of just the three instruments at this time. However, since I did not know about this right until some years after it was initiated, I should like to know whether any reports were submitted to the State between 1940 and 1943. For instance, did either this Service or the Soil Conservation Service file any report when the well drilling was complete?

You can see that it is going to take a good deal of coordinated work to get all water rights back to the Director, and see that proper copies are completed for the other files. Also, since the "deed" will be an entity in the Director's files, and have additional instruments added to it from time to time, it has been decided, in Region Four at least, to take the other copies out of letter files and bind them as separate documents. I think the best procedure may be for you to send all copies of the Arches deed to this office and let me assemble and mark them as I have arranged the folders in Chicago during my November assignment.

Because of the amount of work involved, no deed should be moved anywhere until requested. However, it does seem proper for each Superintendent to start shifting the individual papers from his letter file to a separate binder. I shall issue more instructions in a day or two, and they will be different for each State.

A. van V. Dunn,
Hydraulic Engineer.

AvVD:SH

cc: Director.

12-17-1943: memorandum to regional director from nps regarding only 2 inch pipe has been installed to date and that the only pro

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
CHICAGO

ADDRESS ONLY
THE DIRECTOR, NATIONAL PARK SERVICE

December 17, 1943.

MEMORANDUM for the Regional Director, Region Three.

Hydraulic Engineer A. van V. Dunn advises that the water claim at Arches National Monument is for 0.088 second feet based on a 4 inch pipe, that only 2 inch pipe has been installed to date and that the only proposal in the Project Construction Program (U-4) is for a reservoir.

It is requested that this subject be investigated to determine whether or not the eventual water needs will require all of the 0.088 second feet, and if so, to what extent and within what time limit it is necessary to carry out further development in order to hold the water rights.

It is requested that you get in touch with Mr. Dunn regarding water rights, and if it is decided that further development is necessary a proposal or proposals should be included in the Project Construction Program.

(Sgd.) Hillory A. Tolson

Acting Director.

cc: Mr. Burney.
Mr. A. van V. Dunn.
Mr. Vint.
In duplicate.

10-16-1943: memorandum to regional director from hydraulic engineer regarding enclosed copy of order extending the time in whi

601 Sheldon Building

October 16, 1943.

MEMORANDUM for the Regional Director, Region Three.

We enclose a copy of an order extending the time in which to complete the Headquarters Water System at Arches National Monument, together with copy of the State Engineer's letter of transmittal.

Because of Mr. Watson's special ruling with regard to extension of time on well developments, he returned the application which you signed on September 22, 1943, and the voucher for $1.00, both of which we are destroying. Should you have a copy of the application in your file, it should be destroyed.

A. van V. Dunn,
Hydraulic Engineer.

AvVD:SH

Enclosure 336.

(Three extra copies forward, together with copy of order, for Director, S. W. Mons., and Custodian of Arches N.M.)

FILE COPY

00-00-0000: in the office of the state engineer of the state of utah request for extension of time: application 13619

Form L25 2M 9-42

IN THE OFFICE OF THE STATE ENGINEER OF THE STATE OF UTAH

REQUEST FOR ~~REINSTATEMENT AND~~ EXTENSION OF TIME
(Strike words not needed)
(Before Fourteen Years)

APPLICATION NO. 13619

STATE OF ~~UTAH~~ NEW MEXICO)
COUNTY OF Santa Fe) ss

Charles A. Richey, being first duly sworn says that he is the ~~owner or the~~ agent of the owner of the above numbered Application; that he knows of his own knowledge that the construction of works as contemplated by the Application was actually commenced within 6 months after the date of approval of the Application, and that the work has since been prosecuted with diligence.

The nature, extent and approximate cost of construction work done to this date, together with a detailed statement of use to which the water has been put, is as follows: **(Describe briefly the type and extent of construction, whether impounding or diversion dam, or diverting channels and give the cost of construction. Indicate what part of the water, if any, covered by this Application has been put to beneficial use, the number of acres irrigated, etc. Mere statement as to general character of works, costs and use will not answer,—give details sufficient for one to determine what has actually been done.)**

Well drilled, 30 g.p.m. deep well pump unit installed, 20,000 gallon underground reinforced concrete distribution tank, approximately 1200 feet of 2-inch pipe together with fire hydrants and pump house. The cost to date has been $5645.37. The average water consumption to date has been 0.002 sec. ft., or about 2% of the amount covered by the application.

See map and letter of Oct. 17, 1942, from Hydraulic Engineer A. van V. Dunn with relation to this application and also Nos. 12,309 and 14,066.

Not needed OP

The nature, extent and estimated cost of construction remaining to be done to complete the work in accordance with the Application follows: **(Describe with same details as required last above.)**

The 2" pipe now in use will ultimately be used for distribution laterals. The whole pipe system must, therefore, be installed, together with a pump unit of 40 g.p.m. capacity and additional storage of 20,000 gallons. The estimated additional cost is $2700.00.

See State Engineer's letter of Oct. 7, 1943

(OVER)

Request is made for ~~reinstatement and~~ extension of time for filing
(Strike words not needed)
proof from Dec. 15 , 1943 , to Dec. 15 , 1945 . Reasons why extensions should be granted are: (Give reasons why the work could not be completed and the water put to beneficial use within the time heretofore allowed and why conditions now will permit the completion of the works and filing of proof within the time requested. Be specific in statement.)

It has been impossible to complete this system because the federal government has diverted all possible funds and labor to the war effort. The temporary installation, previously described, was built with a minimum of strategic material to serve most essential needs until the close of the war.

No claim is made that the system can be completed within the two year limit your office allows unless the war is terminated very soon, but the rest of the project is set up as part of the immediate postwar stabilization program of the National Park Service. Another application for extension of time will have to be filed in all probability.

Affiant upon oath states that he or the owner of the Application, whom he represents, has a bona fide intention and the financial ability to complete the works and to apply the water to beneficial use as provided in the Application, within the period of extension requested. A filing fee of $1.00 is tendered herewith.

Charles A. Richey
Assistant Regional Director Applicant
Region Three, National Park Service
(If a corporation, specify the title of the officer making the affidavit and affix corporate seal)

(SEAL)

Subscribed and sworn to before me this 22 day of September, 1943.

Notary Public

My commission expires 4-7-46.

NOT TO BE FILLED IN BY APPLICANT

Application No._____ Request due_____ Recd._____
Applicant_____ Filing fee $1.00 Recd._____ by____
Source_____ Receipt No._____
14 year period ends_____

Request for extension approved / rejected ; time for submitting proof is hereby extended from_____ to and including_____

Date

STATE ENGINEER

10-07-1943: letter to hydraulic engineer from office of state engineer regarding underground water application no. 13619

Archer + Deed 3

C O P Y

THE STATE OF UTAH

OFFICE OF STATE ENGINEER

SALT LAKE CITY

Ed. H. Watson
State Engineer

October 7, 1943

Mr. A. Van V. Dunn
Hydraulic Engineer
U. S. Department of the Interior
San Francisco, California

RE: UNDERGROUND WATER
APPLICATION NO. 13619

Dear Sir:

The time heretofore granted for filing proof of appropriation under the above captioned application is about to expire. Should this time expire without your having filed proof of appropriation, the application would lapse and your right to appropriate water, as represented by the application, would cease.

Apparently, this has been brought about by your not being acquainted with the procedure necessary to appropriate water in the State of Utah. This procedure is, therefore, briefly set out as follows:

It is necessary to file an application in the State Engineer's office for the water sought. This application, after having been found to be in proper form, after advertising, is either rejected or approved. If it is approved, it is only evidence of the applicant's right to proceed with construction necessary to appropriate the water and is conditioned upon the following: (1) that construction begin within six months after date of approval; (2) that the right is subject to existing rights; (3) that proof of appropriation be submitted to the State Engineer on or before a definite date set by him. After this proof has been found to be satisfactory, it is followed by a certificate of appropriation issued by the State Engineer to the appropriator which is prima-facie evidence of the right to the use of the water.

In order that you may have a further opportunity to perfect your right by submitting proof of appropriation beyond the time now set being December 15, 1943, you are hereby notified that the time in which proof may be submitted has been extended to and including December 15, 1945.

Yours very truly,
/s/ Ed. H. Watson
Ed. H. Watson
STATE ENGINEER

FWC/pcr

NOTE: Attach this letter to your approved application for reference.

E. H. W.

10-07-1943: letter to hydraulic engineer from office of state engineer regarding application 13619

COPY

THE STATE OF UTAH

OFFICE OF STATE ENGINEER

SALT LAKE CITY

Ed. H. Watson
State Engineer

October 7, 1943

Mr. A. Van V. Dunn
Hydraulic Engineer
U. S. Department of the Interior
San Francisco, California

Dear Mr. Dunn: RE: APPLICATION. 13619

Under date of September 27, 1943, you submitted to this office a request in affidavit form for an extension of time in which to submit Proof of Appropriation under Application No. 13619 together with a voucher dated September 15, 1943, for $1.00 to cover the cost of filing.

In as much as the State Engineer has adopted the policy of extending the time in which to submit Proof of Appropriation on all well applications, your request for an extension of time is not necessary and is being returned to you together with your voucher. The time for submitting Proof on Application No. 13619 has been extended from December 15, 1943 to December 15, 1945, by the form letter enclosed.

Very truly yours,

/s/ Ed. H. Watson

Ed. H. Watson
STATE ENGINEER

RER:vrg
Enc: Voucher
Form Letter
Extension Notice

Mr. Dunn:

Does the last paragraph of this letter eliminate the necessity of asking for an extension of time beyond December 15, 1945?

Mr. Dunn says let this ride.

COPY

THE STATE OF UTAH

OFFICE OF STATE ENGINEER

SALT LAKE CITY

Ed. H. Watson
State Engineer

October 7, 1943

Mr. A. Van V. Dunn
Hydraulic Engineer
U. S. Department of the Interior
San Francisco, California

Dear Mr. Dunn: RE: APPLICATION. 13619

Under date of September 27, 1943, you submitted to this office a request in affidavit form for an extension of time in which to submit Proof of Appropriation under Application No. 13619 together with a voucher dated September 15, 1943, for $1.00 to cover the cost of filing.

In as much as the State Engineer has adopted the policy of extending the time in which to submit Proof of Appropriation on all well applications, your request for an extension of time is not necessary and is being returned to you together with your voucher. The time for submitting Proof on Application No. 13619 has been extended from December 15, 1943 to December 15, 1945, by the form letter enclosed.

Very truly yours,

/s/ Ed. H. Watson

Ed. H. Watson
STATE ENGINEER

RER:vrg
Enc: Voucher
Form Letter
Extension Notice

C O P Y

THE STATE OF UTAH

OFFICE OF STATE ENGINEER

Ed. H. Watson
State Engineer

SALT LAKE CITY

October 7, 1943

Mr. A. Van V. Dunn
Hydraulic Engineer
U. S. Department of the Interior
San Francisco, California

RE: UNDERGROUND WATER
APPLICATION NO. 13619

Dear Sir:

The time heretofore granted for filing proof of appropriation under the above captioned application is about to expire. Should this time expire without your having filed proof of appropriation, the application would lapse and your right to appropriate water, as represented by the application, would cease.

Apparently, this has been brought about by your not being acquainted with the procedure necessary to appropriate water in the State of Utah. This procedure is, therefore, briefly set out as follows:

It is necessary to file an application in the State Engineer's office for the water sought. This application, after having been found to be in proper form, after advertising, is either rejected or approved. If it is approved, it is only evidence of the applicant's right to proceed with construction necessary to appropriate the water and is conditioned upon the following: (1) that construction begin within six months after date of approval; (2) that the right is subject to existing rights; (3) that proof of appropriation be submitted to the State Engineer on or before a definite date set by him. After this proof has been found to be satisfactory, it is followed by a certificate of appropriation issued by the State Engineer to the appropriator which is prima-facie evidence of the right to the use of the water.

In order that you may have a further opportunity to perfect your right by submitting proof of appropriation beyond the time now set being December 15, 1943, you are hereby notified that the time in which proof may be submitted has been extended to and including December 15, 1945.

Yours very truly,
/s/ Ed. H. Watson
Ed. H. Watson
STATE ENGINEER

FWC/per

NOTE: Attach this letter to your approved application for reference.

E. H. W.

09-27-1943: letter to state engineer from hydraulic engineer regarding water right application no. 13619

Arches

601 Sheldon Building

September 27, 1943.

State Engineer,

Salt Lake City, Utah.

Re: Water Right Application No. 13619.

Dear Sir:

We enclose an application for extension of time under the above water rights application, together with a voucher for $1.00 to cover the filing fee.

Please sign the voucher at the point indicated by penciled X and return for payment.

Yours very truly,

A. van V. Dunn,
Hydraulic Engineer.

AvVD:SH

Enclosure 326.

cc: Director.
Region Three.
Supt., S.W.Mons.
Custodian, Arches N. M.

FILE COPY

11-27-1942: letter to state engineer from hydraulic engineer regarding extension of time in which to complete water systems under

Arches N. M.
X Kinosaur N. M.
X Bryce Canyon

601 Sheldon Building

November 27, 1942.

State Engineer,

Salt Lake City, Utah.

Dear Sir:

Reference is made to your letter of November 18 with regard to extension of time in which to complete water systems under Applications 13209, 13619, and 14060.

Since these must be signed by the various Superintendents in the forms that you use, they will be submitted separately. In drawing up the one for Application 13209, the only one needing immediate attention, we have requested an extension of time to 1955, or 13 of the allowable 14 years. We should like to explain, however, that we do not expect to use all of that time unless the war is that long. The object is merely to carry the project in a suspended status until 2 or 3 years after the war without having to make requests for further extensions.

In all formal applications of this type we need copies for five offices. You sent only three copies of form L25 2M 9-42. Therefore, please send us twelve more copies of the form and advise us if there is any charge.

Yours very truly,

A. van V. Dunn,
Hydraulic Engineer.

AvVD:SH

cc: Director.
Regional Director, Region Two.
Regional Director, Region Three.
Supt., Rocky Mt. Nat. Park.
Supt., Zion Nat. Park.
Supt., S.W.Nat. Mons.

FILE COPY

11-18-1942: letter to hydraulic engineer from office of state engineer regarding applications 13209, 13619, and 14066

COPY

THE STATE OF UTAH

OFFICE OF STATE ENGINEER

SALT LAKE CITY

ED. H. WATSON
STATE ENGINEER

November 18, 1942

Archer N. M.
X Bryce Canyon
X Dinosaur

Mr. A. van V. Dunn
Hydraulic Engineer
U. S. Department of the Interior
San Francisco, California

Dear Sir: RE: APPLICATIONS NOS. 13209, 13619 AND 14066.

Reference is made to your letter requesting an extension of time under Applications Nos. 13209, 13619 and 14066. It will be necessary for you to file a formal request for extension of time for each application on the forms enclosed herewith for that purpose, and accompany each request with the statutory filing fee in the amount of $1.00.

Although proof as contemplated will not be due under Application No. 14060 until September 10, 1943, and under Application No. 13619 until December 15, 1943, you may request a two year extension of time under these applications at the same time you request extension under Application No. 13209, which must be submitted on or before December 25, 1942.

Yours very truly,

/s/ Ed H. Watson
A.

Ed. H. Watson
STATE ENGINEER

HER/per
Encls: Form L-25 (3)

10-17-1942: letter to state engineer from nps regarding applications 12309, 13619, 14066

Arches
X Dinosaur
X Bryce Canyon

601 Sheldon Building

October 17, 1942.

State Engineer,

Salt Lake City, Utah.

Dear Sir:

We have the following incomplete water rights in your State:

Application 12,309 for Dinosaur National Monument with proof due December 25, 1942.

Application 13,619 for Arches National Monument with proof due December 15, 1943.

Application 14,066 for Bryce Canyon National Park with proof due September 10, 1943.

Although only one proof is currently due, we should like to request extension of time until about two years after the war in all three cases.

Both during the pre-war defense of 1941 and this year the United States has had to keep peace-time activities at a minimum. It has also had the same difficulty in obtaining materials and labor which confront the rest of the national activity.

All CCC activities were terminated as of July 1, 1942, and many camps had been so depleted for the preceding year that only the most essential maintenance activities could be attempted. The appropriations and allotments for all but the most essential projects have been impounded or greatly reduced as a part of the federal war economy; and priorities on materials and labor have made it difficult to use what remain.

Furthermore, Park Service water consumption is a function of public attendance. There have been only about half as many visitors

FILE COPY

this year as last in most cases, so that even with completed systems no further proof of full beneficial use can be expected until peace-time conditions return.

We do have tentative plans for unusually heavy construction programs at the close of the war to help stabilize the economic situation and catch up with normal growth. However, due to the time probably needed to reconvert manufacturing plants, appropriate and release funds, and assemble labor crews, we feel that finished projects and full use cannot be expected during the first two years of such activity.

As proof of reasonable diligence in the past, we offer the following report on the present status of the aforesaid projects:

Application 12,309

This system is in operation, but further development is needed to increase the supply of water. More regulatory storage and distribution laterals are also needed. Work was stopped in May 1941 when the CCC camp was abandoned due to reduction of the general CCC program.

Application 13,619

See attached photostat of drawing NM-ARC-5312. The well and 20,000 gallon reservoir have been completed, and a temporary 2" pipe line and appurtenant works have been installed to provide essential immediate service, all being shown in red. The ultimate system is also shown. Diversion is by a 30 g.p.m. deep well pump driven by a gasoline engine. The 2" pipe was substituted for proposed 4" because of limitations on funds for materials for CCC projects at time of construction, and inability to obtain funds for construction by special appropriation. This system is now in operation and water is being used at the Custodian's residence and for general operating purposes.

Application 14,066

All materials and pump equipment have been obtained except the main order for 7000 feet of galvanized iron pipe. This pipe is on order, but delivery date is dependent on action by the WPB. A truck trail was constructed during the summer to permit construction. Construction will proceed when labor is available after receipt of the pipe.

You will note that reports for individual reservations show various stages of progress, but diligence is evident for the Park Service as a whole.

Yours very truly,

A. van V. Dunn,
Hydraulic Engineer.

Enclosure 2122033.

cc: Director.
Regional Director, Region Two.
Regional Director, Region Three.
Supt., Rocky Mt. Nat. Park.
Supt., Zion Nat. Park.
Supt., S.W.Nat. Mons.

07-20-1942: memorandum to water rights section, region four headquarters from nps regarding water right application no. 13619

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION THREE
SANTA FE, NEW MEXICO

JUL 23 1942
ROUTING | Date
7/23
9/18
4/18

July 20, 1942.

MEMORANDUM for the Water Rights Section,
Region Four Headquarters.

Reference is made to your memorandum of May 5 to the Superintendent of Southwestern National Monuments, relative to Water Right Application No. 13619, for the appropriation of 0.088 sec. ft. of water from the well at the Headquarters Area of Arches National Monument.

This water system has been placed in operation with the installation as shown in red on the enclosed print of Drawing No. NM-ARC-5312.

The reservoir is a 20,000 gallon, 2-cell, reinforced concrete underground tank. The pump unit has a 30-gallon per minute deep well pump, driven by a gasoline engine. (This information is obtained from a list of materials in this Office, furnished by Southwestern National Monument Headquarters with Job Application No. 19, and if another type or capacity pump was obtained, Mr. Richey is requested--by copy of this memorandum--to so advice.)

Due to curtailment of CCC activities at Arches National Monument, the installation was changed from 4" pipe to 2" pipe, in order to make domestic water available at the Custodian's residence.

It is hoped that with this information you can approve construction and use of the water applied for.

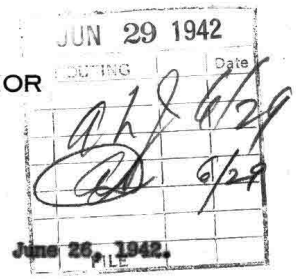
J. L. Lemmon
Regional Engineer.

cc: Actg.Supt.S.W.Natl.Mnts.

Encl.2121985.

10-03-1958: memorandum to regional director, region three from acting superintendent regarding water rights application no. 1561

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
SOUTHWESTERN NATIONAL MONUMENTS
COOLIDGE, ARIZONA



June 26, 1942.

MEMORANDUM for the Regional Director, Region Three.

Reference is made to Hydraulic Engineer Dunn's memorandum of May 5 referring to Water Rights Application No. 15619 for the appropriation of 0.088 sec. ft. of water from our well at the entrance of the headquarters area, Arches National Monument.

The pumping unit for the well was installed, the pump line laid, the reservoir completed, and a distribution line placed to the Custodian's Residence before Camp NP-7-U was disbanded.

We have received informal information from Custodian Schmidt that Mr. Bradley of your office has been at Arches recently, and has taken sufficient engineering information to prepare as constructed plans of the water system and sewer system.

We presume that this information has been secured by your office in order that engineering data may be supplied to the Water Rights Division as requested in Mr. Dunn's memorandum of May 5. If this is the case, it will be appreciated if this information is supplied direct to the Water Rights Division, supplying us with a copy at the same time so that our files will be complete.

CHARLES A. RICHEY
Acting Superintendent.

cc: Water Rights Division, Region Four.
Custodian, Arches National Monument.

05-05-1942: memorandum to superintendent from hydraulic engineer regarding water right application no. 13619

601 Sheldon Building

May 5, 1942.

MEMORANDUM for the Superintendent,
Southwestern National Monuments.

Reference is made to your Water Right Application No. 13619 for the appropriation of 0.068 sec. ft. of water from well at the Entrance or Headquarters of Arches.

Construction is supposed to be completed by December 15, 1943, or we shall have to request an extension of time. We wonder if the main system is not about complete now. This is merely an inquiry to determine what progress has been made to date. We have only drawing NM-ARC-5308. As soon as we receive final plans and advice that the system is in we can prepare "Proof of Construction". These plans, however, must include the line to the reservoir and description of the reservoir and pump unit.

Hydraulic Engineer.

AvWD:SH

cc: Director.
Region Three.
Custodian, Arches N. M.

FILE COPY

07-11-1941: memorandum to hydraulic engineer dunn from regional engineer regarding water right application no. 13619

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION THREE
SANTA FE, NEW MEXICO



July 11, 1941.

MEMORANDUM for Hydraulic Engineer Dunn,
Water Rights Section - Region Four:

Reference is made to your memorandum June 10, addressed to the Regional Director, Region Three, with which you supplied us with a copy of the Water Right Application No. 13619, to provide a well for the Headquarters Area at Arches National Monument.

Construction of the water storage reservoir will begin shortly, to be followed by installation of the distribution line as soon as survey data can be obtained and necessary plans prepared. It is anticipated that the water system will be well under way toward completion before the end of this year.

As soon as plans for the distribution system are prepared and approved, print copies of the reservoir and distribution line will be forwarded to you--along with data pertaining to the pump and motor--for your information and files.

John M. Diehl
Regional Engineer.

cc Supt.Miller.
Cust.Schmidt.

06-10-1941: memorandum to regional director from hydraulic engineer regarding master plan sheet nm-arc-5308

June 10, 1941.

MEMORANDUM for the Regional Director, Region III:

Reference is made to your memorandum of May 2, 1941, to the Water Rights Section, and Superintendent Miller's memorandum to me of May 12, 1941, transmitting respectively the Master Plan Sheet NM-ARC-5308, Headquarters Area Utilities, and Water Right Application No. 13619 to provide a well for that area at Arches National Monument.

We enclose a copy of the water right application for your files. Since the well has been dug, we have already complied with the requirement that construction should start within six months after September 19, 1940.

The next requirement is to complete construction and apply the water to beneficial use by December 15, 1943. We can probably obtain an extension of time for complete application of the water to beneficial use, if needed, during the summer of 1943, but we wish to stress the importance of Mr. Miller's hope that CCC facilities will be available for completion of the main part of the water system before that date.

The main part of the water system would be the pump unit, distribution reservoir, pump line between, and a distribution main from the reservoir to those buildings which are to be constructed first. In addition to the actual construction we shall need, as soon as it is available, a copy of the plan and profile from which the system is to be built. Drawing NM-ARC-5308 would seem to provide much of the data, if the print was from an original tracing, but it does lack the reservoir and that portion of the pipe line. It also lacks the data from which to describe the pump and motor.

We concur with Superintendent Miller in doing nothing more with the CCC Camp well insofar as it is in reality the property of the Division of Grazing. However, if that camp should become permanent during the next year, we should be advised in order that we can file the necessary map of the water system now being used.

Enclosure 2136723.

Hydraulic Engineer.

cc: Director)with copy of
Supt. Miller)application.

AvVD:SH

FILE COPY

05-12-1941: memorandum to hydraulic engineer from superintendent regarding well drilled at arches

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
HEADQUARTERS, SOUTHWESTERN MONUMENTS
COOLIDGE, ARIZONA



MEMORANDUM for Hydraulic Engineer A. van V. Dunn.

Copy of your memorandum of April 26 for the Regional Director, Region Three, with respect to the well drilled at Arches National Monument, has come to my attention.

It is true that the Grazing Service actually drilled the well for us. The application to appropriate water, No. 13619, was, however, made by this office. The drilling was originally in the nature of a test, but since it was successful it is planned to utilize waters of the well for monument headquarters. A copy of the application is enclosed for copying as requested.

Reviewing the matter. We realize that it should have been referred to you. In fact, since it was regarded merely as a test, the propriety of such reference excaped us at the time and since we have, apparently, until December 15, 1943, to submit proof of appropriation, it had been our intention to wait until we had gotten the water system constructed under CCC. Detailed plans for construction have not yet been prepared. Yet we hope to receive a special allotment of CCC funds to buy the pipe, fittings, etc., and to proceed with construction some time this summer.

We will keep you informed and will welcome your comments and advice.

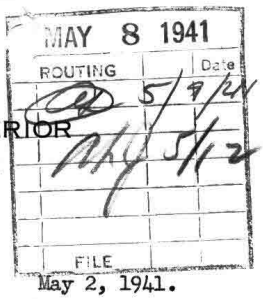
The Grazing Service did drill a well for us (in fact) to be utilized by the CCC camp. But such well is situated on public domain within the grazing district and upon termination of the CCC project will revert to the status of a stock well. On this hole the Grazing Service did file the application with the State, but that seems proper since it is not on monument lands and the monument will not be interested in it upon completion of the CCC project.

Superintendent.

cc: Region Three.
Cust. Schmidt.
Encl.

05-02-1941: memorandum to water rights section from regional director regarding print of plan nm-arc-5308

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION THREE
SANTA FE, NEW MEXICO



May 2, 1941.

Memorandum to the Water Rights Section - Region Four:

In accordance with Hydraulic Engineer Dunn's request in his memorandum to this Office of April 26, there is being sent you print of Plan NM-ARC-5308, Headquarters Area, Utilities Layout, Arches National Monument.

Since this plan was drafted, location for the reservoir has been moved to the east about 350 feet, to place it almost directly up-slope above the well location. Also the general elevation of the area has been lowered one foot. The floor of the reservoir will be about 4190 ft. Plans of the water system as finally constructed will be furnished your Office.

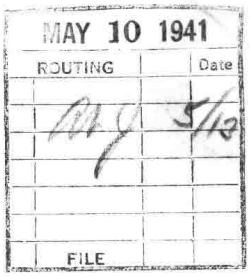
The Regional Office files do not contain correspondence with the Division of Grazing regarding the drilling of the well. Presumably Superintendent Miller, Southwestern National Monuments, will furnish your office with copies of this correspondence.

Milton J. McColm
Acting Regional Director.

Encl.2489443.

cc:Supt.Miller.
Cust.Schmidt.
Hydrl.Engr.Dunn.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION THREE
SANTA FE, NEW MEXICO



April 26, 1941.

Memorandum for the Regional Director - Region Three:

On April 17, 1941 Superintendent McLaughlin and I had lunch in Moab on my way from Mesa Verde to Grand Junction, and had a visit from Custodian Henry Schmidt of Arches National Monument. I took the opportunity to make inquiries which produced the following information:

> The Division of Grazing drilled a well for the Park Service at the proposed entrance during 1940. The well is 117 feet deep, with water surface 90 feet below the ground. The source of supply is a water-bearing stratum of the Navajo Sandstone, although there are several springs on the surface along the fault line in the same vicinity. A 17-hour test pump delivered 10 gallons per minute (0.0223 sec.ft.) with no apparent lowering of the water table. Water Right Application No. 13619, with priority of August 2, 1940 was filed with the State Engineer. The well is located North 13°31' West 634.4 ft. from the ¼ corner common to Sections 20 and 21, T25S, R21E, SLM.

I gather that the application was filed by the Division of Grazing as a part of its normal procedure in complying with the State Water Codes where it operates. The procedure is entirely satisfactory, but it would be desirable in the future if the Water Rights Section could be advised when such interbureau activity is to be followed. We should have a copy of the application for comments before it is filed.

Now that the well is drilled, the next procedure is the construction of the pipe line with pump, the filing of a map of the water system, and proof of full beneficial use. It seems probable that the Division of Grazing was only interested in the permit to drill the well. The rest of the procedure to perfect the right is a Park Service duty which should be referred to the Water Rights Section. Proof of beneficial use will naturally have to wait until the development of the entrance area is complete. I do not know whether your water system and reservoir are fully planned and constructed or not.

For the moment will you please supply my office in San Francisco with a print of your development plan for the entrance area, and have Superintendent Miller lend us the Water Right Application for copying? We should also like to borrow the complete file on the water system and arrangements with the Division of Grazing for review and partial copying. This is merely a request for what is in your file or that at Casa Grande. We will request further records from the State Engineer if necessary, but wish to be fully informed before making such a request for copies.

Arches National Monument is the only case which has come to my attention. There may be others where the Division of Grazing is active in a Park Service Area. The same information will be desirable wherever you have been so fortunate as to obtain the cooperative assistance of the Division of Grazing.

A. van V. Dunn,
Hydraulic Engineer.

cc Director.
Supt.Miller.
Regl.Attorney-Region Four.
Hydrl.Engr.Dunn, Region Four.
Cust. Schmidt-Arches N.M.

07-25-1940: letter to superintendent from office of state engineer regarding status of your application no. 13619

COPY

T. H. HUMPHERYS
State Engineer

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

July 25, 1940

JUL 27 1940

Mr. Hugh M. Miller
Superintendent
Southwestern Monuments
National Park Service
Coolidge, Arizona

Dear Sir: REL: APPLICATION NO. 13619

I have your letter of July 18 inquiring as to the status of your Application No. 13619 submitted to this office with your letter of May 10.

Receipt of this Application was acknowledged by my letter of May 20, which also gave permission to drill the well prior to formal approval of the Application. A copy of that letter is enclosed.

A notice to water users concerning your Application was published in five Thursday issues of the Deseret News, Salt Lake City, ending July 11, 1940. The law provides a protesting period of 30 days following the last publication must expire before an Application can be formally approved.

Enclosed are receipts Nos. A-1158 and 3016 each for $5 acknowledging payment of the fees for filing, advertising and approving your Application. The actual cost of advertising will be somewhat less than the $5 deposited for this purpose. Will you be kind enough to indicate what disposition should be made of the balance?

Yours very truly,

(Signed) H. H. Humpherys

T. H. Humpherys
STATE ENGINEER
(C)

4/vm
Enc:Receipts Nos. A-1158
and 3016
Copy letter May 20

C O P Y

May 20, 1940

JUL 27 1940

Mr. Hugh M. Miller, Superintendent
Southwestern National Park Service
U. S. Department of the Interior
Coolidge, Arizona

Dear Sir: REL: APPLICATION NO. 13619

Your request by letter of May 10 for permission to start at once the drilling of a well in Grand county from which you propose to divert .088 second feet of water for domestic purposes, as set forth in your unapproved Application No. 13619, has been considered. Likewise, records in this office covering wells in the vicinity of the one you propose have been examined, from which it appears that there is unappropriated water in the source which will be tapped by your proposed well.

Therefore, as requested, you may proceed to drill this well at your own risk and divert water therefrom prior to the approval of said Application, with the understanding that this action in no way grants a permanent right to the use of water from said well. Such a right may be granted only if and when, your Application is officially approved. You will understand also, that approval of said Application, if and when given, will be subject to existing rights. Therefore, if it finally develops that use of water from this well interferes with existing rights to use of water from other wells, whether or not your Application has been approved, your well may be closed.

This well must be drilled by a driller in possession of a 1940 Permit to drill, clean, repair, or deepen wells in this State, issued by the State Engineer. Prior to commencing, he shall give this office notice as to the day he will begin, and under the terms of his license, within 30 days after the well has been completed or abandoned, will file a Well Driller's Report. This report shall cover in detail, work done at the well and become part of the files in this office pertaining to Application No. 13619.

This is the driller's authority to begin drilling the well under conditions herein set forth.

I am returning enclosed, original voucher for payment of fees in connection with Application No. 13619, which has been signed as requested. The sum of $10.00 is to be used as follows: Filing fee, $2.50; advertising fee, $5.00; and approval fee $2.50 covering Application No. 13619.

Yours very truly,

(Signed T. H. Humpherys
STATE ENGINEER

2/nty
Encl:Voucher

COPY of COPY

05-10-1940: letter to state engineer from superintendent regarding application to appropriate water for domestic purposes

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
SOUTHWESTERN NATIONAL MONUMENTS
COOLIDGE, ARIZONA

May 10, 1940

Mr. T. H. Hempherys, State Engineer
The State of Utah
Salt Lake City, Utah

Dear Mr. Hempherys:

There is enclosed an application to appropriate water for domestic purposes at Arches National Monument, near Moab, Utah. This in response to your courteous letter of April 27. Also enclosed is voucher for total fees amounting to $10. It would be greatly appreciated if permission to proceed might be given at the earliest practicable date.

Sincerely,

Hugh M. Miller,
Superintendent

cc: Custodian Schmidt

C O P Y

(SEAL)

THE STATE OF UTAH
OFFICE OF STATE ENGINEER
SALT LAKE CITY

T. H. HUMPHERYS
State Engineer

April 27, 1940

Mr. Hugh M. Miller, Supt.
Southwestern Monuments
National Park Service
Coolidge, Arizona

Dear Sir: REL: GENERAL

I have your letter of April 15 requesting forms upon which to make application to appropriate underground water at the Arches National Monument in Grand County, Utah. Enclosed are two domestic forms, one of which may be filled in to show your intentions and resubmitted to this office. The other may be retained for your files. Also enclosed is a paper containing suggestions for filling in the form. It will be noted that you are asked to indicate the depth and diameter of the well in paragraph 8 of the form. Although the depth cannot be definitely determined before drilling, particularly in areas such as Grand County where there are very few wells, your expectations as to depth should be indicated.

The fee for filing an Application is $2.50. It must subsequently be advertised at a cost of $5.00 and if designated for approval, an additional fee of $2.50 is payable. Other federal agencies filing on water have submitted vouchers which are temporarily accepted as fees until the payment is actually made. Only the filing fee need be paid at the time the Application is filed. However, it is noted that drilling equipment owned by the Division of Grazing will do the work and there is an indication that you have reason to proceed immediately with drilling, without waiting for formal approval of the Application, which can be given only after advertisement and will, therefore, require approximately three months. If you desire to proceed at once, your reasons should be set out in a letter accompanying the Application and the voucher or payment should be made in the amount of $10.00 to cover all of the fees mentioned. The State Engineer will then make a preliminary investigation and if it is found that the drilling will not impair other rights, will authorize you to proceed immediately before waiting for formal approval of the Application.

Yours very truly,

(Signed) T. H. Humpherys
T. H. Humpherys
STATE ENGINEER
c

4/vm
Enc: Application Forms (2)
Suggestions for Preparing
Applications

04-15-1940: letter to state engineer from nps regarding proposal to drill a water well within the boundaries

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
SOUTHWESTERN NATIONAL MONUMENTS
COOLIDGE, ARIZONA

April 15, 1940

Mr. T. H. Humphreys, State Engineer
Capitol Building
Salt Lake City, Utah

Dear Mr. Humphreys:

The National Park Service proposes to drill a water well within the boundaries of Arches National Monument, near Moab, Grand County, Utah. Will you supply this office with the proper forms for making the Application to File on water in the State of Utah?

The purpose of the well is to create a water supply for the headquarters area that is to be developed at the Monument. Water from the well is to be used for both domestic purposes and for fire protection of the area.

The proposed location for the well is North 13 degrees 31 minutes West 634.4 feet from the quarter corner common to Sections 20 and 21, Township 25 South, Range 21 East, Salt Lake Base and Meridian. Enclosed you will find four copies of the township plat with the location of the proposed well noted thereon.

Inasmuch as a Division of Grazing well rig and driller are now in this vicinity, we propose to drill the well with their cooperation.

Your prompt action in assisting us in making this filing will be very much appreciated.

Very truly yours,

Hugh M. Miller,
Superintendent.

For previous mention of Arches National Monument,
see Attorney Johnson's report of August 1, 1937, in
Southwestern National Monuments File 660-05.7

Form 97 2M 10-70

Application No. _____

APPLICATION TO APPROPRIATE WATER
STATE OF UTAH

NOTE:—The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation ☒ Domestic ☒ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☐ Other Uses ☐
2. The name of the applicant is National Park Service
3. The Post Office address of the applicant is _____
4. The quantity of water to be appropriated 0.088 second-feet and/or _____ acre-feet
5. The water is to be used for Domestic (Major Purpose) from Jan 1 (Month) (Day) to Dec. 31 (Month) (Day)

   other use period _____ (Minor Purpose) from _____ (Month) (Day) to _____ (Month) (Day)

   and stored each year (if stored) from Jan 1 (Month) (Day) to Dec. 31 (Month) (Day)
6. The drainage area to which the direct source of supply belongs is _____ (Leave Blank)
7. The direct source of supply is* Underground Water (Name of stream or other source)

   which is tributary to _____, tributary to _____

*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in Grand County, situated at a point* 20' due west of a point N13°31'W 634.4 ft from East quarter corner common to Sections 20 and 21, T25S, R21E, SLB&M

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of 8" cased well 123 ft deep and 7,000 feet conveyance pipe
10. If water is to be stored, give capacity of reservoir in acre-feet _____ height of dam _____ area inundated in acres _____ legal subdivision of area inundated a 20,000 gallon and a 50,000 gallon reservoir
11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:

    _____ Total _____ Acres
12. Is the land owned by the applicant? Yes _____ No _____ If "No," explain on page 2.
13. Is this water to be used supplementally with other water rights? Yes _____ No _____
    If "yes," identify other water rights on page 2.
14. If application is for power purposes, describe type of plant, size and rated capacity. _____
15. If application is for mining, the water will be used in _____ Mining District at the _____ mine, where the following ores are mined _____
16. If application is for stockwatering purposes, number and kind of stock watered _____
17. If application is for domestic purposes, number of persons _____, or families _____
18. If application is for municipal purposes, name of municipality _____
19. If application is for other uses, include general description of proposed uses _____
20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. _____
21. The use of water as set forth in this application will consume _____ second-feet and/or acre-feet of water and _____ second feet and/ or acre feet will be returned to the natural stream or source at a point described as follows: _____

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described

Signature of Applicant*

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH,
County of..... } ss

On the .....day of ....., 19....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public

00-00-0000: application to appropriate water state of utah

Form 97 2M 10-70

Application No. _____

APPLICATION TO APPROPRIATE WATER
STATE OF UTAH

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1. Irrigation ☑ Domestic ☑ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☐ Other Uses ☐
2. The name of the applicant is NPS Arches N.P.
3. The Post Office address of the applicant is _____
4. The quantity of water to be appropriated 0.028 second-feet and/or _____ acre-feet
5. The water is to be used for Domestic (Major Purpose) from Jan 1 (Month) (Day) to Dec 31 (Month) (Day)

   other use period _____ (Minor Purpose) from _____ (Month) (Day) to _____ (Month) (Day)

   and stored each year (if stored) from Jan 1 (Month) (Day) to Dec 31 (Month) (Day)
6. The drainage area to which the direct source of supply belongs is _____ (Leave Blank)
7. The direct source of supply is* UNDERGROUND WATER (Name of stream or other source)

   which is tributary to _____, tributary to _____

*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in Grand County, situated at a point* 20' due west of a point N 13° 31' W 634.4 ft. from S. quarter corner Common to Sec 20 & 21 T 25 S, R 21 E SL B&M

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of 8" cased well 123 ft deep & 2,000 ft of conveyance pipe
10. If water is to be stored, give capacity of reservoir in acre-feet _____ height of dam _____ area inundated in acres _____ legal subdivision of area inundated a 20,000 gal & a 50,000 gal reservoir
11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:

    ☒ Approx. .25 ac. consisting of small lawns

    Total .25 Acres
12. Is the land owned by the applicant? Yes ✓ No _____ If "No," explain on page 2.
13. Is this water to be used supplementally with other water rights? Yes _____ No _____
    If "yes," identify other water rights on page 2.
14. If application is for power purposes, describe type of plant, size and rated capacity. _____
15. If application is for mining, the water will be used in _____ Mining District at the _____ mine, where the following ores are mined _____
16. If application is for stockwatering purposes, number and kind of stock watered _____
17. If application is for domestic purposes, number of persons 30-40, or families 10
18. If application is for ~~municipal~~ purposes, name of ~~municipality~~ _____
19. If application is for other uses, include general description of proposed uses Pvt Public Visitor to Arches Natl Park appx. 327,000 annually
20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. SE 1/4 NE 1/4 Sec 20 & SW 1/4 NW 1/4 Sec 21, T 25 S, R 21 E
21. The use of water as set forth in this application will consume _____ second-feet and/or acre-feet of water and _____ second feet and/ or acre feet will be returned to the natural stream or source at a point described as follows: _____

00-00-0000: application to appropriate water state of utah, page 2cont

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

Domestic water is used for 6 residences, one 4 unit apartment, a maintenance yard and a visitor center.
Irrigation water is used to irrigate lawns and trees - approx. .25 acres.
All of this use is in the Headquarters area of Arches N.P. ~~Visitation varies dramatically throughout the year and no record of visitor use is kept.~~

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described

Signature of Applicant*

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH,
County of..... } ss

On the .....day of ....., 19....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public

00-00-0000: in the sixth judicial district court, in and for the county of grand: in the matter of the general determination of rights to

Form 114
25M 4-63

IN THE SIXTH JUDICIAL DISTRICT COURT, IN AND FOR THE COUNTY OF ~~WAYNE~~ ? GRAND STATE OF UTAH

IN THE MATTER OF THE GENERAL DETERMINATION OF RIGHTS TO THE USE OF WATER, BOTH SURFACE AND UNDERGROUND, WITHIN THE DRAINAGE AREA OF THE COLORADO RIVER IN UTAH BUT EXCLUDING THE GREEN RIVER AND THE VIRGIN RIVER DRAINAGE AREA.

STATEMENT OF WATER USER'S CLAIM
CODE NO. 01 SERIAL NO. 25
MAP NO.

NOTE: This blank is sent to you in accordance with Utah Law. The information called for herein will be used in connection with the adjudication of water rights on the above mentioned drainage area. All questions applicable to your claim must be answered fully, and one copy of this form must be filed with the Clerk of the District Court at Loa, Utah, within sixty (60) days from date of service of the attached Notice. A copy shall be filed with the State Engineer, State Capitol, Salt Lake City. Failure to file the attached Statement of the Water User's Claim with the Clerk of the District Court within the time stated will forever bar and estop you from asserting any right to the use of water from said drainage area.

1. Name of Claimant United States of America
   Arches National Park Interest Claimed Full
2. Address Moab, Utah 84532
3. Name of particular spring, spring area, stream, well, tunnel or drain from which water is diverted is Underground water (well) in Grand County.
4. Priority date claimed May 17, 1940 Date when water was first used
   Date when work on diverting system was first begun Date when diverting system was completed
   Nature of work
5. Class of Right (Indicate by X):
   (a) Right to surface water initiated by beneficial use before 1903 Claim No.
   (b) Right to underground water initiated before 1935 Claim No.
   (c) Right decreed by court, cite title of case
   (d) X Application filed, State Engineer's Office No. 13619 Cert. of App. No. Election
   (e) Right acquired by adverse use prior to 1939
6. Nature (Indicate by X), Amount, and Annual Period of Use (by month & day):
   (a) X Irrigation Sec. Ft. Inc. from March 15 to November 15 (both dates incl.)
   (b) Stockwatering Sec. Ft. from to (both dates incl.)
   (c) X Domestic Sec. Ft. 0.088 from January 1 to December 31 (both dates incl.)
   (d) Municipal Sec. Ft. from to (both dates incl.)
   (e) Sec. Ft. from to (both dates incl.)
7. Direct Flow Appropriation (must be described with reference to U. S. Government Survey Corner)
   (a) Point of diversion from spring, spring area, stream, well, tunnel, drain N 13° 31' W. 634.4 ft. from the quarter corner common to Section 20 and 21, T25S, R21E, SLB&M.
   20' due West of a point N 13°31' W 634.4 FT. from East quarter Corner Common to Sections 20 & 21 T 25 S R 21 E SLB&M
   (b) Description of spring area
   (c) Point of rediversion or point of return to natural channel
   (d) If flow is intermittently diverted, list by number or description, all rights involved
8. Where water is used for irrigation purposes:
   (a) Area irrigated in legal subdivisions of land by 40-acre tract. (All sources of water for same land or lands must be described in each instance by name or claim number) 01-25: 0.25 ac. SE¼NE¼ Sec. 20, T25S, R21E, SLB&M.
   (b) Do you get water under a ditch owned by several users If so, give names of all users and divisions of interest
9. Where water is used for Stockwatering:
   (a) Number of each kind of stock watered
   (b) All sources of water for same stock. (Describe by name or claim number)
10. Where water is used for Domestic:
    (a) Number of families or their equivalent 3 4 families All sources of water for same use. (Describe by name or claim number)

11. Where water is used for Municipal Purposes:
(a) Name of city or town supplied ..... Population .....
Number of families ..... Quantity of water .....

12. Where water is used for a purpose not above enumerated:
(a) Nature of Use Visitor Center Extent of Use Used by
both public & employees in Visitor Center

13. Appropriation for Storage Purposes:
(a) Name of reservoir .....
(b) Location of reservoir by legal subdivisions described by 40-acre tracts .....
(c) Maximum capacity of reservoir in acre feet .....: Year construction commenced .....
Completed .....: Water first used ..... Is reservoir located on or off stream.....
(d) Period of Storage from ..... to ..... (both dates incl.). Period of use from .....
to ..... (both dates incl.). Maximum area in acres inundated ..... Max. depth in feet.....
Average depth in feet..... Is reservoir drained each year..... Maximum number of fillings per year..... Is reservoir used for equalizing purposes..... If feeder canal is used, give maximum carrying capacity in sec. ft.....

14. Diverting Works:
(a) Surface water diverting dam: Material composed of .....
Max. length..... Max. height.....Max. width at bottom..... Max. width at top.....
(b) Underground water diverting works: Is well flowing or pump PUMP Depth of well 123'
Diameter of well 8" Casing Length of drain..... Width of drain ..... Depth of drain.....
Diameter of drain..... Length of tunnel .....Width of tunnel..... Height of tunnel.....
Type of pump Submer Capacity of pump 242 gpm
(c) Surface and underground water conveying works: Length of ditch to first place of use..... Width of ditch at top ..... Width of ditch at bottom..... Depth of water..... Grade of ditch per 1000 ft..... Material through which ditch passes..... Maximum length of pipe line to first place of use..... Diameter of pipe line ..... Grade of pipe line per 1000 feet.....

15. The undersigned hereby enters his appearance and waives service of summons or other process.

STATE OF UTAH
} SS. (To be used if claimant is an individual)
COUNTY OF.....

..... being first duly sworn, upon oath deposes and says that he is the claimant whose name appears hereon, that he has read the foregoing statement of his claim and knows the contents thereof, that he has signed the same, and that the answers set forth therein are true to his best knowledge and belief.

.....
Signature of Claimant

Subscribed and sworn to before me this ..... day of ..... 19.....

.....
NOTARY PUBLIC

STATE OF UTAH
} SS. (To be used if claimant is a corporation or an estate)
COUNTY OF .....

....., being first duly sworn, upon oath deposes and says that he is the.....
..... of the above claimant, that he makes this certification on behalf of said claimant, that he has read the foregoing statement of claim and knows the contents thereof, and that he has signed the name of said claimant to said statement, that the answers set forth therein are true to his best knowledge and belief.

.....

Subscribed and sworn to before me this ..... day of ..... 19.....

.....
NOTARY PUBLIC

00-00-0000: in the sixth judicial district court, in and for the county of grand: in the matter of the general determination of rights to

Form 114
25M 4-63

IN THE SIXTH JUDICIAL DISTRICT COURT, IN AND FOR THE COUNTY OF WAYNE STATE OF UTAH

IN THE MATTER OF THE GENERAL DETERMINATION OF RIGHTS TO THE USE OF WATER, BOTH SURFACE AND UNDERGROUND, WITHIN THE DRAINAGE AREA OF THE COLORADO RIVER IN UTAH BUT EXCLUDING THE GREEN RIVER AND THE VIRGIN RIVER DRAINAGE AREA.

STATEMENT OF WATER USER'S CLAIM
CODE NO. 01 SERIAL NO. 25
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NOTE: This blank is sent to you in accordance with Utah Law. The information called for herein will be used in connection with the adjudication of water rights on the above mentioned drainage area. All questions applicable to your claim must be answered fully, and one copy of this form must be filed with the Clerk of the District Court at Loa, Utah, within sixty (60) days from date of service of the attached Notice. A copy shall be filed with the State Engineer, State Capitol, Salt Lake City. Failure to file the attached Statement of the Water User's Claim with the Clerk of the District Court within the time stated will forever bar and estop you from asserting any right to the use of water from said drainage area.

1. Name of Claimant United States of America
Arches National Park Interest Claimed Full
2. Address Moab, Utah 84532
3. Name of particular spring, spring area, stream, well, tunnel or drain from which water is diverted is Underground water (well) in Grand County.
4. Priority date claimed May 17, 1940 Date when water was first used
Date when work on diverting system was first begun Date when diverting system was completed
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(d) X Application filed, State Engineer's Office No. 13619 Cert. of App. No. Election
(e) Right acquired by adverse use prior to 1939
6. Nature (Indicate by X), Amount, and Annual Period of Use (by month & day):

(a) X	Irrigation	Sec. Ft. Inc.	from March 15	to November 15	(both dates incl.)
(b)	Stockwatering	Sec. Ft.	from	to	(both dates incl.)
(c) X	Domestic	Sec. Ft. 0.088	from January 1	to December 31	(both dates incl.)
(d)	Municipal	Sec. Ft.	from	to	(both dates incl.)
(e)		Sec. Ft.	from	to	(both dates incl.)

7. Direct Flow Appropriation (must be described with reference to U. S. Government Survey Corner)
(a) Point of diversion from spring, spring area, stream, well, tunnel, drain 13° 31' W. 634.4 ft. from the quarter corner common to Section 20 and 21, T25S, R21E, SLB&M.
(b) Description of spring area
(c) Point of rediversion or point of return to natural channel
(d) If flow is intermittently diverted, list by number or description, all rights involved
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(a) Area irrigated in legal subdivisions of land by 40-acre tract. (All sources of water for same land or lands must be described in each instance by name or claim number) 01-25: 0.25 ac. SE¼NE¼ Sec. 20, T25S, R21E, SLB&M.
(b) Do you get water under a ditch owned by several users If so, give names of all users and divisions of interest
9. Where water is used for Stockwatering:
(a) Number of each kind of stock watered
(b) All sources of water for same stock. (Describe by name or claim number)
10. Where water is used for Domestic:
(a) Number of families or their equivalent 4 families All sources of water for same use. (Describe by name or claim number)

11. Where water is used for Municipal Purposes:
(a) Name of city or town supplied ..... Population .....
Number of families ..... Quantity of water .....
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(a) Nature of Use ..... Extent of Use .....
.....
.....
.....
.....
.....
13. Appropriation for Storage Purposes:
(a) Name of reservoir .....
(b) Location of reservoir by legal subdivisions described by 40-acre tracts .....
.....
(c) Maximum capacity of reservoir in acre feet .....: Year construction commenced .....
Completed .....: Water first used ..... Is reservoir located on or off stream.....
(d) Period of Storage from ..... to ..... (both dates incl.). Period of use from .....
to..... (both dates incl.). Maximum area in acres inundated ..... Max. depth in feet.....
Average depth in feet..... Is reservoir drained each year..... Maximum number of fillings per year..... Is reservoir used for equalizing purposes..... If feeder canal is used, give maximum carrying capacity in sec. ft.....
14. Diverting Works:
(a) Surface water diverting dam: Material composed of .....
Max. length..... Max. height.....Max. width at bottom..... Max. width at top.....
(b) Underground water diverting works: Is well flowing or pump..... Depth of well.....
Diameter of well..... Length of drain..... Width of drain ..... Depth of drain.....
Diameter of drain..... Length of tunnel .....Width of tunnel..... Height of tunnel.....
Type of pump..... Capacity of pump.....
(c) Surface and underground water conveying works: Length of ditch to first place of use..... Width of ditch at top ..... Width of ditch at bottom..... Depth of water..... Grade of ditch per 1000 ft..... .. Material through which ditch passes..... Maximum length of pipe line to first place of use..... Diameter of pipe line ..... Grade of pipe line per 1000 feet.....
15. The undersigned hereby enters his appearance and waives service of summons or other process.

STATE OF UTAH
} SS. (To be used if claimant is an individual)
COUNTY OF.....

..... being first duly sworn, upon oath deposes and says that he is the claimant whose name appears hereon, that he has read the foregoing statement of his claim and knows the contents thereof, that he has signed the same, and that the answers set forth therein are true to his best knowledge and belief.

.....
Signature of Claimant

Subscribed and sworn to before me this ..... day of ..... 19.....

.....
NOTARY PUBLIC

STATE OF UTAH
} SS. (To be used if claimant is a corporation or an estate)
COUNTY OF .....

....., being first duly sworn, upon oath deposes and says that he is the.....
..... of the above claimant, that he makes this certification on behalf of said claimant, that he has read the foregoing statement of claim and knows the contents thereof, and that he has signed the name of said claimant to said statement, that the answers set forth therein are true to his best knowledge and belief.

.....

Subscribed and sworn to before me this ..... day of ..... 19.....

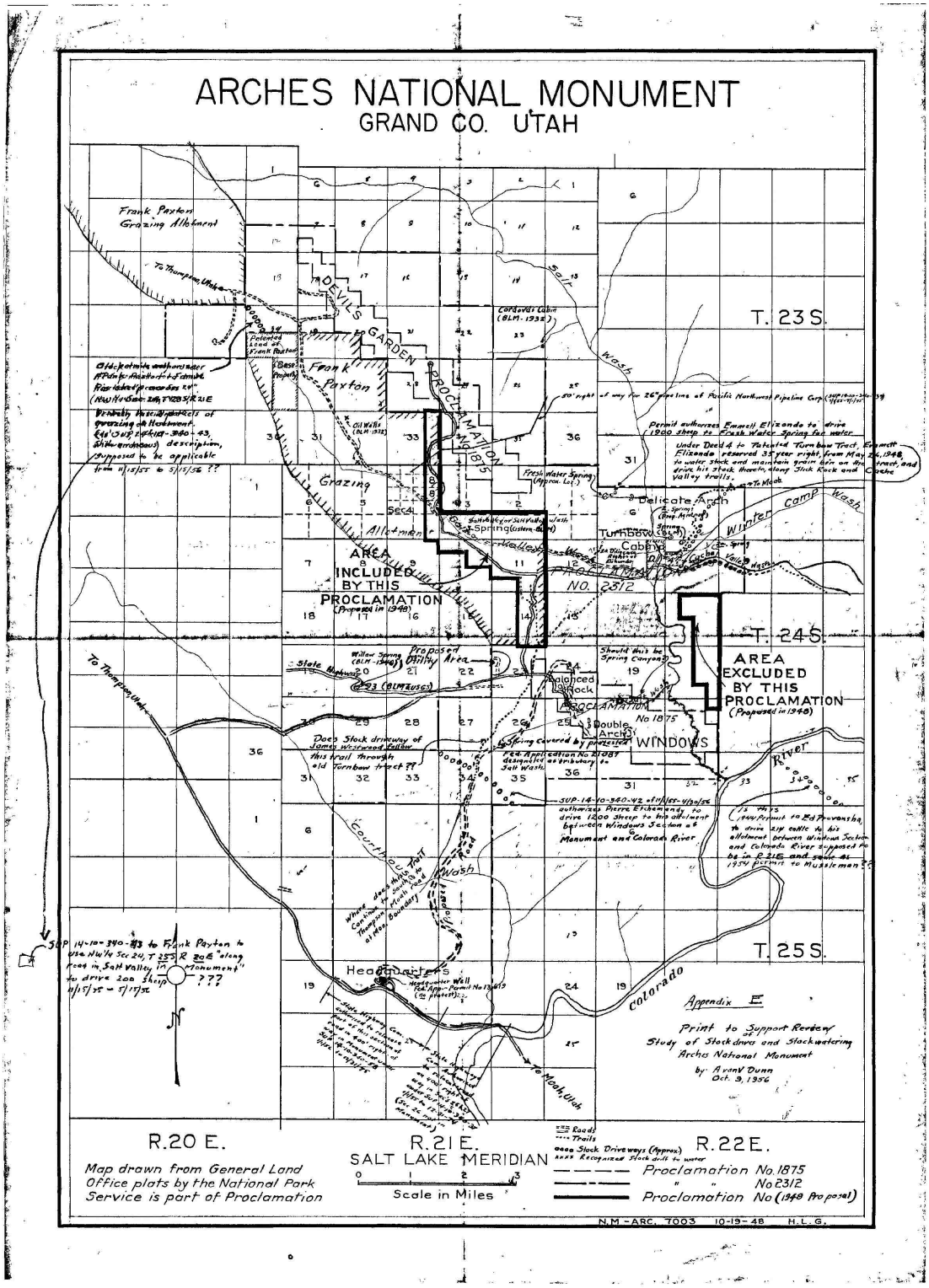
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NOTARY PUBLIC

Maps and Miscellaneous Information

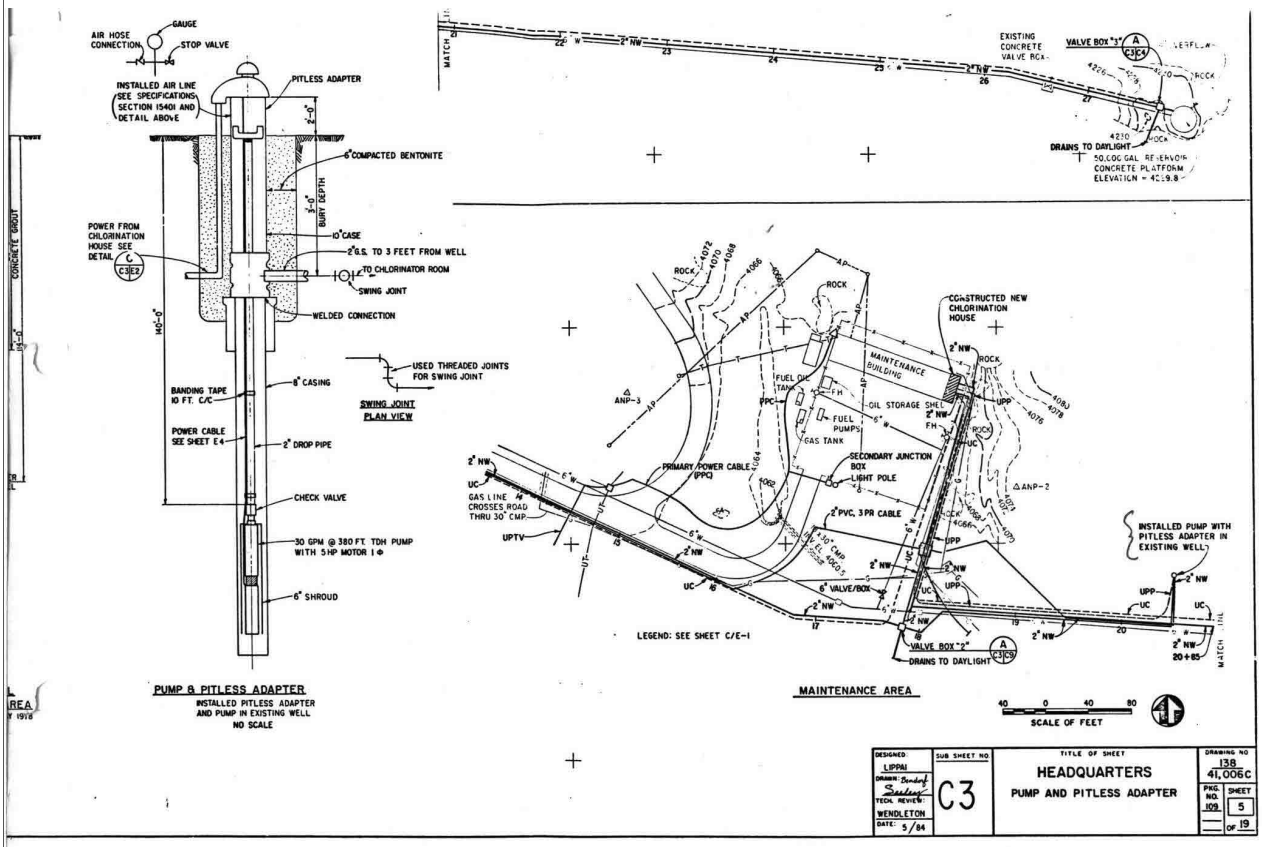
10-09-1941: map of proposed water system



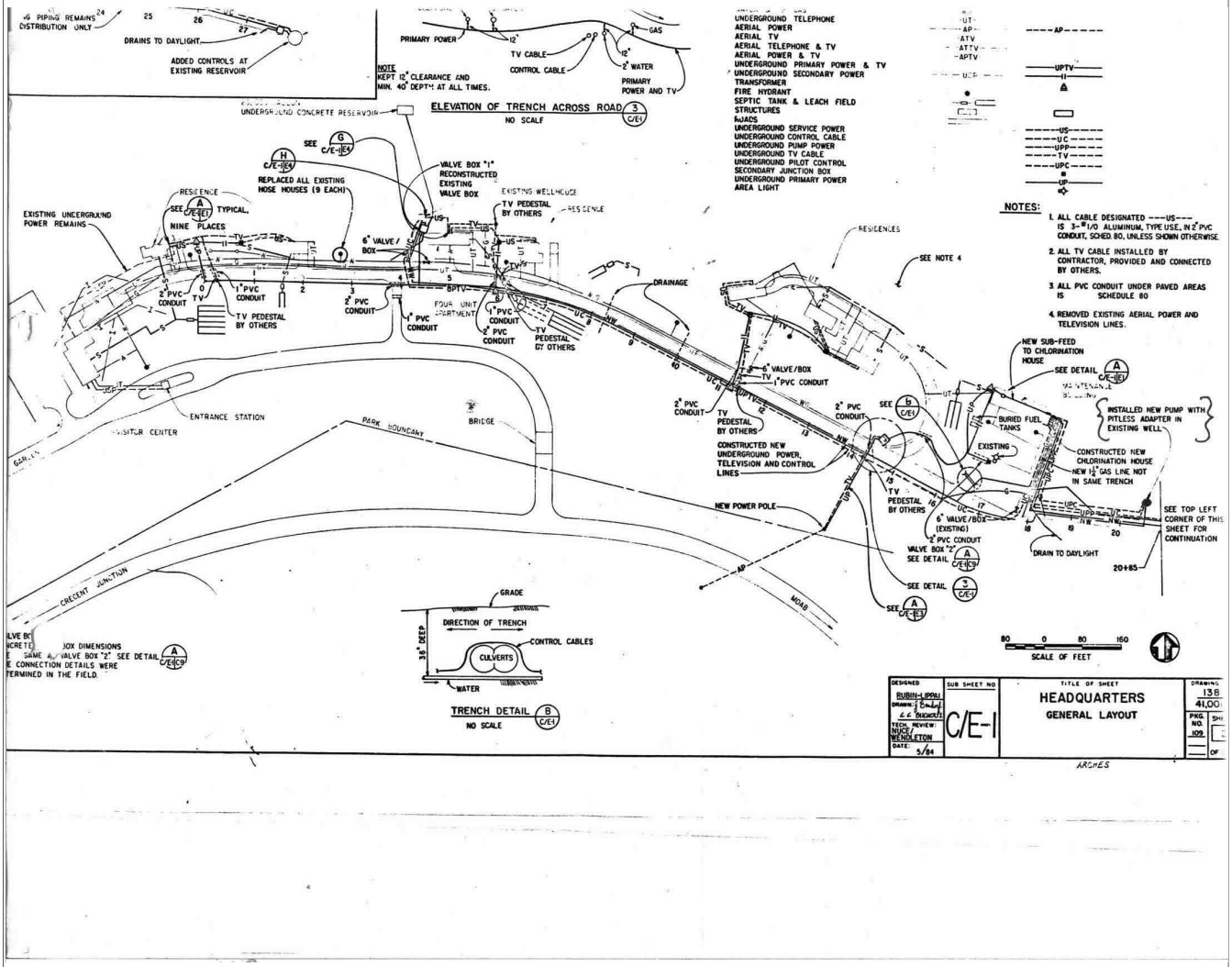
10-09-1956: topographic map of arches national monument showing areas included and excluded by proclamation



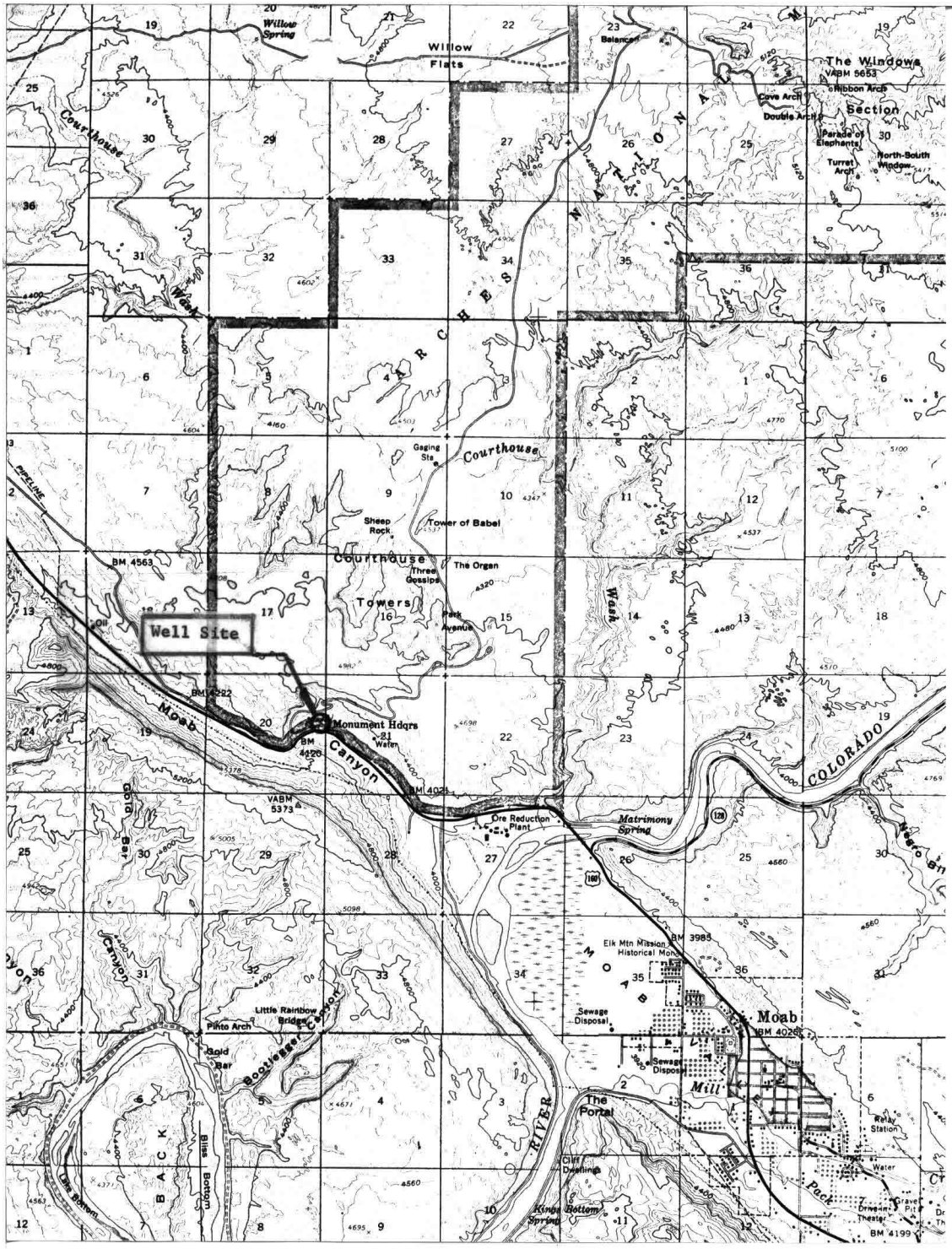
05-00-1984: map: headquarters pump and pitless adapter



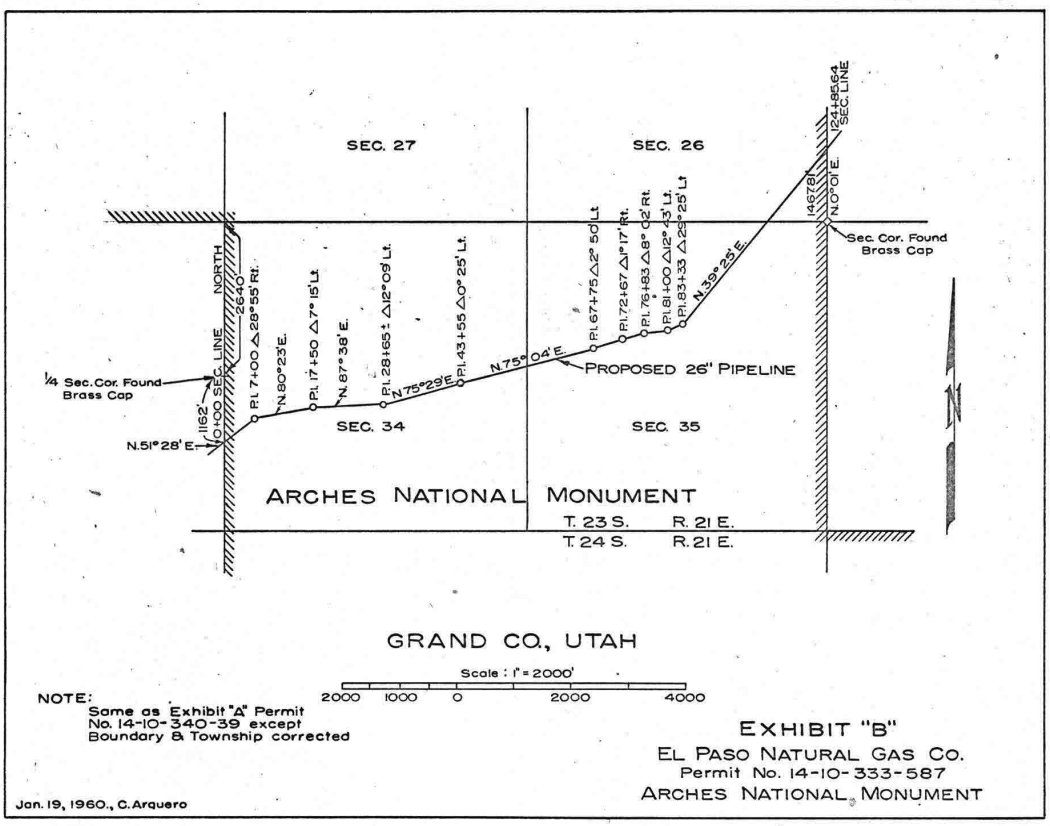
05-00-1984: map: headquarters general layout

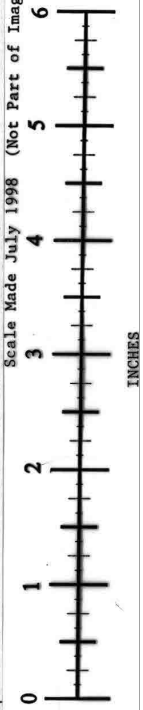


00-00-0000: map of well site

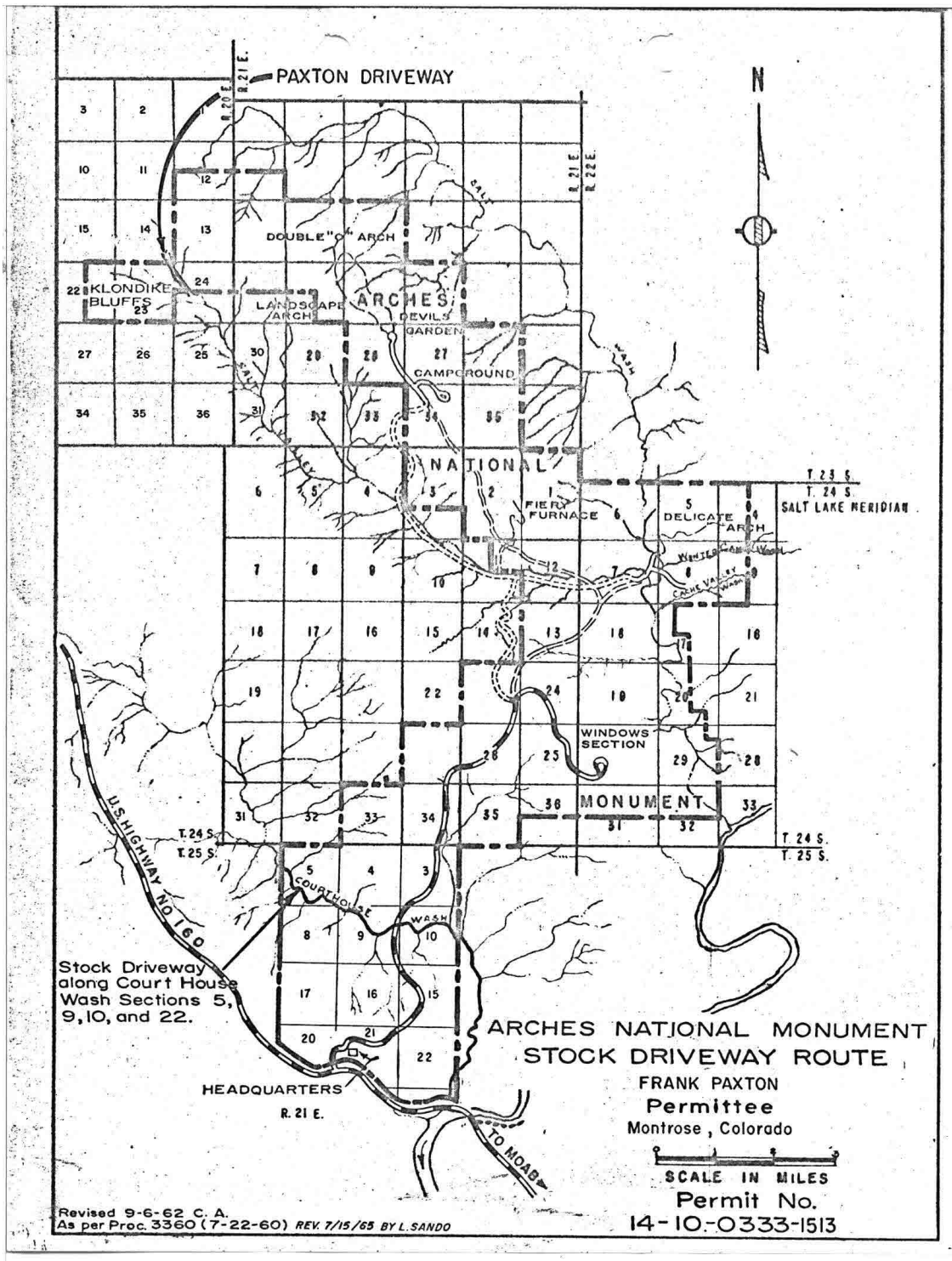


01-19-1960: map: arch exhibit 'b'; permit 14-10-333-587

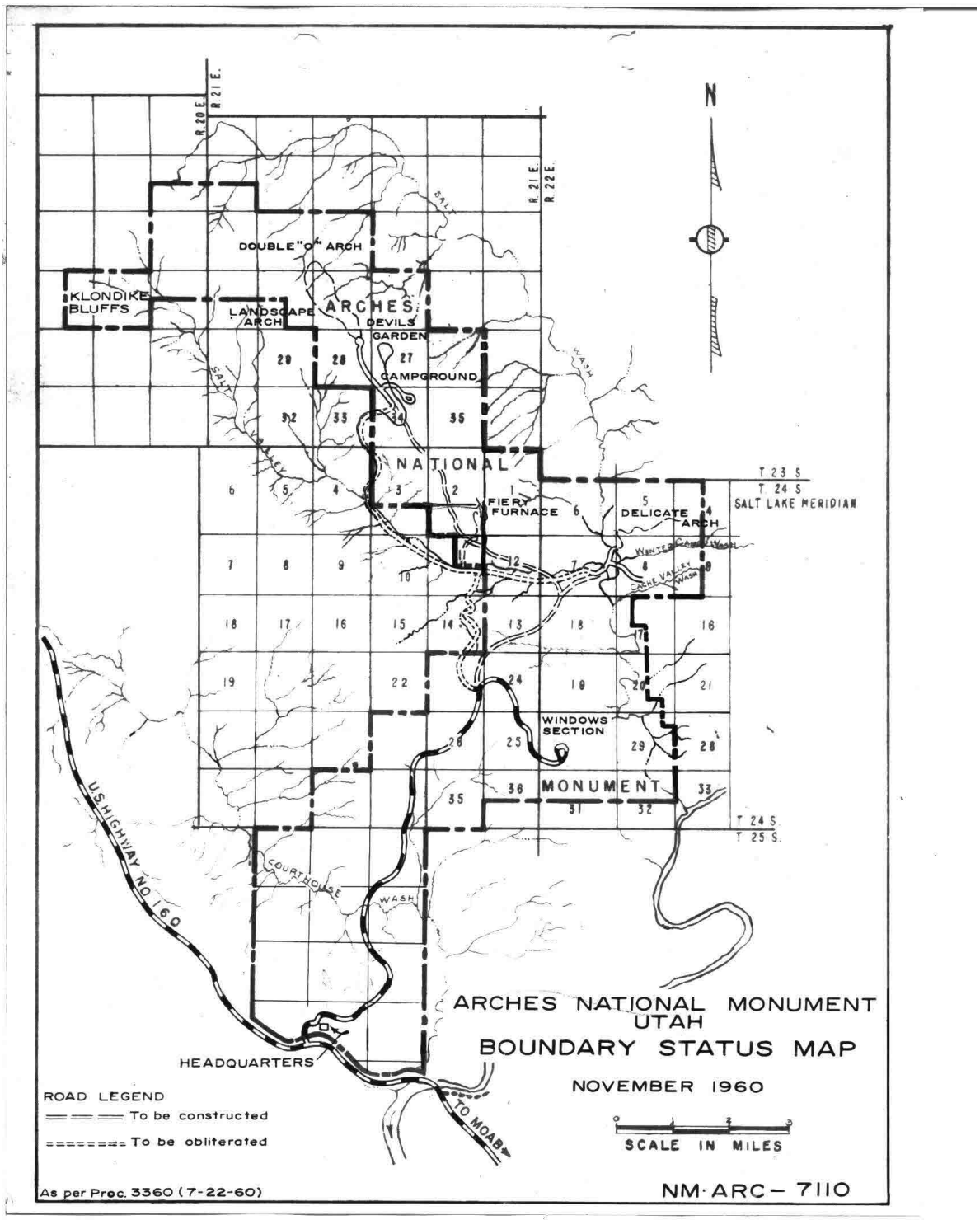




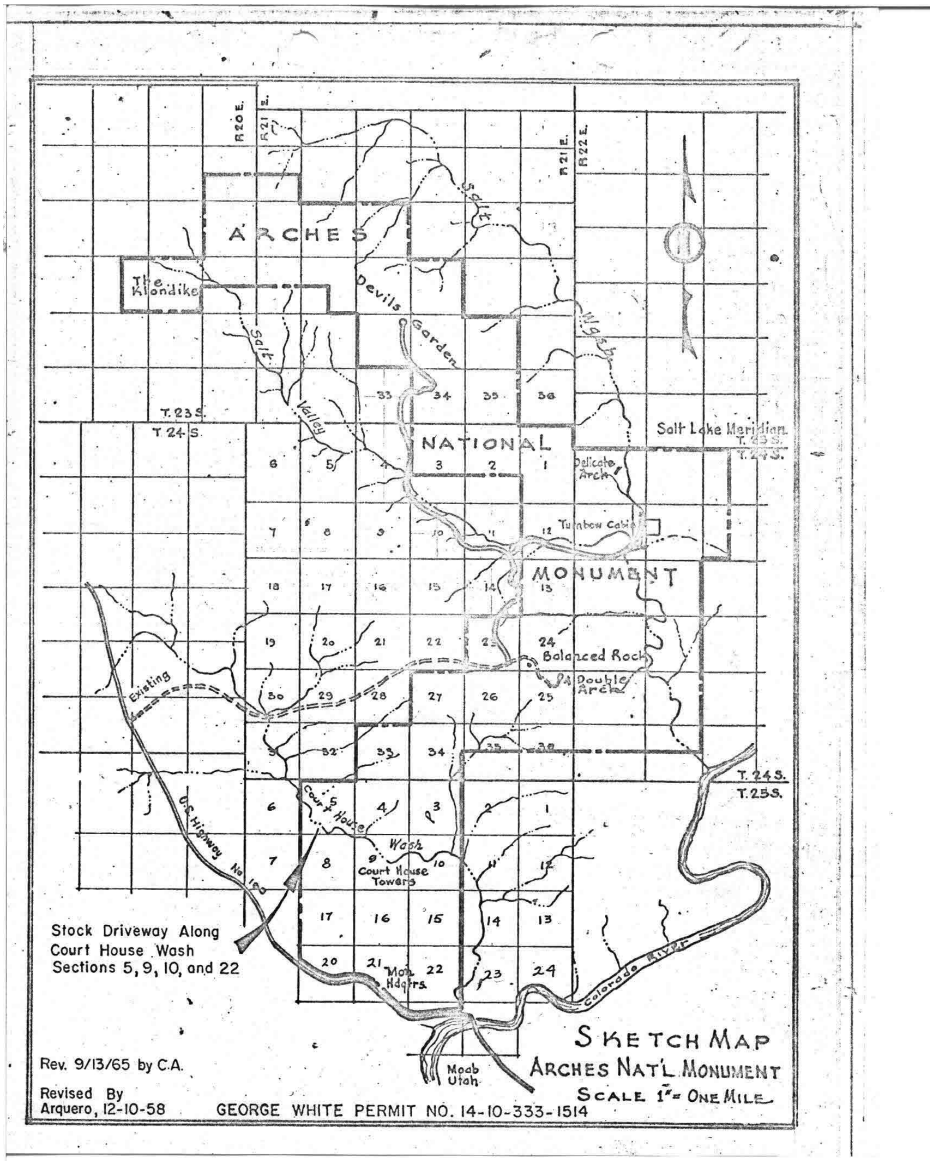
09-06-1962: map: arch stock driveway route; permit 14-10-333-1513

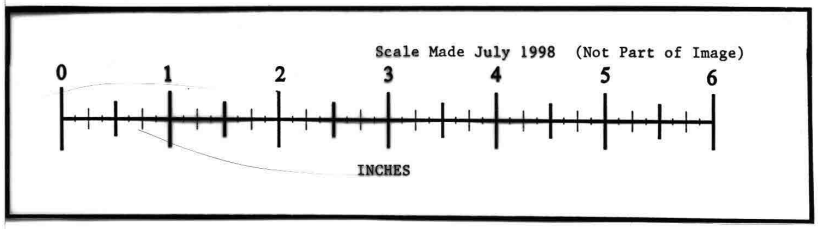


11-00-1960: map: arch boundary status map

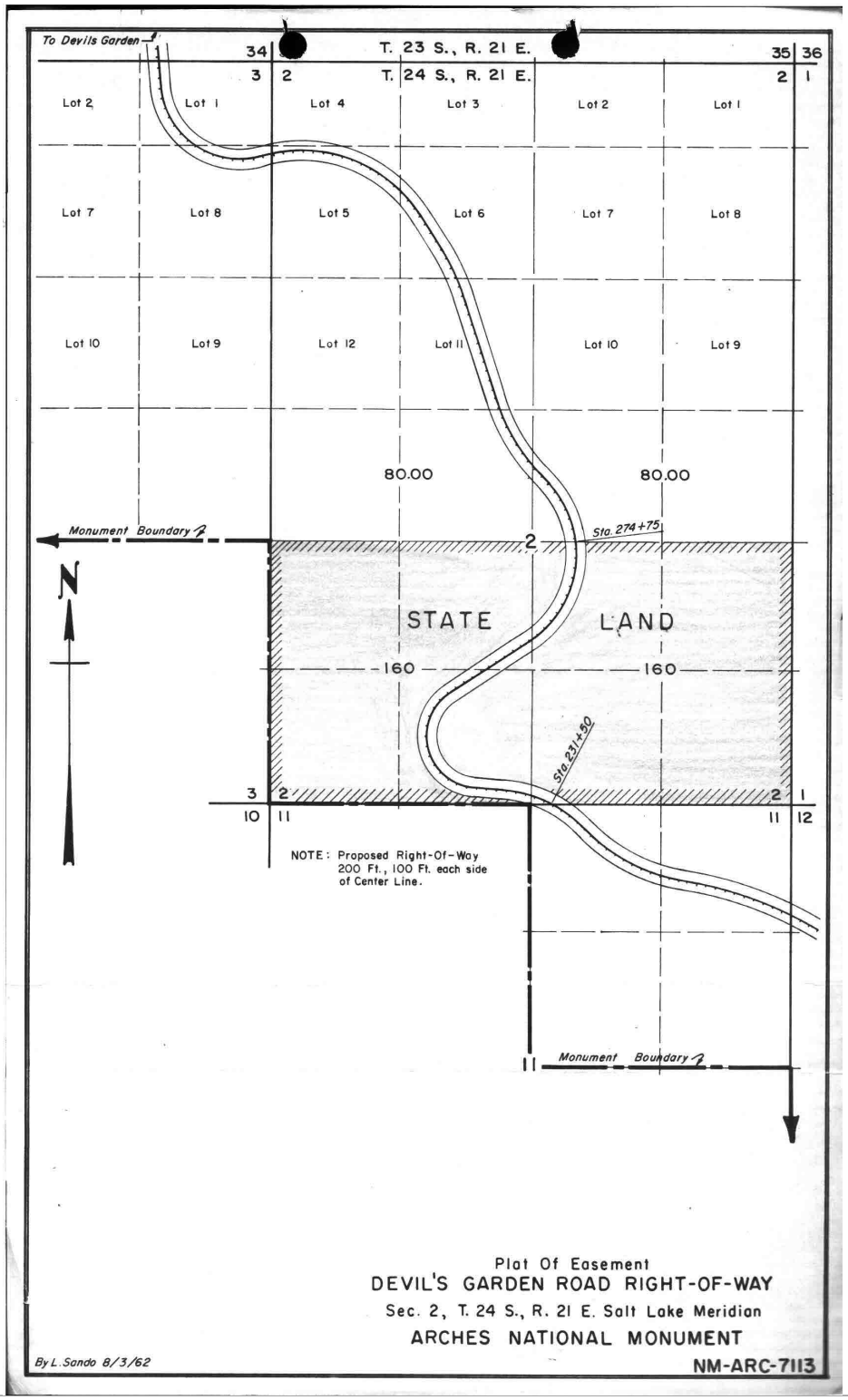


12-10-1958: sketch map: arches national monument; permit 14-10-333-1514

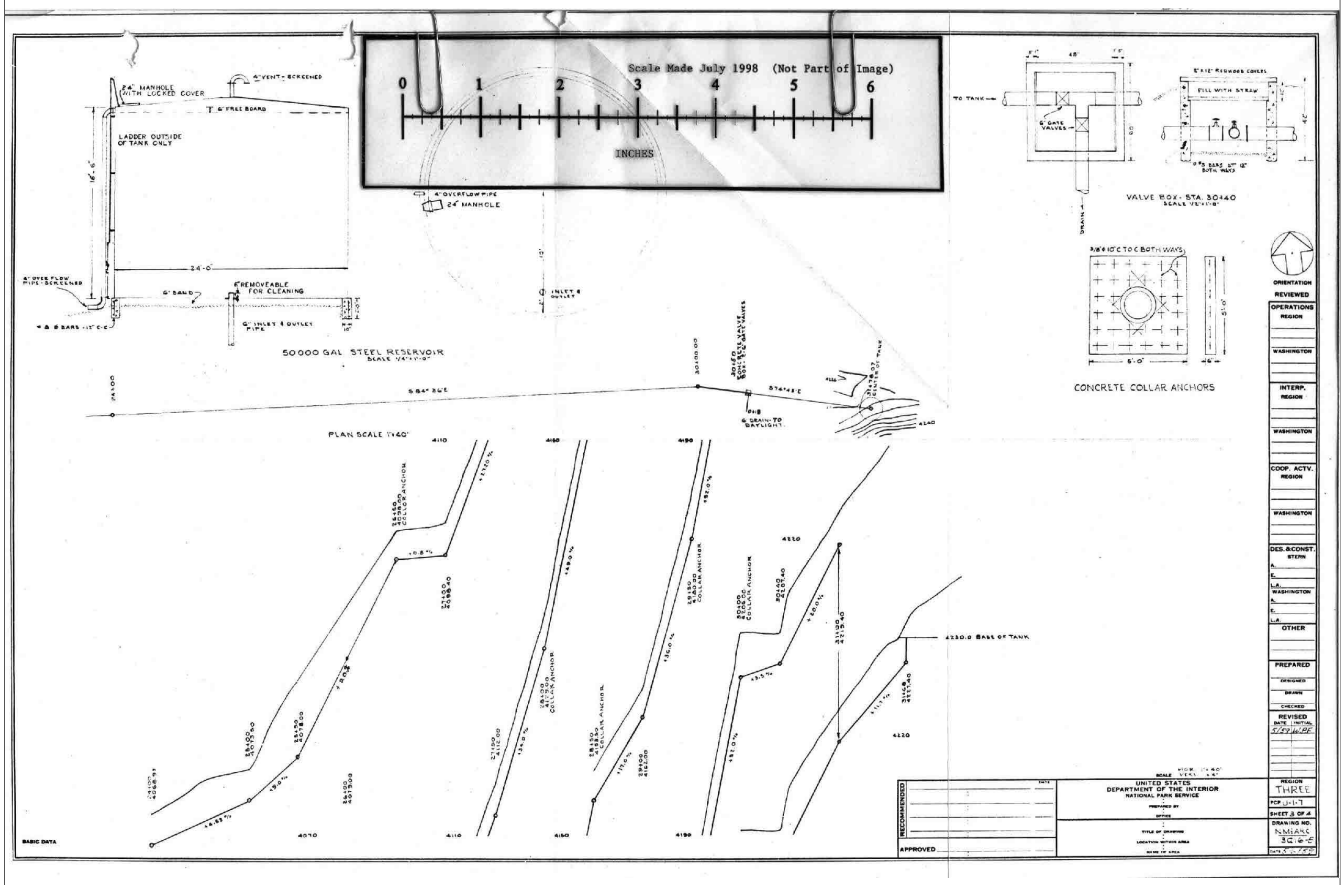




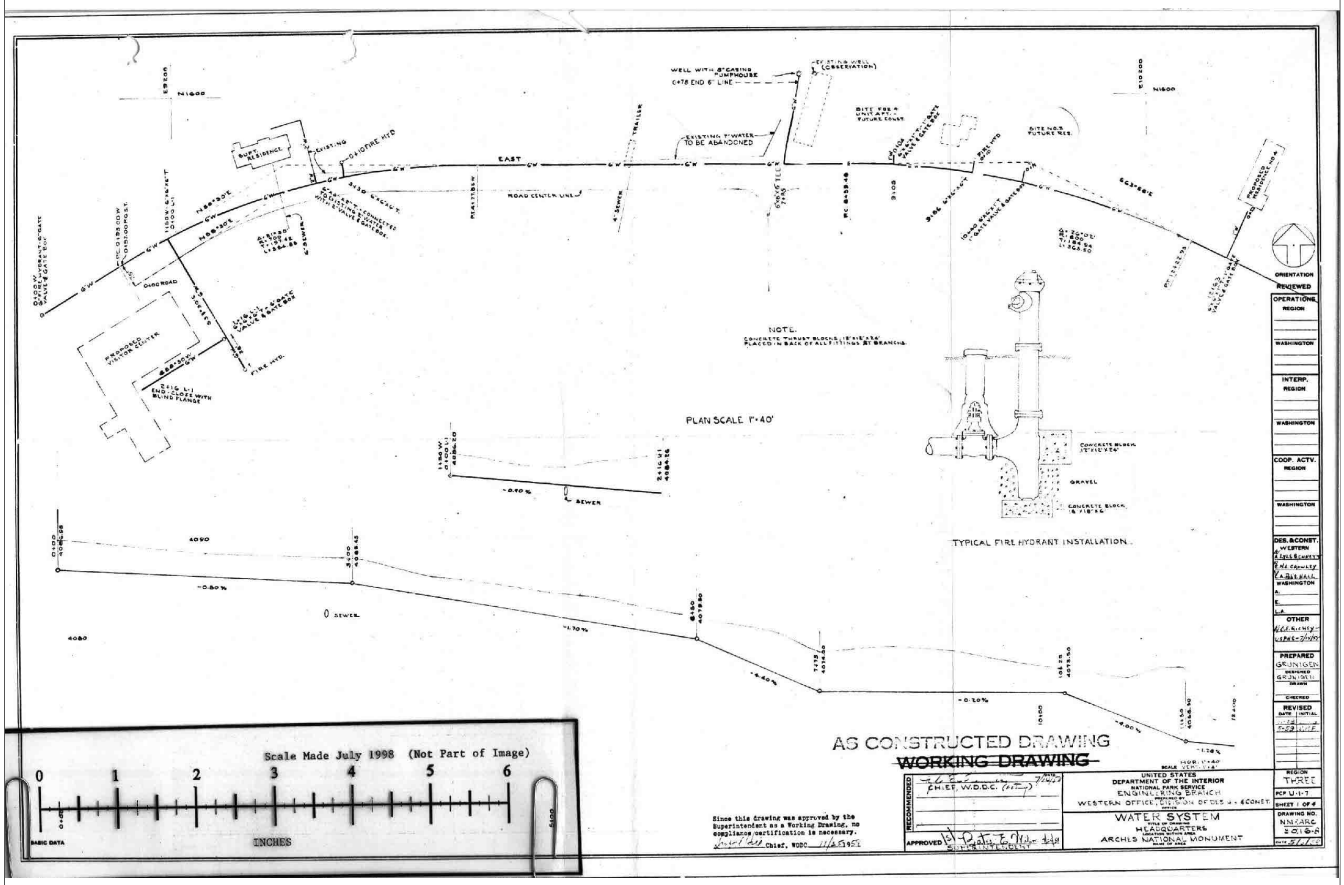
08-03-1962: map: plot of easement devil's garden road right-of-way



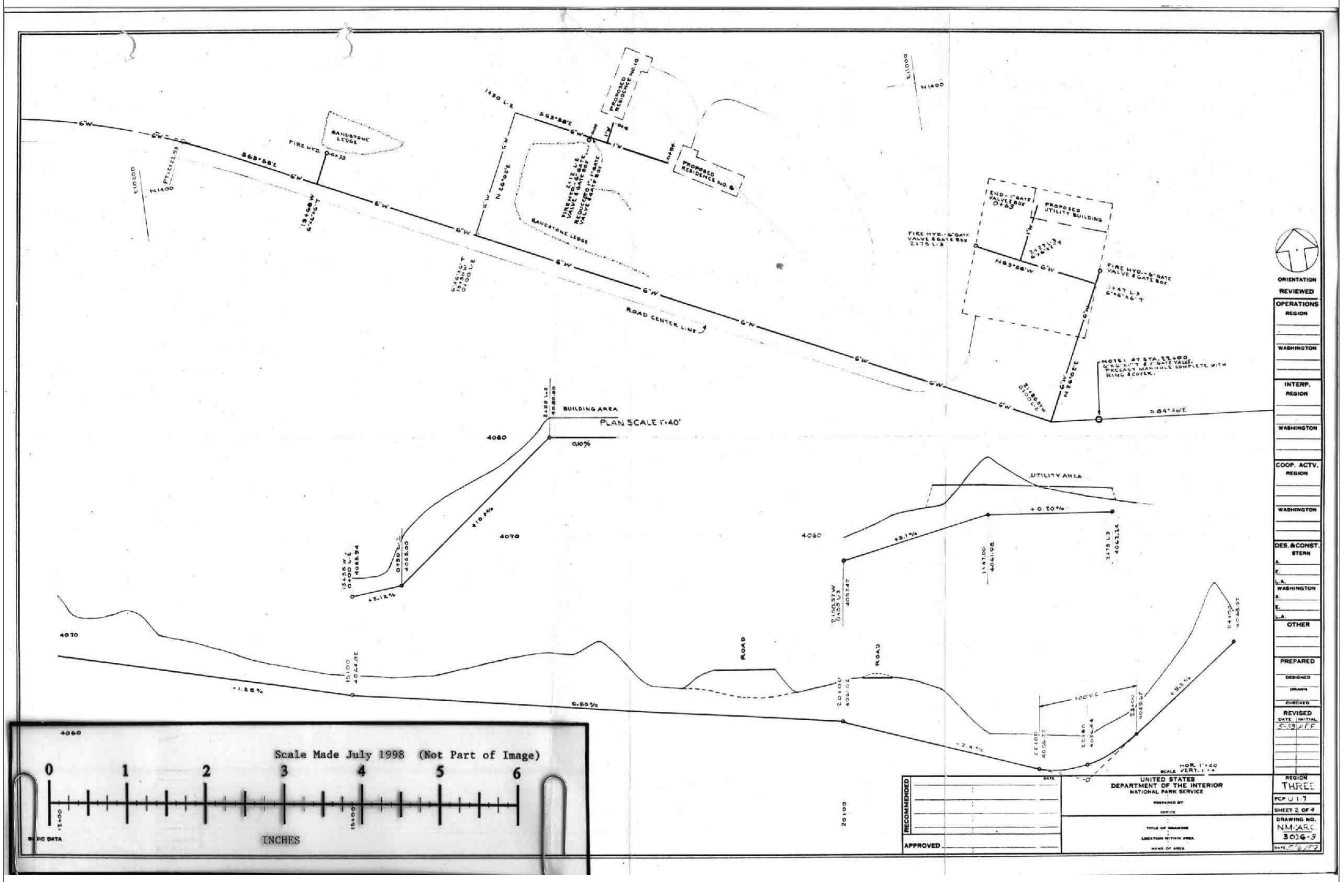
05-00-1959: map: plan and steel reservoir



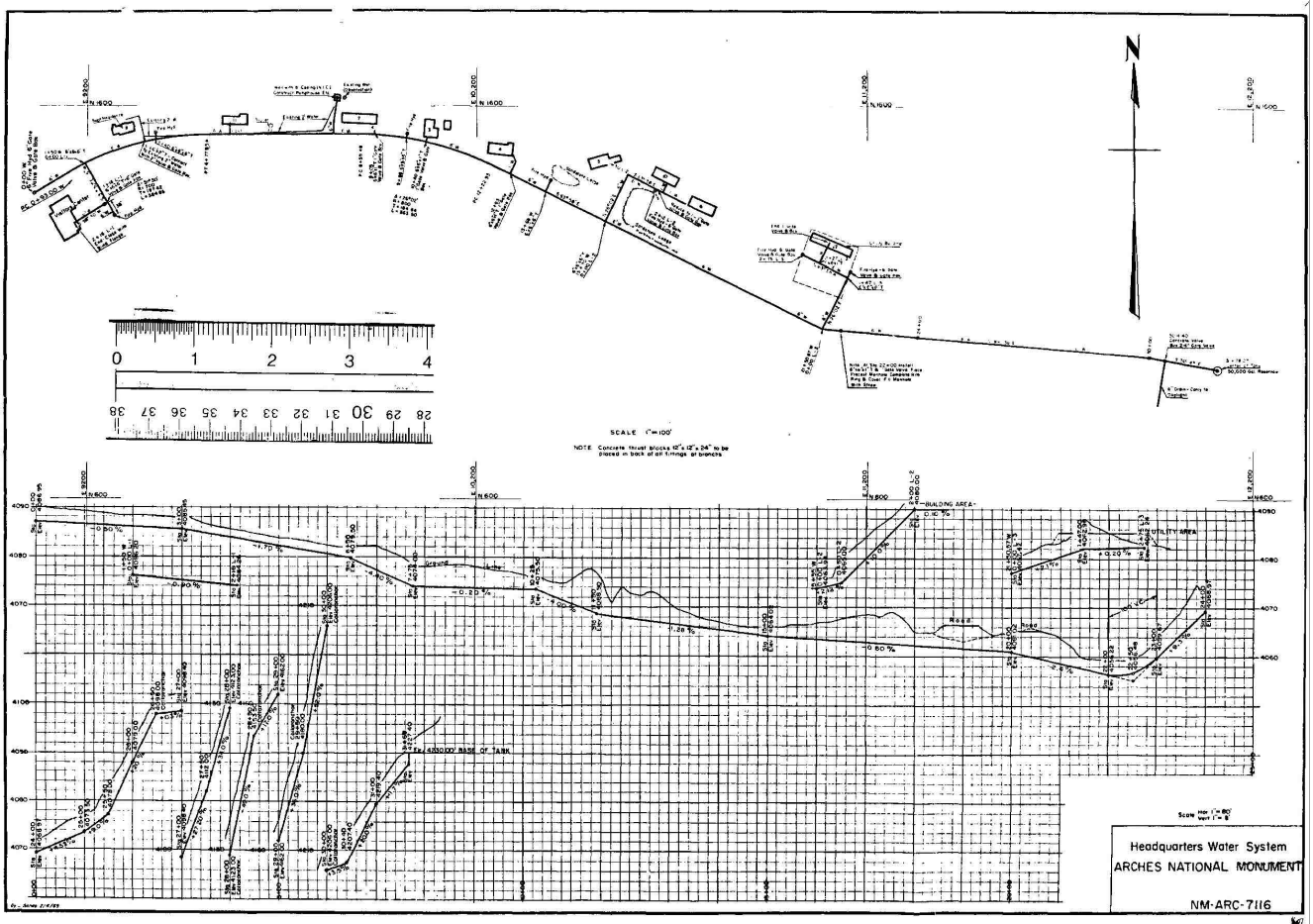
00-00-0000: drawing of headquarters water system



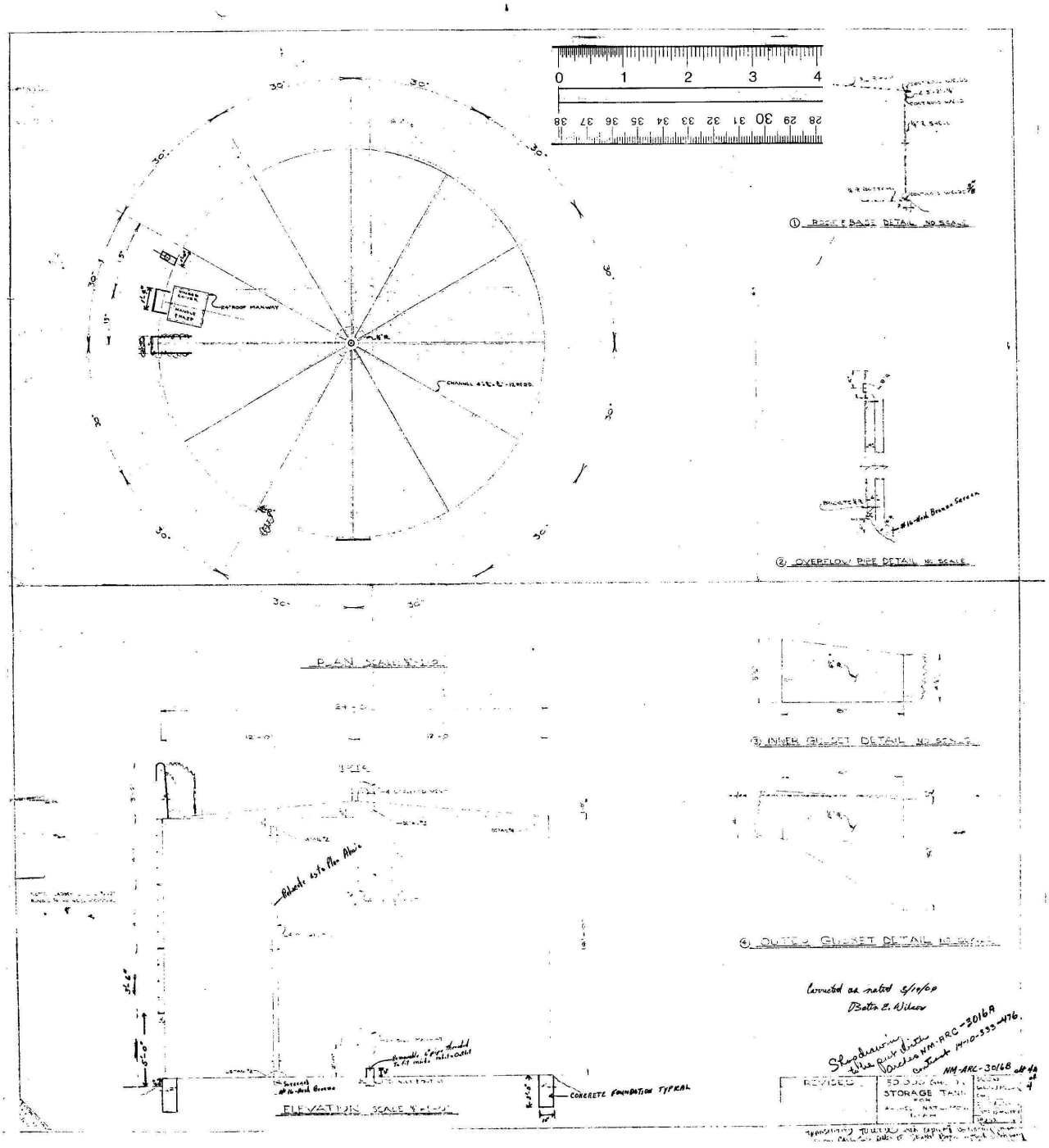
00-00-0000: map of plan



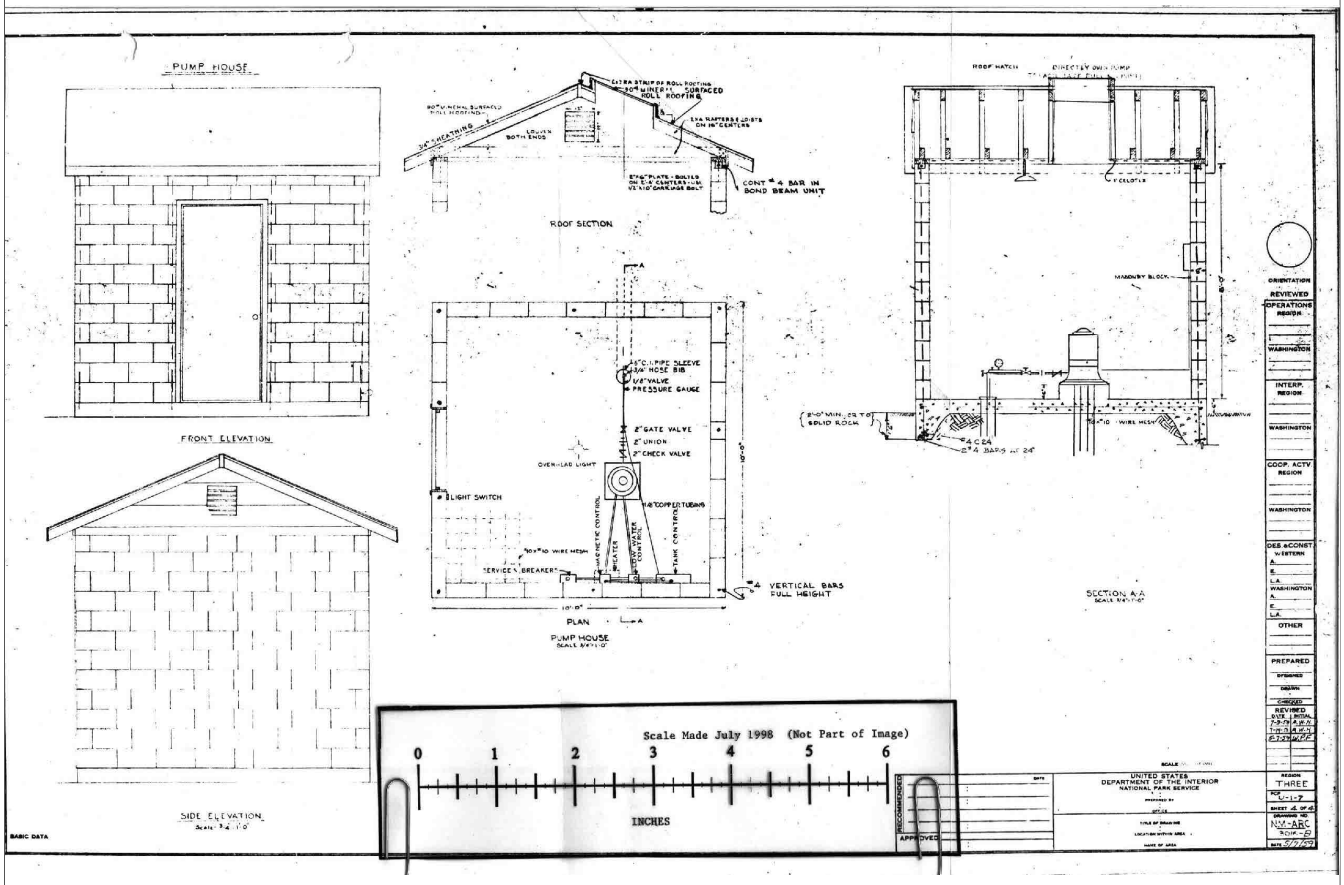
00-00-0000: map: headquarters water system



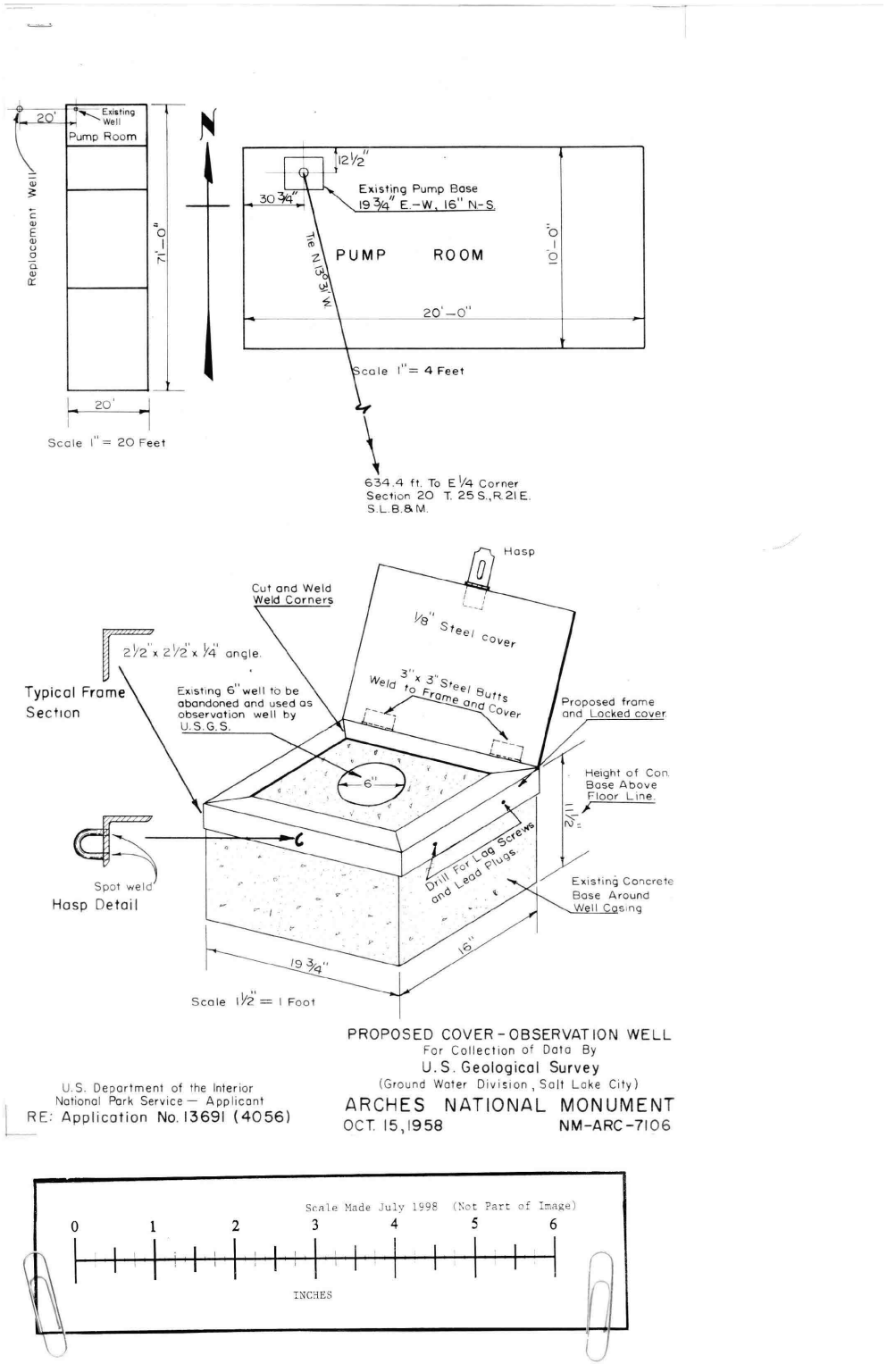
00-00-0000: drawing of pipe detail



05-07-1959: drawing of pump house



00-00-0000: drawing of pump room



Docket Information

Number of Documents in Docket 392

Documents Dated from 4/15/1940 to 10/28/1991

Docket Compiled: 1/28/2011