Docket No: 2

WELL. "C". A.K.A. ROBB ARTESIAN WELL

Preliminary Docket Information

11-20-1995: revised water right record; november 20, 1995

REVISED WATER RIGHT RECORD

IDENTIFICATION NO:

DITCH/WATER SYSTEM: No Thoroughfare Pipeline / East Entrance

SOURCE OF SUPPLY: Well

LOCATION: SE1/4 SE1/4 Sec. 30, T1S, R1W

WATER RIGHT:

Appropriator: United States of America, National Park Service

Application/Permit Number: 153353 (Permit Number)

Certificate Record Number:

Date of Priority: 1925? 1954?

Quantity of Water: 4.9 gpm

Purpose: domestic supply, lawn watering, fire suppression

Irrigated land description: Less than 1 acre in SE1/4 SE1/4 Sec. 30, T1S, R1W

SUMMARY OF STATUS: Docket 2 (No thoroughfare pipeline) and Docket 3 (East Entrance) have been combined in 1 docket (Docket 2 (No thoroughfare pipeline). The reason is that there is one water right involved. The land was acquired in 1934 and Well C was drilled in 1954, after unsuccessful attempts to obtain water from wells A and B. Well C, described in Docket 2, was replaced by the East Entrance Well, formerly described in Docket 3. The legal description on the water right record for the East Entrance Well is incorrect. It is actually within 200 feet of the location of Well C (the capped well in the well house). The East Entrance well is in the SE1/4 SE1/4 Sec 30, T1S R1W, about 150 feet southeast of the well house and water withdrawn is pumped through the same piping system as the "housed well" used to be (See Summary of Trip - June 9, 1988). The late registration (Permit 153353) in the State Water Right Documentation of this Docket is for the East Entrance Well. The date water was first applied to beneficial use, on Permit 153353, is 1954, based upon the first use of Well C. A brief chronology follows.

In 1988, Al Cerise, water commissioner for wells, Water Division 5, informed NPS that he had no record of a water right or registration for a well in the southeast portion of the monument. It was discovered that the well was drilled in 1972, and that the location of the well described in the docket 3 (T1N R1E) was in error. The correct location is SE1/4 SE1/4 T1S R1W, Ute P.M.

Based on November 15, 1988 notes prepared by Beth Voelkel, Well C was drilled in the same location as the Robb Artesian Well that apparently has a water right with a 1925 priority date. Well C was, allegedly, a deepening and cleaning of the old Robb Artesian Well, according to Merle Palmer, COLM employee and long-time resident. The water right for the old Robb Artesian Well is apparently for primarily stock water in conjunction with another well, the Welby Schrader #1 Well, not located within COLM. According to a January 12, 1989 phone conversation between Voelkel of NPS and Malley of CO, the CO Division of Water Resources advised NPS to request, on the late registration and amendment of existing record, a date of first beneficial use coinciding with the date of first domestic use. "...[T]his will in no way affect the priority date of 5/1/25 associated with the Robb Artesian Well because that has been decreed and will

require court action to alter." (See 1/12/89 notes of phone conversation). Subsequently, a 1954 date of beneficial use was indicated (See permit 153353)

There was an adjudication commenced in 1952. It is not clear if the United States, NPS participated in the adjudication and claimed a water right to well A, B, or C, but this does not appear to be the case; there are no signed claims or submissions to the court. See also legal opinions section. A more recent adjudication involved water divisions 4, 5, and 6. The records in this office are not clear with respect to what was claimed and what was granted to the United States for COLM in that adjudication. Further clarification is needed to determine if NPS's claimed rights included the well at its proper location and with the appropriate priority date and purpose of use.

Alice E. Johns

Alice E. Johns
Hydrologist
Water Rights Branch
Water Resources Division
National Park Service

November 20, 1995

WATER RIGHT RECORD

Park: COLM

Docket Number:
Federal #3

IDENTIFICATION NO: COLM, W, 3 0, 0 1, 0 1, B, F, 0 3,

DITCH/WATER SYSTEM: East Entrance

SOURCE OF SUPPLY: Well

LOCATION: SE¼SE¼SE¼, Sec. 30, T1N, R1E, Ute PM

WATER RIGHT:

Appropriator: United States of America, National Park Service

Application/Permit Number:

Certificate Record Number:

Date of Priority:

Quantity of Water:

Purpose:

Irrigated Land Description:

SUMMARY OF STATUS: This is a Federal water right consisting of a 303 ft. well

Well was completed May 26, 1972.

WATER RIGHT RECORD

Park: COLM

Docket Number:
Federal #2

IDENTIFICATION NO: COLM W,3 0,0 1,0 1,A ,F,0 2,

DITCH/WATER SYSTEM: No Thoroughfare Pipe Line

SOURCE OF SUPPLY: Well

LOCATION: SE¼SE¼ Sec. 30, T1S, R1W, Ute PM

WATER RIGHT:

Appropriator: United States of America, National Park Service

Application/Permit Number: Water Right Filing #17082

Certificate Record Number:

Date of Priority: March 23, 1942

Quantity of Water: 0.0445 c.f.s.

Purpose: Domestic

Irrigated Land Description:

This well was filed with the State of Colorado as a reserved water right In the Matter of Application for Water Rights of the United States of America in the District Court in and for Water Division No. 6 W-85 & W-86

SUMMARY OF STATUS: This is a Federal water right consisting of wells, distribution reservoir, pipe line, pump and distribution system.

Due to wartime restrictions, the wells were not started until 1952.
Well "A" was drilled on October 10, 1952. Not adequate or reliable.
Well "B" was drilled on February 10, 1953. Not sufficient flow.
Well "C" was started on August 16, 1954 and completed September 7, 1954.
The latter well is used for the Grand Junction Entrance water system.

In 1952 the pending Adjudication of Rights in Colorado Water District #42, Civil 8303 was filed. A Statement of Claim was presented by the United States in June of 1953.

01-30-1989: affidavit, permit number 153353; january 30, 1989

WRJ-25-75

COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St.
Denver, Colorado 80203

TYPE OR PRINT IN BLACK INK. COPY OF ACCEPTED STATEMENT MAILED ON REQUEST.

STATE OF COLORADO } SS. AFFIDAVIT
COUNTY OF Larimer

RECEIVED
JAN 23 1989
WATER RESOURCES STATE ENGINEER COLO.

OWNER'S COPY

____ STATEMENT OF BENEFICIAL USE OF GROUND WATER
X AMENDMENT OF EXISTING RECORD Robb Artesian Well, CA-7327
X LATE REGISTRATION

PERMIT NUMBER 153353

LOCATION OF WELL

THE AFFIANT(S) Owen R. Williams, on behalf of the United States of America, Nat'l. Park Svc. whose mailing address is 301 S. Howes Street, Room 353

County Mesa

SE ¼ of the SE ¼, Section 30

City Fort Collins, CO (STATE) 80521 (ZIP)

Twp. 1 S (N OR S), Rng. 1 W (E OR W), Ute P M

being duly sworn upon oath, deposes and says that he (they) is (are) the owner(s) of the well described hereon; the well is located as described above, at distances of 259 feet from the South (NORTH OR SOUTH) section line and 141 feet from the East (EAST OR WEST) section line; water from this well was first applied to a beneficial use for the purpose(s) described herein on the ____ day of _____, 19 54; the maximum sustained pumping rate of the well is 22 gallons per minute, the pumping rate claimed hereby is 4.9 gallons per minute; the total depth of the well is 303 feet; the average annual amount of water to be diverted is 1.5 acre-feet; for which claim is hereby made for domestic supply, lawn watering, and fire supression purpose(s); the legal description of the land on which the water from this well is used is part of the SE 1/4 of the SE 1/4, Section 30, Twp. 1S, Rng. 1W, Ute P.M. of which less than one acres are irrigated and which is illustrated on the map on the reverse side of this form; that this well was completed in compliance with the permit approved therefor; this statement of beneficial use of ground water is filed in compliance with law; he (they) has (have) read the statements made hereon; knows the content thereof; and that the same are true of his (their) knowledge.

(COMPLETE REVERSE SIDE OF THIS FORM)

Signature(s) O R Williams

Subscribed and sworn to before me on this 30 day of January, 1989

My Commission expires: 9-29-91 (SEAL)

Dana G Bowden
NOTARY PUBLIC

13376

FOR OFFICE USE ONLY

Court Case No. CA 7327

Prior ____ Mo ____ Day ____ Yr. ____

Div. 5 Cty. 39

Sec. ____ ____ ¼. ____ ¼. ____ ¼.

Well Use ____ ____ ____ ____

Dist. 72 Basin ____ Man Dis ____

ACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO PURSUANT TO THE FOLLOWING CONDITIONS:

ISSUANCE OF THIS PERMIT DOES NOT CONFER A DECREED WATER RIGHT

1) IN ACCORDANCE WITH CRS 37-92-602(5) FOR HISTORIC USE AS INDICATED BELOW AND DESCRIBED IN CRS 37-92-602(1)(b).

2) A WELL PRODUCING 4.9 GALLONS PER MINUTE AND USED FOR ORDINARY HOUSEHOLD PURPOSES INSIDE TWO SINGLE FAMILY DWELLING(S), FIRE PROTECTION, THE WATERING OF DOMESTIC ANIMALS AND POULTRY, AND THE IRRIGATION OF NOT MORE THAN ONE ACRE OF HOME GARDENS AND LAWNS. M.M. 1-27-89

JAN 30 1989
DATE

STATE ENGINEER

BY M. A. Malley

January 20, 1989

L54(479)
RMR/COLM Water Rights

Colorado Division of Water Resources
818 Centennial Building
1313 Sherman Street
Denver, CO 80203

Dear Sir or Madam:

Revised forms to amend the existing record of the Robb Artesian Well are enclosed. This amendment, originally submitted on December 16, 1988, serves to clarify the present location, depth, and uses of the well. The Robb Artesian Well is located in the southeast portion of Colorado National Monument and is used for domestic water supply and lawn watering at two National Park Service employee residences. The total area of the lawns is less than an acre.

As you requested, the date of first beneficial use has been changed to reflect the date water from this well was first applied to domestic use. We understand that this will not affect the May 1, 1925, priority as decreed in Civil Action 7327 for the Robb Artesian Well.

If you have any questions, please contact Beth Voelkel of my staff at (303) 221-8323.

Sincerely,

Owen Williams

Owen R. Williams
Chief, Water Rights Branch

Enclosures

bcc: RMR - Hermance
COLM - Superintendent

FWP:BVoelkel:bv:1/12/89:(303)221-8323:#135

WRJ-25-75

COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St.
Denver, Colorado 80203

TYPE OR PRINT IN BLACK INK. COPY OF ACCEPTED STATEMENT MAILED ON REQUEST.

STATE OF COLORADO
COUNTY OF Larimer } SS.

AFFIDAVIT

____ STATEMENT OF BENEFICIAL USE OF GROUND WATER
__X__ AMENDMENT OF EXISTING RECORD Robb Artesian Well, CA-7327
____ LATE REGISTRATION

PERMIT NUMBER _____ LOCATION OF WELL

THE AFFIANT(S) Owen R. Williams, on behalf of the United States of America, Nat'l. Park Svc. County Mesa

whose mailing address is 301 S. Howes Street, Room 353 SE ¼ of the SE ¼, Section 30

City Fort Collins, (STATE) CO 80521 (ZIP) Twp. 1 (N OR S) S, Rng. 1 (E OR W) W, Ute P M

being duly sworn upon oath, deposes and says that he (they) is (are) the owner(s) of the well described hereon, the well is located as described above, at distances of 259 feet from the South (NORTH OR SOUTH) section line and 141 feet from the East (EAST OR WEST) section line; water from this well was first applied to a beneficial use for the purpose(s) described herein on the ____ day of _____, 19 54; the maximum sustained pumping rate of the well is 22 gallons per minute, the pumping rate claimed hereby is 4.9 gallons per minute; the total depth of the well is 303 feet; the average annual amount of water to be diverted is 1.5 acre-feet; for which claim is hereby made for domestic supply, lawn watering, and fire supression purpose(s); the legal description of the land on which the water from this well is used is part of the SE 1/4 of the SE 1/4, Section 30, Twp. 1S, Rng. 1W, Ute P.M. of which less than one acres are irrigated and which is illustrated on the map on the reverse side of this form; that this well was completed in compliance with the permit approved therefor; this statement of beneficial use of ground water is filed in compliance with law; he (they) has (have) read the statements made hereon; knows the content thereof; and that the same are true of his (their) knowledge.

(COMPLETE REVERSE SIDE OF THIS FORM)

Signature(s) O R Williams

Subscribed and sworn to before me on this 20 day of January, 1989

My Commission expires: 9-29-91

(SEAL) Dana G Bowden
NOTARY PUBLIC

ACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO PURSUANT TO THE FOLLOWING CONDITIONS:

FOR OFFICE USE ONLY

Court Case No. _____

Prior _____ Mo. ____ Day ____ Yr ____

Div. _____ Cty. _____

Sec. ____ ____ ¼ ____ ¼ ____ ¼

Well Use ____ ____ ____ ____

Dist. ____ Basin ____ Man. Dis. ____

DATE STATE ENGINEER

Well drilled by _____ Lic. No. _____

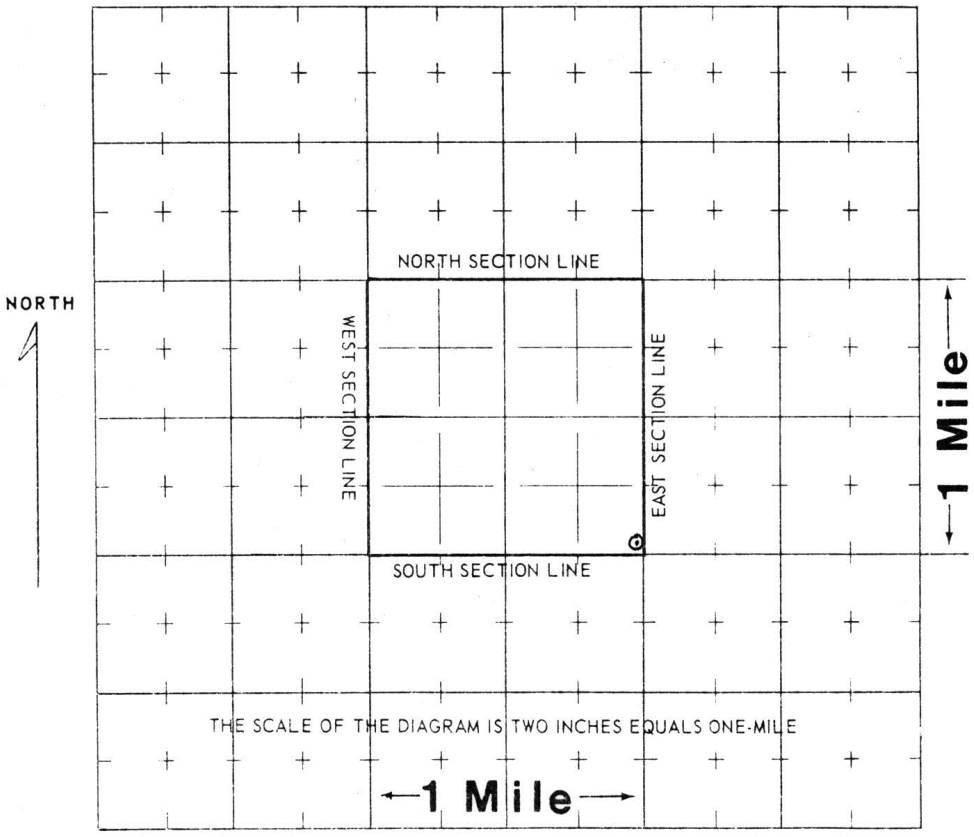
Permanent
Pump installed by _____ Lic. No. _____

Meter Serial No. _____ ☐ Flow Meter Date Installed _____

Owner of land on which
water is being used _____

THE LOCATION OF THE WELL MUST BE SHOWN AND FOR LARGE CAPACITY IRRIGATION WELLS THE AREA ON WHICH THE WATER IS USED MUST BE SHADED OR CROSS-HATCHED ON THE DIAGRAM BELOW.

This diagram represents nine (9) sections. Use the **CENTER SQUARE** (one section) to indicate the location of the well, if possible.



WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep.
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm).
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.
100 gpm pumped continuously for one year produces 160 acre-feet.

**(WHITE AND PINK COPY TO BE FILED WITH THE STATE ENGINEER
PINK COPY WILL BE RETURNED TO OWNER)**

12-20-1988: your application(s) to record and/or relocate an existing well is/are being returned to you for the reasons listed below;

COLORADO DIVISION OF WATER RESOURCES
1313 SHERMAN ST. RM. 823
DENVER, COLORADO 80203
PHONE NO. 866-3581

Date: 12-20-88
Rec.# 13376

_____

_____

_____

Your application(s) to record and/or relocate an existing well is/are being returned to you for the reasons listed below. The additional data and/or corrections requested are necessary to fully evaluate your application(s). Please correct or complete all items checked in red. ALL corrections and/or additions must be made in BLACK INK or typed and initialed.

( ) There is a $_____fee required by statute . Please return the application(s) along with the required fee.
(X) The date of beneficial use must be prior to May 8, 1972 in order to qualify for recording under the provisions of CRS 37-92-602(5). If the exact date is not known, please enter at least an approximate date. Our records indicate the well was not used for domestic & lawn irrigation until the early to mid 1960's.
( ) Please complete the enclosed application to record the existing well
( ) Please indicate the maximum sustained pumping rate and the pumping rate claimed.
( ) Please indicate the annual appropriation in acre-feet (1 acre-foot =325,900 gallons).
( ) Please indicate the total depth of the existing well.
Please indicate the proposed depth for the relocated or deepened well.
( ) Please indicate total area to be irrigated (no more than one acre of home lawns and gardens can be irrigated from this type of well.)
( ) Please indicate existing permit number.
( ) The well location must be designated by the County, 1/4, 1/4, Section, Township, Range and Principal Meridian.
( ) The distances from section lines must be shown (item 6).
( ) The 1/4, 1/4, section (item 2) does not agree with the distances from section lines (item 6). The distances place the well in the _____1/4, _____1/4.
( ) If this is not the only well on this tract (item 7), please explain in item 12 and include the permit numbers of any other wells.
( ) The proposed casing program must be completed (item 8).
( ) The existing well must be plugged and abandoned according to the Rules and Regulations for Water Well Construction and Pump Installation Contractors. Please include the distance and direction from the old well. (item 9).
( ) Please detail the specific use(s) of the well (#of dwellings, amount of lawn and garden, stock, etc.). Please indicate type of disposal system item 11).
( ) Please complete the enclosed supplemental information sheet.
( ) Please provide a complete legal description of the property (metes and bounds description or a surveyors plat).
( ) Signature of applicant is required on the application unless application is accompanied by a written authorization from the applicant.

MEL MALLEY
Engineering Technician
Ground Water Section

12-19-1988: affidavit, owen r. williams, on behalf of the united states of america, national park service; december 19, 1988

WRJ-25-75

RECEIVED
DEC 19 1988
WATER RESOURCES
STATE ENGINEER
COLO.

COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St.
Denver, Colorado 80203

TYPE OR PRINT IN BLACK INK. COPY OF ACCEPTED STATEMENT MAILED ON REQUEST.

STATE OF COLORADO } SS.
COUNTY OF Larimer

AFFIDAVIT

____ STATEMENT OF BENEFICIAL USE OF GROUND WATER
_X_ AMENDMENT OF EXISTING RECORD Robb Artesian Well, CA-7327
____ LATE REGISTRATION

PERMIT NUMBER _____

LOCATION OF WELL

THE AFFIANT(S) Owen R. Williams, on behalf ofthe United States of America, National Park Service whose mailing address is 301 S. Howes Street, Room 335

City Fort Collins, CO (STATE) 80521 (ZIP)

County Mesa

SE ¼ of the SE ¼, Section 30

Twp. 1 S (N OR S), Rng. 1 W (E OR W), Ute P M

being duly sworn upon oath, deposes and says that he (they) is (are) the owner(s) of the well described hereon; the well is located as described above, at distances of 259 feet from the South (NORTH OR SOUTH) section line and 141 feet from the East (EAST OR WEST) section line; water from this well was first applied to a beneficial use for the purpose(s) described herein on the 1st day of May, 1925; the maximum sustained pumping rate of the well is 22 gallons per minute, the pumping rate claimed hereby is 4.9 gallons per minute; the total depth of the well is 303 feet; the average annual amount of water to be diverted is 1.5 acre-feet; for which claim is hereby made for domestic supply, lawn watering, and fire supression purpose(s); the legal description of the land on which the water from this well is used is part of the SE/4 SE1/4, Section 30, Twp. 1S, Rng. 1W, Ute P.M. of which less than one acres are irrigated and which is illustrated on the map on the reverse side of this form; that this well was completed in compliance with the permit approved therefor; this statement of beneficial use of ground water is filed in compliance with law; he (they) has (have) read the statements made hereon; knows the content thereof; and that the same are true of his (their) knowledge.

(COMPLETE REVERSE SIDE OF THIS FORM)

Signature(s) O. R. Williams

Subscribed and sworn to before me on this 16th day of December, 1988

My Commission expires: 9-29-91 (SEAL)

Dana G Bowden
NOTARY PUBLIC

13376

FOR OFFICE USE ONLY

Court Case No. _____

Prior. ____ Mo. ____ Day ____ Yr. ____

Div. 5 Cty. 39

Sec. ____ ____ ¼. ____ ¼. ____ ¼.

Well Use ____ ____ ____ ____

Dist. 72 Basin ____ Man. Dis. ____

ACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO PURSUANT TO THE FOLLOWING CONDITIONS:

DATE _____ STATE ENGINEER _____ BY _____

Well drilled by _____ Lic. No. _____

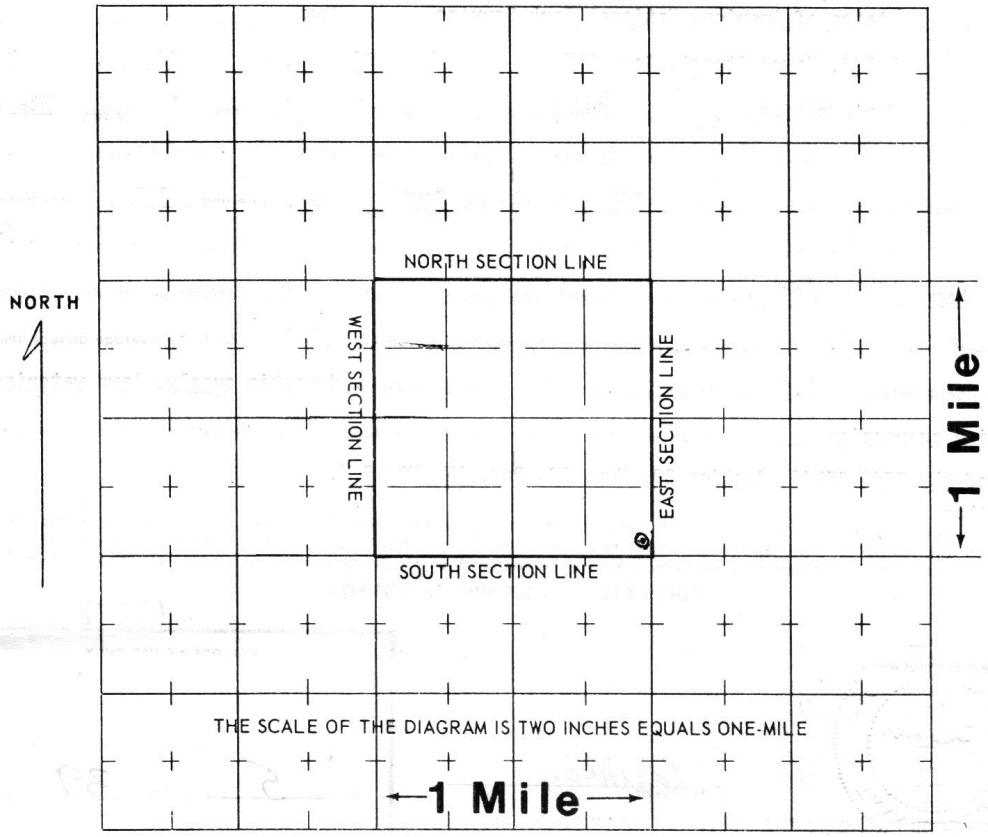
Permanent Pump installed by _____ Lic. No. _____

Meter Serial No. _____ ☐ Flow Meter Date Installed _____

Owner of land on which water is being used United States Department of the Interior, National Park Service

THE LOCATION OF THE WELL MUST BE SHOWN AND FOR LARGE CAPACITY IRRIGATION WELLS THE AREA ON WHICH THE WATER IS USED MUST BE SHADED OR CROSS-HATCHED ON THE DIAGRAM BELOW.

This diagram represents nine (9) sections. Use the **CENTER SQUARE** (one section) to indicate the location of the well, if possible.



WATER EQUIVALENTS TABLE (Rounded Figures)

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1,000 gpm pumped continuously for one day produces 4.42 acre-feet.
100 gpm pumped continuously for one year produces 160 acre-feet.

**(WHITE AND PINK COPY TO BE FILED WITH THE STATE ENGINEER
PINK COPY WILL BE RETURNED TO OWNER)**

12-19-1988: affidavit, owen r. williams, on behalf of the united states of america, national park service; december 19, 1988

WRJ-25-75

RECEIVED
DEC 19 1988
WATER RESOURCES STATE ENGINEER COLO.

COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St.
Denver, Colorado 80203

TYPE OR PRINT IN BLACK INK. COPY OF ACCEPTED STATEMENT MAILED ON REQUEST.

STATE OF COLORADO
COUNTY OF Larimer } SS.

AFFIDAVIT

____ STATEMENT OF BENEFICIAL USE OF GROUND WATER
__X__ AMENDMENT OF EXISTING RECORD Robb Artesian Well, CA-7327
____ LATE REGISTRATION

PERMIT NUMBER _____ LOCATION OF WELL

THE AFFIANT(S) Owen R. Williams, on behalf of the United States of America, National Park Service whose mailing address is 301 S. Howes Street, Room 335

City Fort Collins (STATE) CO 80521 (ZIP)

County Mesa

SE ¼ of the SE ¼, Section 30

Twp. 1 S (N OR S), Rng. 1 W (E OR W), Ute P M

being duly sworn upon oath, deposes and says that he (they) is (are) the owner(s) of the well described hereon; the well is located as described above, at distances of 259 feet from the South (NORTH OR SOUTH) section line and 141 feet from the East (EAST OR WEST) section line; water from this well was first applied to a beneficial use for the purpose(s) described herein on the 1st day of May, 19 25; the maximum sustained pumping rate of the well is 22 gallons per minute, the pumping rate claimed hereby is 4.9 gallons per minute; the total depth of the well is 303 feet; the average annual amount of water to be diverted is 1.5 acre-feet; for which claim is hereby made for domestic supply, lawn watering, and fire supression purpose(s); the legal description of the land on which the water from this well is used is part of the SE/4 SE1/4, Section 30, Twp. 1S, Rng. 1W, Ute P.M. of which less than one acres are irrigated and which is illustrated on the map on the reverse side of this form; that this well was completed in compliance with the permit approved therefor; this statement of beneficial use of ground water is filed in compliance with law; he (they) has (have) read the statements made hereon; knows the content thereof; and that the same are true of his (their) knowledge.

(COMPLETE REVERSE SIDE OF THIS FORM)

Signature(s) O. R. Williams

Subscribed and sworn to before me on this 16th day of December, 19 88

My Commission expires: 9.29.91 (SEAL)

Dana K Bowden
NOTARY PUBLIC

ACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO PURSUANT TO THE FOLLOWING CONDITIONS:

FOR OFFICE USE ONLY

Court Case No. _____

Prior. _____ Mo. ____ Day ____ Yr. ____

Div. _____ Cty. _____

Sec. ____ ____ ¼, ____ ¼, ____ ¼,

Well Use _____ _____ _____ _____

Dist. _____ Basin _____ Man. Dis. _____

DATE _____ STATE ENGINEER _____ BY _____

Well drilled by _____ Lic. No. _____

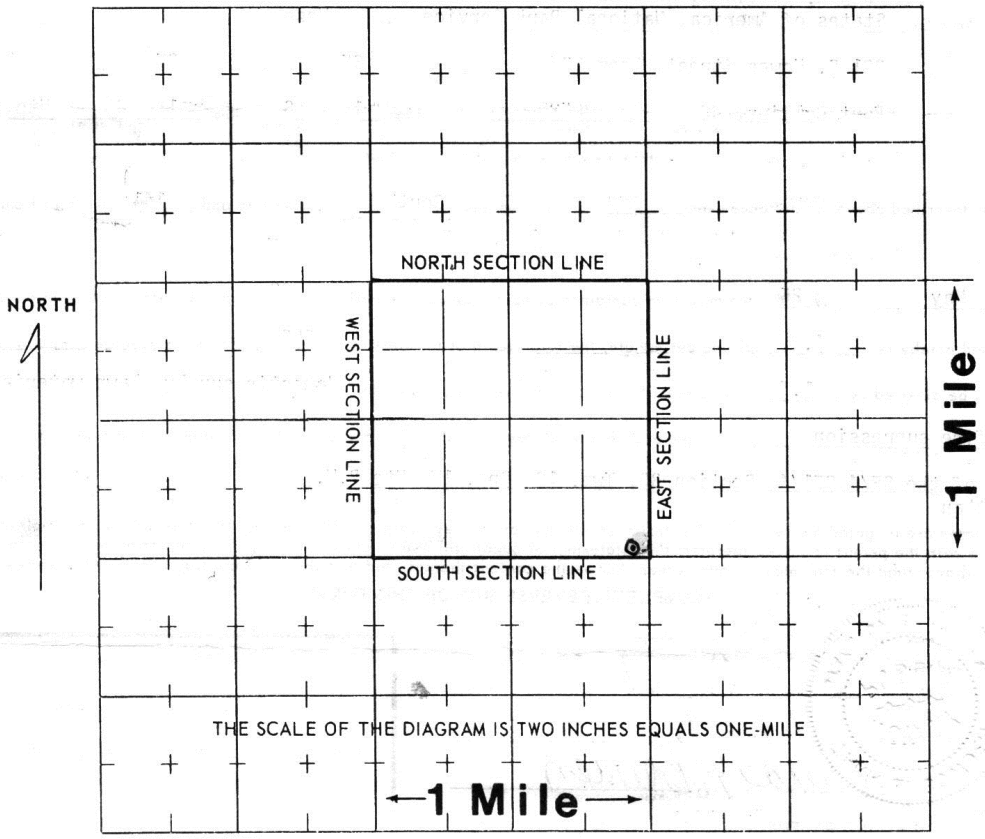
Permanent
Pump installed by _____ Lic. No. _____

Meter Serial No. _____ ☐ Flow Meter Date Installed _____

Owner of land on which water is being used United States Department of the Interior, National Park Service

THE LOCATION OF THE WELL MUST BE SHOWN AND FOR LARGE CAPACITY IRRIGATION WELLS THE AREA ON WHICH THE WATER IS USED MUST BE SHADED OR CROSS-HATCHED ON THE DIAGRAM BELOW.

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1,000 gpm pumped continuously for one day produces 4.42 acre-feet.
100 gpm pumped continuously for one year produces 160 acre-feet.

**(WHITE AND PINK COPY TO BE FILED WITH THE STATE ENGINEER
PINK COPY WILL BE RETURNED TO OWNER)**

12-00-1988: dear sir or madam: forms to amend the existing record of the robb artesian well as decreed in civil action 7327 are su

December 16, 1988

L54(479)
RMR/COLM Water Rights

Colorado Division of Water Resources
818 Centennial Building
1313 Sherman Street
Denver, CO 80203

Dear Sir or Madam:

Forms to amend the existing record of the Robb Artesian Well as decreed in Civil Action 7327 are submitted herein. This amendment serves to clarify the present location, depth, and uses of the well.

The Robb Artesian Well is located in the southeast portion of Colorado National Monument and is used for domestic water supply and lawn watering at two National Park Service employee residences. The total area of the lawns is less than an acre.

If you have any questions please contact Beth Voelkel of my staff at (303) 221-8323.

Sincerely,

Owen Williams

Owen R. Williams
Chief, Water Rights Branch

Enclosures

bcc: RMR - Hermance
COLM - Superintendent

FNP:BVoelkel:bv:12/01/88:(303)221-8323:#117

12-16-1988: dear sir or madam, resubmitted herein are statements of beneficial use for two wells located near the west entrance o

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:

December 16, 1988

L54(479)
RMR/COLM Water Rights

Colorado Division of Water Resources
818 Centennial Building
1313 Sherman Street
Denver, CO 80203

Dear Sir or Madam:

Resubmitted herein are Statements of Beneficial Use for two wells located near the west entrance of Colorado National Monument (Permit Numbers 031958-F and 031959-F). At your request we have changed the date of first use to coincide with the date permits were issued for these wells, July 2, 1987.

If you have any questions please contact Beth Voelkel of my staff at (303) 221-8323.

Sincerely,

O. R. Williams

Owen R. Williams
Chief, Water Rights Branch

Enclosures

WRJ-25-75

COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St.
Denver, Colorado 80203

TYPE OR PRINT IN BLACK INK
COPY OF ACCEPTED STATEMENT MAILED ON REQUEST.

STATE OF COLORADO } SS. **AFFIDAVIT**
COUNTY OF Larimer }

____ STATEMENT OF BENEFICIAL USE OF GROUND WATER
_X_ AMENDMENT OF EXISTING RECORD Robb Artesian Well, CA-7327
____ LATE REGISTRATION

PERMIT NUMBER _____

LOCATION OF WELL

THE AFFIANT(S) Owen R. Williams, on behalf ofthe United States of America, National Park Service whose mailing address is 301 S. Howes Street, Room 335

City Fort Collins, CO (STATE) 80521 (ZIP)

County Mesa

SE ¼ of the SE ¼, Section 30

Twp. 1 S (N OR S), Rng. 1 W (E OR W), Ute P M

being duly sworn upon oath, deposes and says that he (they) is (are) the owner(s) of the well described hereon, the well is located as described above, at distances of 259 feet from the South (NORTH OR SOUTH) section line and 141 feet from the East (EAST OR WEST) section line; water from this well was first applied to a beneficial use for the purpose(s) described herein on the 1st day of May, 19 25; the maximum sustained pumping rate of the well is 22 gallons per minute, the pumping rate claimed hereby is 4.9 gallons per minute; the total depth of the well is 303 feet; the average annual amount of water to be diverted is 1.5 acre-feet; for which claim is hereby made for domestic supply, lawn watering, and fire supression purpose(s); the legal description of the land on which the water from this well is used is part of the SE/4 SE1/4, Section 30, Twp. 1S, Rng. 1W, Ute P.M. of which less than one acres are irrigated and which is illustrated on the map on the reverse side of this form; that this well was completed in compliance with the permit approved therefor; this statement of beneficial use of ground water is filed in compliance with law; he (they) has (have) read the statements made hereon; knows the content thereof; and that the same are true of his (their) knowledge.

(COMPLETE REVERSE SIDE OF THIS FORM)

Signature(s) O. R. Williams

Subscribed and sworn to before me on this 16th day of December, 19 88

My Commission expires: 9-29-91
(SEAL)

Dana L. Bowden
NOTARY PUBLIC

ACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO PURSUANT TO THE FOLLOWING CONDITIONS:

FOR OFFICE USE ONLY

Court Case No. _____

Prior _____ Mo. ____ Day ____ Yr. ____

Div. _____ Cty. _____

Sec. ____ ____ ¼ ____ ¼ ____ ¼

Well Use ____ ____ ____ ____

Dist. ____ Basin ____ Man Dis ____

DATE STATE ENGINEER BY

Well drilled by _____ Lic. No. _____

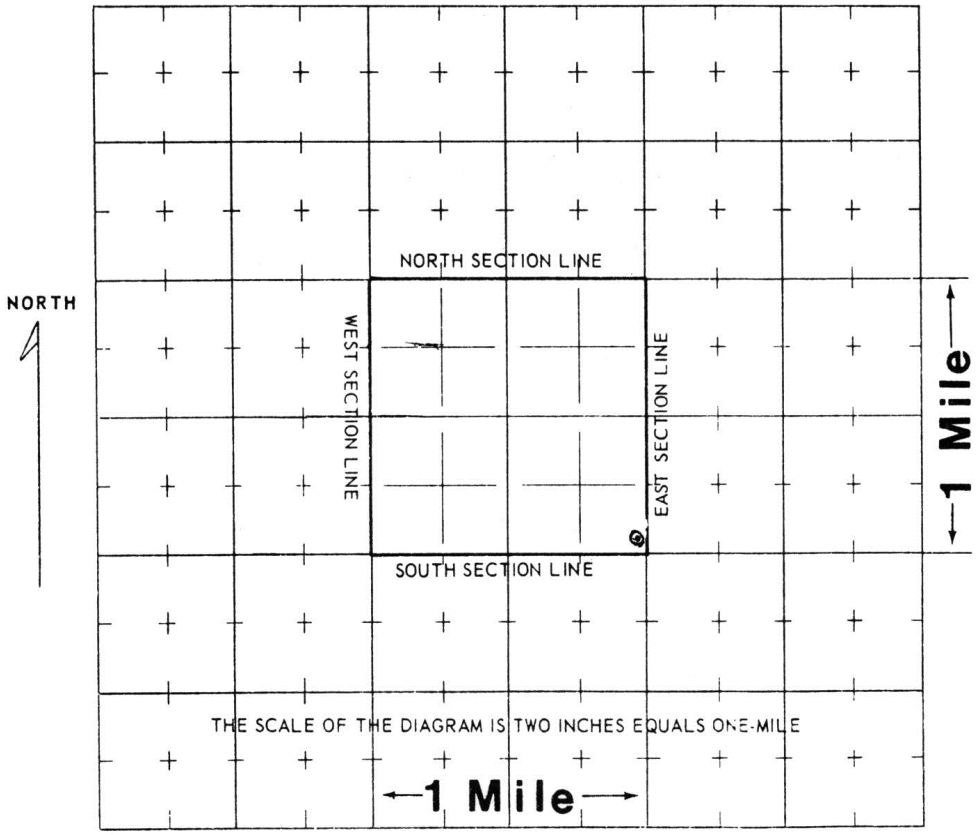
Permanent
Pump installed by _____ Lic. No. _____

Meter Serial No. _____ ☐ Flow Meter Date Installed _____

Owner of land on which
water is being used United States Department of the Interior, National Park Service

THE LOCATION OF THE WELL MUST BE SHOWN AND FOR LARGE CAPACITY IRRIGATION WELLS THE AREA ON WHICH THE WATER IS USED MUST BE SHADED OR CROSS-HATCHED ON THE DIAGRAM BELOW.

This diagram represents nine (9) sections. Use the **CENTER SQUARE** (one section) to indicate the location of the well, if possible.



WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep.
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm).
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.
100 gpm pumped continuously for one year produces 160 acre-feet.

**(WHITE AND PINK COPY TO BE FILED WITH THE STATE ENGINEER
PINK COPY WILL BE RETURNED TO OWNER)**

COLORADO DIVISION OF ...TER RESOURCES
818 Centennial Building, 1313 Sherman Street
Denver, Colorado 80203

FROM: Mel Malley
DATE: 11-9-88
PHONE: (303) 866-3587

APPLICANT (X) WELL DRILLER ( ) AGENT ( ) ATTORNEY ( )

RE: Well Permit Application

Receipt No. 13376

Your application for a well permit is being returned for the reason(s) indicated below. The additional data and corrections which we are requesting will aid us in evaluating your application. Prompt completion or correction of ALL items checked and the immediate return of the application to this office will expedite its processing. Please make corrections on the application, NOT on this flyer. Thank you for your attention.

PLEASE INITIAL ALL CHANGES--PLEASE TYPE OR PRINT IN BLACK INK

Item Nos.		
	( )	Statute requires a $____ fee for this application. Please return the application with required fee.
2	( )	The well location must be designated by the county and the 1/4 of 1/4, Section, Township, Range and P.M.
2,6,10	( )	The 1/4 of 1/4 section (Item 2) does not agree with distances from section lines (Item 6). Distances place well in _____ 1/4 of _____ 1/4.
3,11	( )	For a HOUSEHOLD USE ONLY WELL, no irrigation of lawns or gardens or stock watering can be permitted.
3,11	( )	For a DOMESTIC WELL, no more than one (1) acre of lawn or gardens can be irrigated (Item 3).
3	( )	Please indicate the proposed total depth.
3	( )	If this well is to be used for HOUSEHOLD PURPOSES ONLY, with no lawn or garden watering, please indicate on the application under "Ground Water to be Used For." Do not indicate HOUSEHOLD USE ONLY and DOMESTIC as they are different.
6	( )	Distances from section lines must be shown.
8	( )	The proposed casing program must be completed.
9	( )	The existing well must be plugged and abandoned according to rules and regulations. Please include the distance and direction from the old well.
10	( )	If this well is to be the only well on 35 acres or more, please describe the acreage on the back of the application in Item 10. PLEASE ATTACH FULL METES AND BOUNDS PROPERTY DESCRIPTION OR SURVEY.
11	( )	Please indicate the specific use intended for the water, and the type of disposal system to be used, or send a copy of the disposal permit.
12	( )	Please describe other water rights on this land and their use.
13	( )	Signature of applicant is required on application unless it is accompanied by a power of attorney.
	( )	Please provide a copy of a tax receipt, a surveyor's plat or a warranty deed to show ownership of the property described in Items 6 and 10. This must give the date when the land was subdivided.
	( )	Please complete Item(s) _____ where checked.
	( )	Please complete the enclosed ownership affidavit in full and return it with your application.
	( )	Please fill out the enclosed blank application form. Copies of the blank application form are not accepted due to their interference with microfilm and copy quality.
	( )	Other: Well "C" is known as Robb artesian Well. In CA-7327 it is decreed for stock use only. Changes of decreed use must be applied for in Division 5 Water Court.

07-13-1988: affidavit, owen r. williams, on behalf of the united states of america, national park service; july 13, 1988

WRJ-25-75

43-0 X

RECEIVED
JUL 13 1988
WATER RESOURCES
STATE ENGINEER
COLO.

COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St.
Denver, Colorado 80203

TYPE OR PRINT IN BLACK INK. COPY OF ACCEPTED STATEMENT MAILED ON REQUEST.

STATE OF COLORADO } SS.
COUNTY OF LARIMER

AFFIDAVIT

_____ STATEMENT OF BENEFICIAL USE OF GROUND WATER
_____ AMENDMENT OF EXISTING RECORD
AMENDED X LATE REGISTRATION FOR APPLICATION RECEIPT NUMBER 13376

PERMIT NUMBER _____ LOCATION OF WELL

THE AFFIANT(S) Owen R. Williams, on behalf of the United States of America, National Park Service whose mailing address is 301 S. Howes Street, Room 335 City Fort Collins, CO 80521 (STATE) (ZIP)

County Mesa
SE ¼ of the SE ¼, Section 30
Twp. 1 S (N OR S), Rng. 1 W (E OR W), Ute P M

being duly sworn upon oath, deposes and says that he (they) is (are) the owner(s) of the well described hereon; the well is located as described above, at distances of 259 feet from the South (NORTH OR SOUTH) section line and 141 feet from the East (EAST OR WEST) section line; water from this well was first applied to a beneficial use for the purpose(s) described herein on the ____ day of _____, 19 54; the maximum sustained pumping rate of the well is _____ gallons per minute, the pumping rate claimed hereby is 15 gallons per minute; the total depth of the well is 303 feet; the average annual amount of water to be diverted is 1.5 acre-feet; for which claim is hereby made for domestic supply and lawn watering at two residences (exempt) purpose(s); the legal description of the land on which the water from this well is used is part of the SE 1/4 SE 1/4, Section 30, Twp. 1 S, Rng. 1 W, Ute P.M. of which less than one acres are irrigated and which is illustrated on the map on the reverse side of this form; that this well was completed in compliance with the permit approved therefor; this statement of beneficial use of ground water is filed in compliance with law; he (they) has (have) read the statements made hereon; knows the content thereof; and that the same are true of his (their) knowledge.

(COMPLETE REVERSE SIDE OF THIS FORM)

Signature(s) O. R. Williams

Subscribed and sworn to before me on this 12th day of July, 1988

My Commission expires: 2-21-90 (SEAL)

Mary Anne Alencio
NOTARY PUBLIC

ACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO PURSUANT TO THE FOLLOWING CONDITIONS:

13376

FOR OFFICE USE ONLY

Court Case No. _____
Prior. _____ Mo. _____ Day _____ Yr. _____
Div. 5 Cty. 39
Sec. _____ ¼, _____ ¼, _____ ¼.
Well Use _____
Dist. 72 Basin _____ Man. Dis. _____

DATE _____ STATE ENGINEER _____ BY _____

Well drilled by Colorado Drilling Company Lic. No. _____

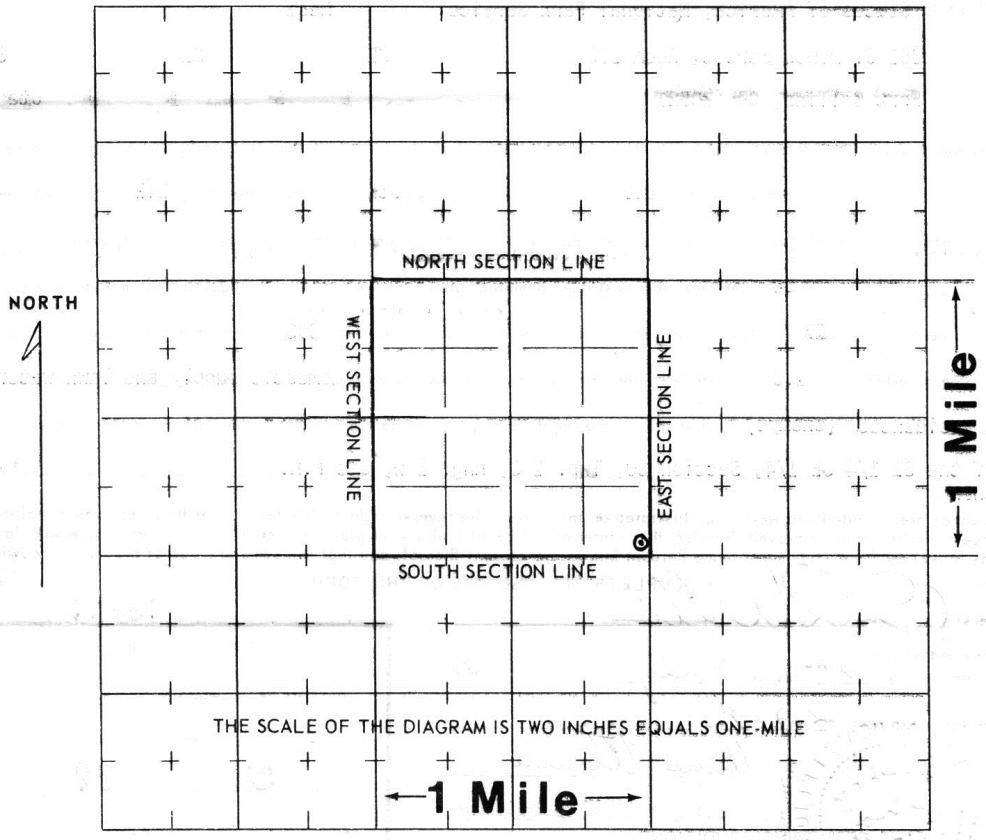
Permanent
Pump installed by Colorado Drilling Company Lic. No. _____

Meter Serial No. _____ ☐ Flow Meter Date Installed _____

Owner of land on which
water is being used United States of America, National Park Service

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PINK COPY WILL BE RETURNED TO OWNER)**

07-13-1988: affidavit, owen r. williams, on behalf of the untied states of america, national park service; july 13, 1988

WRJ-25-75

RECEIVED
JUL 13 1988
WATER RESOURCES
STATE ENGINEER
COLO.

COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St.
Denver, Colorado 80203

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STATE OF COLORADO } SS. AFFIDAVIT
COUNTY OF LARIMER }

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THE AFFIANT(S) Owen R. Williams, on behalf of the United States of America, National Park Service County Mesa
whose mailing address is 301 S. Howes Street, Room 335 SE ¼ of the SE ¼, Section 30
City Fort Collins, CO 80521 (STATE) (ZIP) Twp. 1 S (N OR S), Rng. 1 W (E OR W), Ute P M

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(COMPLETE REVERSE SIDE OF THIS FORM)

Signature(s) O. R. Williams

Subscribed and sworn to before me on this 12th day of July, 1988

My Commission expires 2-21-90 (SEAL)

Mary Anne Atencio
NOTARY PUBLIC

ACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO PURSUANT TO THE FOLLOWING CONDITIONS:

FOR OFFICE USE ONLY

Court Case No. _____

Prior. _____ Mo. _____ Day _____ Yr. _____

Div. _____ Cty. _____

Sec. _____ _____ ¼, _____ ¼, _____ ¼,

Well Use _____ _____ _____ _____

Dist. _____ Basin _____ Man. Dis. _____,

DATE _____ STATE ENGINEER _____ BY _____

Well drilled by Colorado Drilling Company Lic. No. _____

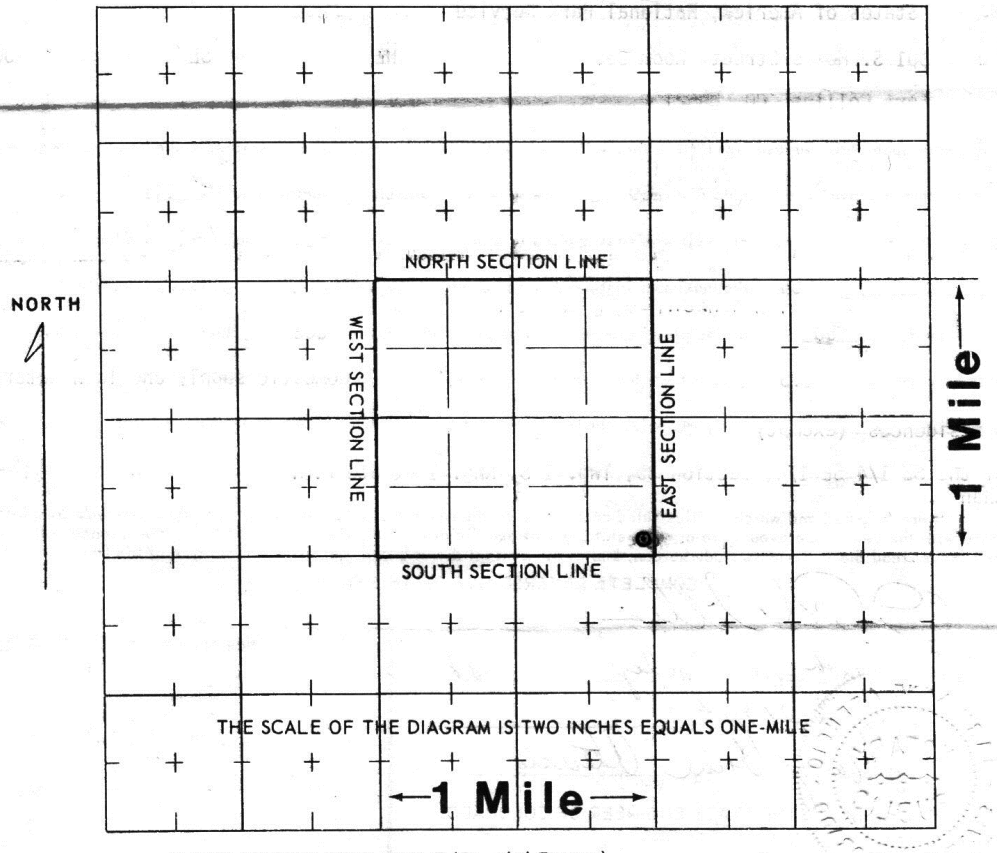
Permanent
Pump installed by Colorado Drilling Company Lic. No. _____

Meter Serial No. _____ ☐ Flow Meter Date Installed _____

Owner of land on which
water is being used United States of America, National Park Service

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THE SCALE OF THE DIAGRAM IS TWO INCHES EQUALS ONE-MILE

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WRJ-25-75

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County Mesa
SE ¼ of the SE ¼, Section 30
Twp. 1 S (N OR S), Rng. 1 W (E OR W), Ute P M

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NOTARY PUBLIC

ACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO PURSUANT TO THE FOLLOWING CONDITIONS:

13376

FOR OFFICE USE ONLY

Court Case DIVISION
Prior ____ Mo ____ Day ____ Yr ____
Div. 5 FIELD
Sec. ____ Twp. ____ Rng. 89
Well Use INSPECTION
Dist. 72 Basin ____ Man. Dis. COPY

DATE _____ STATE ENGINEER _____ BY _____

GWS 13

COLORADO DIVISION OF WATER RESOURCES
FIELD INSPECTION REPORT

APPLICANT: Owen R. Williams on behalf of the U.S. of America, Natl Park Service
Address: 301 S Howes St. Room 335
City: Fort Collins, CO 80521

Phone No. Home _____
Office (303) 221-5341

Person contacted, if not applicant:
Merle Palmer

Type of Disposal System Septic

Total number of acres in tract on well is located _____

PURPOSE OF INSPECTION;
Late Registration XX Replacement ____
Abandoned Old Well ___ Complaint ____
Other _____
Nature of Complaint _____

LOCATION OF WELL:
County Mesa, SE 1/4 SE 1/4
Range 1 W,Ute Township 1S Sec. 30
259 feet from (N) S and 141
feet from (E) W Section line.
Lot ___ Blk ___ Filing___ Subdivision:

Are there any other wells Yes ? If yes, how many 2 Used for:

Permit No. 031959-F (COLM G 3212 BFA#1) and Permit No. 031958-F (COLM G BFA#2), both used for municipal at the west end of the Park.

PLEASE VERIFY THE HISTORIC USE AND THE CURRENT OR PROPOSED USE FOR LATE REGISTRATIONS (SEE BELOW)

A. The use of the well described herein, prior to May 8, 1972, was:

(X) ORDINARY HOUSEHOLD PURPOSES IN 2 SINGLE-FAMILY DWELLING(S).
(X) WATERING OF POULTRY AND/OR DOMESTIC ANIMALS.
( ) WATERING OF LIVESTOCK ON FARMS AND RANCHES. HOW MANY HEAD ____
FEED LOT _____ YES _____ NO _____.
(X) IRRIGATION OF NO MORE THAN ONE ACRE OF HOME GARDENS AND LAWNS _____ SQUARE-FEET.
(X) FIRE PROTECTION.
*( ) FOR COMMERCIAL WELL, SEE BACK OF THIS FORM.
( ) OTHER _____
(X) TYPE OF WELL (DRILLED, HAND DUG, SPRING WELL) Drilled
If spring well, give details on how and when developed _____

8. The current or proposed use of the well (If different than stated above):

Well "C" a.k.a. Robb Artesian Well, will be used mainly for domestic supply and lawn watering at two residences. In CA-7327 decreed purpose of the well is stock watering, amount claimed 0.011 cfs.

(over)

COMMENTS: (please add any additional information that might assist in the evaluation of this (these) application(s).

Appropriation date for Robb Artesian Well is May 1, 1925. The well was drilled to clean and deepen it in 1954. In the mid- to early 1960's the well was replaced and relocated approximately 150 ft. to the southeast of the original well site with the old well being plugged and abandoned. It should be noted that in the original decree CA-7327 was in connection with the Welby Schrader Well No. 1, amount of water used from either one of said wells or from the two combined. Beneficial use of domestic and lawn irrigation occurred with the replacement in the 1960's. Questions raised should be expanded use, amount and well classification (exempt or non-exempt).

*COMMERCIAL WELL

1. Type of Business _____
2. Size of building(s) _____ square feet.
3. Number of employees _____.
4. Number of days per week business is open _____.
5. Does the general public have access to the facilities? If so, estimate average number to daily use the facilities _____.
6. Pumping rate in gallons per minute _____.
7. Is there any other source of water used in conjunction with the well(s)? _____ yes _____ no _____. If yes, explain: _____

Signed Dwight M. Whitehead (Wells) Date 10/31/88

Water Commissioner, ~~District~~ Division V .

(use this space as needed for additional comments)

ID	SEQ NO	NAME OF STRUCTURE	STRUCTURE TYPE	WR STR NO	STREAM NAME	C T Y	G G O	I 1 0	S 4 0	TS	RNG	P M	USE TYPE	DECREED AMOUNT	U N	ADJ TYP	ADJ DATE	PREV ADJ DATE	APPROP DATE	C R	PRIOR NO	ADMIN NUMBER	CASE NO	P	ABANDONED AMOUNT	ALTER ID	UPDATE	S
1196	1526	RESERVOIR SPRING	4	4	RAPID CREEK	39	NESENW	26	11	S	97	W	S 1	89	0.1500	C	2	12/31/1970	12/31/1969	06/30/1882	0		43829.11869	W	188	0.0000	0	05/22/87	U
849	663	RESERVOIR SPRING DITCH	1	4	RAPID CREEK	39	SWNENW	29	11	S	97	W	S 1		1.8000	C	2	02/14/1919	01/09/1919	05/01/1886	0		25210.13270	3460		0.0000	0	04/17/88	U
849	8236	RESERVOIR SPRING DITCH	1	4	RAPID CREEK	39	SWNENW	29	11	S	97	W	S 1	89	5.0000	C	23	12/31/1987	12/31/1986	04/24/1987	0		50152.00000	B7	136	0.0000	0	03/23/88	A
1197	1294	RICE PIPELINE	78	1	COLORADO RIVER	39	NENESE	3	16	S	2	E	U 1		12.0000	C	23	04/13/1972	07/21/1959	04/01/1959	0	1033	40013.39902	13368		0.0000	0	05/22/87	U
5057	1628	RICHARD SMITH WELL	6	1	COLORADO RIVER	39	SESWSE	15	11	S	101	W	S 1	89	0.1100	C	1	12/31/1972		07/01/1945	0		34880.00000	W	1451	0.0000	0	05/22/87	U
3941	7630	RIDGES POND NO 1	3	1	COLORADO RIVER	39	SWNWSW	16	16	S	1	W	U 12345	7 9	4.5000	A	2	12/31/1981	12/31/1980	02/01/1978	0		47847.46782	B1	410	0.0000	0	05/22/87	U
3937	7631	RIDGES POND NO 2	3	1	COLORADO RIVER	39	NENWNW	21	16	S	1	W	U 12345	7 9	2.3000	A	2	12/31/1981	12/31/1980	04/01/1978	0		47847.46842	B1	410	0.0000	0	12/02/86	U
3938	7632	RIDGES POND NO 3	3	1	COLORADO RIVER	39	NWSENE	20	16	S	1	W	U 12345	7 9	32.5000	A	23	12/31/1981	12/31/1980	04/01/1978	0		47847.46842	B1	410	0.0000	0	12/02/86	U
3938	B118	RIDGES POND NO 3	3	1	COLORADO RIVER	39	NWSENE	20	16	S	1	W	U 12345	7 9	32.5000	A	28	12/31/1981	12/31/1980	04/01/1978	0		47847.46842	B6	113	0.0000	0	07/09/87	U
3939	7633	RIDGES POND NO 4	3	1	COLORADO RIVER	39	SENWNW	20	16	S	1	W	U 12345	7 9	71.0000	A	23	12/31/1981	12/31/1980	10/01/1980	0		47847.47765	B1	410	0.0000	0	07/09/87	U
5086	7629	RIDGES WELL NO 1	6	1	COLORADO RIVER	39	SWNWNW	21	16	S	1	W	U 12345	7	0.0770	C	2	12/31/1981	12/31/1980	03/09/1971	0		47847.46819	B1	410	0.0000	0	12/02/86	U
850	738	RIESER DITCH	1	8	BULL CREEK	39	NENWNE	26	10	S	96	W	S 1		1.6000	C	2	07/25/1941	08/03/1934	08/21/1914	0		30895.23608	5812		0.0000	0	05/15/87	U
5204	8209	RIFKINS SPRING	4	25	EAST SALT CREEK	23	SWNE	26	5	S	101	W	S	90	0.0060	C	2	12/31/1983	12/31/1982	08/24/1982	0		48577.48448	B3	62	0.0000	0	03/01/88	A
851	901	RIVER BOTTOM DITCH	1	1	COLORADO RIVER	39	SENESE	7	16	S	2	E	U 1		0.2100	C	2	07/25/1941	08/03/1934	04/01/1934	0		30895.30771	5812		0.0000	0	05/22/87	U
851	902	RIVER BOTTOM DITCH	1	1	COLORADO RIVER	39	SENESE	7	16	S	2	E	U 1		0.9100	C	23	07/25/1941	08/03/1934	04/01/1934	0		30895.30771	5812		0.0000	0	05/22/87	U
5014	218	ROAD ARTESIAN WELL	6	1	COLORADO RIVER	39	NESESE	30	15	S	1	W	U	89	0.0110	C	2	08/23/1948	03/27/1944	05/01/1925	0		34419.21514	7332		0.0000	0	05/15/87	U
5058	1606	ROBBINS WELL	6	2	PLATEAU CREEK	39	SWNWNE	30	9	S	94	W	S	89	0.0330	C	1	12/31/1972		09/16/1964	0		41897.00000	W	1045	0.0000	0	05/22/87	U
5211	8254	ROCKPILE SPRING	4	1	COLORADO RIVER	39	NENWSW	15	9	S	99	W	S	90	0.0006	C	2	12/31/1983	12/31/1982	07/14/1982	0		48577.48407	B3	45	0.0000	0	03/25/88	A
854	244	ROCKWELL DITCH	1	11	GROVE CREEK	39	SESWSE	17	10	S	94	W	S 1		0.9800	C	1	02/07/1890		07/01/1883	0	20	12235.00000	273		0.0000	0	05/22/87	U
854	270	ROCKWELL DITCH	1	11	GROVE CREEK	39	SESWSE	17	10	S	94	W	S 1		0.7200	C	1	02/07/1890		02/29/1888	0	52	13939.00000	273		0.0000	0	05/22/87	U
854	7238	ROCKWELL DITCH	1	11	GROVE CREEK	39	SESWSE	17	10	S	94	W	S 1		3.1900	C	13	02/07/1890		02/29/1888	0	52	13939.00000	273		1.0000	0	05/22/87	U
854	7239	ROCKWELL DITCH	1	11	GROVE CREEK	39	SESWSE	17	10	S	94	W	S 1		2.5200	C	18	02/07/1890		02/29/1888	0	52	13939.00000	2635		0.0000	0	05/22/87	U
854	8393	ROCKWELL DITCH	1	11	GROVE CREEK	39	SESWSE	17	10	S	94	W	S 1		0.6700	C	136	02/07/1890		02/29/1888	0	52	13939.00000	B4	218	1.0000	0	04/15/88	U
854	314	ROCKWELL DITCH	1	11	GROVE CREEK	39	SESWSE	17	10	S	94	W	S 1		1.7200	C	2	10/14/1905	05/02/1901	10/01/1888	0		18749.14154	1222		0.0000	0	05/22/87	U
854	83	ROCKWELL DITCH	1	11	GROVE CREEK	39	SESWSE	17	10	S	94	W	S	8	1.0000	C	2	07/25/1941	08/03/1934	07/15/1883	0		30895.12249	5812		0.0000	0	05/22/87	U
854	974	ROCKWELL DITCH	1	11	GROVE CREEK	39	SESWSE	17	10	S	94	W	S 1		1.8700	C	2	07/21/1959	03/27/1944	05/25/1925	0		34419.27538	8303		0.0000	0	05/22/87	U
857	7303	ROGERS DITCH	1	24	WEST SALT CREEK	23		6	6	S	103	W	S 1		0.9000	C	2	08/09/1920	03/27/1920	04/22/1910	0	176C	25633.22026	2108		0.0000	0	12/02/86	U
858	326	ROSA DITCH	1	2	PLATEAU CREEK	39	NENESW	23	9	S	94	W	S 1		2.7000	C	2	10/14/1905	05/02/1901	10/30/1890	0		18749.14915	1222		0.0000	0	05/22/87	U
858	801	ROSA DITCH	1	2	PLATEAU CREEK	39	NENESW	23	9	S	94	W	S 1		0.1300	C	2	07/25/1941	08/03/1934	06/28/1916	0		30895.24277	5812		0.0000	0	05/22/87	U
858	161	ROSA DITCH	1	2	PLATEAU CREEK	39	NENESW	23	9	S	94	W	S 1		1.2600	C	2	07/25/1941	08/03/1934	11/01/1939	0		32811.00000	5812		0.0000	0	05/22/87	U
859	394	ROSE POINT POWER CANAL	1	1	COLORADO RIVER	39	SESENE	21	15	S	1	E	U 1		110.0000	C	2	07/22/1912	03/25/1912	07/02/1910	0		22729.22097	1927		0.0000	0	05/22/87	U
859	395	ROSE POINT POWER CANAL	1	1	COLORADO RIVER	39	SESENE	21	15	S	1	E	U 1		3.2500	C	2	07/22/1912	03/25/1912	07/02/1910	0		22729.22097	1927		0.0000	0	05/22/87	U
1198	1796	ROSELLI PUMP NO 1	8	23	BIG SALT WASH	39	SENWNE	5	1	N	2	W	U 1	8	0.2000	C	2	12/31/1974	12/31/1973	08/26/1974	0		45526.00000	W	2407	0.0000	0	05/22/87	U
1199	7196	ROSYS DITCH	1	38	REED WASH	39	SESESW	25	2	N	3	W	U 1		0.5760	C	2	12/31/1977	12/31/1976	06/01/1973	0		46386.45077	W	3347	0.0000	0	07/22/87	U
1507	7197	ROSYS DITCH	1	38	REED WASH	39	SWSESW	25	2	N	3	W	U 1		0.5760	C	27	12/31/1977	12/31/1976	06/01/1973	0		46386.45077	W	3347	0.0000	1199	04/01/88	U
1200	1577	RUBY CANYON PUMP AND PL	78	1	COLORADO RIVER	39	NWSESW	18	10	S	103	W	S 1	5	2.0000	C	2	12/31/1972	12/31/1971	01/01/1930	0		44559.29220	W	491	0.0000	0	05/22/87	U
860	602	RUBY DITCH	1	23	BIG SALT WASH	23	NESWSW	12	8	S	102	W	S 1		9.0000	C	2	06/01/1916	12/16/1912	04/13/1908	0		22995.21287	2635		0.0000	0	07/22/87	U
860	604	RUBY DITCH	1	23	BIG SALT WASH	23	NESWSW	12	8	S	102	W	S 1		46.0800	C	23	06/01/1916	12/16/1912	04/13/1908	0		22995.21287	2635		46.0000	0	07/22/87	U
860	8394	RUBY DITCH	1	23	BIG SALT WASH	23	NESWSW	12	8	S	102	W	S 1		46.0800	C	236	06/01/1916	12/16/1912	04/13/1908	0		22995.21287	B4	218	46.0000	0	07/22/87	U
3921	514	RUBY LEE RESERVOIR	3	23	BIG SALT WASH	39	NENENW	23	8	S	102	W	S 1		367.0000	A	2	06/01/1916	12/16/1912	04/13/1908	0		22995.21287	2635		0.0000	0	05/22/87	U
1201	1530	RUFF SPRING	4	4	RAPID CREEK	39	NWNWNW	32	11	S	97	W	S 1	89	0.1500	C	2	12/31/1970	12/31/1969	06/30/1882	0		43829.11869	W	188	0.0000	0	05/22/87	U
8ee	630	RUPERT SHOEMAKER DITCH	1	5	MESA CREEK	39	NESWNE	30	10	S	96	W	S 1		0.1080	C	2	06/01/1916	12/16/1912	05/01/1910	0		22995.22035	2635		0.0000	0	05/22/87	U
8ee	631	RUPERT SHOEMAKER DITCH	1	5	MESA CREEK	39	NESWNE	30	10	S	96	W	S 1		0.3600	C	23	06/01/1916	12/16/1912	05/01/1910	0		22995.22035	2635		0.0000	0	05/22/87	U
861	955	RYAN SPRING DITCH	1	2	PLATEAU CREEK	39	SWSENE	34	9	S	95	W	S 1	8	0.5000	C	2	07/21/1959	03/27/1944	10/16/1917	0		34419.24766	8303		0.0000	0	05/15/87	U
1315	7719	SACCAMANNO DITCH NO 1	1	1	COLORADO RIVER	39	NESWNW	26	1	N	1	W	U 1	789	0.0100	C	23	12/31/1981	12/31/1980	12/01/1971	0		47847.44529	B1	410	0.0000	0	05/22/87	U
1315	8231	SACCAMANNO DITCH NO 1	1	1	COLORADO RIVER	39	NESWNW	26	1	N	1	W	U 1	789	0.0100	C	236	12/31/1981	12/31/1980	12/01/1971	0		47847.44529	B1	410	0.0000	0	03/23/88	U
1316	7720	SACCAMANNO DITCH NO 2	1	1	COLORADO RIVER	39	SWNWNW	26	1	N	1	W	U 1	789	0.0100	C	23	12/31/1981	12/31/1980	12/01/1971	0		47847.44529	B1	410	0.0000	0	05/22/87	U
1316	8232	SACCAMANNO DITCH NO 2	1	1	COLORADO RIVER	39	SWNWNW	26	1	N	1	W	U 1	789	0.0100	C	236	12/31/1981	12/31/1980	12/01/1971	0		47847.44529	B1	410	0.0000	0	04/15/88	U
1317	7721	SACCAMANNO DIVR LEACH CR	1	1	COLORADO RIVER	39	SENESW	26	1	N	1	W	U 1	789	0.0100	C	23	12/31/1981	12/31/1980	12/01/1971	0		47847.44529	B1	410	0.0000	0	12/02/86	U
1317	8230	SACCAMANNO DIVR LEACH CR	1	1	COLORADO RIVER	39	SENESW	26	1	N	1	W	U 1	789	0.0100	C	236	12/31/1981	12/31/1980	12/01/1971	0		47847.44529	B1	410	0.0000	0	03/23/88	M
862	807	SADDLE DITCH	1	6	COON CREEK	39	SWNWNE	10	11	S	96	W	S 1		3.0000	C	2	07/25/1941	08/03/1934	08/12/1916	0		30895.24330	5812		0.0000	0	12/02/86	U
862	205	SADDLE DITCH	1	6	COON CREEK	39	SWNWNE	10	11	S	96	W	S 1		1.3400	C	2	07/25/1941	08/03/1934	11/01/1939	0		32811.00000	5812		0.0000	0	12/02/86	U
863	347	SALISBURY RIGGINS DITCH	1	12	SALT CR GRAND MESA	39	SENENW	10	10	S	94	W	S 1		1.6200	C	2	10/14/1905	05/02/1901	08/12/1895	0		18749.16666	1222		0.0000	0	07/20/87	U
863	844	SALISBURY RIGGINS DITCH	1	12	SALT CR GRAND MESA	39	SENENW	10	10	S	94	W	S 1		1.3000	C	2	07/25/1941	08/03/1934	08/20/1920	0		30895.20179	5812		0.0000	0	07/20/87	U

05-13-1988: table; may 13, 1988

ID	SEC NO	NAME OF STRUCTURE	STRUCTURE TYPE	WR STR NO	STREAM NAME	C T Y	Q 1 4 0 0	Q 1 6 0	S E C	TS	RNG	P	USE	N TYPE	DECREED AMOUNT	U N T	ADJ TYP	ADJ DATE	PREV ADJ DATE	APPROP DATE	O B D	PRIOR NO	ADMIN NUMBER	CASE NO	P / A	ABANDONED AMOUNT	ALTER ID	UPDATE	S T A
978	7563	WAGNER DRAW PUMP	8	1	COLORADO RIVER	39	SWNWNW		18	1 S	1 W	U	1		0.7200	C	28	12/31/1979	12/31/1978	10/18/1979	0		47407.00000	80	442	0.0000		0 07/22/87	U
929	948	WALLACE DITCH (GROVE CR)	1	11	GROVE CREEK	39	SENWNW		18	10 S	94 W	S	1		0.4200	C	2	07/21/1959	03/27/1944	04/15/1912	0		34419.22750	8303		0.0000		0 12/02/86	U
1331	7894	WALMUT WATER WORKS PUMP	78	1	COLORADO RIVER	39				11 S	1 W	U	1		0.1540	C	2	12/31/1980	12/31/1979	07/15/1980	0		47678.00000	80	304	0.0000		0 05/21/87	U
602	915	WALTER DREXEL DITCH	1	8	BULL CREEK	39	SWNWSW		25	10 S	96 W	S	1		0.9900	C	23	07/25/1941	08/03/1934	04/01/1936	0		31502.00000	5812		0.0000		0 05/26/87	U
602	916	WALTER DREXEL DITCH	1	8	BULL CREEK	39	SWNWSW		25	10 S	96 W	S	1		0.0900	C	2	07/25/1941	08/03/1934	04/01/1936	0		31502.00000	5812		0.0000		0 05/26/87	U
602	1215	WALTER DREXEL DITCH	1	8	BULL CREEK	39	SWNWSW		25	10 S	96 W	S	1		0.9900	C	28	07/25/1941	08/03/1934	04/01/1936	0		31502.00000	5812		0.0000		0 05/26/87	U
3944	7435	WAMBAS WASH RESERVOIR	3	1	COLORADO RIVER	39	SWNESE		21	1 S	1 E	U	1	56	58.6000	A	28	12/31/1977	12/31/1976	02/16/1977	0		46433.00000	82	17	0.0000		0 05/21/87	U
3944	7863	WAMBAS WASH RESERVOIR	3	1	COLORADO RIVER	39	SWNESE		21	1 S	1 E	U	1	56 8	58.6000	A	23	12/31/1977	12/31/1976	02/16/1977	0		46433.00000	W	3334	0.0000		0 05/21/87	U
930	7313	WARNER DITCH	1	31	EAST GULCH CREEK	23	SWSESE		15	7 S	101 W	S	1	4 8	1.0000	C	2	02/28/1914	02/26/1914	05/31/1906	0	1748	23432.20604		1612	0.0000		0 05/26/87	U
5070	1621	WASSON WELL NO 1	2	6	COON CREEK	39	NENENW		29	10 S	96 W	S	1	89	0.0670	C	1	12/31/1972		12/31/1957	0		39446.00000	W	1407	0.0000		0 05/26/87	U
5138	1622	WASSON WELL NO 2	2	6	COON CREEK	39	NENENW		29	10 S	96 W	S	1	89	0.0330	C	1	12/31/1972		12/31/1900	0		18627.00000	W	1408	0.0000		0 05/21/87	U
1497	8245	WATSON CREEK DITCH	1	1	COLORADO RIVER	39	SESWNW		26	11 S	98 W	S	1	8 0	4.0000	C	23	12/31/1987	12/31/1986	04/24/1987	0		50152.00000	87	115	0.0000		0 03/25/88	N
1497	8246	WATSON CREEK DITCH	1	1	COLORADO RIVER	39	SESWNW		26	11 S	98 W	S		0	4.0000	C	23	12/31/1987	12/31/1986	04/24/1987	0		50152.00000	87	115	0.0000		0 03/25/88	N
1238	7209	WATSON DITCH	1	1	COLORADO RIVER	39	SWNWSW		26	1 S	2 E	U	1	89	6.0000	C	2	12/31/1976	12/31/1975	12/31/1900	0		46020.18627	W	3105	0.0000		0 07/22/87	U
1238	7210	WATSON DITCH	1	1	COLORADO RIVER	39	SWNWSW		26	1 S	2 E	U	1	89	12.0000	C	23	12/31/1976	12/31/1975	12/31/1900	0		46020.18627	W	3105	0.0000		0 07/22/87	U
1238	7619	WATSON DITCH	1	1	COLORADO RIVER	39	SWNWSW		26	1 S	2 E	U	1	89	12.0000	C	236	12/31/1976	12/31/1975	12/31/1900	0		46020.18627	W	3105	0.0000		0 07/22/87	U
1239	1247	WEBB COLLECTION D NO 1	1	10	BIG CREEK	39	NENESW		10	10 S	95 W	S	1	89	1.2000	C	2	04/13/1972	07/21/1959	06/01/1904	0		40013.19875		13368	0.0000		0 05/21/87	U
1240	1248	WEBB COLLECTION D NO 2	1	10	BIG CREEK	39	NWSWNE		10	10 S	95 W	S	1	89	1.2000	C	2	04/13/1972	07/21/1959	06/01/1904	0		40013.19875		13368	0.0000		0 04/12/88	U
1241	1249	WEBB COLLECTION D NO 3	1	10	BIG CREEK	39	NESENW		10	10 S	95 W	S	1	89	1.2000	C	2	04/13/1972	07/21/1959	06/01/1904	0		40013.19875		13368	0.0000		0 05/21/87	U
1242	1329	WEBB COLLECTION D NO 4	1	10	BIG CREEK	39	NENENW		10	10 S	95 W	S	1	89	1.2000	C	2	04/13/1972	07/21/1959	06/01/1904	0		40013.19875		13368	0.0000		0 05/21/87	U
1243	1250	WEBB COLLECTION D NO 5	1	10	BIG CREEK	39	NENENW		10	10 S	95 W	S	1	89	1.2000	C	2	04/13/1972	07/21/1959	06/01/1904	0		40013.19875		13368	0.0000		0 04/12/88	U
3916	543	WEBB NO 1 RESERVOIR	3	11	GROVE CREEK	39	SENW		29	10 S	94 W	S		89	1.5000	A	2	07/25/1941	08/03/1934	10/20/1915	0		30895.24033		5812	2.0000		0 12/02/86	U
3916	544	WEBB NO 1 RESERVOIR	3	11	GROVE CREEK	39	SENW		29	10 S	94 W	S		89	1.5000	A	23	07/25/1941	08/03/1934	10/20/1915	0		30895.24033		5812	2.0000		0 12/02/86	U
3916	8409	WEBB NO 1 RESERVOIR	3	11	GROVE CREEK	39	SENW		29	10 S	94 W	S		89	1.5000	A	26	07/25/1941	08/03/1934	10/20/1915	0		30895.24033	B4	218	2.0000		0 12/02/86	U
3916	8410	WEBB NO 1 RESERVOIR	3	11	GROVE CREEK	39	SENW		29	10 S	94 W	S		89	1.5000	A	236	07/25/1941	08/03/1934	10/20/1915	0		30895.24033	B4	218	2.0000		0 12/02/86	U
3917	545	WEBB NO 2 RESERVOIR	3	11	GROVE CREEK	39	SENW		29	10 S	94 W	S		89	2.5000	A	23	07/25/1941	08/03/1934	10/20/1915	0		30895.24033		5812	2.0000		0 12/02/86	U
3917	546	WEBB NO 2 RESERVOIR	3	11	GROVE CREEK	39	SENW		29	10 S	94 W	S		89	2.5000	A	2	07/25/1941	08/03/1934	10/20/1915	0		30895.24033		5812	2.0000		0 12/02/86	U
3917	8411	WEBB NO 2 RESERVOIR	3	11	GROVE CREEK	39	SENW		29	10 S	94 W	S		89	2.5000	A	236	07/25/1941	08/03/1934	10/20/1915	0		30895.24033	B4	218	2.0000		0 12/02/86	U
3917	8412	WEBB NO 2 RESERVOIR	3	11	GROVE CREEK	39	SENW		29	10 S	94 W	S		89	2.5000	A	26	07/25/1941	08/03/1934	10/20/1915	0		30895.24033	B4	218	2.0000		0 12/02/86	U
3918	547	WEBB NO 3 RESERVOIR	3	11	GROVE CREEK	39	NESW		29	10 S	94 W	S		89	2.0000	A	23	07/25/1941	08/03/1934	10/20/1915	0		30895.24033		5812	2.0000		0 12/02/86	U
3918	548	WEBB NO 3 RESERVOIR	3	11	GROVE CREEK	39	NESW		29	10 S	94 W	S		89	3.0000	A	2	07/25/1941	08/03/1934	10/20/1915	0		30895.24033		5812	3.0000		0 12/02/86	U
3918	8413	WEBB NO 3 RESERVOIR	3	11	GROVE CREEK	39	NESW		29	10 S	94 W	S		89	2.0000	A	236	07/25/1941	08/03/1934	10/20/1915	0		30895.24033	B4	218	2.0000		0 12/02/86	U
931	765	WEIMER DITCH	1	5	MESA CREEK	39	SENWSE		21	11 S	96 W	S	12	9	1.7300	C	2	07/25/1941	08/03/1934	05/25/1915	0		30895.23885		5812	0.0000		0 05/21/87	U
931	1734	WEIMER DITCH	1	5	MESA CREEK	39	SENWSE		21	11 S	96 W	S	12	9	1.7300	C	25	07/25/1941	08/03/1934	05/25/1915	0		30895.23885	W	2195	0.0000		0 05/21/87	U
931	7809	WEIMER DITCH	1	5	MESA CREEK	39	NENWNW		21	11 S	96 W	S	12	9	1.7300	C	24	07/25/1941	08/03/1934	05/25/1915	0		30895.23885	W	2195	0.0000		0 05/21/87	U
931	198	WEIMER DITCH	1	5	MESA CREEK	39	SENWSE		21	11 S	96 W	S	12	9	0.7700	C	2	07/25/1941	08/03/1934	11/01/1939	0		32811.00000		5812	0.0000		0 05/21/87	U
931	1732	WEIMER DITCH	1	5	MESA CREEK	39	SENWSE		21	11 S	96 W	S	12	9	0.7700	C	25	07/25/1941	08/03/1934	11/01/1939	0		32811.00000	W	2195	0.0000		0 05/21/87	U
931	7810	WEIMER DITCH	1	5	MESA CREEK	39	NENWNW		21	11 S	96 W	S	12	9	0.7700	C	24	07/25/1941	08/03/1934	11/01/1939	0		32811.00000	W	2195	0.0000		0 05/21/87	U
1405	7952	WEIMER SPRING DITCH	1	3	BUZZARD CREEK	39	SENWSE		26	9 S	95 W	S	1		0.1980	C	2	12/31/1984	12/31/1983	08/29/1913	0		48942.23251	B4	229	0.0000		0 05/21/87	U
1405	7953	WEIMER SPRING DITCH	1	3	BUZZARD CREEK	39	SENWSE		26	9 S	95 W	S	1		0.2820	C	23	12/31/1984	12/31/1983	07/24/1984	0		49148.00000	B4	229	0.0000		0 05/21/87	U
[illegible]	[illegible]	WEIMER RESERVOIR NO 1 WELL	[illegible]	[illegible]	COLORADO RIVER	[illegible]	SENESE		30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.0110	C	2	08/23/1948	03/27/1944	05/01/1946	0		[illegible]		[illegible]	0.0000		[illegible]	[illegible]
932	7961	WELCH DITCH	1	6	COON CREEK	39	NWSWNE		20	10 S	96 W	S	1		1.3000	C	27	03/19/1898	10/24/1896	04/01/1884	0	2	17099.12510	B3	240	0.0000	932	05/21/87	U
932	305	WELCH DITCH	1	6	COON CREEK	39	SWSWSE		17	10 S	96 W	S	1		1.3000	C	2	03/19/1898	10/24/1896	04/01/1884	0		17099.12510		970	0.0000		0 05/26/87	U
932	306	WELCH DITCH	1	6	COON CREEK	39	SWSWSE		17	10 S	96 W	S	1		0.3300	C	2	03/19/1898	10/24/1896	06/01/1891	0	94	17099.15127		970	0.0000		0 05/26/87	U
5071	1602	WELL NO 1 VEGA REC AREA	2	2	PLATEAU CREEK	39	SENESE		32	9 S	93 W	S		8	0.0510	C	1	12/31/1972		05/15/1961	0		40677.00000	W	1000	0.0000		0 05/26/87	U
5072	1601	WELL NO 2 VEGA REC AREA	2	2	PLATEAU CREEK	39	SENESE		32	9 S	93 W	S		8	0.0440	C	1	12/31/1972		11/20/1968	0		43425.00000	W	1000	0.0000		0 05/26/87	U
5073	1591	WELL NO 7592	2	2	PLATEAU CREEK	39	SWSWSE		31	9 S	93 W	S		8	0.0550	C	1	12/31/1972		12/12/1960	0		40523.00000	W	879	0.0000		0 05/21/87	U
3827	1190	WEST BASIN RESERVOIR	3	1	COLORADO RIVER	39	SESENE		35	8 S	104 W	S		9	1.0000	A	2	07/21/1959	03/27/1944	07/21/1952	0		37457.00000	B3	83	0.0000		0 05/26/87	U
1431	8135	WEST BRANCH PIPELINE	7	5	MESA CREEK	39	SESESE		19	11 S	96 W	S	12345	8 0	1.6000	C	23	12/31/1986	12/31/1985	01/23/1986	0		49696.00000	B6	15	A 0.0000	7851	03/04/88	
1244	1256	WEST DITCH NO 1	1	5	MESA CREEK	39	NENESE		18	10 S	96 W	S	1		0.1800	C	2	04/13/1972	07/21/1959	07/01/1959	0	975	40013.39993		13368	0.0000		0 05/26/87	U
5195	8218	WEST ECHO SPRING	4	23	BIG SALT WASH	23	SWNW		2	7 S	101 W	S		90	0.0140	C	2	12/31/1983	12/31/1982	08/24/1982	0		48577.48448	B3	62	0.0000		0 03/01/88	N
933	263	WEST SIDE DITCH	1	5	MESA CREEK	39	NENWSW		8	11 S	96 W	S	1		2.3000	C	1	02/07/1890		09/23/1887	0	44	13780.00000		273	0.0000		0 05/26/87	U
933	7228	WEST SIDE DITCH	1	5	MESA CREEK	39	NENWSW		8	11 S	96 W	S	1		10.6400	C	13	02/07/1890		09/23/1887	0	44	13780.00000		273	3.0000		0 05/26/87	U
933	7229	WEST SIDE DITCH	1	5	MESA CREEK	39	NENWSW		8	11 S	96 W	S	1		7.3480	C	18	02/07/1890		09/23/1887	0	44	13780.00000		2635	0.0000		0 05/26/87	U

05-13-1988: table; may 13, 1988

ENTRADA SAND

ROBB ARTESIAN WELL

Well No. 2 Priority No. 2

Said well is entitled to Priority No. 2. It is a well claimed by C. Welby Schrader and is used for stock watering purposes, taking its supply of water from the Entrada Sand in Zone No. 2 of Water District No. 42. The well is located on the southeast quarter of Section 30, Township 1 south, Range 1 west, of the Ute Meridian.

IT IS HEREBY ADJUDGED AND DECREED that there be allowed to flow from or be withdrawn from said well for the use aforesaid and for the benefit of the parties lawfully entitled thereto and by virtue of said appropriation by original construction and use and Priority No. 2, .011 cubic feet of water per second of time in connection with a similar decree in favor of the Welby Schrader No. 1 Well; that is, said amount of water may be used from either one of said wells or from the two combined. The date of said priority is May 1, 1925.

ENTRADA SAND

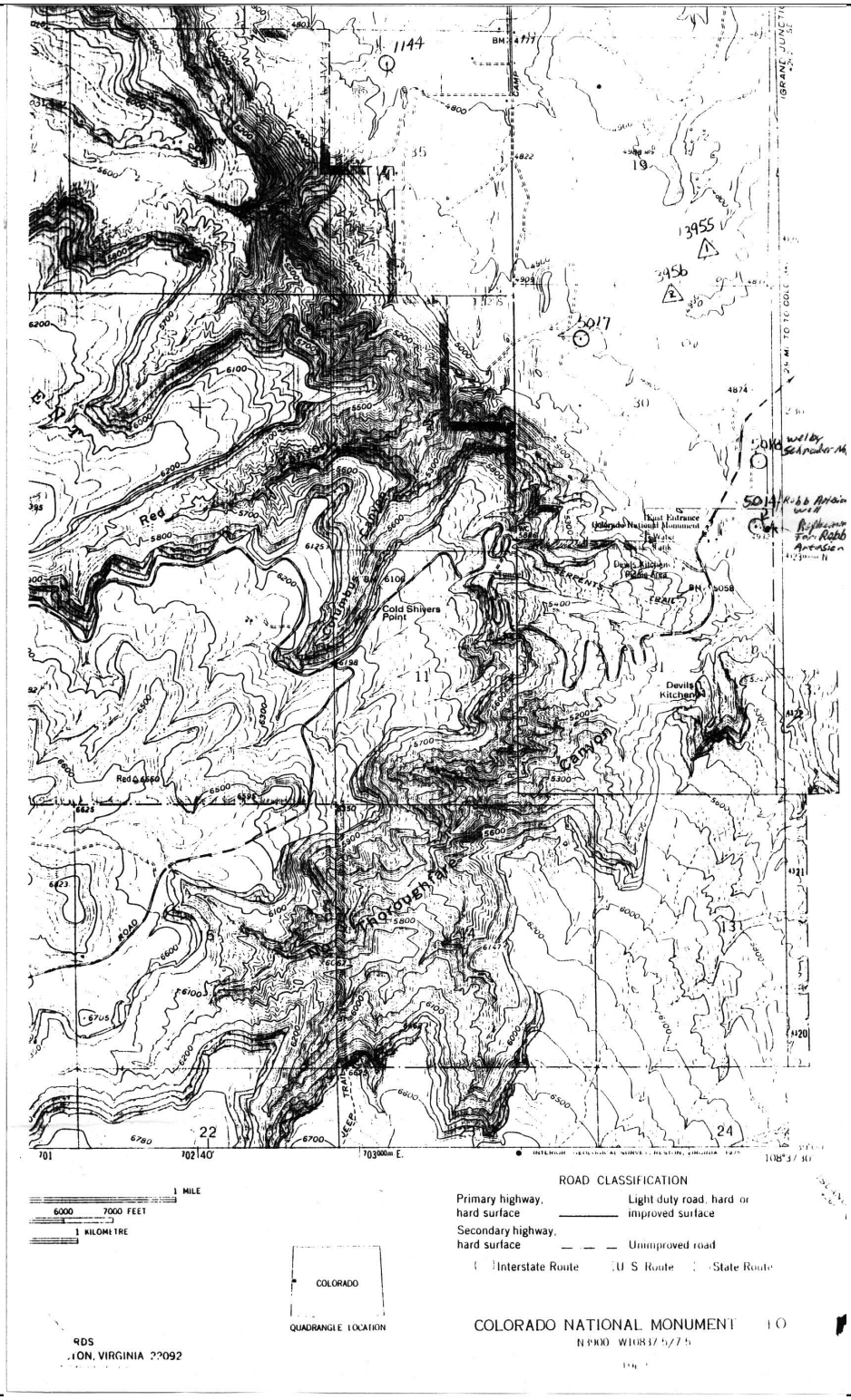
THE WELBY SCHRADER NO.1 WELL

Well No. 11 Priority No. 11

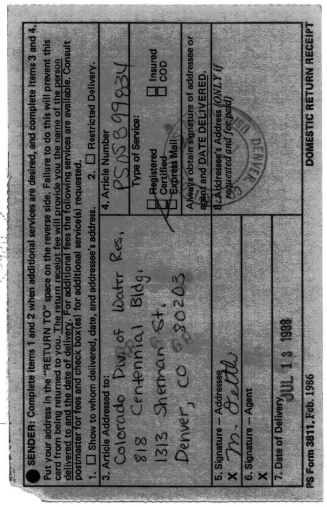
Said well is entitled to Priority No. 11. It is a well claimed by C. Welby Schrader and is used for domestic purposes, principally the watering of livestock, taking its supply of water from the Entrada Sand in Zone No. 2 of Water District No. 42. The well is located on the southeast quarter of Section 30, Township 1 south, Range 1 west, of the Ute Meridian.

IT IS HEREBY ADJUDGED AND DECREED that there be allowed to flow from or be withdrawn from said well for the use aforesaid and for the benefit of the parties lawfully entitled thereto and by virtue of said appropriation by original construction and use and Priority No. 11, .011 cubic feet of water per second of time in connection with a similar decree in favor of the Robb Artesian Well; that is, said amount of water may be used from either one of said wells or from the two combined. The date of said priority is May 1, 1946.

05-00-1975: map; may, 1975



07-11-1986: dear sir or madam, submitted herein are forms for late registration of the east entrance well at colorado national mon



July 11, 1988

L54(479)
RMR/COLN Water Rights

Colorado Division of Water Resources
818 Centennial Building
1313 Sherman Street
Denver, CO 80203

Dear Sir or Madam:

Submitted herein are forms for late registration of the East Entrance Well at Colorado National Monument. These forms serve to amend the late registration forms submitted in May and returned to our office for clarification.

The East Entrance Well, formerly called Well "C", is located in the southeast portion of Colorado National Monument and is used for domestic water supply and irrigation of lawns at two National Park Service employee residences. The total land area of the two lawns is less than an acre.

If you have any questions please contact Beth Voelkel at (303)221-8323.

Thank you.

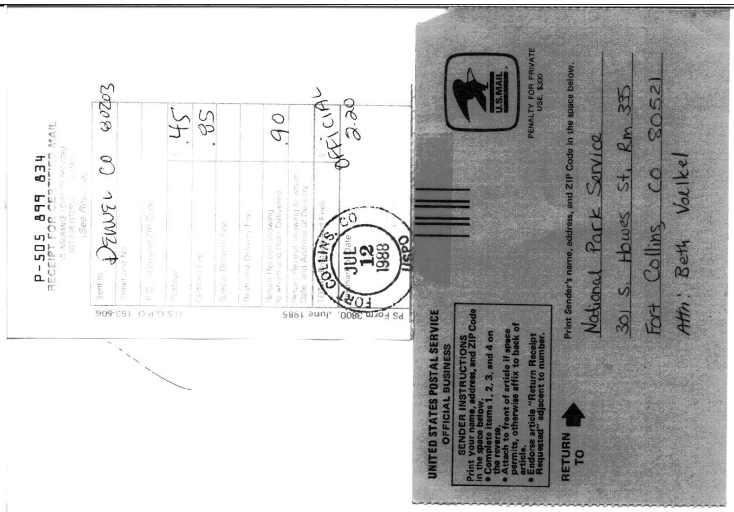
Owen Williams

Owen R. Williams
Hydrologist

Enclosures

cc: Superintendent, COLN
Hermance, RMR

FNP:BVoelkel:bv:7/12/88:(303)221-8323:#64



July 11, 1988

L34(479)
RMR/COLM Water Rights

Colorado Division of Water Resources
818 Centennial Building
1313 Sherman Street
Denver, CO 80203

Dear Sir or Madam:

Submitted herein are forms for late registration of the East Entrance Well at Colorado National Monument. These forms serve to amend the late registration forms submitted in May and returned to our office for clarification.

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Thank you.

Owen Williams

Owen R. Williams
Hydrologist

Enclosures

cc: Superintendent, COLM
Hermance, RMR

FWP:BVoelkel:bv:7/12/88:(303)221-8323:#64

07-11-1988: dear sir or madam, submitted herein are forms for late registration of the east entrance well at colorado national mon

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:

July 11, 1988

L54(479)
RMR/COLM Water Rights

Colorado Division of Water Resources
818 Centennial Building
1313 Sherman Street
Denver, CO 80203

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If you have any questions please contact Beth Voelkel at (303)221-8323.

Thank you.

Owen R. Williams
Hydrologist

Enclosures

cc: Superintendent, COLM
Hermance, RMR

WRJ-25-75

COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St.
Denver, Colorado 80203

TYPE OR PRINT IN BLACK INK. COPY OF ACCEPTED STATEMENT MAILED ON REQUEST.

STATE OF COLORADO } SS.
COUNTY OF LARIMER }

AFFIDAVIT

_____ STATEMENT OF BENEFICIAL USE OF GROUND WATER
_____ AMENDMENT OF EXISTING RECORD
AMENDED X LATE REGISTRATION FOR APPLICATION RECEIPT NUMBER 13376

PERMIT NUMBER _____ LOCATION OF WELL

THE AFFIANT(S) Owen R. Williams, on behalf of the United States of America, National Park Service whose mailing address is 301 S. Howes Street, Room 335 City Fort Collins, CO 80521 (STATE) (ZIP)

County Mesa
SE ¼ of the SE ¼, Section 30
Twp. 1 S (N OR S), Rng. 1 W (E OR W), Ute P M

being duly sworn upon oath, deposes and says that he (they) is (are) the owner(s) of the well described hereon; the well is located as described above, at distances of 259 feet from the South (NORTH OR SOUTH) section line and 141 feet from the East (EAST OR WEST) section line; water from this well was first applied to a beneficial use for the purpose(s) described herein on the ____ day of _____, 19 54; the maximum sustained pumping rate of the well is _____ gallons per minute, the pumping rate claimed hereby is 15 gallons per minute; the total depth of the well is 303 feet; the average annual amount of water to be diverted is 1.5 acre-feet; for which claim is hereby made for domestic supply and lawn watering at two residences (exempt) purpose(s); the legal description of the land on which the water from this well is used is part of the SE 1/4 SE 1/4, Section 30, Twp. 1 S, Rng. 1 W, Ute P.M. of which less than one acres are irrigated and which is illustrated on the map on the reverse side of this form; that this well was completed in compliance with the permit approved therefor; this statement of beneficial use of ground water is filed in compliance with law; he (they) has (have) read the statements made hereon; knows the content thereof; and that the same are true of his (their) knowledge.

(COMPLETE REVERSE SIDE OF THIS FORM)

Signature(s) O. R. Williams

Subscribed and sworn to before me on this 12th day of July, 1988

My Commission expires: 2-21-90 (SEAL)

Mary Anne Atencio
NOTARY PUBLIC

ACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO PURSUANT TO THE FOLLOWING CONDITIONS:

FOR OFFICE USE ONLY

Court Case No. _____
Prior. _____ Mo. ____ Day ____ Yr. ____
Div. _____ Cty. _____
Sec. ____ ____ ¼. ____ ¼. ____ ¼.
Well Use _____ _____ _____ _____
Dist. _____ Basin _____ Man. Dis. _____

DATE _____ STATE ENGINEER _____ BY _____

Well drilled by Colorado Drilling Company Lic. No. _____

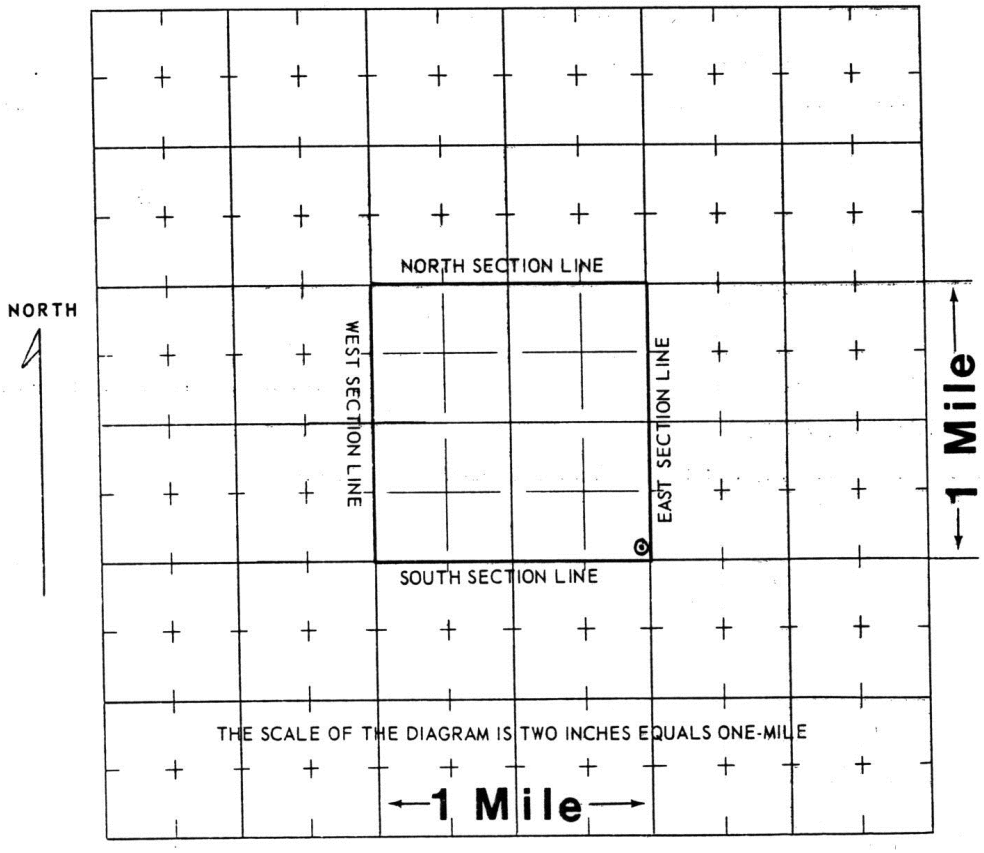
Permanent Pump installed by Colorado Drilling Company Lic. No. _____

Meter Serial No. _____ ☐ Flow Meter Date Installed _____

Owner of land on which water is being used United States of America, National Park Service

THE LOCATION OF THE WELL MUST BE SHOWN AND FOR LARGE CAPACITY IRRIGATION WELLS THE AREA ON WHICH THE WATER IS USED MUST BE SHADED OR CROSS-HATCHED ON THE DIAGRAM BELOW.

This diagram represents nine (9) sections. Use the **CENTER SQUARE** (one section) to indicate the location of the well, if possible.



WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep.
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm).
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.
100 gpm pumped continuously for one year produces 160 acre-feet.

**(WHITE AND PINK COPY TO BE FILED WITH THE STATE ENGINEER
PINK COPY WILL BE RETURNED TO OWNER)**

ROY ROMER
Governor

JERIS A. DANIELSON
State Engineer

OFFICE OF THE STATE ENGINEER
DIVISION OF WATER RESOURCES

1313 Sherman Street-Room 818
Denver, Colorado 80203
(303) 866-3581

TO: Applicant, Application Receipt No(s). 13376

Your application(s) to record and/or relocate (or deepen) an existing unregistered well(s) is being returned to you as the existence and use of the unregistered well(s) must be verified on-site by Division of Water Resource field personnel. In order to arrange for an on-site inspection, please contact the office or person listed below. Once the inspection has been made and you have made the corrections or provided the additional information indicated below, please return the application(s) to this office for completion of the evaluation process.

Division Engineers Office, Water Division 5

1429 Grand Av.
Glenwood Springs, CO

Telephone: (_____) 945-5665

COMMENTS: Indicate average annual amount of water to be diverted. "domestic" use is for single family dwellings and watering of home lawn and garden. Please justify claimed "domestic" use and irrigated acreage.

M. Mellon
Engineering Technician
Ground Water Section

cc: Division 5

05-18-1988: affidavit, owen r. williams, on behalf of the united states of america, national park service; may 18, 1988

WRJ-25-75

RECEIVED 430
MAY 18 1988
WATER RESOURCES STATE ENGINEER DMO

COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St.
Denver, Colorado 80203

TYPE OR PRINT IN BLACK INK. COPY OF ACCEPTED STATEMENT MAILED ON REQUEST.

STATE OF COLORADO
COUNTY OF Larimer } SS.

AFFIDAVIT

_____ STATEMENT OF BENEFICIAL USE OF GROUND WATER
_____ AMENDMENT OF EXISTING RECORD
__X__ LATE REGISTRATION

PERMIT NUMBER _____ LOCATION OF WELL

THE AFFIANT(S) Owen R. Williams, on behalf of the United States of America, National Park Service, whose mailing address is 301 S. Howes St., Room 335

City Fort Collins, CO 80521 (STATE) (ZIP)

County Mesa

SE ¼ of the SE ¼, Section 30

Twp. 1 S (N OR S), Rng. 1 W (E OR W), Ute P M

being duly sworn upon oath, deposes and says that he (they) is (are) the owner(s) of the well described hereon; the well is located as described above, at distances of 319 feet from the South (NORTH OR SOUTH) section line and 276 feet from the East (EAST OR WEST) section line; water from this well was first applied to a beneficial use for the purpose(s) described herein on the ____ day of _____, 19 54; the maximum sustained pumping rate of the well is _____ gallons per minute, the pumping rate claimed hereby is 15 gallons per minute; the total depth of the well is 258 feet; the average annual amount of water to be diverted is _____ acre-feet; for which claim is hereby made for domestic (exempt) _____ purpose(s); the legal description of the land on which the water from this well is used is part of the SE1/4 SE1/4 Section 30, Twp 1S, Rng 1W, Ute P.M. of which less than one acres are irrigated and which is illustrated on the map on the reverse side of this form; that this well was completed in compliance with the permit approved therefor; this statement of beneficial use of ground water is filed in compliance with law; he (they) has (have) read the statements made hereon; knows the content thereof; and that the same are true of his (their) knowledge.

(COMPLETE REVERSE SIDE OF THIS FORM)

Signature(s) O R. Williams

Subscribed and sworn to before me on this 17th day of May, 19 88

My Commission expires: 2-21-90
(SEAL)

Mary Anne Atencio
NOTARY PUBLIC

ACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO PURSUANT TO THE FOLLOWING CONDITIONS:

STATE ENGINEER BY

13376

FOR OFFICE USE ONLY

Court Case No. _____

Prior _____ Mo. ____ Day ____ Yr. ____

Div. 5 Cty. 39

Sec. ____ ____ ¼. ____ ¼. ____ ¼.

Well Use ____ ____ ____ ____

Dist. 72 Basin ____ Man. Dis. ____

Well drilled by: Colorado Water Well Co. Lic. No. 149

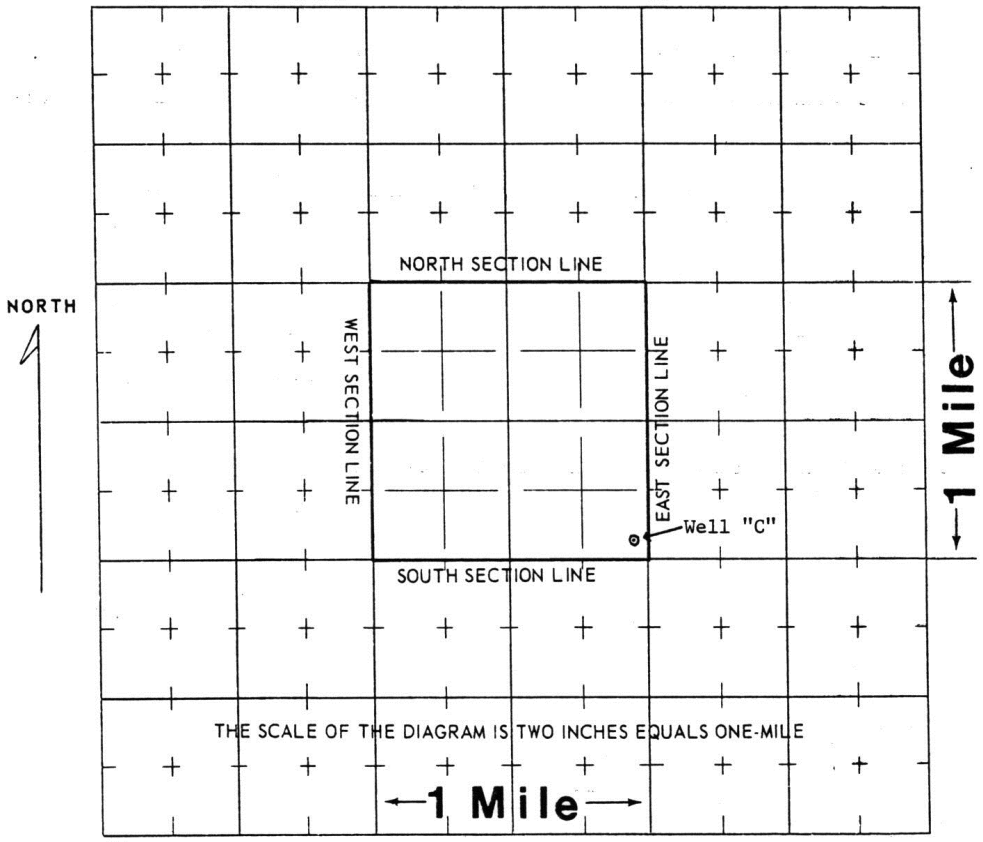
Permanent Pump installed by _____ Lic. No. _____

Meter Serial No. _____ ☐ Flow Meter Date Installed _____

Owner of land on which water is being used United States of America, National Park Service

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This diagram represents nine (9) sections. Use the **CENTER SQUARE** (one section) to indicate the location of the well, if possible.



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100 gpm pumped continuously for one year produces 160 acre-feet.

**(WHITE AND PINK COPY TO BE FILED WITH THE STATE ENGINEER
PINK COPY WILL BE RETURNED TO OWNER)**

ROY ROMER
Governor

JERIS A. DANIELSON
State Engineer

OFFICE OF THE STATE ENGINEER
DIVISION OF WATER RESOURCES

1313 Sherman Street-Room 818
Denver, Colorado 80203
(303) 866-3581

TO: Applicant, Application Receipt No(s). 13376

Your application(s) to record and/or relocate (or deepen) an existing unregistered well(s) is being returned to you as the existence and use of the unregistered well(s) must be verified on-site by Division of Water Resource field personnel. In order to arrange for an on-site inspection, please contact the office or person listed below. Once the inspection has been made and you have made the corrections or provided the additional information indicated below, please return the application(s) to this office for completion of the evaluation process.

Division Engineers Office, Water Division 5

1429 Grand Av.
Glenwood Springs, CO

Telephone: (_____) 945-5665

COMMENTS: Indicate average annual amount of water to be diverted. "domestic" use is for single family dwellings and watering of home lawn and garden. Please justify claimed "domestic" use and irrigated acreage.

M. Mellen
Engineering Technician
Ground Water Section

cc: Division 5

00-00-0000: to: applicant, application receipt no(s). 13376

ROY ROMER
Governor

JERIS A. DANIELSON
State Engineer

OFFICE OF THE STATE ENGINEER
DIVISION OF WATER RESOURCES

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COMMENTS: Indicate average annual amount of water to be diverted. "domestic" use is for single family dwellings and watering of home lawn and garden. Please justify claimed "domestic" use and irrigated acreage.

M. Mallon
Engineering Technician
Ground Water Section

cc: Division 5

05-17-1988: affidavit, owen r. williams, on behalf of the united states of america, national park service; may 17, 1988

WRJ-25-75

RECEIVED 430
MAY 18 1988
WATER RESOURCES
STATE ENGINEER
COLO

COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St.
Denver, Colorado 80203

TYPE OR PRINT IN BLACK INK. COPY OF ACCEPTED STATEMENT MAILED ON REQUEST.

STATE OF COLORADO
COUNTY OF Larimer } SS.

AFFIDAVIT

_____ STATEMENT OF BENEFICIAL USE OF GROUND WATER
_____ AMENDMENT OF EXISTING RECORD
__X__ LATE REGISTRATION

PERMIT NUMBER _____

LOCATION OF WELL

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City Fort Collins, CO 80521 (STATE) (ZIP)

County Mesa

SE ¼ of the SE ¼, Section 30

Twp. 1 S (N OR S), Rng. 1 W (E OR W), Ute P M

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(COMPLETE REVERSE SIDE OF THIS FORM)

Signature(s) O R. Williams

13376

Subscribed and sworn to before me on this 17th day of May, 19 88

My Commission expires: 2-21-90 (SEAL)

Mary Anne Atencio NOTARY PUBLIC

ACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO PURSUANT TO THE FOLLOWING CONDITIONS:

FOR OFFICE USE ONLY

Court Case No. _____

Prior. _____ Mo. _____ Day _____ Yr. _____

Div. 5 Cty. 39

Sec. _____ ¼. ¼. ¼. ¼.

Well Use _____

Dist. 72 Basin _____ Man. Dis. _____

_____ STATE ENGINEER _____ BY

Well drilled by: Colorado Water Well Co. Lic. No. 149

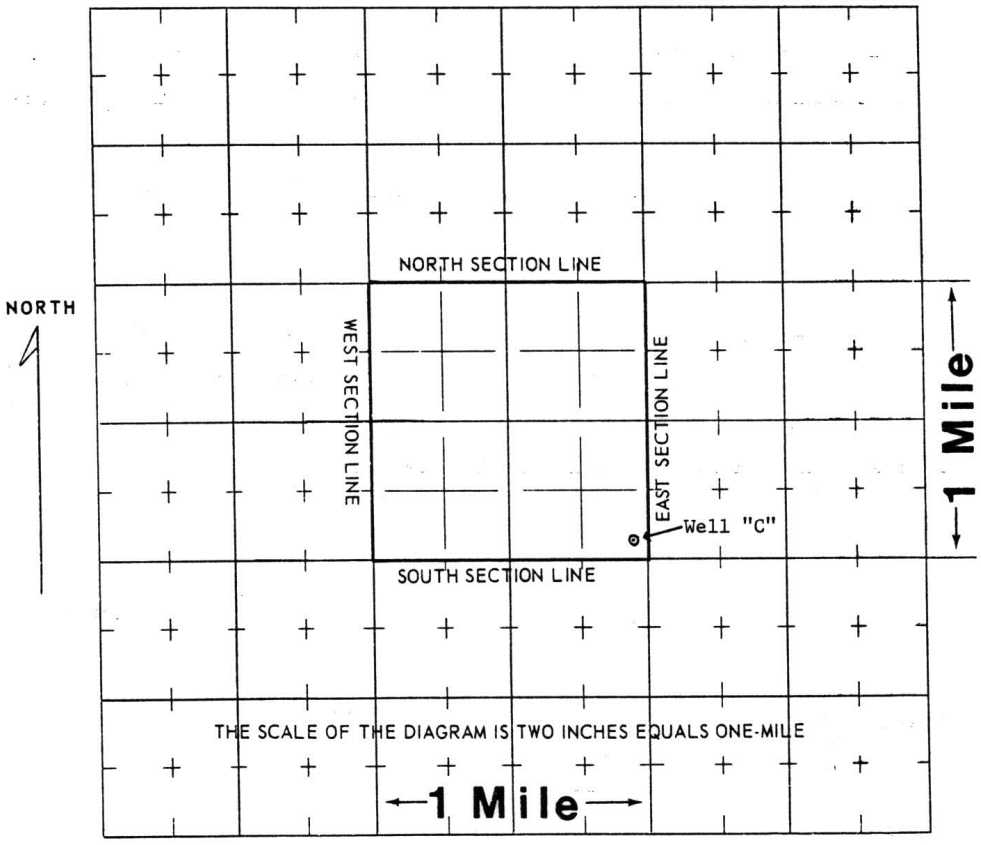
Permanent Pump installed by _____ Lic. No. _____

Meter Serial No. _____ ☐ Flow Meter Date Installed _____

Owner of land on which water is being used United States of America, National Park Service

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1,000 gpm pumped continuously for one day produces 4.42 acre-feet.
100 gpm pumped continuously for one year produces 160 acre-feet.

**(WHITE AND PINK COPY TO BE FILED WITH THE STATE ENGINEER
PINK COPY WILL BE RETURNED TO OWNER)**

05-17-1988: dear sir or madam: submitted herein are forms for late registration of well 'c' located at colorado national monument;

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:

May 17, 1988

Colorado Division of Water Resources
818 Centennial Bldg.
1313 Sherman Street
Denver, CO 80203

Dear Sir or Madam:

Submitted herein are forms for Late Registration of Well "C" located at Colorado National Monument.

The sixty dollar registration fee will be paid by government purchase order, and should arrive shortly under separate cover.

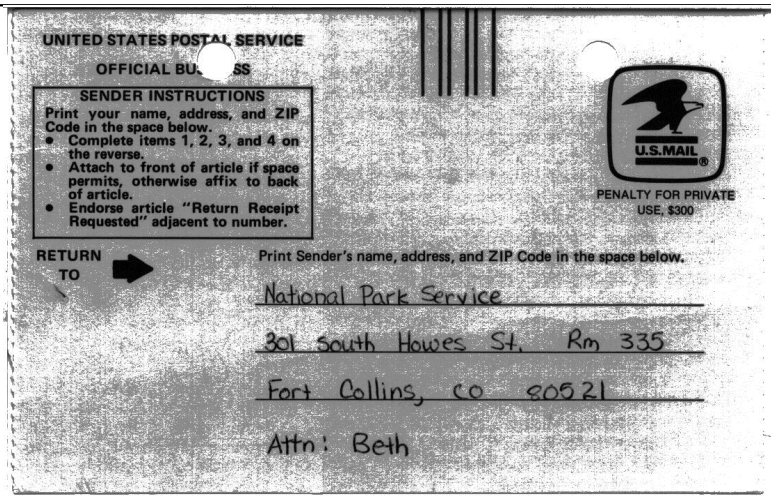
If you have any questions please contact me or Beth Voelkel of my staff at (303) 221-5341.

Thank you,

Owen R. Williams
Acting Chief, Water Rights Branch

cc: Al Cerise - Colorado Water Division 5

05-17-1988: dear sir or madam: submitted herein are forms for late registration of well 'c' located at colorado national monument;



UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

U.S.MAIL

PENALTY FOR PRIVATE USE, $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

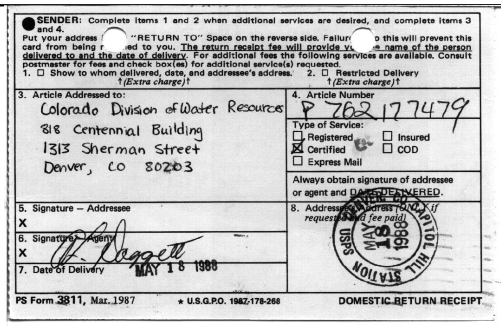
National Park Service

301 South Howes St. Rm 335

Fort Collins, CO 80521

Attn: Beth

05-17-1988: dear sir or madam: submitted herein are forms for late registration of well 'c' located at colorado national monument;



SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.
1. ☐ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery
(Extra charge) *(Extra charge)*

3. Article Addressed to:
Colorado Division of Water Resources
818 Centennial Building
1313 Sherman Street
Denver, CO 80203

4. Article Number
P 762 177 479

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X J. Doggett

7. Date of Delivery
MAY 16 1988

8. Addressee's address (ONLY if requested and fee paid)

USPS MAY 16 1988 HILL STATION

PS Form 3811, Mar. 1987 * U.S.G.P.O. 1987-178-268 DOMESTIC RETURN RECEIPT

RMR/COLM Water Rights
X COLM Docket #2

May 17, 1988

Colorado Division of Water Resources
818 Centennial Bldg.
1313 Sherman Street
Denver, CO 80203

Dear Sir or Madam:

Submitted herein are forms for Late Registration of Well "C" located at Colorado National Monument.

The sixty dollar registration fee will be paid by government purchase order, and should arrive shortly under separate cover.

If you have any questions please contact me or Beth Voelkel of my staff at (303) 221-5341.

Thank you,

Owen R. Williams
Acting Chief, Water Rights Branch

cc: Al Cerise - Colorado Water Division 5

FNP:BVoelkel:bv:5/16/88:(303)221-5341:#41

WRJ-25-75

COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St.
Denver, Colorado 80203

TYPE OR PRINT IN BLACK INK. COPY OF ACCEPTED STATEMENT MAILED ON REQUEST.

STATE OF COLORADO
COUNTY OF Larimer } SS.

AFFIDAVIT

____ STATEMENT OF BENEFICIAL USE OF GROUND WATER
____ AMENDMENT OF EXISTING RECORD
_X_ LATE REGISTRATION

PERMIT NUMBER _____

LOCATION OF WELL

THE AFFIANT(S) Owen R. Williams, on behalf of the United States of America, National Park Service, whose mailing address is 301 S. Howes St., Room 335

City Fort Collins, CO 80521 (STATE) (ZIP)

County Mesa

SE ¼ of the SE ¼, Section 30

Twp. 1 S (N OR S), Rng. 1 W (E OR W), Ute P M

being duly sworn upon oath, deposes and says that he (they) is (are) the owner(s) of the well described hereon; the well is located as described above, at distances of 319 feet from the South (NORTH OR SOUTH) section line and 276 feet from the East (EAST OR WEST) section line; water from this well was first applied to a beneficial use for the purpose(s) described herein on the ____ day of _____, 19 54; the maximum sustained pumping rate of the well is _____ gallons per minute, the pumping rate claimed hereby is 15 gallons per minute; the total depth of the well is 258 feet; the average annual amount of water to be diverted is _____ acre-feet; for which claim is hereby made for domestic (exempt) _____ purpose(s); the legal description of the land on which the water from this well is used is part of the SE1/4 SE1/4 Section 30, Twp 1S, Rng 1W, Ute P.M. of which less than one acres are irrigated and which is illustrated on the map on the reverse side of this form; that this well was completed in compliance with the permit approved therefor; this statement of beneficial use of ground water is filed in compliance with law; he (they) has (have) read the statements made hereon; knows the content thereof; and that the same are true of his (their) knowledge.

(COMPLETE REVERSE SIDE OF THIS FORM)

Signature(s) O R Williams

Subscribed and sworn to before me on this 17th day of May, 19 88

My Commission expires: 2-21-90 (SEAL)

Mary Anne Atencio
NOTARY PUBLIC

ACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO PURSUANT TO THE FOLLOWING CONDITIONS:

FOR OFFICE USE ONLY

Court Case No. _____

Prior. _____ Mo. ____ Day ____ Yr. ____

Div. _____ Cty. _____

Sec. ____ ____ ¼. ____ ¼. ____ ¼.

Well Use ____ ____ ____ ____

Dist. ____ Basin ____ Man. Dis. ____

DATE _____ STATE ENGINEER _____ BY _____

Well drilled by Colorado Water Well Co. Lic. No. 149

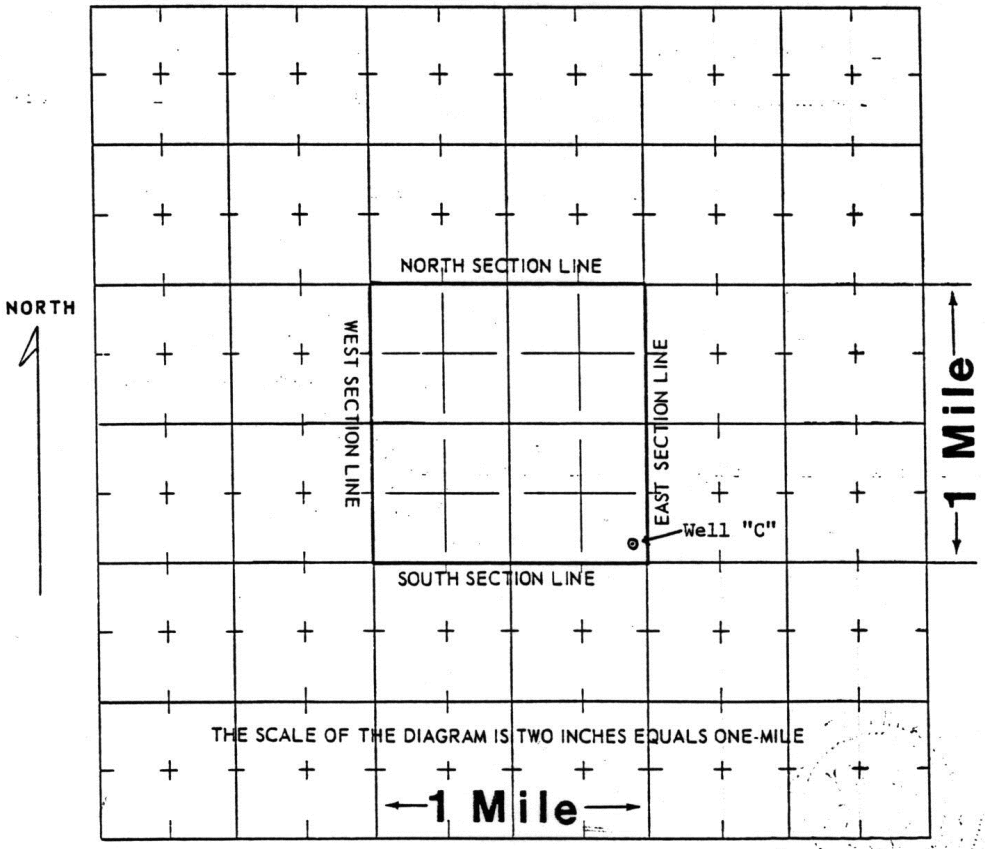
Permanent Pump installed by _____ Lic. No. _____

Meter Serial No. _____ ☐ Flow Meter Date Installed _____

Owner of land on which water is being used United States of America, National Park Service

THE LOCATION OF THE WELL MUST BE SHOWN AND FOR LARGE CAPACITY IRRIGATION WELLS THE AREA ON WHICH THE WATER IS USED MUST BE SHADED OR CROSS-HATCHED ON THE DIAGRAM BELOW.

This diagram represents nine (9) sections. Use the CENTER SQUARE (one section) to indicate the location of the well, if possible.



WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep.
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm).
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.
100 gpm pumped continuously for one year produces 160 acre-feet.

**(WHITE AND PINK COPY TO BE FILED WITH THE STATE ENGINEER
PINK COPY WILL BE RETURNED TO OWNER)**

★U.S.GPO:1987-0-775-476/65073

Form DI-1
(Rev. April 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR

Page_____ of _____

REQUISITION

Requisition No. 88-149

To Procurement & Contracts P.O. Box 25287 Denver, CO 80225	Bureau/Office Water Resources Division Ft. Collins, CO 80521 Date May 18, 1988
Appropriation/Allotment No. 1292-2004-414	Charge shipping costs to
Vendor Colorado Division of Water Resources 818 Centennial Building 1313 Sherman Street Denver, CO 80203	Deliver to Water Resources Division National Park Service 301 S. Howes St., Rm. 335 Ft. Collins, CO 80521

ITEM OR FORM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	Fee for registration of Well "C", Colorado National Monument as an "exempt domestic" well with Colorado State Engineer's office.				$60.00
	PLEASE PROCESS FOR IMMEDIATE PAYMENT				
	Mailed 5-20-88 Shari				

To Be Completed by Fiscal Authority Only

FUND CERTIFICATION: Funds in the amounts shown are available and chargeable to the cost authorities shown above.

Signature	Date	Approved by (Signature) G.R. Williams	Date 19 May 88
Title		Title Acting Chief, Water Rights Branch	
Requisitioned by (Signature) B.V. Beth Voelkel	Date 5/19/88	Bureau Officer (Signature) G.R. Williams	Date 19 May 88
Title Title Research Associate		Title Acting Chief, Water Resources Division	

Prepare in single space typing. Use double space between items. Fill out top of requisition completely, showing complete shipping instructions and appropriation if different from that to which requisition is chargeable.

RECEIVED
MAR 13 1978
DEPT. JUSTICE LANDS DIVISION
DENVER, COLO.

IN AND FOR THE STATE OF COLORADO

IN THE MATTER OF THE APPLICATION FOR WATER RIGHTS OF THE UNITED STATES OF AMERICA,	IN THE DISTRICT COURT IN AND FOR WATER DIVISION NO. 4 W-425 through W-438
IN THE MATTER OF THE APPLICATION FOR WATER RIGHTS OF THE UNITED STATES OF AMERICA,	IN THE DISTRICT COURT IN AND FOR WATER DIVISION NO. 5 W-467 and W-469
IN THE MATTER OF THE APPLICATION FOR WATER RIGHTS OF THE UNITED STATES OF AMERICA,	IN THE DISTRICT COURT IN AND FOR WATER DIVISION NO. 6 W-85 and W-86
IN THE MATTER OF THE ADJUDICATION OF PRIORITIES TO THE RIGHT TO THE USE OF WATER FOR ALL BENEFICIAL PURPOSES IN WATER DISTRICT NO. 36, IRRIGATION DIVISION NO. 5,	IN THE DISTRICT COURT IN AND FOR THE COUNTY OF SUMMIT CIVIL ACTION 2371
IN THE MATTER OF THE ADJUDICATION OF PRIORITIES TO THE RIGHT TO THE USE OF WATER FOR ALL BENEFICIAL PURPOSES IN WATER DISTRICT NO. 37, IRRIGATION DIVISION NO. 5,	IN THE DISTRICT COURT IN AND FOR THE COUNTY OF EAGLE CIVIL ACTION 1529
IN THE MATTER OF THE ADJUDICATION OF PRIORITIES TO THE RIGHT TO THE USE OF WATER FOR ALL BENEFICIAL PURPOSES IN WATER DISTRICT NO. 51, IRRIGATION DIVISION NO. 5,	IN THE DISTRICT COURT IN AND FOR THE COUNTY OF GRAND CIVIL ACTION 1763
IN THE MATTER OF THE ADJUDICATION OF PRIORITIES TO THE RIGHT TO THE USE OF WATER FOR ALL BENEFICIAL PURPOSES IN WATER DISTRICT NO. 52, IRRIGATION DIVISION NO. 5	IN THE DISTRICT COURT IN AND FOR THE COUNTY OF EAGLE CIVIL ACTION 1548

FINDINGS, CONCLUSIONS AND ORDER OF THE COURT

WITH REFERENCE TO THE PARTIAL MASTER-REFEREE'S

REPORT COVERING ALL OF THE CLAIMS OF THE

UNITED STATES OF AMERICA

AND THE PROPOSED INTERLOCUTORY DECREE

without more, had been held by the Colorado Supreme Court to constitute an appropriation prior to 1973. Each use sought by the United States requires removal or diversion from the natural course of the stream. (See pages 496 to 509 of the P.R.)

The second issue is whether the United States is entitled to it "true" date of priority for all of the appropriative rights claimed. The Master-Referee noted that, while antedation is not permissible under Colorado law, there are exceptions to this rule, such as (1) for wells filed prior to 1972, filed under 37-92-306 C.R.S. 1973, (2) for "exempt wells", filed under 37-92-602 C.R.S. 1973, and (3) for water rights for nonirrigation purposes (these were first made eligible for adjudication by a 1903 statute), which were permitted to obtain their "true" date during the first adjudication after the statute was enacted. Additionally, the United States was immune to joinder in a state water adjudication until the enactment of the McCarran Amendment in 1952; and it was not joined in an adjudication in Colorado until 1967 when it was joined in this litigation. Therefore, to fail to grant the United States its "true" date of priority would subject it to numerous decrees granted in its "lawful" absence. For these reasons the Master-Referee concluded that the United States is entitled to its true date of priority for its appropriative claims. (See pages 509 to 518 of the P.R.)

IN THE DISTRICT COURT IN AND FOR

WATER DIVISION NO. 5

STATE OF COLORADO

CASE NO. W-

IN THE MATTER OF THE APPLICATION FOR WATER RIGHTS OF THE UNITED STATES OF AMERICA IN MESA COUNTY	))))	APPLICATION FOR UNDERGROUND WATER RIGHT (WELL)

1. Name of applicant: United States of America

   Address of applicant: c/o Kenneth J. Burke
   Department of Justice
   Land and Natural Resources Division
   P. O. Box 1656
   Denver, Colorado 80201

2. Legal description of location of well: A point within the SE¼ of the SE¼ of Section 30, T. 1 S., R. 1 W. of the ~~6th P.M.,~~ ute PM. located within the boundaries of Colorado National Monument, as indicated on the attached map and known as Well "C".

3. Depth of well: 258 feet.

4. Date of initiation of appropriation: 1954.

5. Amount of water claimed in cubic feet per second of time: .033 c.f.s.

6. Proposed use of water: Domestic and public use and fire protection.

7. The United States seeks to antedate the adjudication dates of earlier decrees insofar as they, in conjunction with applicable statutes, appear or purport to preclude this court from awarding to the United States its water rights bearing their true priority dates.

_____
Attorney for Applicant

State of Colorado)
County of Mesa) ss

being first duly sworn upon oath, deposes and says that he has read the foregoing application, knows the contents thereof and that the same are true.

_____

Subscribed and sworn to before me this _____ day of _____, 19_____.

My commission expires _____

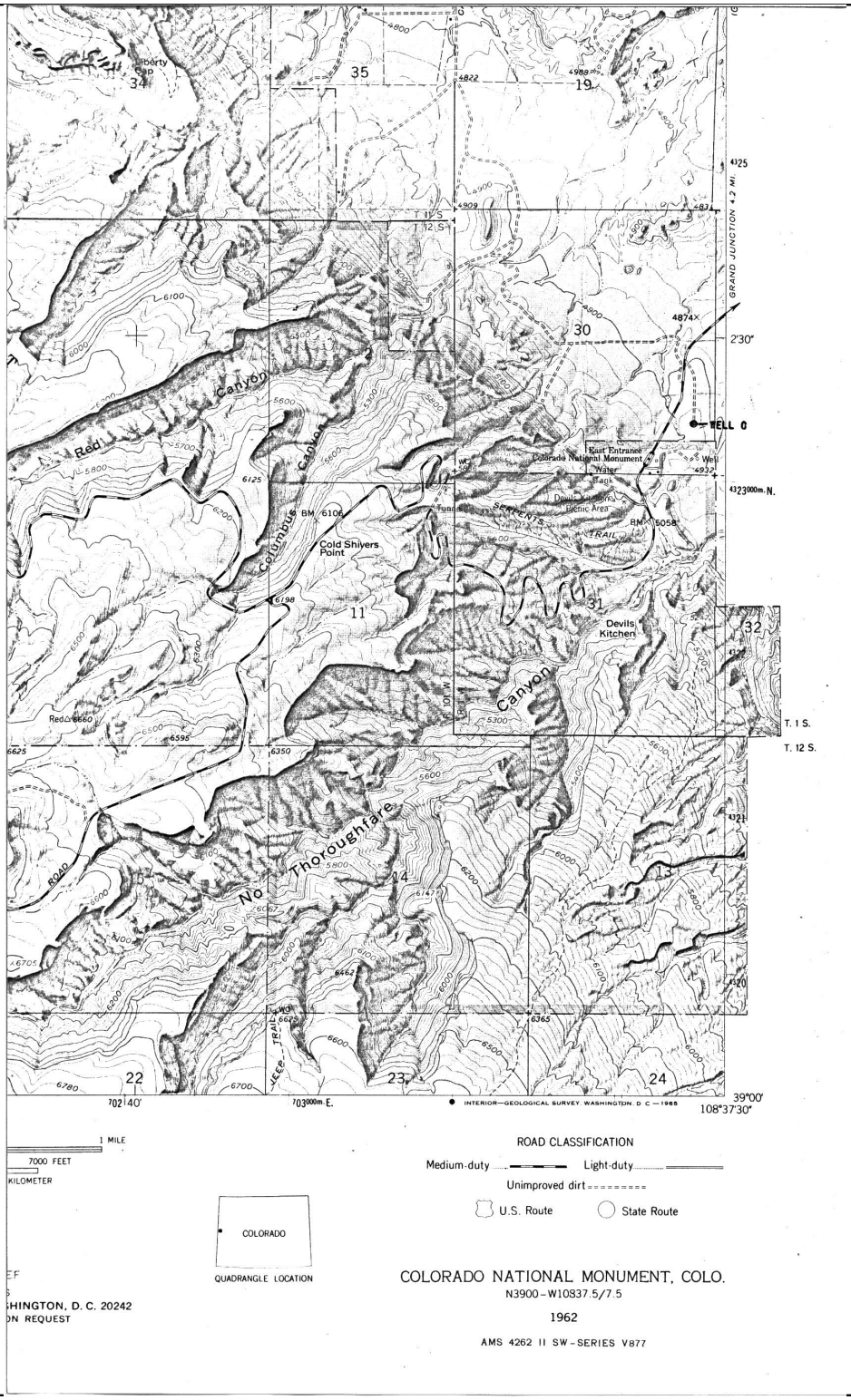
_____
Notary Public

James L. Treece
United States Attorney

By: Kenneth J. Burke
Trial Attorney
Department of Justice
P. O. Box 1656
Denver, Colorado 80201

(303) 837-4961

00-00-0000: map; 1965



LEGAL NOTICES

NOTICE

IN THE DISTRICT COURT IN AND FOR THE COUNTY OF MESA AND STATE OF COLORADO
Civil Action No. 8303

In the Matter of the Application of Erwine H. Stewart for a Supplemental Adjudication Proceeding to Fix the Priorities of Water Rights in the Whole of Water District No. 42, Mesa County, Colorado, for All Beneficial Purposes.

TO: ALL OWNERS AND CLAIMANTS OF ANY WATER RIGHTS IN WATER DISTRICT No. 42, MESA COUNTY, COLORADO, EXCEPT OWNERS AND CLAIMANTS OF WATER RIGHTS WHICH HAVE ALREADY BEEN ADJUDICATED IN SAID WATER DISTRICT, AND TO ALL WATER USERS WITHIN SAID WATER DISTRICT:

You are hereby notified that a Supplemental Adjudication Proceeding to fix the priorities of unadjudicated water rights in Water District No. 42, said County and State, for all beneficial purposes, has been initiated in said Court; that the time and place fixed for beginning the taking of evidence in such proceeding is Monday, the 31st day of March, 1952, in the District Court Room in said County and State; that all such owners and claimants of such unadjudicated water rights must file in said Court a statement of claim to such water rights before they may introduce evidence concerning same; that they are further hereby notified to attend at said time and place for the taking of evidence in regard to all such unadjudicated water rights so owned or claimed by them, and that all water users within said Water District are hereby notified to be present at said time and place appointed for beginning the taking of evidence in case they wish to resist a claim which may be made for any water right in said proceeding.

Witness my hand and seal this 2nd day of February, 1952.

(SEAL)

LUCY E. HOGAN,
Clerk of Said Court.

First Pub. Feb 5, 1952.
Last Pub. March 4, 1952.

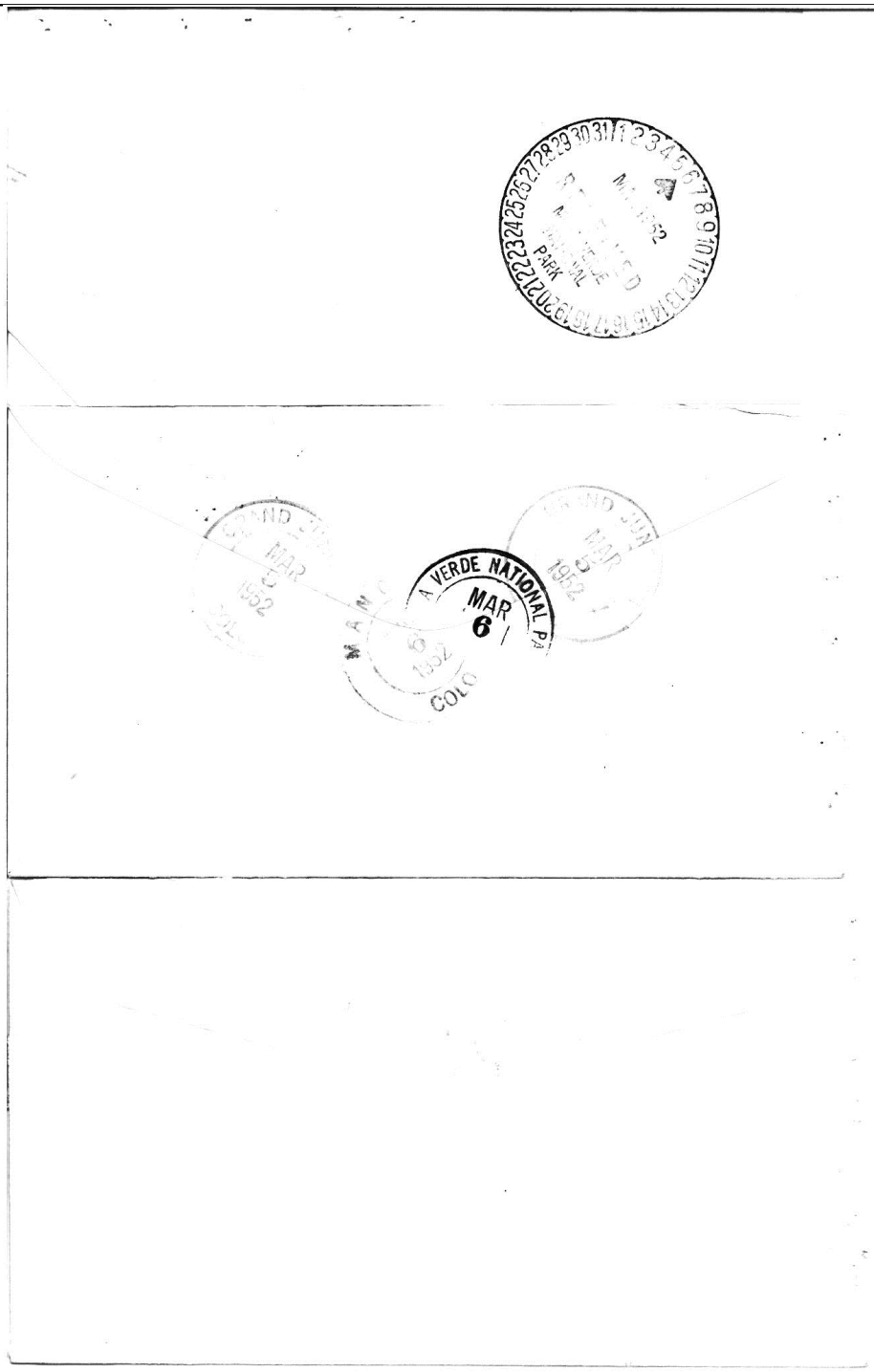
LUCY E. HOGAN
CLERK DISTRICT COURT
MESA COUNTY
GRAND JUNCTION, COLO.

18 585

U. S. National Park Service
Mancos M. V. N. P.
Colorado

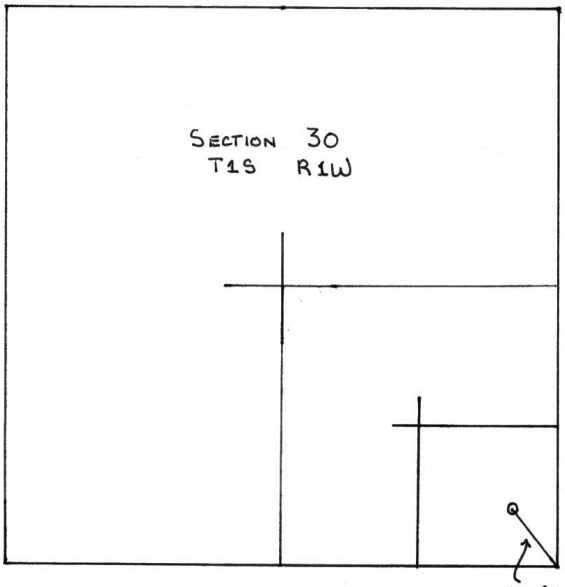
COLORADO A & M COLLEGE
OFFICE OF STUDENT AFFAIRS
PLACEMENT BUREAU
FORT COLLINS, COLORADO

Mr. Harvey H. Cornell
Assistant Regional Director
United States Department of the Interior
National Park Service
Santa Fe, New Mexico



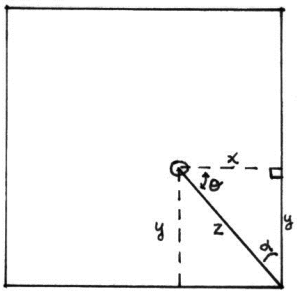
Supporting Hydro Data

5/4/88



Well is located
276' from east
section line
319' from south
section line

(If 2" = 1 ft
then 1.7 sixteenths
from east section line
and 1.9 sixteenths from
south section line.)



Given:

$\alpha = 40°52' = 40.8667°$

$z = 421.8$ feet

Then:

$\theta = 90 - 40.8667 = 49.1333°$

Sine Rule:

$$\frac{z}{\sin 90} = \frac{x}{\sin \alpha} = \frac{y}{\sin \theta}$$

$$421.8 = \frac{x}{0.6543} = \frac{y}{0.7562}$$

Therefore:

$x = 276'$

$y = 319'$

Check:

$z = \sqrt{(276)^2 + (319)^2}$

$= 421.8$ OK

NARRATIVE STATEMENT

Project 119- 03X40 24002

TEST WELL

Description:

Test Well drilled to a depth of 303' and 7" and 5" casing installed at Colorado National Monument near East Entrance.

Authorization:

Work Order No. 119 - 03X40 24002 Drill a Test Well Colorado National Monument.

Specifications:

The specifications were prepared by the National Park Service personnel at Midwest Region Office.

Project Activity:

Contract No. 2920 - B2 - 0010 was awarded to Colorado Drilling Company who submitted the low bid of the three received. The unit price bid for Item 1, which consisted of drilling hole to 188 L.F. to receive 7" diameter casing 2" grout ring, install at $7.00 L.F. for a total of $1,316.00, Item 2, which consisted of drilling hole 188' to 300' to receive 5" perforated casing, install at $7.00 L.F. for a total of $784.00, Item 3 which consisted of installing and removing temporary casing at $120.00 for a total of $120.00, Item 4, which consisted of Pump test for yield, drawdown and recovery, install pipe-level measure for 16 hours at $10.00 per hour for a total of $160.00, Item 5, which consisted of developing wells by surging for 8 hours at $10.00 per hour for a total of $80.00, Item 6 which consisted of standby time for crew and equipment for 8 hours at $10.00 per hour for a total of $80.00, Item 7 which consisted of abandonment of test hole at $150.00 for a total of $150.00, Item 8 which consisted of installing a permanent turbine well pump furnished by Government at $120.00 for a total of $120.00 for a total of all items of $2,930.00. Change Order No. 2 authorized moving of test well site at $150.00 as provided by Item 7 this makes a total of $3,080.00. The contract was awarded on April 4, 1972 and the contract was accepted on May 26, 1972.

Work Accomplished:

The contract wasawarded for drilling of a test well as per bid items listed in above project activity to a depth of 303' with 7" and 5" casing installed

07-19-1972: memorandum, chemical analysis of water from the new well at colorado; july 19, 1972

L54(MWR)PSW
COLM/USGS

July 19, 1972

Memorandum

To: Office of Natural Science Studies, WASO
Attention: Chief, Division of Water Resources

From: Supervisory Hydraulic Engineer, MWR

Subject: Chemical analysis of water from the new well at Colorado NM

Enclosed is the water quality analysis for the new well at the East Entrance of Colorado National Monument and Mr. Moulder's letter of transmittal. The sample was analyzed by the Water Resources Division, Central Quality Water Laboratory, Salt Lake City, Utah. The well has been coded and the results placed into permanent Water Resources Division Data Storage Files. The printout indicates that this is a computer system, the data of which is probably retreivable on demand. This type of data is only needed on rare occasions and the use of their system might be valuable to the National Park Service.

(Sgd.) Richard W. Ketcham

Richard W. Ketcham

Enclosures

cc:
DSC-TMW
Supt., Curecanti NRA
Attn: Mr Herne
MWR-PSN

RWKetcham:sg 7/18/72

07-12-1972: letter to mr. ketcham, we promised to conclude the well site investigation; july 12, 1972

United States Department of the Interior

GEOLOGICAL SURVEY
Denver Federal Center
Denver, Colorado 80225

IN REPLY REFER TO:

Water Resources Division

July 12, 1972

Mr. Richard W. Ketcham
U.S. Department of the Interior
National Park Service
1709 Jackson Street
Omaha, Nebraska 68102

Dear Mr. Ketcham:

In our letter of June 5, 1972, we promised to conclude the well site investigation at the Colorado National Monument by sending the chemical analysis of water from the well. We are hereby transmitting that analysis which shows the water to be good quality. All constituents and properties analyzed are within the limits specified by the U.S. Public Health Service. You will note that the analyses are shown both in milligrams per liter and micrograms per liter. Micrograms are approximately equivalent to parts per billion and milligrams are approximately equivalent to parts per million.

I talked with Mr. Herne today regarding current performance of the well. His reply indicated performance was satisfactory but that the pump would be lowered toward the bottom of the well in accord with our initial recommendations. Lowering the pump will increase the yield.

Sincerely,

E. A. Moulder

E. A. Moulder
District Chief

Enclosures

cc: Acting Regional Hydrologist, WRD, Central Region
Mr. S. W. Lohman
Mr. Donald K. Herne

07-21-1972: Memo from NPS region to NPS Water Resources re: water quality analysis for docket #1 (east entrance)

RECEIVED
JUL 24 1972
CURECANTI, COLORADO
AND BLACK CANYON

KTG 7/24
Wintch KJW 7/24
Herne [illegible] 7/25

L54(MWR)PSV
COLM/WR#1

July 21, 1972

Memorandum

To: Office of Natural Science Studies, WASO
Attention: Chief, Division of Water Resources

From: Supervisory Hydraulic Engineer, MWR

Subject: Water Right Docket #1, East Entrance to Colorado NM

Enclosed is Water Right Docket #1, East Entrance to Colorado National Monument for your files. The well was completed May 26, and a water quality analysis is included. Please add our letter of June 14, 1972, and the attached letter report and well test.

Additional information will be forwarded as it becomes available.

(Sgd.) Richard W. Ketcham

Richard W. Ketcham

Enclosure

cc:
Supt., Curecanti NRA

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WRD CE..RAL QW LAB, SALT LAKE CIT.. UTAH

WATER QUALITY ANALYSIS DATE 720626

STATION ID
390210108374000 WELL UC001-001-30DDD

STATE CODE LOCATION	COUNTY CODE	PROJECT CODE	AGENCY CODE	MAILING ADDRESS
08	077	30S		DENVER, COLO.

BEGIN DATE	END DATE	TIME	TYPE	NO. OF DETR	SAMPLE ID.	RECORD NO.	SOURCE
720530		1120	2	27	161018	15840	GROUND WATER

YIELD 11 GPM, FIELD COND 540, PH 7.0

ARSENIC DISSOLVED	UG/L	0	CONDUCTIVITY		503
IRON DISS (AS FE)	UG/L	40	MANGANESE DISSOLVED	UG/L	40
PH		7.9	SILICA	MG/L	13
WATER TEMP (DEG C)		18.0	SELENIUM DISSOLVED	UG/L	4
PHOS DISORTHO (AS P)	MG/L	0.00	PHOSPHATE DISSORTHO	MG/L	0.00
ALK,TOT (AS CACO3)	MG/L	155	TOTAL HARDNESS	MG/L	130
NONCARB HARDNESS	MG/L	0	SAR		2.2
PERCENT SODIUM		47	CALC DISSOLVED SOLID	MG/L	326
DIS SOLIDS(TON/AFT)		0.44			

MAJOR IONS

CATIONS (MG/L)		ANIONS (MG/L)	
CALCIUM DISS.	37	BICARBONATE	189
MAGNESIUM DISS.	10	CARBONATE	0
POTASSIUM	5.8	CHLORIDE	13
SODIUM	58	FLOURIDE DISS.	0.4
		SULFATE	96
		NO2+NO3 AS N	0.03

CORRECTIONS SHOULD BE SUBMITTED TO THE WRD CENTRAL LAB,
SALT LAKE CITY UTAH, WITHIN 15 DAYS OF THE DATE OF THE
ANALYSIS. INDICATE SAMPLE IDENTIFICATION NO. AND THE RECORD
NO. WITH RESPONSE.

THIS DATA HAS RECEIVED CENTRAL LABORATORY QUALITY CONTROL CHECKS AND HAS
BEEN PLACED INTO PERMANENT WRD DATA STORAGE FILES.

	CATIONS (MEQ/L)	ANIONS (MEQ/L)
	1.847	3.098
	0.823	0.000
	0.149	0.367
	2.523	0.022
		1.999
		0.003
TOTALS	5.3402	5.4864

PERCENT DIFFERENCE = -1.35

COST = 48.72
SUM OF THE COST FACTORS = 1.6800
COST WGT FACTOR = 1.00
STANDARD ANALYSIS COST = 29.00

LS4(NWR)PSW
COLM/CONT

June 14, 1972

Memorandum

To: Office of Natural Science Studies, WASO
Attention: Chief, Division of Water Resources

From: Supervisory Hydraulic Engineer, NWR

Subject: Well test at Colorado NM, Contract No. 2920-B2-0010

Enclosed is a copy of a letter report we received from the U.S. Geological Survey at Denver, Colorado concerning the subject well test. The yield and quality is satisfactory for the use at this site. We have contacted Chief of Maintenance Donald Herne at Curecanti NRA and he is satisfied with the project.

Funds for the installation of a small chlorinating unit, removing and installing the existing 5hp pump, backfilling the old well and making the connection to the existing system have been requested from B & U reserves in this office. The cost of this additional work is estimated at $1,500.00. This will complete the project.

(Sgd.) Richard W. Ketcham

Richard W. Ketcham

Enclosure

cc:
Supt., Curecanti NRA
NWR-PS Mr Reid

RWKetcham:sg

Rec'd

United States Department of the Interior

GEOLOGICAL SURVEY
Denver Federal Center
Denver, Colorado 80225

IN REPLY REFER TO:

Water Resources Division

June 5, 1972

Mr. Richard W. Ketcham
Supervisory Hydraulic Engineer
U.S. National Park Service
1709 Jackson Street
Omaha, Nebraska 68102

Dear Mr. Ketcham:

The new well at the Colorado National Monument was tested May 30, 1972, by personnel from our office. We are enclosing preliminary results of the test for your immediate use in equipping the well with a pump. Additional analyses of the test, including results of a water-quality analysis of samples, will be sent later.

The well was pumped for five hours at an average rate of 11 gpm. The type of pump and access to the well prevented measurements of drawdown and pumping level. However measurements of recovery of the water level were obtained after the pump was turned off. These measurements and performance of the well suggest that the well should yield 15 gpm under sustained pumping and might be pumped at rates up to 20 gpm for short periods of time. To obtain these kinds of yields, the pump should be set within a few feet of the bottom of the well.

Preliminary analysis of the water shows it to be good. The specific conductance range from 420 to 690. The pH was 7.0 and hardness was 10 grains per gallon or about 170 mg/1.

If you or Mr. Herne have specific questions before receiving our more complete report, please feel free to call.

Sincerely,

E. A. Moulder

E. A. Moulder
District Chief

cc: Mr. Donald K. Herne, Montrose, Colorado
Mr. S. W. Lohman

RKR
Contract File

IN THE MATER OF CHANGE ORDER NO. 2)	
RELATING TO THE ABANDONMENT OF TEST)	FINDINGS OF FACT
HOLE AT THE DIRECTION OF THE GOVERN-)	BY THE
MENT AND RELOCATION TO SITE MUTUALLY)	PROJECT SUPERVISOR
AGREED UPON BY CONTRACTOR AND PROJECT)	
SUPERVISOR.)	

1. This findings of fact is issued pursuant to Section I, Construction Provision 1.07; Article 2 of the General Provisions (Supply Contract), and Article 5, General Provisions (Service Contract) of Contract No. 2920-82-0010.

2. On April 26, the contractor advised the Project Supervisor, Donald K. Herne, that he had reached a strata of boulders that was causing difficulties in the drilling operation.

3. Mr. Herne visited the site and determined that if the drilling continued it would result in a hole that would not be true and would make the installation of the casing and pump almost impossible.

4. Mr. Herne talked to Mr. Stan Lohman of the U. S. G. S. and he agreed that the drill site should be relocated.

5. The contractor was verbally advised to abandon the hole and relocate at a site mutually agreed upon by the contractor and Mr. Herne on April 26, 1972.

6. Inasmuch as the contractor was directed by the Project Supervisor to abandon drilling at the first site and to relocate the drilling operations at a new site, it is hereby determined to pay him the unit price specified under Item 7 of the bid schedule and to allow an extension in the time for completion based on the work expended during the period April 19, 1972 to April 26, 1972. In considering the above it is hereby determined to extend the time for completion an additional eight (8) calendar days which results in a completion date of May 26, 1972.

DONALD K. HERNE

Donald K. Herne
Project Supervisor

Orig. MWR Finance
CC: MWR Procurement
√Ketcham, MWR
Project Supervisor

WRD Exp. (GW)
April 1966

Well No. UC-001-001-30 DDD

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR — GEOLOGICAL SURVEY — WATER RESOURCES DIVISION

MASTER CARD

Record by W. W. Wilson Source of data Driller & Obsr Date 5/30/72 Map USGS Prof. Paper 451

State Colorado County (or town) Mesa

Latitude: 39 02 10 N (deg 7 min 9 sec 11) Longitude: 108 37 40 (12 degrees 15 min sec 18) Sequential number:

Lat-long accuracy: 3 (20) T. 1 S R 1 W Sec 30, SE ¼, SE ¼, SE ¼ Ute P.M. B & M

Local well number: UC001001301 DDD (21–34) Other number:

Local use: (35–51) Owner or name: Natl. Park Service

Owner or name: (52–66) Address:

Ownership: (C) County, (F) Fed Gov't, (M) City, Corp or Co, (N) (P) Private, (S) State Agency, (W) Water Dist — 67: F

Use of water: (A) Air cond, (B) Bottling, (C) Comm, (D) Dewater, (E) Power, (F) Fire, (H) Dom, (I) Irr, (M) Med, (N) Ind, (P) P S, (R) Rec, (S) Stock, (T) Instit, (U) Unused, (V) Repressure, (W) Recharge, (X) Desal-P S, (Y) Desal-other, (Z) Other — 68: P

Use of well: (A) Anode, (D) Drain, (G) Seismic, (H) Heat Res, (O) Obs, (P) Oil-gas, (R) Recharge, (T) Test, (U) Unused, (W) Withdraw, (X) Waste, (Z) Destroyed — 69: W

DATA AVAILABLE: Well data (70) Freq. W/L meas.: (71) Field aquifer char. 72

Hyd. lab. data: 73

Qual. water data; type: 74

Freq. sampling: (75) Pumpage inventory: yes / no, period: 76

Aperture cards: yes 77

Log data: (78–79)

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD (1–19) Depth well: ft (20–23) Meas. rept accuracy 24

Depth cased (first perf.): ft (25–28) Casing type: ; Diam. in (29–30)

Finish: (C) porous concrete, (F) gravel w. (perf.), (G) gravel w. (screen), (H) horiz. gallery, (O) open end, (P) perf., (S) screen, (T) sd. pt., (W) shored, (X) open hole, (Z) other — 31: P

Method Drilled: (A) air rot, (B) bored, (C) cable, (D) dug, (H) hyd rot, (J) jetted, (P) air percussion, (R) reverse rotary, (T) trenching, (V) driven, (W) drive wash, (Z) other — 32: H

Date Drilled: May 24, 1972 (33–35) Pump intake setting: ft (36–38)

Driller: Donald Carns (name), 2424 No. 12th, Grand Junction, Colo. (address)

Colo. Drlg Co. #407

Lift (type): (A) air, (B) bucket, (C) cent, (J) jet, (L) multiple (cent.), (M) multiple (turb.), (N) none, (P) piston, (R) rot, (S) submerg, (T) turb, (Z) other — 39: A; Deep/Shallow 40: D

Power (type): diesel, elec, gas, (gasoline), nat, LP, hand, gas, wind; H.P. (41) Trans. or meter no.

Descrip. MP Top 7" ID Casing 1.2 ft (above) below LSD. Alt. MP

Alt. LSD: (42–43) Accuracy (source): 47

Water Level 28.56 ft (above) below MP; Ft above below LSD (48–51) Accuracy: Steel Tape 52

Date meas: 5/30.72 (53–55) Yield: gpm (56–60) Method determined 61

Drawdown: ft (62–64) Accuracy: (65) Pumping period 5 hrs. hrs (66–68)

QUALITY OF WATER DATA: Iron ppm (69) Sulfate ppm (70) Chloride ppm (71) Hard. ppm 72

Sp. Conduct K x 10^6 (73) Temp. °F (74–76) Date sampled (77–79)

Taste, color, etc.

Well No.

Well No. UC-001-001-30 DDD

Latitude-longitude N S d m s d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD [1–19] Physiographic Province: [20–21] Section:

[22] Drainage Basin: [23–25] Subbasin: [26]

Topo of well site: (D) depression, (C) stream channel, (E) dunes, (F) flat, (H) hilltop, (K) sink, (L) swamp, (Ø) offshore, (P) pediment, (S) hillside, (T) terrace, (U) undulating, (V) valley flat [27]

MAJOR AQUIFER: system, series [28–29] aquifer, formation, group [30–31]

Lithology: [32–33] Origin: [34] Aquifer Thickness: ft

[35–37] Length of well open to: ft [38–40] Depth to top of: ft [41–43]

MINOR AQUIFER: system, series [44–45] aquifer, formation, group [46–47]

Lithology: [48–49] Origin: [50] Aquifer Thickness: ft

[51–53] Length of well open to: ft [54–56] Depth to top of: ft [57–59]

Intervals Screened:

Depth to consolidated rock: ft [60–62] Source of data: [64]

Depth to basement: ft [65–68] Source of data: [69]

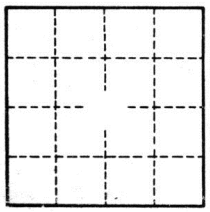
Surficial material: [70–71] Infiltration characteristics: [72]

Coefficient Trans: gpd/ft [73–75] Coefficient Storage: [76–78]

Coefficient Perm: gpd/ft^2; Spec cap: gpm/ft; Number of geologic cards: [79]

7" ID casing to 174 ft.

↳ 5" ID Casing 174 - 302 ft.
(Top 20', Ctr 20', bottom 20 ft torch cut slots)



Well No.

Size of hole in Entrada = 6 7/8"

Hit Entrada @ 170'

Grouted (31 sacks) to 174'

Tape meas. 30.00 − 1.44 = 28.56' static water level

M. Scope 30.00 − 1.35 = 28.65' " " "

GPO 857-700

D52 MMR(ANRM)

April 4, 1972

NOTICE OF AWARD

CONTRACT NO. 2920-B2-0010

Colorado Drilling Company
2424 North 12th Street
Grand Junction, Colorado

Gentlemen:

We are pleased to notify you that your proposal, submitted in response to our Invitation for Bids for Drilling a test well located in Colorado National Monument, Colorado, has been accepted in the amount of $2,930.00.

In accordance with the General Provisions of your contract, you are advised that Maintenance Supervisor Donald K. Herne is hereby designated as the Contracting Officer's authorized representative for general administrative supervision of the above referenced contract. Any arrangements or agreements made with regard to the administration and execution of this contract, with persons other than those named in this letter, will not necessarily be considered binding upon the Government.

The designee will be responsible and will act on behalf of the Contracting Officer on all matters of contract administration, except that approval of the changes in the work that will result in adjustments in costs to the Government and/or in contract time and approval of monthly payment estimates, is reserved unto the Contracting Officer. Only the Contracting Officer may approve changes in the work that result in adjustments in cost to the Government and/or in contract time.

Maintenance Supervisor Donald K. Herne will issue the Notice to Proceed and the Notice of Beginning Date.

Yours very truly,

Joe H. Riha
General Supply Officer and
Contracting Officer

Enclosure

cc: Finance w/cy of contract
Supt. CURE w/cy of contract
Don Herne " " "
Dick Ketcham " " "

S E C T I O N I

CONSTRUCTION PROVISIONS

1.00 COMMENCEMENT, PROSECUTION, AND COMPLETION: The Contractor shall commence the construction work under this contract within 15 (fifteen) days after the date of receipt of notification to proceed. He shall prosecute the work with faithfulness and energy, and in a neat and orderly manner so as to complete the entire work under this contract within 30 (thirty) calendar days after the date of notification to proceed.

1.01 PROPOSED WORK: The successful bidder shall furnish all labor, materials, and equipment to drill, ream, case, sample, grout, test and install pump at Colorado National Monument.

1.02 LOCATION: Exact spot to be drilled will be staked by the Government near the East Entrance of the Monument.

1.03 LOCAL GEOLOGY: The area is generally covered with an overburden from 44 feet of quaternary deposits, 133 feet of shale and some sandstone, then 123 feet of water barring Entrada Sandstone.

1.04 SUGGESTED SEQUENCE OF OPERATIONS:

a) Drill test hole.

b) Install 6 inch blank casing, perforated casing and 2-inch grout ring.

c) Develop test well.

d) Test pump well for yield, drawdown, and recovery.

e) Install permanent pump.

1.05 PROSECUTION OF WORK:

a) Drill 6 inch, 10 inch test hole to an estimated depth of 300 feet at the East Entrance.

b) Install new 6-inch (inside diameter) black steel threaded coupling pipe. Minimum weight with coupling 19.18 pounds per foot. Pipe to be centered in bore with spacers.

Perforated casing shall be perforated at such points in such a manner as directed by the Contracting Officer. The total length of casing to be perforated will be within the limits specified or as determined by the Contracting Officer. Perforated pipe shall not have more than ten percent open space area. Drilled holes or sawed slots are preferred. Punched holes cut by machine or burned by torch may be permitted if approved by the Contracting Officer. Openings must be evenly spaced, of uniform size, and free from jagged edges and other irregularities. Whenever feasible, pipe perforations will be based on actual mechanical analysis of the aquifer material.

Grout formula: 1 bag of fresh cement to 5 gallons of water.

Grout to be applied in one continuous operation by a pressure method. Minimum thickness of grout to be two inches around casing. No work in the well shall take place for 48 hours after grouting.

c) Develop well with a surge plunger, or with air. Estimated development time - 4 hours.

d) Test for yield, drawdown, and recovery with a submersible pump and all equipment necessary (power generator, discharge pipe, etc.). The permanent pump furnished by the Government and installed by the Contractor may be used for this test. Submersible pump must be capable of delivering up to 50 g.p.m. A valve shall be installed on the discharge line so that the rate of pumping can be varied as directed by the Government Representative. Install rigid 1-inch plastic pipe in well to within 10 feet of bottom of well.

Assist Government Representative in measuring flow of water for the entire drawdown period.

Pumping depth to be within 20 feet of the bottom of the well.

1.06 DISINFECTION: Casing to be swabbed to remove oil, grease, or joint dope and disinfected with a chlorine solution.

Minimum strength of chlorine solution 50 parts per million in the entire well and shall remain in the well for a minimum period of 10 hours.

1.07 ABANDONED WELL:

a) If the Contractor voluntarily stops work before a well is drilled to the depth ordered by the Government Representative, it will be rejected by the Government Representative and abandoned. No payment will be made for work or material furnished in connection with any such abandoned well. The Contractor shall proceed to drill a well in place thereof at an alternate location selected by the Government Representative. Payment for work and materials furnished in connection with such alternate well will be made in accordance with these specifications. Any abandoned well shall be treated in the following manner:

1) The casing assembly, if installed, shall be removed if possible.

2) If the entire length of casing cannot be removed, the upper 5 feet of casing shall be cut off and removed at no cost to the Government.

3) Abandoned hole(s) shall be backfilled with either clay or grout.

b) Work performed and material furnished in connection with any well which is abandoned at the direction of the Government Representative because of stratigraphy or for the convenience or benefit of the Government will be paid for at the unit price bid for applicable items of work under the schedule. Any well abandoned for reasons set forth in this subparagraph shall be backfilled in accordance with the procedures set forth in sub-paragraph a), of this paragraph.

1.08 STANDBY TIME: The Contractor is permitted to include standby time for his crew and drilling equipment while the Government Representative makes any special tests or performs other experimental work. Standby time is not to exceed 8 hours per day during a regular schedule work day.

1.09 CLEANUP: Upon completion of the work, including the area of abandoned wells, the Contractor shall remove his equipment at his expense, clean and restore the construction site to the acceptance of the Government Representative.

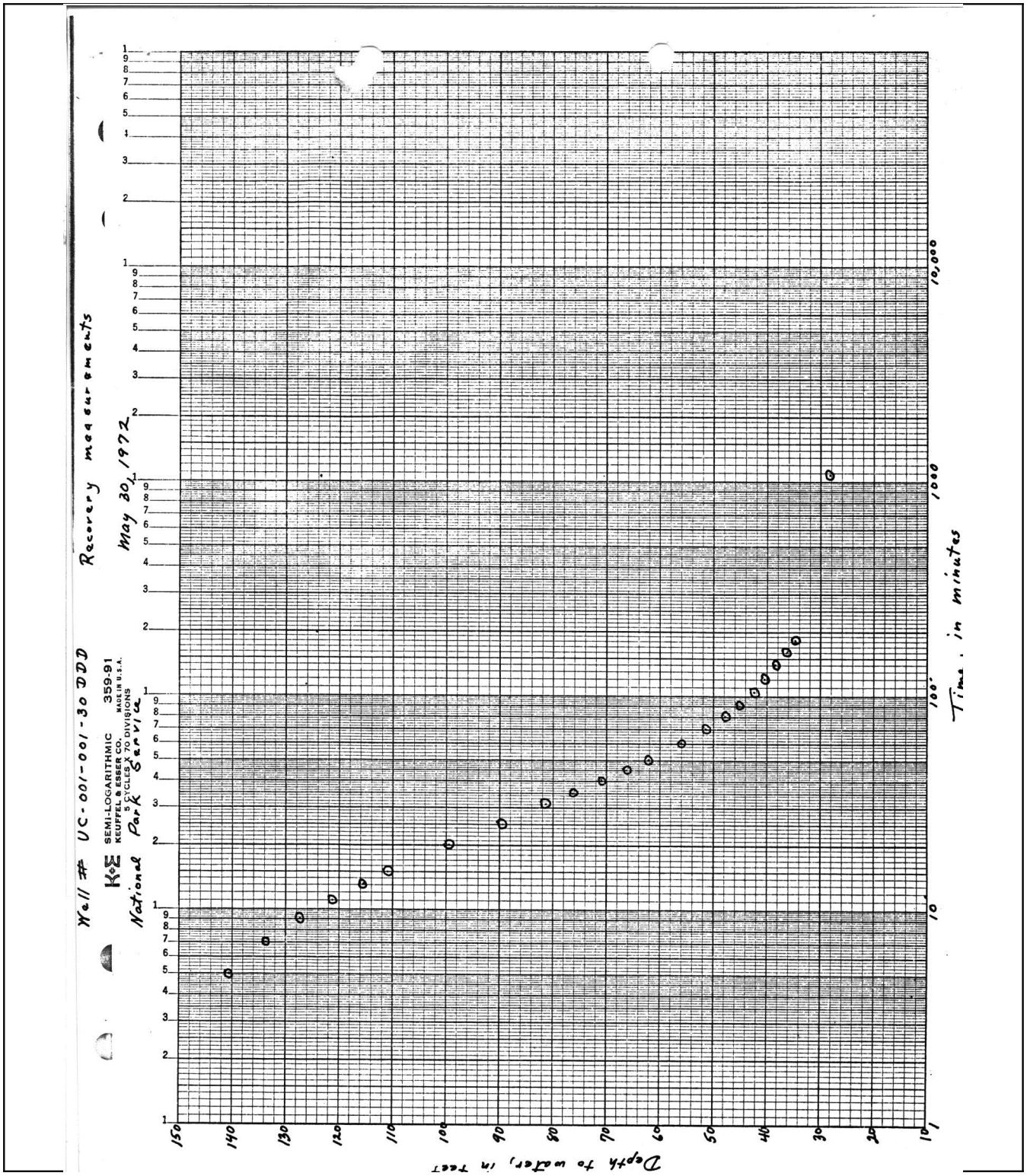
1.10 RECORDS AND SAMPLES: The driller shall be required to keep a log of his drilling operations. The drillers log shall describe all formations and water-bearing zones encountered and shall be kept accurate and current at all times. Two samples of geologic formations shall be taken

by the Contractor at each change of formation and at five foot intervals. Samples shall be placed in appropriate containers such as sample bags furnished by the Contractor and labeled as to the date, hour, and depth at which taken.

Final casing and grouting depth shall be determined by the Government Representative. The Contractor shall, upon request by the Government Representative, collect from 1 to 3 gallons of water for analysis. Water samples may be collected during the pumping test.

A copy of the drillers log shall be furnished to the Government Representative before final payment.

1.11 PAYMENT: The number of units determined as provided above shall be paid for at the contract price per unit of measurement. Payment shall be in full compensation for all labor, equipment, materials, supervision, tools, transportation, site cleanup, and incidentals which were necessary to complete the work as prescrived in this specification.


Well # UC-001-001-30 DDD
Recovery measurements
May 30, 1972
National Park Service
K&E SEMI-LOGARITHMIC 359-91
KEUFFEL & ESSER CO. MADE IN U.S.A.
5 CYCLES X 70 DIVISIONS
Depth to water, in feet
Time, in minutes

Pumped well UC-001-001-30 (DDD)
Name National Park Service
Depth 302 ft. ____
m ____
r_w Hole ____ ft. Casing 7 ID in.
r_w^2 ____

Obs. ____ well ____ ( )
Name ____
Depth ____ ft. m ____ ft.
r ____ ft. r^2 ____
7" ID casing to 174 ft.
5" ID " 174 - 302 ft
(perf top 20', ctr. 20', bottom 20 ft)

County Mesa Personnel W. W. Wilson
State Colorado Date(s) May 30, 1972
T ____ gpd/ft. S ____
aquifer(s) ____
Torch Cut Slots. A well 130' West, controlled by float valve, pumped intermittently. No way to measure or turn off. Reported cased above w/level.

1972 Date	Hour	t_m	t'_m	t/t'	Days				MP = 1.2' above l.s. DW/MP	Observed dd. rec. (feet)	Adjusted dd. rec. (feet)	Q (gpm)	Flume reading	Temp. °C	Cond.	pH	Hardness
5/30	0849	—	—	—	Static	W/L - M. Scope			28.65								
	0850	←	pump	turned	on							11.2	.09				
	0910	20										10.3	.085	16	480		
	0950	60										13.5	.10	17	420	7.0	10 ins
	1020	90										11.2	.09	17	510		
	1050	120										13.5	.10	17	560		
	1120	150	←	Bottled	samples	taken	18°C	→				11.2	.09	18	540		
	1150	180										10.3	.085	17	650		
	1220	210										10.3	.085	17.5	660		
	1250	240										11.2	.09	17.5	690		
	1320	270										10.3	.085	17.5	690		
	1350	300										10.3	.085	17.5	690		
	1400	—	←	Pump	turned	off											
	1405	5							140.6								
	1407	7							133.8								
	1409	9							127.2								
	1411	11							121.36								
	1413	13							115.53								
	1415	15							110.83								
	1420	20							99.62								
	1425	25							89.60								
	1431	31							81.40								
	1435	35							76.15								
	1440	40							70.80								
	1445	45							66.10								
	1450	50							62.08								
	1500	60							55.98								
	1510	70							51.45								
	1520	80							47.96								
	1530	90							45.20								
	1545	105							42.30								
	1600	120							40.33								
	1620	140							38.12								
	1640	160							36.36								
May 31, '72	1700	180							34.85								
→	0800	1080							28.20								

GPO 849815

05-30-1972: construction provisions, section 1, cont.; may 30, 1972

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WRD CENTRAL QW LAB, SALT LAKE CITY, UTAH

East Entrada Corp?

WATER QUALITY ANALYSIS DATE 720626

STATION ID
390210108374000 WELL UC001-001-30DDD

STATE CODE LOCATION	COUNTY CODE	PROJECT CODE	AGENCY CODE	MAILING ADDRESS
08	077	30S		DENVER, COLO.

BEGIN DATE	END DATE	TIME	TYPE	NO. OF DETR	SAMPLE ID.	RECORD NO.	SOURCE
720530		1120	2	27	161018	15840	GROUND WATER

YIELD 11 GPM, FIELD COND 540, PH 7.0

ARSENIC DISSOLVED	UG/L	0	CONDUCTIVITY		503
IRON DISS (AS FE)	UG/L	40	MANGANESE DISSOLVED	UG/L	40
PH		7.9	SILICA	MG/L	13
WATER TEMP (DEG C)		18.0	SELENIUM DISSOLVED	UG/L	4
PHOS DISORTHO (AS P)	MG/L	0.00	PHOSPHATE DISSORTHO	MG/L	0.00
ALK,TOT (AS CACO3)	MG/L	155	TOTAL HARDNESS	MG/L	130
NONCARB HARDNESS	MG/L	0	SAR		2.2
PERCENT SODIUM		47	CALC DISSOLVED SOLID	MG/L	326
DIS SOLIDS(TON/AFT)		0.44			

MAJOR IONS

CATIONS (MG/L)		ANIONS (MG/L)	
CALCIUM DISS.	37	BICARBONATE	189
MAGNESIUM DISS.	10	CARBONATE	0
POTASSIUM	5.8	CHLORIDE	13
SODIUM	58	FLOURIDE DISS.	0.4
		SULFATE	96
		NO2+NO3 AS N	0.03

CORRECTIONS SHOULD BE SUBMITTED TO THE WRD CENTRAL LAB, SALT LAKE CITY UTAH, WITHIN 15 DAYS OF THE DATE OF THE ANALYSIS. INDICATE SAMPLE IDENTIFICATION NO. AND THE RECORD NO. WITH RESPONSE.

THIS DATA HAS RECEIVED CENTRAL LABORATORY QUALITY CONTROL CHECKS AND HAS BEEN PLACED INTO PERMANENT WRD DATA STORAGE FILES.

	CATIONS (MEQ/L)	ANIONS (MEQ/L)
	1.847	3.098
	0.823	0.000
	0.149	0.367
	2.523	0.022
		1.999
		0.003
TOTALS	5.3402	5.4864

PERCENT DIFFERENCE = -1.35

COST = 48.72
SUM OF THE COST FACTORS = 1.6800
COST WGT FACTOR = 1.00
STANDARD ANALYSIS COST = 29.00

06-26-1972: face sheet for completion report; june 26, 1972

Form 10-174
(June 1962)

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

FACE SHEET FOR COMPLETION REPORT

Work Order No.: 119 - 03X40 24002
Fund Symbol: ~~14X0682~~ (10)
Year Programmed: 1972
PCP No.:
Master Plan No.:
Master Plan Corrected By:
As Built Drawings By:

Park	Region	
Colorado National Monument	Midwest	
Location in Park	**State(s)**	
Near East Entrance of Colorado National Monument	Colorado	
	County or Counties	
XX Contract and/or ☐ Day Labor	Mesa	

Work Order Title

Drill a Test Well in Colorado National Monument

Date Started: April 19, 1972
Date Completed: May 26, 1972

DESCRIPTION OF FIXED ASSETS (For completion by employee in charge of project)	TOTAL COSTS (For completion by FFO)
220.7 Utility Systems Test Well drilled to a depth of 303' with 7" steel casing installed to a depth of 303' Cost - $3,080.00	
TOTAL	$

DISTRIBUTION No.	To
1	DSC
1	MWR-Reg.Dir
1	MWR-FFO
1	WASO (ABFA)
1	CURE

THE FIXED ASSET DESCRIBED ABOVE HAS BEEN COMPLETED IN ACCORDANCE WITH APPROVED DRAWINGS, SPECIFICATIONS, AND AUTHORIZED CHANGES

Submitted By: Ernest R. Reissig — Title: Proc. & Prop. Mgmt. Assist. — Date: 6/21/72

Approved By: Karl T. Gilbert — Title: Superintendent — Date: 6/26/72

COSTS VERIFIED — Title: — Date:

BY

Form 10-174A (June 1962) UNITED STA DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

COMPOSITION OF COST FOR COMPLETION REPORT

Work Order Number: 119 - 03x40 24002
Fund Symbol: 14X0682 (10)
Year Programmed: 1972

Park: Colorado National Monument
Region: Midwest
Location in Park: Near East Entrance of Colorado National Monument
Work Order Title: Drill a Test Well in Colorado National Monument

COMPOSITION OF COST

COSTS CHARGED TO FUNDS ALLOTTED TO FIELD FINANCE OFFICE		
(1) Personal Services	$	
(2) Travel		
(3) Contract Work	3,080.00	
(4) Supplies and Materials		
(5) Other Direct Expenses		
(6) Operation of Equipment		
(7) Depreciation of Equipment		
(8) Purchase of Construction Equipment		
(9) Purchase of Other Accountable Equipment		
(10) Other Costs: _____		
(11) TOTAL COST CHARGED TO FFO FUNDS	xxxxxxxxxx	$ 3,080.00
OTHER COSTS:		
(12) PS&S, AP, and/or Facilitating Services @ _____ %	$ 1200.00	
(13) Inventory and Other Non-Fund Costs		
(14) GROSS WORK ORDER COSTS	xxxxxxxxxx	$ 1,200.00
LESS:		
(15) Residual Value of Construction Equipment on Line 8	$	
(16) Other Credits		
(17) NET COST OF FIXED ASSETS	xxxxxxxxxx	$ 4,280.00

Identify other costs and other credits by line item entry, on an attached schedule, or explain in narrative.

NARRATIVE STATEMENT

Project 119- 03X40 24002

TEST WELL

Description:

Test Well drilled to a depth of 303' and 7" and 5" casing installed at Colorado National Monument near East Entrance.

Authorization:

Work Order No. 119 - 03X40 24002 Drill a Test Well Colorado National Monument.

Specifications:

The specifications were prepared by the National Park Service personnel at Midwest Region Office.

Project Activity:

Contract No. 2920 - B2 - 0010 was awarded to Colorado Drilling Company who submitted the low bid of the three received. The unit price bid for Item 1, which consisted of drilling hole to 188 L.F. to receive 7" diameter casing 2" grout ring, install at $7.00 L.F. for a total of $1,316.00, Item 2, which consisted of drilling hole 188' to 300' to receive 5" perforated casing, install at $7.00 L.F. for a total of $784.00, Item 3 which consisted of installing and removing temporary casing at $120.00 for a total of $120.00, Item 4, which consisted of Pump test for yield, drawdown and recovery, install pipe-level measure for 16 hours at $10.00 per hour for a total of $160.00, Item 5, which consisted of developing wells by surging for 8 hours at $10.00 per hour for a total of $80.00, Item 6 which consisted of standby time for crew and equipment for 8 hours at $10.00 per hour for a total of $80.00, Item 7 which consisted of abandonment of test hole at $150.00 for a total of $150.00, Item 8 which consisted of installing a permanent turbine well pump furnished by Government at $120.00 for a total of $120.00 for a total of all items of $2,930.00. Change Order No. 2 authorized moving of test well site at $150.00 as provided by Item 7 this makes a total of $3,080.00. The contract was awarded on April 4, 1972 and the contract was accepted on May 26, 1972.

Work Accomplished:

The contract wasawarded for drilling of a test well as per bid items listed in above project activity to a depth of 303' with 7" and 5" casing installed

Curecanti Recreation Area,
Colorado and Black Canyon of the Gunnison
National Monuments
334 South Tenth Street, Montrose, Colorado 81401

D52 May 15, 1972

CHANGE ORDER NO. 2

Colorado Drilling Company
2424 North 12th Street
Grand Junction, Colorado 81501

Gentlemen:

In accordance with Article 1.07, Section I Construction Provisions, Article 2 of the General Provisions (Supply Contract), and Article 5 of the General Provisions (Service Contract) of your Contract No. 2920-B2-0010 and my verbal orders on April 26, 1972, you are hereby directed to abandon drilling at the site first selected for drilling and resume drilling at the site mutually agreed upon when I visited the site.

You will be paid for the abandoned well in accordance with Item 7 of the Bid Schedule and an extension of eight calendar days will be allowed as a result of this change. Your completion date is hereby established as May 26, 1972.

Sincerely yours,

DONALD K. HERNE

Donald K. Herne
Project Supervisor

CC: Finance, MWRO
Procurement, MWRO
Ketcham, MWRO
Herne, CURE

RHS
Contract File

IN THE MATER OF CHANGE ORDER NO. 2)	
RELATING TO THE ABANDONMENT OF TEST)	FINDINGS OF FACT
HOLE AT THE DIRECTION OF THE GOVERN-)	BY THE
MENT AND RELOCATION TO SITE MUTUALLY)	PROJECT SUPERVISOR
AGREED UPON BY CONTRACTOR AND PROJECT)	
SUPERVISOR.)	

1. This findings of fact is issued pursuant to Section I, Construction Provision 1.07; Article 2 of the General Provisions (Supply Contract), and Article 5, General Provisions (Service Contract) of Contract No. 2920-82-0010.

2. On April 26, the contractor advised the Project Supervisor, Donald K. Herne, that he had reached a strata of boulders that was causing difficulties in the drilling operation.

3. Mr. Herne visited the site and determined that if the drilling continued it would result in a hole that would not be true and would make the installation of the casing and pump almost impossible.

4. Mr. Herne talked to Mr. Stan Lohman of the U. S. G. S. and he agreed that the drill site should be relocated.

5. The contractor was verbally advised to abandon the hole and relocate at a site mutually agreed upon by the contractor and Mr. Herne on April 26, 1972.

6. Inasmuch as the contractor was directed by the Project Supervisor to abandon drilling at the first site and to relocate the drilling operations at a new site, it is hereby determined to pay him the unit price specified under Item 7 of the bid schedule and to allow an extension in the time for completion based on the work expended during the period April 19, 1972 to April 26, 1972. In considering the above it is hereby determined to extend the time for completion an additional eight (8) calendar days which results in a completion date of May 26, 1972.

DONALD K. HERNE

Donald K. Herne
Project Supervisor

Orig. MWR Finance
CC: MWR Procurement
√Ketcham, MWR
Project Supervisor

RWC
Contract
File

D52(DSC)CA

CHANGE ORDER NO. 1

Colorado Drilling Company
2424 North 12th Street
Grand Junction, Colorado 81501

Gentlemen:

In accordance with the provisions of Article 2, Changes, of the General Provisions of your Contract No. 2920 B2 0010, dated April 4, 1972 for Drilling of a Test Well in Colorado National Monument, Colorado you are hereby directed to make the following changes in the contract specifications and accomplish the work described herein.

1. Drill 10 inch test hole to approximately 188 feet or until the entrada formation is entered.

2. Furnish and install 7 inch black steel pipe casing. All connections are to be welded and smooth.

3. Furnish materials, equipment etc. to cement 7 inch pipe casing in place with approximately a 2 inch grout ring. The grout is to be applied under pressure in order to obtain 100% grouting with no voids from top to bottom.

4. Re-enter test hole and drill hole to accommodate a 5 inch casing to a depth of approximately 300 feet.

5. Furnish and install 5 inch perforated casing to a depth of approximately 300 feet.

The work described herein shall be performed as directed by the Contracting Officer and in accordance with the applicable provisions and specifications of the contract. It is also understood and agreed that this change order results in no change in the contract amount and the unit prices are still valid.

No extra time for completion will be allowed in this change order.

Sincerely yours,

Joe H. Riha
Contracting Officer

Enclosures

cc:
Finance, MWRO
Herne, CURE
✓Ketcham, MWRO
File, CURE

MWR PROCUREMENT

COLM cont

D52

INITIAL AND DATE	
Director, MWR	
Director's Secretary	
Assoc. Dir., Mgmt.	
Assoc. Dr., Prf. Sup.	
Park Operations	
Coop. Activities	
Operations Eval.	
Prog. & Budgeting	
Finance & Control	
Org. Dev. & Man.	
~~A Supt Mgmt~~	4/14
~~Bergmann~~	
~~Kelleher~~	4/17
Action taken & date	

April 12, 1972

NOTICE TO PROCEED

Colorado Drilling Company
2424 North 12th Street
Grand Junction, Colorado 81501

Gentlemen:

Under the provisions of the specifications, you are hereby notified to proceed with the drilling of the test well located in Colorado National Monument. In order that the date of beginning of the contract period may be made a matter of record, it is requested that you immediately acknowledge receipt of this letter on the form provided below. Please sign and return the original and one copy to this office in the envelope provided, retaining one copy for your records.

Sincerely yours,

Donald K. Herne
Project Supervisor

- - - - - - - - - - -

4-18-72
Date

Project Supervisor, National Park Service
Curecanti National Recreation Area
334 South Tenth Street
Montrose, Colorado 81401

Dear Sir:

Notification to proceed with the work of Contract No. 2920 B2 0010 Drill a Test Well located in Colorado National Monument, approximately five (5) miles west of Grand Junction, Colorado, was received by us on 4-18-72.

(Firm) Colorado Drlg Co
(By) Don R. Carnes
(Title) own-opr.

Engineer

Contract File PHK

This was not awarded

Dale Devine - Curecanti 4-4-72

Property Management

Test Well- Colorado NM

Dale: I am enclosing the Notice of Award to Colorado Drilling as well as copies of the contract for the area and Don Herne.

I would appreciate it very much if it was delivered to the drilling company and as you will note - the Notices are to be prepared by Don. I'm assuming you will do the "preparing" and Don will do the signing.

I understand you all were happy with the contractor and hope we get a good job. Appreciate your assistance.

Joe

Joe Riha

Enclosures

Copy to: Dick Ketcham

02-26-1972: i am enclosing 3 sets of bid invitation along with a copy of the bidder's list; february 26, 1972

Rec'd

COLO - cont

Superintendent, Curecanti 2-28-72

Property Management

Bid Invitation - Test Well - Colorado NM

Karl - Dale:

I am enclosing 3 sets of bid invitation along with a copy of the bidder's list.

If by chance you make further distribution - be sure to keep us posted.

Get us a good bid.

Joe

Joe Riha

Enclosures

Copy to: Dick Ketcham

D52 MMR(AKRM)

April 4, 1972

NOTICE OF AWARD

CONTRACT NO. 2920-B2-0010

Colorado Drilling Company
2424 North 12th Street
Grand Junction, Colorado

Gentlemen:

We are pleased to notify you that your proposal, submitted in response to our Invitation for Bids for Drilling a test well located in Colorado National Monument, Colorado, has been accepted in the amount of $2,930.00.

In accordance with the General Provisions of your contract, you are advised that Maintenance Supervisor Donald K. Herne is hereby designated as the Contracting Officer's authorized representative for general administrative supervision of the above referenced contract. Any arrangements or agreements made with regard to the administration and execution of this contract, with persons other than those named in this letter, will not necessarily be considered binding upon the Government.

The designee will be responsible and will act on behalf of the Contracting Officer on all matters of contract administration, except that approval of the changes in the work that will result in adjustments in costs to the Government and/or in contract time and approval of monthly payment estimates, is reserved unto the Contracting Officer. Only the Contracting Officer may approve changes in the work that result in adjustments in cost to the Government and/or in contract time.

Maintenance Supervisor Donald K. Herne will issue the Notice to Proceed and the Notice of Beginning Date.

Yours very truly,

Joe H. Riha
General Supply Officer and
Contracting Officer

Enclosure

cc: Finance w/cy of contract
Supt. CURE w/cy of contract
Don Herne " " "
Dick Ketcham " " " ✓

CONTRACT BID SCHEDULE
DRILLING OF A TEST WELL
COLORADO NATIONAL MONUMENT
EAST ENTRANCE

Item	Description	Estimated Total Quantity	Unit	Unit Price	Total Price
1.	Drill hole to receive 6 inch diameter casing and 2 inch grout ring and install.	188	Linear ft.	$ 7.00	$1316.00
2.	Drill hole to receive 6 inch perforated casing from 188' to 300 ft and install.	112	Linear ft.	$ 7.00	$ 784.00
3.	Install and remove temporary casing if required.	-	Each	$120.00	$ 240.00
4.	Pump test for yield, drawdown and recovery, to include installation of 1 inch plastic pipe to measure water level.	16	hr.	$ 10.00	$ 160.00
5.	Develop wells by surging.	8	hr.	$ 10.00	$ 80.00
6.	Standby time for crew and equipment.	8	hr.	$ 10.00	$ 80.00
7.	Abandonment of test hole by direction of the Government.	-	Each	$150.00	$ 150.00
8.	Install permanent turbine well pump furnished by Government.	1	Each	$ 15.00	$ 120.00
			TOTAL		$2930.00

The quantities shown above shall be used for the purpose of canvassing the bids and awarding the work. Payment to the Contractor will be made on the basis of actual quantities of work performed.

It is to the interest of the Government that the work shown on the Contract Bid Schedule be performed by one Contractor. Therefore, award will not be made on the basis of the low bid for individual items, but on the basis of the low bid for all items accepted.

D5039

L54

Box 438, Fruita, Colorado
August 22, 1962

Memorandum

To: Luther T. Petersen

From: Mayo Zabriskie

Subject: Water System - Grand Junction Entrance

The information you asked for in our conversation by phone 8-21-62 is as follows:

B/W Floatless Liquid Level Control
Type LH Rating 1 HP
Made by B/W Controller Corporation
Birmingham, Michigan
Large Control Panel
PLAN PAK
Autocon System Controls Automatic Control Co.
St. Paul, Minnesota
Type SPEG
Volts 220
No. 55016B
Pump-Fairbanks-Morse Pamona
Make G. E. Tri/Clad Capacitor Motor
Model 5KCS215EG2 No. PM
HP 5.
RPM 3450
Volts 230
Cycles 60
PH. 1
Servictor 1.15
Code G
AMP 50.4/25.2
Frame 215 PH
Type KCS
Nema Class Design L
Deg C. Rise 40
Time Rating Cont

Shaet BRG AFBMA
No 3SBA03X3B
OPP End 30BC02XD3
Fort Wayne, Indiana

B & B Electric Company of Grand Junction, Colorado, installed the Electrical Controller. Mt. Garfield Plumbing Heating & Sheet Metal installed the pump works. I had B & B Electric Company check out the controls when the present trouble developed. They found that the electrodes in the well were short circuiting and stopping the pump. It was necessary to rewire controls and bypass the electrodes in order to operate pump.

The prices quoted to us for replacement of electrodes is approximately $800. For a protective pressure control, the price would be around $300. This would protect the pump in case of low water, and would have to be reset manually. Otherwise, the pump would run on automatic continually.

Any advise you can give will be appreciated.

Mayo Zabriskie
Foreman III

In duplicate.

San: PHE 44-L (Rev. 11/61/20)

Transmitted in 154 Supp. Memo of 7/1/62

CHEMICAL ANALYSIS OF WATER

Colorado State Department of Public Health

Sample No. 278

Date Analyzed: May - June, 1962

Municipality: Colo. National Monument Where Collected: Entrance Supply Date and Time Sampled:

Source of Supply (If well give depth): Collected by: Chemist:

		Maximum allowable	As found			Maximum allowable	As found
GROUP I MANDATORY LIMITS	Turbidity	5 units	2.9 ppm	GROUP II RECOMMENDED LIMITS	Alkyl Benzene Sulfonate	0.5	0
	Color (Cobalt Scale)	15 units	10		Carbon Chloroform Extract	0.2	—
	Threshold odor number	3	—		Chloride (Cl)	250 ppm	25 ppm
	Arsenic (As)	0.05 ppm 0.01 recommended	0 ppm		Copper (Cu)	1.0 ppm	0 ppm
	Barium	1.0	—		Iron (Fe)	0.3 ppm	0.45 ppm
	Cadmium	0.01	—		Magnesium (Mg)	125 ppm	15 ppm
	Chromium (Cr^{+6})	0.05 ppm	0 ppm		Manganese (Mn)	0.05 ppm	0 ppm
	Cyanide	0.2 0.01 recommended	—		Nitrate (NO_3--)	45 ppm	0 ppm
	Fluoride (F)	2.4 ppm	0.7 ppm		Phenol	0.001 ppm	— ppm
	Lead (Pb)	0.05 ppm	0 ppm		Sulfate (SO_4)	250 ppm	181 ppm
	Selenium (Se)	0.01 ppm	— ppm		Total Solids	500 ppm	597 ppm
	Silver	0.05	—		Zinc	5 ppm	— ppm
GROUP III	Calcium (Ca)(as $CaCO_3$)	--	104 ppm	GROUP IV	RADIOACTIVITY	μμc/liter	—
	Sodium (Na)	--	146 ppm		Gross Alpha & Beta Activity	1000	—
	(at time of pH collection)	--	—		Radium 226	3	—
	Phenolphthalein Alkalinity		14 ppm		Strontium 90	10	—
	Specific Conductance	--Micromhos	939 Micromhos		PO_4		0.05
	Total Alkalinity		294 ppm		NH_3		0.1
	Total Hardness		164 ppm				

06-00-1962: chemical analysis of water; june, 1962

09-10-1954: record of well c; september 10, 1954

9–255
(Jan. 1927)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

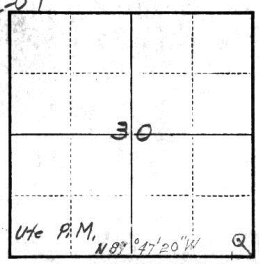
Altitude level 32'

Mailed 9-14-54

See Memo 9-2-54 from Supt. to Regional Office.

RECORD OF WELL Well "C"

1. **Location:** State Colorado County Mesa
   Nearest P. O. Grand Junction Direction from P. O. S.W
   Distance from P. O. 6 miles; SE¼ SE¼ sec. 30, T. 1 S, R. 1W Ute P.M. N 89° 47' 20" W
   If in city, give street and number



Locate well on plat of section.

N 40° 52' W 421.8 ft.

2. **Owner:** Colo. Nat. Monument Address Fruita Colo.
   Driller: Colo. Water Well Co. Address Box 674 Grand Junction
3. **Situation:** Is well on upland, in valley, or on hillside? Hillside
4. **Elevation of top of well:** ..... ft. (Above or below) the level of (Sea, depot, lake, or stream) .....
5. **Type of well:** Drilled (Dug, driven, bored, or drilled); kind of drilling rig used Spudder (Solid tool, jetting, rotary, etc.)
6. **Depth of well:** 258 ft.; year in which well was finished 1954
   Does well enter rock? yes; if so, at what depth? 190 ft.; kind of rock Sandstone
7. **Diameter:** At top 8 inches; at bottom 6 inches.
8. **Principal water bed:** Sandstone (Gravel, sand, clay, or rock. If rock, state kind)
   Depth to principal water bed 190 ft.; thickness of bed 68 ft.
   If other water supplies were found, give depth to each 60' and 84'
9. **Casings:** Kind Iron; size 6⅝ od; length 190 ft.; between depths of 00 and 190 ft.
   Kind ..... ; size ..... ; length ..... ft.; between depths of ..... and ..... ft.
   Kind ..... ; size ..... ; length ..... ft.; between depths of ..... and ..... ft.
   Packers (if any): Depth at which packers were used 190; kind Lane Well type.
   Screen or Strainer: Was well finished with screen? ..... ; kind of screen .....;
   length of screen ..... ft.; diameter ..... inches; size of openings .....
10. **Head:** Does well at present overflow without pumping? No; did it overflow when new? No;
    if flowing, give pressure ..... lb. per sq. inch; or height water will rise in a pipe ..... ft. above surface;
    original pressure or head .....; if not flowing, give water level in well ..... ft. below surface.
11. **Pump:** Is the well pumped? .....; kind of pump .....;
    size or capacity of pump .....; kind of power .....
12. **Yield:** Natural flow at present (if any) ..... gallons per minute; original flow ..... gallons per minute;
    well has been ~~pumped~~ Bailed at 15 gallons per minute continuously for 4 hours;
    quantity of water ordinarily obtained from well ..... gallons per day.
13. **Use:** For what purpose is the water used? Domestic
14. **Quality of the water:** Soft (Hard or soft, fresh or salty, etc.); is there an analysis? .....
15. **Cost of well,** not including pump: $202.75 Temperature of water ..... ° F.

Name of person filling blank V. P. Morgan

Date 9/10/54 Address Box 674 Grand Junction Colo

6—9642

On the back of this sheet give the record of the beds through which the well passes and any other facts not given above.

LOG OF WELL

KIND OF ROCK OR OTHER MATERIAL (Give color and tell whether hard or soft)	DEPTH, IN FEET From—	DEPTH, IN FEET To—	THICKNESS, IN FEET	REMARKS (Especially information as to water found)
Granite Boulders	00	44	44	
Gray shale	44	55	11	
Hard lime	55	60	5	
Varigated shales	60	80	20	(water at 60' 4gal per Min. Bailer test
Gray sandstone	80	85	5	[redacted] static level 45')
Varigated Shales	85	115	30	water at 94' static level 40'
Chust or (Granite) very hard	115	123	8	
Lime (Hard & Abrasive)	123	125	2	
Green Shale	125	130	5	
Dark Brown shale	130	150	20	
Gray & Green shale	150	165	15	
Red shale	165	188	23	(water 188 static level 32')
White sandstone	188	239	51	
Orange sandstone	239	258	19	

U. S. GOVERNMENT PRINTING OFFICE 6—0642

Form No. 4
(Revised 7/55)

1 cw

COLORADO WATER CONSERVATION BOARD
LOG AND HISTORY

Location: T____ R____ Sec.____ P.M.____ ¼ Sec.____ County____

Owned by Colo. Nat. Monument Address____

Tenant____ Address____

Drilled by Colorado Water Well Co. Address Box 674 Grand Junction

Water Well Driller's License No. 149 Name or No. of Well____

Type of Well: Domestic ☑, Municipal ☐, Stock ☐, Irrigation ☐,

Industrial ☐, Drainage ☐, Other____

Cased: [illegible] ft. to 190 ft. Type Iron Size 6 5/8 00 Wt. of Casing: Lbs./Ft. 20

Cased: ____ ft. to ____ ft. Type____ Size____ Wt. of Casing: Lbs./Ft.____

Cased: ____ ft. to ____ ft. Type____ Size____ Wt. of Casing: Lbs./Ft.____

Perforated or Screened: Ft.____ to Ft.____; Ft.____ to Ft.____

Type of Screen or Perforation____

Date Started 8/16/54 Date Completed 9/7/54

Static Water Level 32 Ft.

or

Shut in Pressure ____ lbs./sq. in. Date____

Pumping Water Level 85 Ft. at 15 G P M yield.

How Tested: Bailed Length of Test 5 ½ Hours.

Put Formation Log on Reverse Side

REMARKS: (Gravel Packing, Cementing, Packers, Type of Shut-off, Depth of Shut-off, Method of Drilling, etc.)

Packer set at 190' Cemented at 190'
with 5 sacks cement.

TO BE MADE IN TRIPLICATE: White copy to owner, Blue copy to Colorado Water Conservation Board, and other copy to driller.

09-07-1954: log of well; september 07, 1954

LOG OF WELL

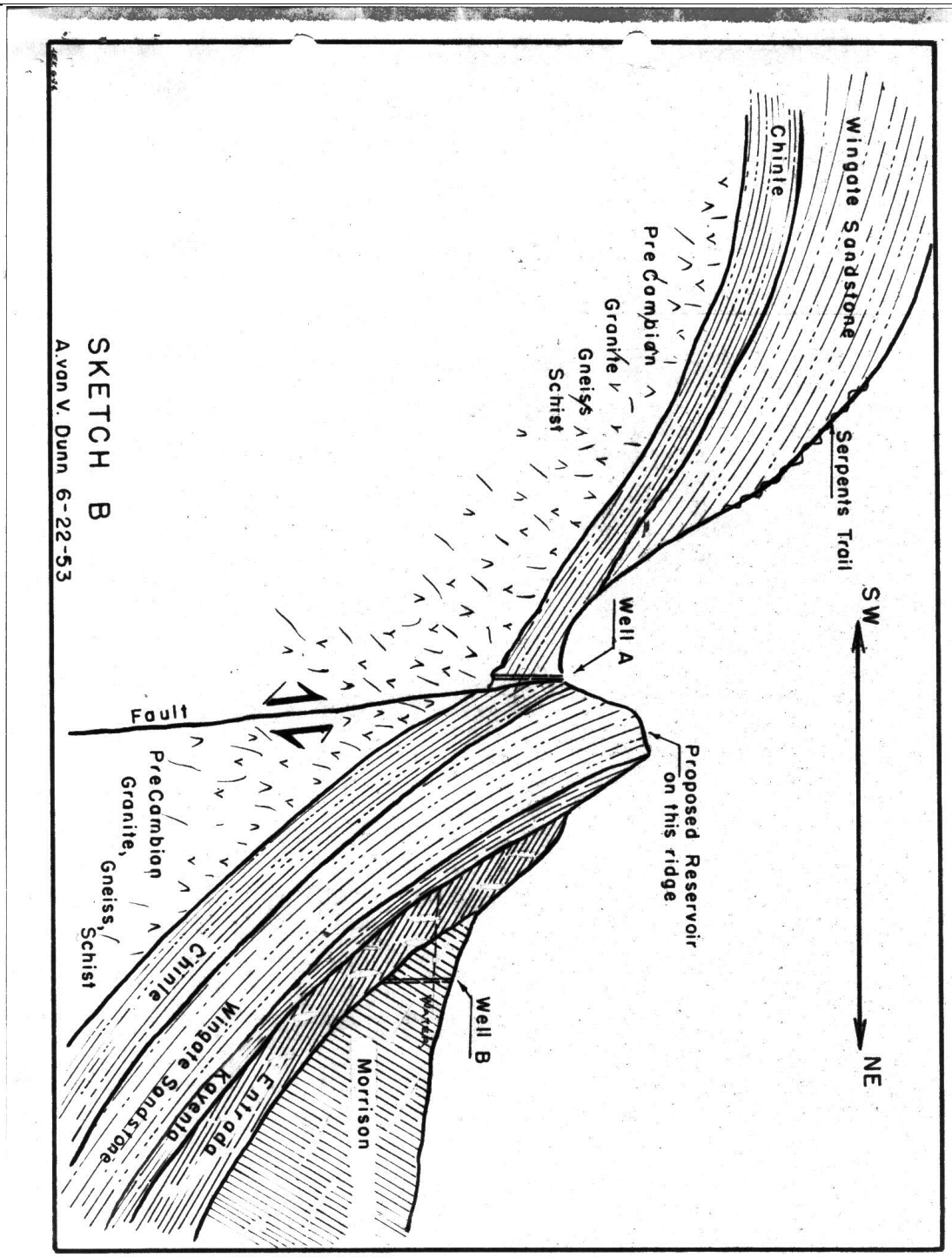
DESCRIPTION OF MATERIAL DRILLED | METHOD OF DRILLING

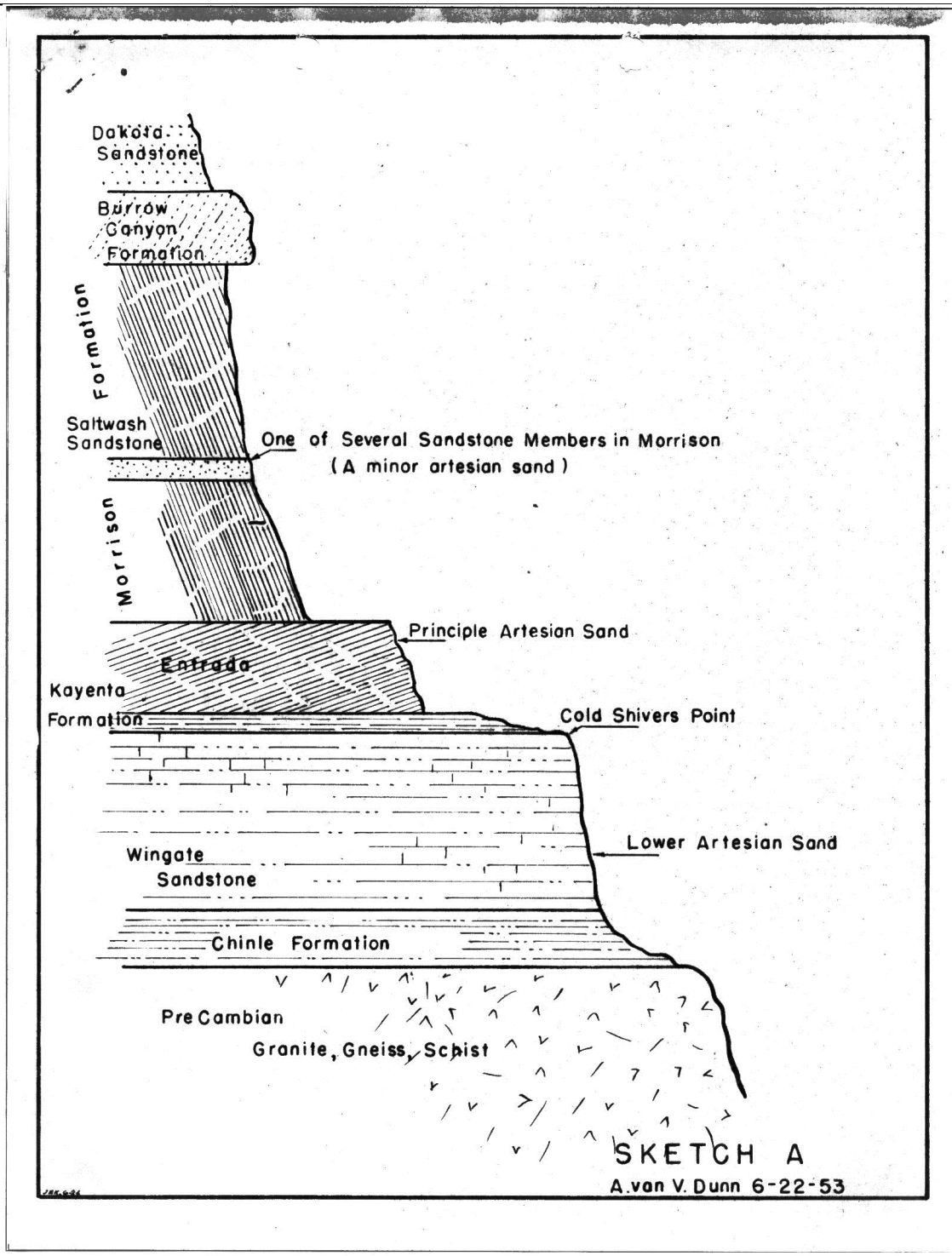
churn drill

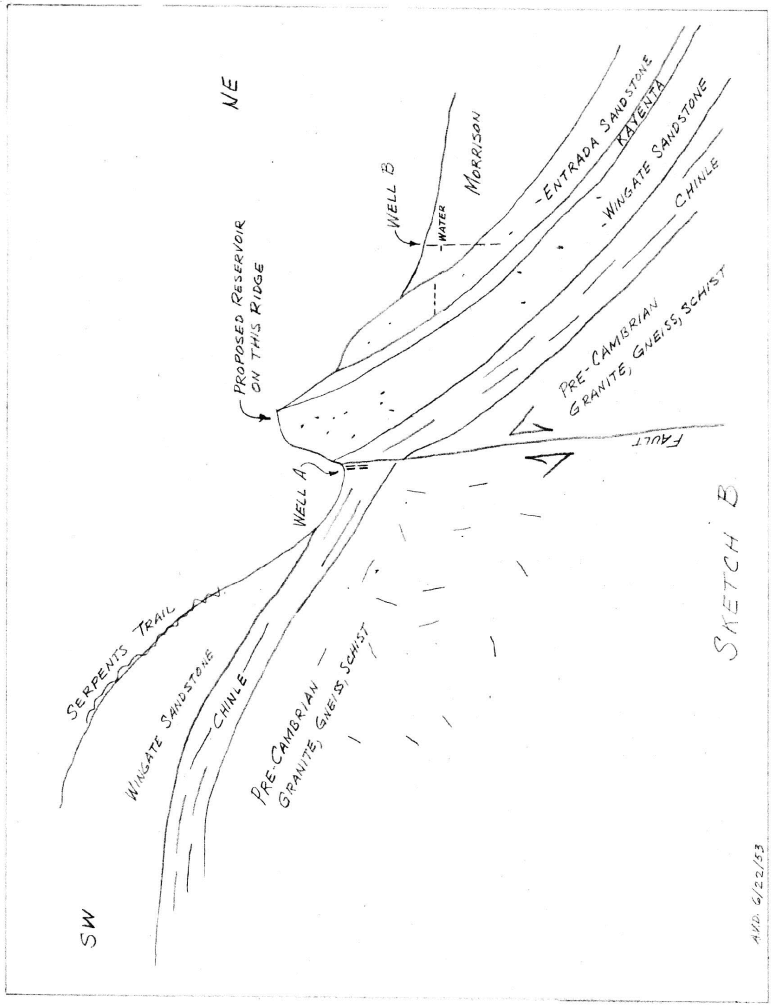
Feet			
00	to	44	Granite Boulders
44	to	190	Morrison Shale
190	to	258	Sandstone
	to		
	to		
	to		

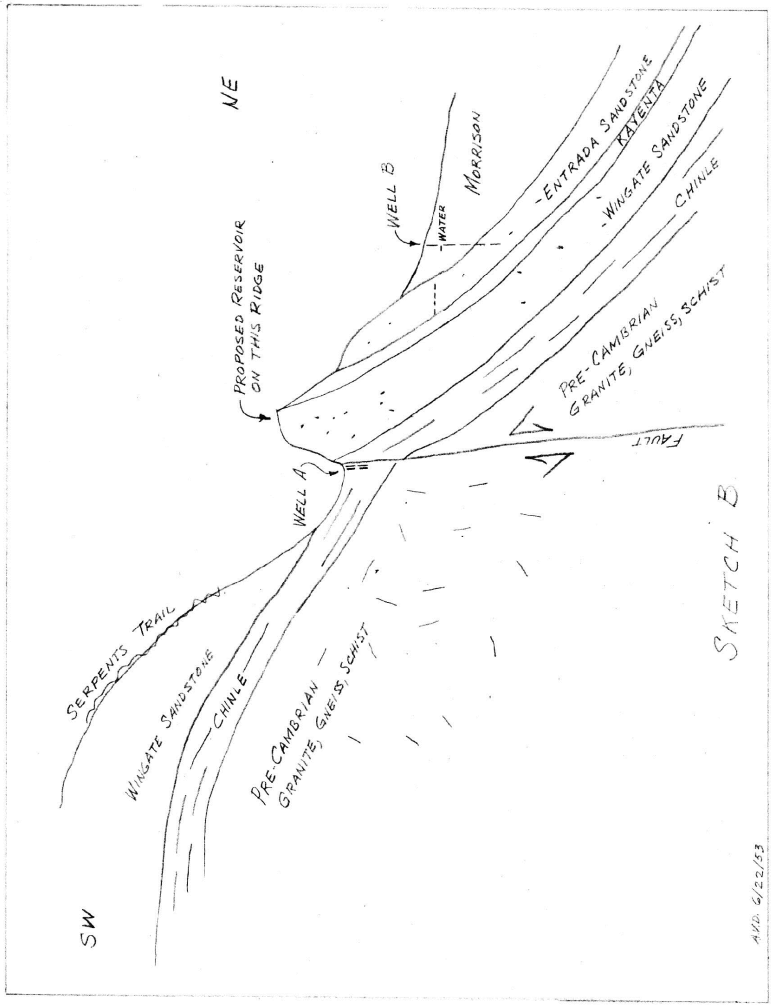


06-22-1953: sketch b; june 22, 1953




Dakota Sandstone
Burrow Canyon Formation
Formation
Morrison
Saltwash Sandstone
One of Several Sandstone Members in Morrison
(A minor artesian sand)
Principle Artesian Sand
Entrada
Kayenta Formation
Cold Shivers Point
Lower Artesian Sand
Wingate Sandstone
Chinle Formation
Pre Cambian
Granite, Gneiss, Schist
SKETCH A
A. van V. Dunn 6-22-53


NE
SW
WELL B
WATER
MORRISON
ENTRADA SANDSTONE
CARMEL
WINGATE SANDSTONE
CHINLE
PRE-CAMBRIAN
GRANITE, GNEISS, SCHIST
PROPOSED RESERVOIR
ON THIS RIDGE
FAULT
WELL A
SERPENTS TRAIL
WINGATE SANDSTONE
CHINLE
PRE-CAMBRIAN
GRANITE, GNEISS, SCHIST
SKETCH B
AVD 6/22/53

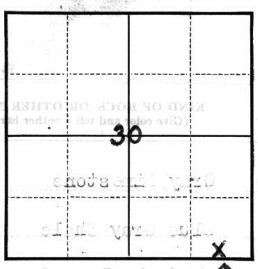

NE
WELL B
WATER
MORRISON
ENTRADA SANDSTONE
RATENTA
WINGATE SANDSTONE
CHINLE
PROPOSED RESERVOIR ON THIS RIDGE
PRE-CAMBRIAN GRANITE, GNEISS, SCHIST
FAULT
WELL A
SERPENTS TRAIL
WINGATE SANDSTONE
CHINLE
PRE-CAMBRIAN GRANITE, GNEISS, SCHIST
SW
SKETCH B
AVD 6/22/53

9—255
(Jan. 1927)

UNITED STATES
DEPARTM OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

RECORD OF WELL

Well "B"



Locate well on plat of section

Approx. Site

1. **Location:** State Colorado County Mesa
   Nearest P. O. Grand Junction, Colo. Direction from P. O. SW
   Distance from P. O. 5 miles; SE ¼ sec. 30, T. 1S, R. 1W
   If in city, give street and number

2. **Owner:** U. S. Government, National Park Service Address Colorado Nat'l Monument, Fruita, Colo
   Driller: Minerals Engineering Co. Address Grand Junction, Colorado

3. **Situation:** Is well on upland, in valley, or on hillside? Hillside

4. **Elevation of top of well:** Approx. 4960 ft. 402' (Above or below) above the level of Colorado River (Sea, dep of lake, or stream)

5. **Type of well:** drilled (Dug, driven, bored, or drilled); kind of drilling rig used Wagon Drill (Solid tool, jetting, rotary, etc.)

6. **Depth of well:** 66 ft.; year in which well was finished 1953
   Does well enter rock? Yes; if so, at what depth? surface ft.; kind of rock Limestone

7. **Diameter:** At top 5½" inches; at bottom 5½" inches.

8. **Principal water bed:** Clay (Gravel, sand, clay, or rock. If rock, state kind)
   Depth to principal water bed 60 ft.; thickness of bed 43 ft.
   If other water supplies were found, give depth to each

9. **Casings:** Kind None; size ; length ft.; between depths of and ft.
   Kind ; size ; length ft.; between depths of and ft.
   Kind ; size ; length ft.; between depths of and ft.
   Packers (if any): Depth at which packers were used ; kind
   Screen or **Strainer:** Was well finished with screen? No; kind of screen ;
   length of screen ft.; diameter inches; size of openings

10. **Head:** Does well at present overflow without pumping? No; did it overflow when new? No;
    if flowing, give pressure lb. per sq. inch; or height water will rise in a pipe ft. above surface;
    original pressure or head ; if not flowing, give water level in well 40 ft. below surface.

11. **Pump:** Is the well pumped? No; kind of pump ;
    size or capacity of pump ; kind of power

12. **Yield:** Natural flow at present (if any) gallons per minute; original flow gallons per minute;
    well has been pumped at gallons per minute continuously for hours;
    quantity of water ordinarily obtained from well gallons per day. No check made on flow.

13. **Use:** For what purpose is the water used? Contemplated public use.

14. **Quality of the water:** Fresh (Hard or soft, fresh or salty, etc.); is there an analysis? No

15. **Cost of well,** not including pump: No cost Temperature of water ? ° F.

Name of person filling blank Russell L. Mahan

Date June 5, 1953 Address Box 157, Fruita, Colorado

6—9642

On the back of this sheet give the record of the beds through which the well passes and any other facts not given above.

well "B"

06-05-1953: log of well

LOG OF WELL

KIND OF ROCK OR OTHER MATERIAL (Give color and tell whether hard or soft)	DEPTH, IN FEET From—	DEPTH, IN FEET To—	THICKNESS, IN FEET	REMARKS (Especially information as to water found)
Gray Limestone	Surface	23'	23'	Very hard
Blue Gray Shale	23'	66'	43'	

No log on well. The above from notes kept during drilling. Believe bottom of hole was still in shale but not definite. This well was drilled with a wagon drill at a speed of about 1foot per minute and no provision for collecting very fine material which came out of hole so types of formations not definite.

U. S. GOVERNMENT PRINTING OFFICE 6—9642

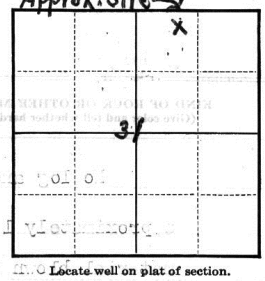
9—255
(Jan. 1—02)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES BRANCH

RECORD OF WELL

Well "A"

Approx. Site



Locate well on plat of section.

1. **Location:** State Colorado County Mesa
   Nearest P. O. Grand Junction, Colo. Direction from P. O. SW
   Distance from P. O. 5 miles; NE ¼ sec. 31, T. 1S, R. 1W
   If in city, give street and number

2. **Owner:** U. S. Government, Nat'l Park Ser. Address Colorado Nat'l Monument, Fruita, Colo
   Driller: Minerals Engineering Co. Address Grand Junction, Colorado

3. **Situation:** Is well on upland, in valley, or on hillside? hillside

4. **Elevation of top of well:** 5040 ft. 482 (Above or below) the level of Colorado River (Sea, depot, lake, or stream)

5. **Type of well:** drilled (Dug, driven, bored, or drilled); kind of drilling rig used Wagon drill (Solid tool, jetting, rotary, etc.)

6. **Depth of well:** 145 ft.; year in which well was finished 1952
   Does well enter rock? Yes; if so, at what depth? surface ft.; kind of rock Sandstone

7. **Diameter:** At top 2½" inches; at bottom 2½" inches.

8. **Principal water bed:** Shale? (Gravel, sand, clay, or rock. If rock, state kind)
   Depth to principal water bed 145 ft.; thickness of bed ? ft.
   If other water supplies were found, give depth to each

9. **Casings:** Kind None; size ; length ft.; between depths of and ft.
   Kind ; size ; length ft.; between depths of and ft.
   Kind ; size ; length ft.; between depths of and ft.
   Packers (if any): Depth at which packers were used None; kind
   Screen or Strainer: Was well finished with screen? No; kind of screen ;
   length of screen ft.; diameter inches; size of openings

10. **Head:** Does well at present overflow without pumping? No; did it overflow when new? No;
    if flowing, give pressure lb. per sq. inch; or height water will rise in a pipe ft. above surface;
    original pressure or head ; if not flowing, give water level in well 40 ft. below surface.

11. **Pump:** Is the well pumped? No; kind of pump ;
    size or capacity of pump ; kind of power

12. **Yield:** Natural flow at present (if any) gallons per minute; original flow gallons per minute;
    well has been pumped at gallons per minute continuously for hours;
    quantity of water ordinarily obtained from well gallons per day. No check made on flow.

13. **Use:** For what purpose is the water used? Contemplated public use

14. **Quality of the water:** Fresh (Hard or soft, fresh or salty, etc.); is there an analysis? No.

15. **Cost of well,** not including pump: No cost. Temperature of water ? ° F.

Name of person filling blank Russell L. Mahan

Date June 5, 1953 Address Box 157, Fruita, Colorado

6—9642

On the back of this sheet give the record of the beds through which the well passes and any other facts not given above.

well "A"?

LOG OF WELL

KIND OF ROCK OR OTHER MATERIAL (Give color and tell whether hard or soft)	DEPTH, IN FEET From—	DEPTH, IN FEET To—	THICKNESS, IN FEET	REMARKS (Especially information as to water found)
No log and no notes kept on this well. Wagon drill had speed of approximately 1 foot per minute with no provision for collecting fine material blown from well during drilling. Surface formation was sandstone and hole went through alternating sandstone and shale deposits. Believe water was struck at base of shale deposit.				

U. S. GOVERNMENT PRINTING OFFICE 6—9642

Other Supporting Information

REPORT OF TELEPHONE CONVERSATION

DATE 1/12/84 TIME 10:30 (AM)/PM

PROJECT COLM East Entrance Well

NPS PERSON ON CALL: Beth Voelkel ☐ I CALLED ☒ S/HE CALLED

PERSON Mel Malley

ORGANIZATION Colorado Division of Water Resources - Groundwater

ADDRESS Denver

TELEPHONE NO. 866-3581 EXT.

SUBJECTS DISCUSSED He called at Rich Cooper's request. He said if we change the date to first domestic use they'll accept it. He assured me that this will in no way affect the priority date of 5/1/25 because that has been decreed and will require court action to alter. They just are changing the use and the date use was changed.

ACTION TO BE TAKEN

COPIES TO:

REPORT OF TELEPHONE CONVERSATION

DATE 1/12/89 TIME 9:00 (AM)/PM
PROJECT COLM East Well

NPS PERSON ON CALL: Beth Voelkel ☒ I CALLED ☐ S/HE CALLED

PERSON Rich Cooper
ORGANIZATION Colo. Div of Water Resources
ADDRESS

TELEPHONE NO. 866-3581 EXT.

SUBJECTS DISCUSSED He thinks the priority date is no big deal but I said we'd prefer to retain the early date. He is frustrated that I don't Have any decree case number than CA-7327. He said it should be 81-CW-... or whatever but I explained that it was a very early decree. He still wasn't satisfied and didn't seem to understand the situation very well. ~~He~~ said I told him that Dwight Whitehead knows all about it and suggested he contact him. Rich took my number and said he'd look around and call me back sometime today.

ACTION TO BE TAKEN

COPIES TO:

REPORT OF TELEPHONE CONVERSATION

DATE 1/11/89 TIME 3:30 AM/(PM)

PROJECT COLM East Well

NPS PERSON ON CALL: Beth Voelkel ☒ I CALLED ☐ S/HE CALLED

PERSON Rich Cooper

ORGANIZATION Colo. Div. of Water Res. - Denver → Groundwater Section

ADDRESS 1313 Sherman St. Rm 823

Denver, 80203

TELEPHONE NO. 866-3581 EXT.

SUBJECTS DISCUSSED I have tried repeatedly since December 27th, to reach Mel Malley but he has been on vacation and then either in meetings, away from the office, or otherwise unavailable.

Today I spoke with Rich Cooper in the ground water section. He couldn't help because he couldn't leave the desk unattended to pull our file. He said to call him again tomorrow morning at about 9:00.

ACTION TO BE TAKEN

COPIES TO:

REPORT OF TELEPHONE CONVERSATION

DATE 12/1/88 TIME 3:10 AM/(PM)

PROJECT COLM East Well

NPS PERSON ON CALL: Beth Voelkel ☒ I CALLED ☐ S/HE CALLED

PERSON Merle Palmer

ORGANIZATION Chief of Maintenance, COLM

ADDRESS

TELEPHONE NO. (303) 858-3617 EXT.

SUBJECTS DISCUSSED I explained the new approach = amend existing record. He says fine. He said they're certainly not using 1.5 afy and probably never even 7.9 gpm so we don't need to claim more that the Robb Artesian Well has already been decreed.

ACTION TO BE TAKEN

COPIES TO:

REPORT OF TELEPHONE CONVERSATION

DATE 10/28/88 TIME 4:15 AM/PM

PROJECT COLM East Well

NPS PERSON ON CALL: Beth Voelkel ☐ I CALLED ☒ S/HE CALLED

PERSON Dwight Whitehead (took Al Cerise's job)

ORGANIZATION

ADDRESS

TELEPHONE NO. 945-5665 EXT.

SUBJECTS DISCUSSED He is looking for history of the well at COLM. I explained the little I knew but suggested he contact Merle Palmer at COLM or Al Cerise as both men grew up in the area.

ACTION TO BE TAKEN

COPIES TO:

REPORT OF TELEPHONE CONVERSATION

DATE June 13, 1988 TIME 8:15 (AM) PM
PROJECT COLM Well

NPS PERSON ON CALL: Beth Voelkel ☐ I CALLED ☒ S/HE CALLED

PERSON Al Cerise
ORGANIZATION
ADDRESS

TELEPHONE NO. EXT.

SUBJECTS DISCUSSED I explained what we found last Thursday in the field. There is no sign of the 1925 well in the area, the well in the well house has been plugged and is not used. The well which is being used is piped through the same system as the house well and is less than 300 feet from the house well. We believe the 1925 well was located in very nearly the same location as the two visible wells but has since disappeared - caved in. The 1954 well is probably the one in the well house although the location is wrong. The well currently in use was probably drilled in 1972 as a replacement.

Wells drilled in 1972 cannot be late registered but Al Cerise suggests that we use the 1954 priority date and give the 1972 location.

ACTION TO BE TAKEN

COPIES TO:

REPORT OF TELEPHONE CONVERSATION

DATE June 1, 1988 TIME 10:00 (AM)/PM
PROJECT COLM Well "C"

NPS PERSON ON CALL: Beth Voelkel ☒ I CALLED ☐ S/HE CALLED

PERSON Merle Palmer and Al Cerise
ORGANIZATION
ADDRESS

TELEPHONE NO. EXT.

SUBJECTS DISCUSSED I have arranged to meet them on Thursday June 9 at the Visitor's Center at 11 am. We'll look at the well (bring camera!) and discuss historical information. If time permits they will show me the 1981 wells at the West Entrance — or Al Cerise says they're easily visible as you enter West Entrance they'll be on the left and behind a little.

Al Cerise will wait to submit his inspection until after we meet.

ACTION TO BE TAKEN

COPIES TO:

June 1, 1988

Pat,

I need a copy of Civil Action 7327 which includes information on the Robb Artesian Well (50 gpm with May 1, 1925 priority date). This case was apparently thrown out by the judge but anything we can find out about this well may be useful.

Thanks!
Beth

Colorado Water Division 5

Peggy Jordan -- 945-8109

Beth,
The above number is for a contact in Water Division 5 from whom you can obtain a copy of the Civil Action. Deirdre said the State Engineer's office has a copy too.

REPORT OF TELEPHONE CONVERSATION

DATE ~~May~~ June 1, 1988 TIME 8:30 (AM) PM

PROJECT COLM Well "C"

NPS PERSON ON CALL: Beth Voelkel ☒ I CALLED ☐ S/HE CALLED

PERSON Al Cerise

ORGANIZATION Well Inspector – Colorado Water Division 5

ADDRESS

TELEPHONE NO. (303) 945-5665 EXT.

SUBJECTS DISCUSSED He did the field investigation yesterday and found out some interesting things. He says the Colo. Division of Water Resources believes this is for use at only one house – we need to indicate two houses, Ranger residences, or whatever. Also this well is apparently the old Robb Artesian Well which was decreed 50 gpm and first used on May 1, 1925. Because of the early priority we are eligible to claim all 50 gpm. We need to put 1.5 acre-feet on the ~~applic~~ late registration on well. We need to send an "amended" late registration with this new information, a cover letter, and the originals that were returned to us. In the cover letter we need to mention the Robb Artesian Well as described in Civil Action 7327 ~~Kobrich~~ case although this case was thrown out by the judge. Also explain that this was an old ranch house ~~agreed~~ agreed by the NPS.

ACTION TO BE TAKEN ① Prepare amended late registration
② Prepare cover letter for Owen's signature

COPIES TO:

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:
L54 (479)
RMR/COLM Water Rights
X COLM Docket #2

May 19, 1988

Memorandum

To: Superintendent, Colorado National Monument

From: Acting Chief, Water Rights Branch

Subject: Registration of Well "C"

At a March 23, 1988 meeting with National Park Service staff, Al Cerise, Water Commissioner for Wells for Colorado Water Division 5, indicated that a well, located in the southeastern portion of Colorado National Monument, had not, to his knowledge, been properly registered with the State of Colorado. Upon further investigation, the NPS Water Resources Division (WRD) verified that actions necessary to comply with Colorado water law had not been completed in regard to this well.

Therefore, the WRD recently submitted information to the Colorado State Engineer's Office for late registration of Well "C" (copies attached). The well was registered as "exempt domestic" with a priority date of 1954, the year in which it was first used. In Colorado, "exempt" wells are exempt from most of the provisions in Colorado statutes article 37-92 regulating ground water use [Colorado Statutes 37-92-602(1)]. Should a shortage of water develop in the area, these wells are not subject to use restrictions as "non exempt" wells may be.

The "exempt domestic" classification was chosen because it is a broad classification and is consistent with current use of the well. Under Colorado water law, a well may be considered "exempt domestic" if it is a small capacity well, up to 15 gallons per minute, which supplies household water for no more than three single family residences, irrigation of no more than one acre of lawns and gardens, and watering of domestic animals and stock on farms or ranches [Colorado Statutes 37-92-602(1)(b)]. It is my understanding that Well "C" is used to irrigate lawns at two National Park Service employee residences, the total acreage watered being less than an acre. Household water supply for these residences is not currently provided by Well "C". Should the Monument opt to use Well "C" for this purpose it would be consistent with the well's registration and no further notification of the State would be required.

However, if the use of the well were to be changed to uses not consistent with the classification of "exempt domestic", such as water supply for ranger

stations or campgrounds, specific actions will need to be taken to comply with Colorado water law. The process can be lengthy and must be completed prior to implementation of a change in use.

If you have any questions regarding this registration please contact me or Beth Voelkel of my staff at (303) 221-5341.

Owen R. Williams

Owen Williams

cc: Hermance, RMR
Chief, WRD
Chief, WRB

REPORT OF TELEPHONE CONVERSATION

DATE May 4, 1988 TIME 8:45 (AM)/PM
PROJECT COLM Well "C"

NPS PERSON ON CALL: Beth Voelkel ☒ I CALLED ☐ S/HE CALLED

PERSON Al Cerise
ORGANIZATION Well Inspector - Division 5
ADDRESS Colorado Division of Water Resources P.O. Box 396
Glenwood Springs, CO 81602
TELEPHONE NO. 945-5665 EXT.

SUBJECTS DISCUSSED He said the way regulations are today there is no reason we couldn't change a "domestic exempt" well to "commercial." He said it would be fine to do that if we ever need to use the water for the public later.

We need to "late register" the well. This is a $60 fee and will require a field inspection. Al Cerise said he will be near there in a while so he'll take care of it. All we need to do is get the paperwork in.

ACTION TO BE TAKEN

COPIES TO:

REPORT OF TELEPHONE CONVERSATION

DATE ~~April~~ May 2, 1988 TIME 8:45 (AM)/PM
PROJECT COLM Well

NPS PERSON ON CALL: Beth Voelkel ☒ I CALLED ☐ S/HE CALLED

PERSON Al Cerise
ORGANIZATION Well Inspector - Division 5
ADDRESS

TELEPHONE NO. 945-5665 EXT.

SUBJECTS DISCUSSED I explained that the well is currently only used for irrigation of <1 acre total at two residences. I asked how we could register it:
1] COMMERCIAL If we intend to use water for the public we must go with commercial. But cannot use commercial "exempt" because water may only be used for sanitation, etc. forbidden to use as outdoor irrigation. Also will get 1988 priority as cannot "late register" a commercial well. To get commercial status must apply for a permit and then ~~get~~ submit driller's log, etc. to ours prove. Another problem with "commercial exempt" is the limit of 1/3 afy → may not use for domestic use at residences because they figure ~ 1/2 afy per household for sanitation and irrigation of lawn and garden. But if we register commercial not exempt we're okay. Also, Mr. Cerise says we're the last call on the river where we're located so our well shouldn't be affected regardless of priority date.

—MORE—

ACTION TO BE TAKEN

COPIES TO:

REPORT OF TELEPHONE CONVERSATION

DATE _____ TIME _____ AM/PM

PROJECT _____

NPS PERSON ON CALL: _____ ☐ I CALLED ☐ S/HE CALLED

PERSON _____

ORGANIZATION _____

ADDRESS _____

_____

TELEPHONE NO. _____ EXT. _____

SUBJECTS DISCUSSED _____

2] DOMESTIC EXEMPT If water is not to be available to general public we may go with domestic "exempt." This will cover sanitary and other household uses as well as irrigation of lawn and garden for up to 3 residences. Here we could late register and receive 1954 priority but, again, we're limited to domestic/residential use.

ACTION TO BE TAKEN _____

COPIES TO: _____

REPORT OF TELEPHONE CONVERSATION

DATE April 29, 1988 TIME 2:00 AM/(PM)
PROJECT COLM Well "C"

NPS PERSON ON CALL: Beth Voelkel ☒ I CALLED ☐ S/HE CALLED

PERSON Merle Palmer
ORGANIZATION COLM Chief of Maintenance
ADDRESS

TELEPHONE NO. (303) 858-3617 EXT.

SUBJECTS DISCUSSED The Well is in Mesa County but he doesn't have exact location. Although there are other wells at COLM, this is the only well in the vicinity. He doesn't know what the casing program is but estimates 6" or so diameter for the entire depth. Both the well and its place of use are within park boundaries on NPS land.
Currently the wells ~~is~~ not in use but it is intended to be used strictly for irrigation of two NPS employee (family) residences — total acreage less than one acre. This is the only well water used at the residences — drinking/household water is supplied commercially.

ACTION TO BE TAKEN Need to reconfirm "exempt commercial" status with Al Cerise.

COPIES TO:

REPORT OF TELEPHONE CONVERSATION

DATE April 29, 1988 TIME 9:15 (AM)/PM
PROJECT COLM Well "C"

NPS PERSON ON CALL: Beth Voelkel ☒ I CALLED ☐ S/HE CALLED

PERSON Al Cerise
ORGANIZATION Well Inspector, Water Division 5
ADDRESS Glenwood Springs

TELEPHONE NO. 945-5665 EXT.

SUBJECTS DISCUSSED I asked which form to fill out, what the filing fee was, and where to send it:
Use PERMIT APPLICATION FORM —
Top: X's in first 3 brackets
1: NPS or whatever
2:
3: maximum pumping rate = 15 gpm
annual amount to be appropriated = 1/3 afy
acres irrigated = Ø
aquifer = unknown
well name = our own ID code
mark "Commercial" and type in exempt
4: "owner drilled"
5:
6:
7:
8:
9: Does not apply
10:
11: mention type of septic system (non-evaporative) and use of the water (non-residential ranger station)
12: probably none
13: signature.

ACTION TO BE TAKEN

The filing fee is $60 and application should be sent to address at top of application. Application must be typed or written with black ink.

COPIES TO:

REPORT OF TELEPHONE CONVERSATION

DATE April 28, 1988 TIME 3:20 AM/(PM)
PROJECT COLM Well "C"

NPS PERSON ON CALL: Beth Voelkel ☐ I CALLED ☒ S/HE CALLED

PERSON Nancy Bailey
ORGANIZATION Water Clerk, Division 5
ADDRESS

TELEPHONE NO. 945-8109 EXT.

SUBJECTS DISCUSSED The final decree in those cases are quite extensive and deal primarily with oil shale. ~~She~~ I'll call her back and she may be able to read the part of the decree dealing with COLM wells if she can find it. There may be no specific mention of Well "C".

April 29, 8:30 a.m.

Nancy said this case has had little action in the last 10 years. There are so many exhibits that she wasn't able to pinpoint which might include this particular well. Copies of all the info are on file at the State Water Resources offices in Denver (Jean Daniel's office). She suggested we drive down and take a look if we need to find out.

She said John Hill is contacting all objectors and attempting negotiations thus the pre-trial hearing is not to be held for another year yet — April 4, 1989 at 2:00 p.m. So no other information is available and no final decree ~~is~~ has been considered.

ACTION TO BE TAKEN

COPIES TO:

REPORT OF TELEPHONE CONVERSATION

DATE April 28, 1988 TIME 4:15 AM/(PM)
PROJECT COLM Well "C"

NPS PERSON ON CALL: Beth Vaelkel ☐ I CALLED ☒ S/HE CALLED

PERSON Al Cerise
ORGANIZATION Well Inspector, Water Division 5
ADDRESS

TELEPHONE NO. 945-5665 EXT.

SUBJECTS DISCUSSED He said the well would be considered "commercial exempt." Since the public has access to the water it cannot be "domestic" → thus we cannot file for late registration. "Exempt" means "exempt from administration" so that priority date becomes irrelevent. He said regardless of the final decree we should go ahead and file. The advantage of filing is to declare it exempt so that it may not be administered by the state — without filing, the state may have some jurisdiction as far as plugging it, etc. because it may not be considered exempt under strictly administrative circumstances (over adjudication of the basins, etc.)

ACTION TO BE TAKEN

COPIES TO:

COLM 4/28/88

To discuss with State Engineer :

WELL "C"

Grand Junction Entrance water supply → domestic, public use, fire prot.
SE SE Sec. 30 T1S R1W Ute Meridian
0.033 cfs (15 gpm)

Late Registration? Application for Underground Water Right? What is the significance of exempt? If exempt, do we still register late? Priority date? What about Division 5 Case No.s W-467 and W-469 where we claimed this water right as appropriative (March, 1978) — "the United States is entitled to its true date of priority for its appropriative claims."

Division 5 Engineer, Orlan Bell 945-5665 (spoke yesterday with water referee, Ray Walker and water clerk, Nancy Bailey)

Called at 1:30 → said I ought to talk with the well inspector, Al Cerise. Mr. Cerise will call tomorrow.

REPORT OF TELEPHONE CONVERSATION

DATE April 28, 1988 TIME 1:50 AM/(PM)
PROJECT COLM Well "C"

NPS PERSON ON CALL: Beth Voelkel ☒ I CALLED ☐ S/HE CALLED

PERSON Nancy Bailey
ORGANIZATION Water Clerk - Division 5
ADDRESS

TELEPHONE NO. 945-8109 EXT.

SUBJECTS DISCUSSED She'll send us the final court ruling on Cases W-467 and W-469. She'll get them in the mail by tomorrow afternoon.

ACTION TO BE TAKEN

COPIES TO:

REPORT OF TELEPHONE CONVERSATION

DATE April 27, 1988 TIME 3:45 AM/(PM)
PROJECT COLM - 1954 Well

NPS PERSON ON CALL: Beth Voelkel ☒ I CALLED ☐ S/HE CALLED

PERSON Nancy Bailey / Ray Walker ← Water Referee, Div 5
ORGANIZATION Water Clerk — Colorado Division 5
ADDRESS Glenwood Springs

TELEPHONE NO. 945-8109 EXT.

SUBJECTS DISCUSSED The only well for COLM she was able to locate was COLM G in section 32, T 1N, R2W. She transferred me to the Water Referee.

He said we could file on the well as an exempt well since it is 15 gpm but if its for camping, etc. it would be an exempt commercial as opposed to exempt domestic. The legislation referenced is 37-92-602(1)(c) and (b). Since the well was drilled prior to 1972, there is no need to file have a permit. Since it is exempt we don't need to file in order to use the water but if shortages develop in the future we'll be better off to have established our priority. He says they'll probably give us the 1954 priority date. We need to file an Application for Underground Water Right.

Nancy also said to try the Division Engineer, Orlan Bell, at 945-5665

ACTION TO BE TAKEN Alice thinks we'll need the State Engineers Opinion because she thinks we'll need to submit a form for late registration as well.

COPIES TO:

REPORT OF TELEPHONE CONVERSATION

DATE 4/12/88 TIME 8:30 (AM)/PM
PROJECT COLM Well Registration

NPS PERSON ON CALL: Beth Voelkel ☒ I CALLED ☒ S/HE CALLED Back

PERSON Merle Palmer
ORGANIZATION Chief of Maintenance, COLM
ADDRESS

TELEPHONE NO. (303) 858-3617 EXT.

SUBJECTS DISCUSSED I asked if the well in the SE part of the monument might be "Well C" drilled in the 1950's. He said it probably was but he didn't have a legal description. I gave him the legal description and he said he'd check it with topos to try to place the well. He'll call back when he determinis where it is.

8:45 a.m. → The legal description for "Well C" fits the location for the well in the SE part of the monument

ACTION TO BE TAKEN

COPIES TO:

Owen -

There are apparently at least four wells located near the southeast boundary of COLM. All are within the SE/4 SE/4 Section 30, Township 1 North, Range 1 East, Ute PM.

Name	Date Completed
Well "A"	October 10, 1952
Well "B"	February 10, 1953
Well "C"	August 16, 1954
East Entrance Well	May 26, 1972

These were all drilled as "test" wells and the first two, though apparently never fully developed, were filed on in June of 1953. These were not State filings but merely "Record of Well" forms completed for USGS. A similar form was completed for Well "C" on September 10, 1954.

A "Supplemental Adjudication Proceeding" was initiated in February 1952 and continued for several years (Civil Action No. 8303). On September 17, 1953 the need to drill the third well was deemed an "urgent need in connection with the pending adjudication of rights in Colorado Water District No. 42..." A minum amount of money was considered necessary in order to show adequate "progress at the April session of the District Court in 1955, on the assumption that a conditional decree will be granted this year." (Memo of September 17, 1953) Neither Well "A" nor Well "B" were considered to have sufficient and reliable flows, therefore the third well (Well "C") was to be drilled. The water was to be stored in a small reservoir and total use was claimed was 0.0445 cfs with a March 23, 1942 priority date. The flow rate and priority date are associated with the No Thoroughfare Pipe Line which was built for distribution of the well water.

Apparently the distribution system, as proposed, was filed for on March 23, 1942 with the State. Wells "A", "B", and "C" were drilled in accordance. An "Application for Underground Water Right" was completed for Well "C" for filing in the adjudication. The copy in our file is neither dated nor signed

So it may never have been filed. The United States submitted "Proposed Findings of Fact, Conclusions of Law, and Decree" pursuant to a Court Order dated December 16, 1974. The document includes Well "C" as the only water right "based upon appropriation and application to beneficial use." It stated a 1954 date of initiation of appropriation, claimed 0.033 cfs and stated domestic and public use and fire protection as the proposed use.

Apparently, although Well "C" was not a "replacement well", it was the only well of the three that had been put to beneficial use.

The East Entrance Well was drilled on May 26, 1972. There is no indication of this one having been filed. It presumably was not drilled as a "replacement well" because of the 1974 filing on Well "C." Though it was apparently a productive well, there is no indication in the dockets that it was ever fully developed.

I think the well you are probably interested in is Well "C" in which case filing has apparently been made although we don't have the file-stamped copy of the document from DOJ.

Hope this is helpful!

Beth

11-15-1988: in toady's mail the wrb received out amended late registration for well 'c' at colorado national monument; november 1

Tuesday 15 November 1988

In today's mail the WRB received out Amended Late Registration for Well "C" at Colorado National Monument. This time the application was returned because "Well 'C' is known as Robb Artesian Well. In CA-7327 it is decreed for stock use only. Changes of decredd use must be applied for in Division 5 Water Court." I looked back through our records and located information about why we had not registered this as the Robb Artesian Well. The Robb Artesian Well was drilled in 1925 to a depth of around 600 feet (according to recollection of Al Cerise, recently retired employee of Colorado Water Division 5 who grew up in the area). The land was acquired in 1934 by the National Park Service and Well "C" was drilled in 1954. This well is located inside the current well house. In 1972 the East Entrance Well, drilled to 303 feet, was drilled about 150 feet southeast from and replaced Well "C" which was capped. The East Entrance Well is piped through the same system as Well "C" was.

The WRB chose to late register the well for several reasons. First of all, Al Cerise did not recall the currently used well as on the Coloado State Engineer's listing of wells. Since the Robb Artesian Well <u>is</u> on this listing it was preliminarly assumed that the current well was not the Robb Artesian Well. Upon further investigation, it was decided that the Robb Artesian Well had caved in at some point and, therefore ceased to exist. Thus the NPS could not claim to have acquired this water right in 1934 although it may have existed at that time. The discrepancy in depths led us to further believe that the current well could not be the Robb Artesian Well. Since the 1972 East Entrance replaced the 1954 Well "C", the NPS chose to register the well as Well "C" and claim the 1954 priority date.

At 3:45 I called Dwight Whitehead of Colorado Water Division 5 who did the field inspection on our application and sent the information to Mel Malley at the Denver Division of Water Resources (who reviewed the application and returned it to us). I explained the above information to Dwight. He explained that he had talked further with Merle Palmer at COLM who grew up in the area and is familiar with the well. Merle now says that he thinks the 1954 well was actually not a new drilling but a deepening and cleaning of the old Robb Artesian Well. This would explain the disappearance of the old well and would also give the NPS a 1925 priority date.

Dwight read me excerpts of some decrees and CA-7327 concerning the Robb Artesian Well and the Welby Schrader #1 Well. These wells (Welby is not on NPS land) were to be used in conjunction with one another to provide "domestic and primarily stock" water. The 0.011 cfs decreed could be drawn from either of the two wells or from any combination of the two. The priority date was May 1, 1925. The Robb Artesian Well is listed as being decreed on August 23, 1948 and earlier decreed on March 27, 1944.

He suggests I call Mel in Denver and ask if we should go through the water court to change our use of the Robb Artesian Well. Since domestic is included we may not need to. Dwight will send me copies of the decrees and other information. He'll call Mel and ask if he can send a copy of his field report as well.

Dwight called me at 4:20. He talked to Mel and he thinks they've got a solution. He said Mel suggests we file an Amendment of Existing Record for the Robb Artesian Well, CA-7327. This is done on the same form as we've been sending in for late registration. Go ahead and put all the pertinent informatin from the 1972 well but change the amoutn used to coincide with 0.011 gpm as decreed and change the priority date to May 1, 1925. Also, take "exempt" out of the statement of use because the Robb Artesian Well is in the priority system and cannot be exempt. This is okay because 1925 is an early priority and there aren't any other wells in the area to cause this one to be shut down because it is out of priority. I said that sounded okay to me but I will discuss with Owen. He will call Mel and tell him that we'll do this so the Division of Water Resources will just ignore our late registration. Also he has the okay to send us all the information we requested including his report so he'll get that in the mail for us.

Beth Voelkel

15 June 1988

Summary of Trip – June 9, 1988

West Entrance Well

All we need to do is complete the well registration and then submit yearly use records – in October or November. Merle Palmer has agreed to do the yearly use record and will cc: us on them. There is a 10-year non-use stipulation. They are pumped at 15 gpm for 24 hrs once a month to fill the tanks.

East Entrance Well

This well is likely neither the Robb Artesian Well nor Well "C". It is probably actually the East Entrance Well drilled in 1972. Our map shows "Well "C" just outside the boundary but there is no sign of a well at that location. Well "C" is probably the capped well in the well house. The 1972 well is about 150 feet (60 ft south and 135 ft east) southeast of the well house and is pumped through the same piping system as the housed well used to be.

This pipe system probably existed long before the 1972 well was drilled as the Devil's Kitchen Picnic Area was to have been plumbed. There is currently a large storage tank northwest above the Picnic Area which supplies the Picnic Area and the domestic water for the two NPS houses. Merle Palmer says that the Ute Water Supply fills this tank because disinfection would have been required for well water used at the public picnic area. Actually there is no detectable chlorine residual in the Ute Water Supply so they are employing batch chlorination at the tank anyway.

The Robb Artesian Well has a 1925 priority date and is listed as a deep well (close to 600 feet) in the same area as the two existing wells. In the field, however, there is no evidence of this early well. It has probably long since caved in and been entirely obliterated.

The land around the wells, both within and outside Monument boundaries is disturbed. There are several small corrals, some dismantled, visible. Merle Palmer remembers a movie filmed there many years ago which had corrals and a cabin. We did find one finely cut log, notched

for a building such as a cabin. If a cabin and corrals were on the land it is likely that a well was used. Given the terrain, the Robb Artesian Well may have been located very near the present wells.

Reasonable assumption would be that the Robb Artesian Well has ceased to exist. This land was donated to the National Park Service on February 14, 1934. This is part of Tract No. 01-109 and Deed No. 3. Whether the Robb Artesian Well existed and was properly acquired is not known.

Al Cerise believes it would be reasonable to treat the 1972 well as a replacement for the 1954 well. This is simpler because a 1972 well may not be Late Registered. So he says we should amend our Late Registration to indicate 50 gpm with the 1954 priority date. If the 1925 well has been abandoned, the State would like to know this so that their records may be updated. Again, however, it is not clear whether the Robb Artesian Well was ever Federal property and, if so, can it truly be "abandoned?" Because the East Entrance Well is to be "exempt" there will be no need to furnish yearly use records as with the West Entrance Wells.

6/9/88
COLM

The well of concern is referred to as the East Entrance Well. This well is apparently neither the Robb Artesian Well nor the well drilled in 1954 as well "C." The East Entrance Well lies approximately 45 yards east and 20 yards south of the capped well enclosed in the well house (presumably well "C"). The East Entrance Well was drilled in 1972 and now supplies irrigation water for two NPS employee residences. It was also used to supply the domestic water for these residences and a drinking water (water fountain) supply for the Devil's Kitchen picnic ground. The public and domestic use from this well was discontinued when it was determined that chlorination would be required. These uses are currently supplied commercially by the Ute water supply (although batch chlorination of the tank is required anyway).

We believe the location of Well "C" is incorrect as it is shown on the topo as outside the NPS boundary. We found no evidence of any wells outside the boundary and the locations of the current well and the capped well are well within 200 feet of eachother.

DataCom / Made in U.S.A.

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:
L54 (479)
RMR/COLM Water Rights
X COLM Docket #2

May 19, 1988

Memorandum

To: Superintendent, Colorado National Monument

From: Acting Chief, Water Rights Branch

Subject: Registration of Well "C"

At a March 23, 1988 meeting with National Park Service staff, Al Cerise, Water Commissioner for Wells for Colorado Water Division 5, indicated that a well, located in the southeastern portion of Colorado National Monument, had not, to his knowledge, been properly registered with the State of Colorado. Upon further investigation, the NPS Water Resources Division (WRD) verified that actions necessary to comply with Colorado water law had not been completed in regard to this well.

Therefore, the WRD recently submitted information to the Colorado State Engineer's Office for late registration of Well "C" (copies attached). The well was registered as "exempt domestic" with a priority date of 1954, the year in which it was first used. In Colorado, "exempt" wells are exempt from most of the provisions in Colorado statutes article 37-92 regulating ground water use [Colorado Statutes 37-92-602(1)]. Should a shortage of water develop in the area, these wells are not subject to use restrictions as "non exempt" wells may be.

The "exempt domestic" classification was chosen because it is a broad classification and is consistent with current use of the well. Under Colorado water law, a well may be considered "exempt domestic" if it is a small capacity well, up to 15 gallons per minute, which supplies household water for no more than three single family residences, irrigation of no more than one acre of lawns and gardens, and watering of domestic animals and stock on farms or ranches [Colorado Statutes 37-92-602(1)(b)]. It is my understanding that Well "C" is used to irrigate lawns at two National Park Service employee residences, the total acreage watered being less than an acre. Household water supply for these residences is not currently provided by Well "C". Should the Monument opt to use Well "C" for this purpose it would be consistent with the well's registration and no further notification of the State would be required.

However, if the use of the well were to be changed to uses not consistent with the classification of "exempt domestic", such as water supply for ranger

stations or campgrounds, specific actions will need to be taken to comply with Colorado water law. The process can be lengthy and must be completed prior to implementation of a change in use.

If you have any questions regarding this registration please contact me or Beth Voelkel of my staff at (303) 221-5341.

Owen R. Williams

Owen Williams

cc: Hermance, RMR
Chief, WRD
Chief, WRB

WRJ-25-75

COLORADO DIVISION OF WATER RESOURCES

818 Centennial Bldg., 1313 Sherman St.
Denver, Colorado 80203

TYPE OR PRINT IN BLACK INK. COPY OF ACCEPTED STATEMENT MAILED ON REQUEST.

STATE OF COLORADO
COUNTY OF Larimer } SS.

AFFIDAVIT

_____ STATEMENT OF BENEFICIAL USE OF GROUND WATER
_____ AMENDMENT OF EXISTING RECORD
__X__ LATE REGISTRATION

PERMIT NUMBER _____

LOCATION OF WELL

THE AFFIANT(S) Owen R. Williams, on behalf of the United States of America, National Park Service, whose mailing address is 301 S. Howes St., Room 335

City Fort Collins, CO 80521 (STATE) (ZIP)

County Mesa

SE ¼ of the SE ¼, Section 30

Twp. 1 S (N OR S), Rng. 1 W (E OR W), Ute P M

being duly sworn upon oath, deposes and says that he (they) is (are) the owner(s) of the well described hereon; the well is located as described above, at distances of 319 feet from the South (NORTH OR SOUTH) section line and 276 feet from the East (EAST OR WEST) section line; water from this well was first applied to a beneficial use for the purpose(s) described herein on the ____ day of _____, 19 54; the maximum sustained pumping rate of the well is _____ gallons per minute, the pumping rate claimed hereby is 15 gallons per minute; the total depth of the well is 258 feet; the average annual amount of water to be diverted is _____ acre-feet; for which claim is hereby made for domestic (exempt) _____ purpose(s); the legal description of the land on which the water from this well is used is part of the SE1/4 SE1/4 Section 30, Twp 1S, Rng 1W, Ute P.M. of which less than one acres are irrigated and which is illustrated on the map on the reverse side of this form; that this well was completed in compliance with the permit approved therefor; this statement of beneficial use of ground water is filed in compliance with law; he (they) has (have) read the statements made hereon; knows the content thereof; and that the same are true of his (their) knowledge.

(COMPLETE REVERSE SIDE OF THIS FORM)

Signature(s) Owen R. Williams

Subscribed and sworn to before me on this 17th day of May, 19 88

My Commission expires: 2-21-90 (SEAL)

Mary Anne Atencio
NOTARY PUBLIC

ACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO PURSUANT TO THE FOLLOWING CONDITIONS:

FOR OFFICE USE ONLY

Court Case No. _____

Prior. _____ Mo. ____ Day ____ Yr. ____

Div. _____ Cty. _____

Sec. _____ ____ ¼, ____ ¼, ____ ¼,

Well Use _____ _____ _____ _____

Dist. _____ Basin _____ Man. Dis. _____.

DATE _____ STATE ENGINEER _____ BY _____

Well drilled by Colorado Water Well Co. Lic. No. 149

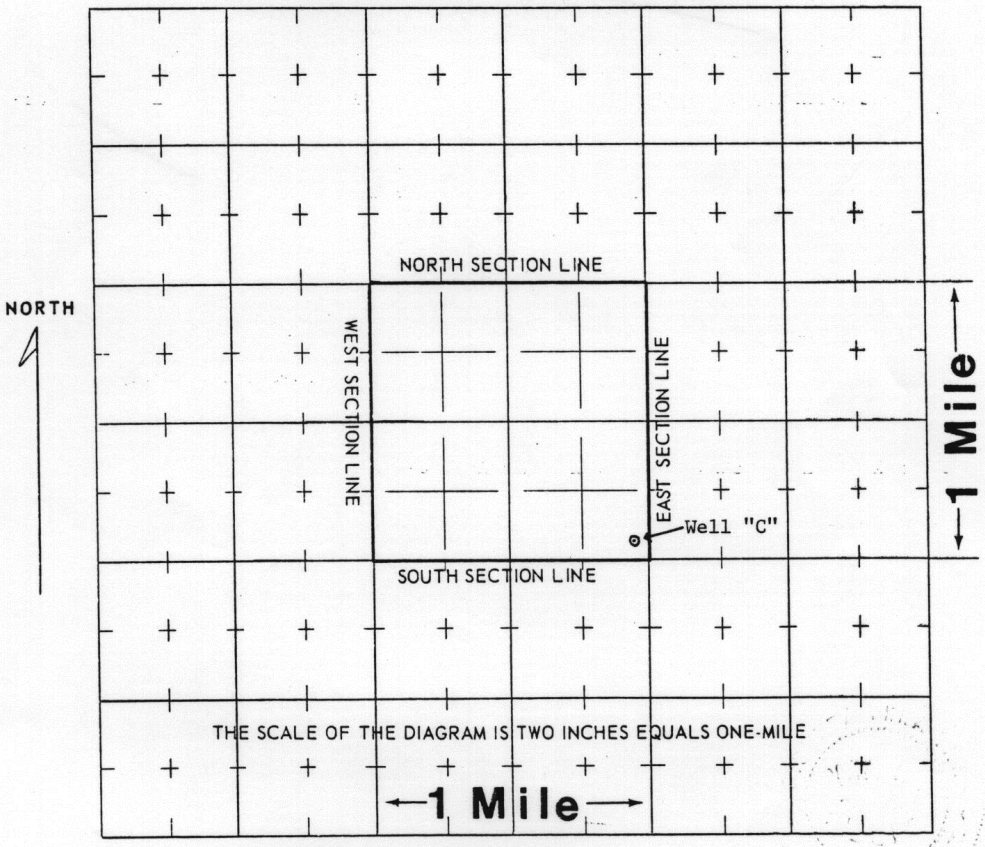
Permanent Pump installed by _____ Lic. No. _____

Meter Serial No. _____ ☐ Flow Meter Date Installed _____

Owner of land on which water is being used United States of America, National Park Service

THE LOCATION OF THE WELL MUST BE SHOWN AND FOR LARGE CAPACITY IRRIGATION WELLS THE AREA ON WHICH THE WATER IS USED MUST BE SHADED OR CROSS-HATCHED ON THE DIAGRAM BELOW.

This diagram represents nine (9) sections. Use the **CENTER SQUARE** (one section) to indicate the location of the well, if possible.



WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep.
1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm).
1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.
100 gpm pumped continuously for one year produces 160 acre-feet.

**(WHITE AND PINK COPY TO BE FILED WITH THE STATE ENGINEER
PINK COPY WILL BE RETURNED TO OWNER)**

REPORT OF TELEPHONE CONVERSATION

DATE May 4, 1988 TIME 2:00 AM/(PM)

PROJECT COLM Well "C"

NPS PERSON ON CALL: Beth Voelkel ☒ I CALLED ☐ S/HE CALLED

PERSON Hank Shock

ORGANIZATION Acting Superintendent, COLM

ADDRESS

TELEPHONE NO. 858-3617 EXT.

SUBJECTS DISCUSSED He said the total acreage irrigated is probably less than half an acre. It is all located in the SE/4 SE/4 Section 30 T1S R1W Ute Meridian. There is an old picnic area (from CCC days) which had plumbed toilets but it was built in the 1930's. He knows of no other well nearby and thought maybe this well was used them. Our information doesn't indicate this. Also, the houses were Mission '66 residences so he knows the well existed at least that early — he felt 1954 would be consistent. He doesn't think the park has anything to indicate the exact date water was first used from the well.

The residences lie WSW of the well.

ACTION TO BE TAKEN

COPIES TO:

April 4, 1988

L54(479)
RMR/COLM Water Rights

Memorandum

To: Regional Director
Rocky Mountain Region

From: Acting Chief
Water Resources Division

Subject: Transmittal of trip report regarding travel to Colorado National Monument

Attached is a trip report Owen Williams prepared regarding his travel to Colorado National Monument March 23, 1988. The purpose of the trip was to meet with representatives of the Colorado State Engineer's Office to discuss the registration of wells at the Monument.

If you have questions, please contact Owen at (303) 221-5341.

Stanley L. Ponce

Stanley L. Ponce

Attachment

cc: Superintendent, COLM
Hermance, RMR-MR

FNP:PLarson:pml:3/30/88:221-5341:#102

This issue is mentioned on page 3

March 28, 1988

L54 (479)
RMR/COLM Water Rights

Memorandum

To: Acting Chief
Water Resources Division

Through: Chief, Water Rights Branch
Water Resources Division

Stanley L. Ponce

From: Hydrologist, Water Rights Branch
Water Resources Division

Subject: Trip Report - Colorado National Monument (COLM) - March 23, 1988

Purpose: The purpose of this trip was to meet with representatives of the Colorado State Engineer's Office to discuss the registration of wells at COLM.

Itinerary: Attached.

Discussion: The Water Rights Branch was contacted by the Rocky Mountain Region and asked to provide staff to accompany Mr. Ron Hermance to a meeting with Mr. Alvin L. Cerise, Water Commissioner for Wells of the Colorado Division of Water Resources, Department of Natural Resources, State Engineer's Office (Water Division No. 5) (CDWRe). WRB representation was requested by RMR because of the Branch's earlier involvement with the issue. Because of a conflict, Mr. Hermance was forced, at the last minute, to cancel his participation in the meeting.

In brief, the historical facts of WRB's role in this issue are as follows. The NPS developed water wells at COLM in October of 1980 and had a conditional water right approved on December 21, 1981. However, NPS failed to complete the registration process required under Colorado water law. The State notified RMR of this lapse in May of 1983 (more than a year after the expiration date of the well permit). The Water Court cancelled the conditional water right in March of 1986 and in September the State cancelled the well permit.

The WRB was requested to specifically address the situation in October 1985 at which time WRB provided information to and requested actions by COLM and RMR to meet State requirements. In February of 1986, the WRB was informed by DOJ attorney John Hill, that actions had not been completed to resolve the issue

and the Conditional Water Right was being declared abandoned by the Water Court. At this time WRB initiated a more active role in the process to meet the State's requirements. The result of this effort was the preparation of all materials necessary for submission to the State Engineer's Office and the Water Court for Water Division No. 5 with the exception of required pump test information. WRB supplied the available materials to RMR which was to affix the Regional Director's signature, arrange for the completion of the necessary pump test and, when the pump test was completed, submit the package to the State Engineer's Office. Finally, when everything was in order and a new permit was in hand, the court was to be petitioned, through DOJ, for an absolute water right.

Messrs Alvin Cerise and Mark Klocker (CDWRe) requested the meeting of March 23, 1988, at Colorado National Monument Headquarters to suggest that the NPS follow through on a new application for water rights on the subject wells. Mr. Cerise offered the NPS copies of the documentation he had concerning the wells so that our files might be complete. He began the discussion under the erroneous assumption that the applications he possessed were the early ones which had already expired. If this were correct it would necessitate beginning the registration process anew. I pointed out that the ones he had were, in fact, new ones which only needed to be acted upon by the court to effect an absolute water right.

Merle Palmer (COLM) then produced a package of materials that COLM had received from the State in early March. The cover letter accompanying the package requested corrections of certain deficiencies in the application for ground water rights submitted in 1986. I was unfamiliar with the package and became familiar with its contents at the same time as the rest of the assembled group. The deficiencies were easily corrected with one exception - the well pump test.

As described above, when the WRB worked on this issue, the pump test was identified as being needed to effect the completion of the registration requirements. In fact, when I was last at the Monument I traveled to Clifton, Colo., to meet with the individual who installed the existing pump. The purpose of my meeting with this individual was the acquisition of the needed documentation. However, no pump test had been performed during pump installation (I learned at COLM that it was carried out later by the NPS). Therefore, to meet the requirements of the State or, rather, make a good faith effort to meet those requirements, I had the pump installer attest to that part of the process for which he was responsible and planned to have the deficient information provided from a new pump test which RMR was later asked to provide.

This material was given to RMR (Ron Hermance) to be submitted to the State, along with the actual pump test data, when such became available, to comply with State law. Once the well was again registered, DOJ could file with the water court an application for an absolute water right. The information which the State sent to COLM, and which was discussed at this meeting, indicates this was not done. Recollections of the staff at COLM support this contention.

As things now stand, the State has issued two permits (one for each well) to a) use ground water, b) construct a well, and c) install a pump at each of the wells in question. These permits were issued on July 7 (or July 2), 1987 and expire on July 2 (or June 7), 1988 (the imprecision is in the permits themselves). However, the State has returned to COLM the 'Well Completion and/or Pump Installation Report' with a request for more data. The memo returning this report was dated March 2, 1988, and requested the return of the corrected material within five days of receipt.

The information requested in the memo is as follows:

1. Corrected location (wrong Principal Meridian);
2. Date of well test;
3. Static water level;
4. Length of test;
5. Sustained yield in gpm;
6. Final pumping level; and
7. Use of only original application forms.

An information sheet provided with the request for additional information stated that the 'Well Completion and Pump Installation Report' must be submitted to the State within sixty days of completion of the work or within seven days of the expiration of the well permit, whichever is earlier. Technically, a completion report has been submitted; it merely requires revision (this was the intent of our original action). However, the State has been most accommodating in this matter and the permits **will soon expire** without a valid water right. **Time is, as it has been all along, of the essence.**

Mr. Cerise also noted that he had no record of a water right or registration on the well located in the southeast portion of the Monument. Messrs Palmer and Schock (COLM) both noted that the well had been in existence for a very long time, perhaps even having an origin that dated from the 1930s. Cerise, Klocker and I discussed this date and the purpose of the well in relation to Colorado's water law and its exemption provisions. It was determined, however, that more information was needed before a determination could be made on whether or not registration was necessary.

The group at large also discussed the record-keeping requirements associated with the wells at COLM. Mr. Cerise described his needs for preparing use reports for the State Engineer's Office. I then pointed out the maxim that 'beneficial use is the measure and the limit of a water right' under the doctrine of prior appropriation. This led to additional discussions of approaches for making greater use of this water.

Contacts: Alvin L. Cerise, Colorado Division of Water Resources
Mark Klocker, Colorado Division of Water Resources
Hank Schock, Acting Superintendent, COLM
Merle A. Palmer, Chief, Maintenance, COLM

Action Items: Mr. Cerise asked for copies of information we might have with respect to the well in the southeast portion of the Monument. This I agreed to research and provide if appropriate. Aside from this I indicated to the parties in attendance that I would follow up on the deficiencies in the material supplied to the State and on the application to the Water Court for an absolute water right. Having made such a commitment and considering the value of the property at risk and the time span already involved, I recommend that WRB assume responsibility for the completion of this task. This will entail direct coordination with the staff at COLM to arrange for the necessary well test and similar tasks.

I offered no time frames for the completion of the above but, obviously, timeliness is very important. I thus here offer a target completion date of June 15, 1988, for the submission to the State of the corrected registration materials.

Owen Williams

Owen R. Williams

Attachment

March 14, 1960

Montgomery

Memorandum

To: Regional Director, Region Two

From: Acting Supervisory Engineer, WSDC

Subject: No Thoroughfare Canyon, Grand Junction Entrance Water System, Drawing No. 3117 and Records of Wells, Docket No. 2, Colorado

Reference is made to Mr. Gratton's memorandum to the Superintendent of Colorado National Monument, dated February 19, 1960, asking for identity of wells in No Thoroughfare Canyon. The well constructed in 1954 and designated as "C" with pump house No. 52, is the one used for the Grand Junction Entrance water system. There is no change in the designation and location of this well from that shown on Drawing No. 3117.

The construction of the water system is essentially as shown on Drawing No. 3117, except there is a slight change in the curvature of the 2-inch discharge pipe and the elevation of the pump house floor. A bench mark has been established southeast of the pump house. Due to pressure of work for new construction contracts (FY 1960 - 1961), as-built drawings on the Grand Junction Water System will be made at a later date this year.

Signed

Richard T. Montgomery
Acting Supervisory Engineer

In duplicate

Copy to: Chief of D&C
Supt., Colorado
Chief, Water Resources Section

Informational: Mullikin, Wright

AHeubner:tgi

FILE COPY

L54

Box 157, Fruita, Colorado

March 2, 1960

Memorandum

To: Regional Director, Region Two

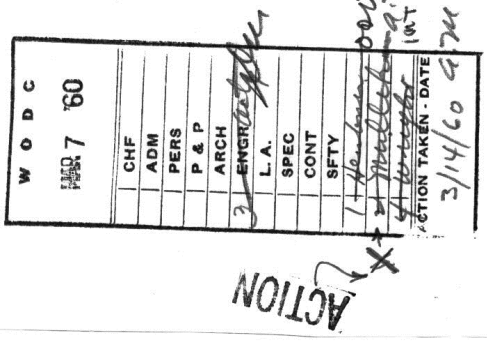
From: Superintendent, Colorado National Monument

Subject: No Thoroughfare Water System, Drawing No. 3117, and Records of Wells, Docket No. 2, Colorado National Monument

It is my understanding that the water distribution system at the Grand Junction Entrance was constructed as shown on drawing No. 3117. In order that there may be no question about it, however, I am furnishing a copy of this memorandum to the Project Supervisor, Mr. Alfred Mullikin of WODC with the request that he advise your office and me if there was any change made in the water distribution system during construction which is not in accordance with drawing No. 3117.

(Sgd) FRED G. BUSSEY
F. G. Bussey
Superintendent

cc-Mullikin with copy of Mr. Gratton's memo of Feb. 19
W.O.D.C.



02-19-1968: memorandum, no thoroughfare water system, drawing no. 3117, and records of wells; february 19, 1968

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Region Two Office
307 Federal Office Building
Omaha 2, Nebraska

ADDRESS REPLY TO:
REGIONAL DIRECTOR, REGION TWO
NATIONAL PARK SERVICE

FEB 19 1960

L54

Memorandum

To: Superintendent, Colorado National Monument

From: Acting Regional Chief of Operations

Subject: No Thoroughfare Water System, Drawing No. 3117, and Records of Wells, Docket No. 2, Colorado National Monument

Mr. Dunn in his memorandum of January 20 asks for confirmation regarding the identity of the wells drilled in developing a water supply for the No Thoroughfare System. He has designated the well drilled in 1952 as "A", the well drilled in 1953 as well "B" and the well drilled in 1954 as well "C".

We have marked our copy of "Record of Well" as well "C" for that well drilled in 1954 to a depth of 258 feet.

Please advise if the water distribution system is located as shown on drawing No. 3117.

Weldon W. Gratton

Weldon W. Gratton
Acting Regional Chief of Operations

N.H #5-2

RECEIVED
FEB 25 1960

E

L54-OBL

January 20, 1960

Memorandum

To: Regional Director, Region Two

From: Chief, Water Resources Section

Subject: No Thoroughfare Water System, Drawing 3117, and Records of Wells, Docket 2, Colorado National Monument

We have just received memorandum of January 8 to me advising that the Superintendent sent copy of log and driller's report of well drilled in 1954 in Sec. 30, depth 258 feet, with copy of memorandum of September 2 to you, which we received. We received another copy of the same log and report with Mr. Castro's memorandum of September 16 (or 18), on which Mr. Mott made certain notes - 9/14/59.

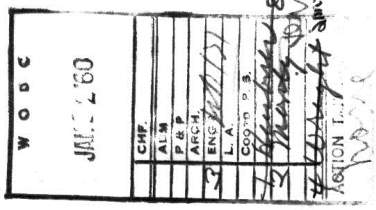
Docket 2 already contained log of well drilled in Sec. 31 in 1952, depth 145 feet, and log of well drilled in Sec. 30 in 1953, depth 66 feet, designated on drawing as Well "B".

I am designating the 1952 well as Well "A", the 1953 well as Well "B", and the 1954 well as Well "C", subject to confirmation. Please confirm, and also advise whether the pipeline has been, or is to be relocated in accordance with Drawing 3117.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Colorado National Monument
Chief, WODC (2)



~~B-5039~~

234

SEP 16 1959

Memorandum

To: Director

From: Assistant Acting Regional Director, Region Two

Subject: No Thoroughfare Water System, Drawing 3117, and Record of Well, Docket 2, Colorado National Monument

Attached is a copy of subject Record of Well for filing in subject docket. We are placing our copy of this Record of Well at the top of Docket 2. – placed in temp. docket 2

The location description (in pencil) has been added by Mr. Mott, September 14, 1959, the township and range designations having been determined from a Geological Survey map. The bearing and distance, as shown in the location block, are in accordance with Mr. Bussy's memorandum of September 2, 1959.

Assistant
Acting Regional Director

WESTERN OFFICE
DESIGN & CONSTRUCTION
SEP 21 1959 A.M.
CHIEF
ADMIN. ASSIST.
PERSONNEL
PLANS & PROG.
SAFETY
ARCHITECT
2 ENGINEER mtg
LAND. ARCH.
1 Headquarters
3 W Right Aw
ACTION TAKEN—DATE
none

In duplicate

Attachment

Copy to: Chief, ~~AWODC~~ (2), w/attachment

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
COLORADO NATIONAL MONUMENT
~~GRAND JUNCTION, COLORADO~~
Box 157, Fruita, Colorado

C/R D5039

September 2, 1959

Memorandum

To: Regional Director

From: Superintendent, Colorado and Black Canyon

Subject: No Thoroughfare Water System, Drawing 3117, and Record of Well, Docket 2, Colorado National Monument

On receipt of Mr. Dunn's memorandum to you dated August 20, 1959, we made a further search of our files and find that the information furnished in my memorandum of July 16 was not the well shown on Drawing 3117. It was, as Mr. Dunn mentioned in the second paragraph of his memorandum, the record of Well "B".

Attached is information regarding the well shown on Drawing 3117, which includes a log of the well. This data was located in a different file than the other well data. We are combining all of the well data into one file.

Please note that the proper location of the well shown on Drawing 3117 is N 40° 52' W, rather than N 46° W as mentioned in Mr. Dunn's memorandum.

I hope that this information will clarify the records and furnish the information needed by your office and the Washington office.

(SGD) F. G. BUSSEY

F. G. Bussey
Superintendent

Copy to: Director w/att
Chief, WODC (2) w/att

WESTERN OFFICE
DESIGN & CONSTRUCTION
SEP 8 1959
CHIEF
ADMIN. ASSIST.
PERSONNEL
PLANS & PROG.
SAFETY
ARCHITECT
ENGINEER
LAND. ARCH.
ACTION TAKEN—DATE

D5039-OBL

454

WESTERN OFFICE
DESIGN & CONSTRUCTION
AUG 25 1959 A.M.
CHIEF
ADMIN.ASSIST.
PERSONNEL
PLANS & PROG.
SAFETY
ARCHITECT
ENGINEER
LAND. ARCH.
ACTION TAKEN—DATE

August 20, 1959

Memorandum

To: Regional Director, Region Two

From: Chief, Water Resources Section

Subject: No Thoroughfare Water System, Drawing 3117, and Record of Well, Docket 2, Colorado National Monument

The memorandum of July 16 from Mr. Bussey, which Mr. Aiton forwarded on August 11, seems to have resulted from the memorandum of May 25 from Mr. Robertson, but does not clarify the point.

Drawing 3117 locates the well N45-52 W 421.8 feet from SE Cor. Sec. 30. Drawing 6950A, in docket, shows Well B at N 82-35 W 421 feet from SE Cor. Sec. 30. Drawing 6975 (Filing 17082) locates proposed well N 86-56 W 540 feet from SE Cor. Sec. 30. The difference between proposed site and Well B is shown on Drawing 6950A, and was the result of minor change at the time of drilling. The question is whether the existing well is N 46° W or N 83 W, 421 feet, in round numbers, from the corner. If the bearing is 46 degrees, is Well B, or another bore "C", the well which is used. We note that Mr. Bussey has submitted a "Record of Well" which is an exact copy of the one for Well "B" which is already in the docket, except for the location in Sec. 30.

Mr. Bussey's memorandum of July 16 is particularly significant as the only report on well yield - of only 2 gpm, or 2880 gallons per day. This, and his copy of the "Record of Well" should be filed above the records of Wells "A" and "B" which are already in the docket, but his record of well should be marked "conflicting copy with Superintendent's memorandum of 7/16/59". The quantity of water may be adequate for the anticipated limited demand, with the increase in storage which is proposed by Drawing 3117, but it is hardly adequate for any proposed power driven pump.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Colorado National Monument
Chief, WODC (2)

L 54
D 5039

Fruita, Colorado

July 16, 1959

Memorandum

To: Regional Director, Region Two

From: Superintendent, Colorado National Monument

Subject: No Thoroughfare Water System, asshown improved on Drawing NM-COLO/3117, Colorado National Monument

We have received Acting Regional Chief of Operations John F. Aiton's memorandum of July 9, requesting a copy of the "B" well log and driller's report. "B" well is covered by filing No. 17082.

Note back of attached "Record of Well" form. "No log on well." While there is considerable file material here concerning the well, there is not too much technical information regarding the well itself. After completion of the well, a bail test measured 2 gallons per minute flow.

If we can be of any further assistance, please advise.

Fred G. Bussey
Superintendent

R Mc

This does not explain conflicting locations for well "B"
It does give well yield for the first time
With Aiton memo of 8/11/59

L54-OBL

May 25, 1959

Memorandum

To: Regional Director, Region Two

From: Assistant Chief, Water Resources Section

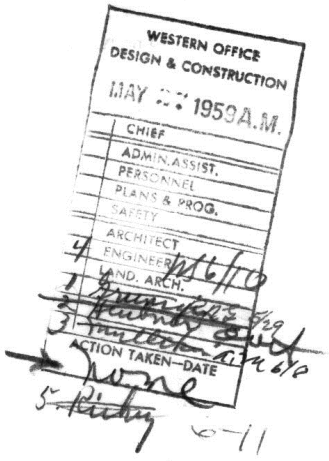
Subject: No Thoroughfare Water System, as shown improved on Drawing NM-COLO/3117, Colorado National Monument

While reviewing the above listed drawing, it was noted that a reference to an "existing 2 in. line from well" shows the well to bear N 45° 52' W a distance of 421.8 ft. from the SE Cor. of Sec. 30. This well location differs from any test well or proposed well shown on file map No. 6950A for Water Right Filing 17082 (Docket 2). No immediate revision of filing is necessary since a water right adjudication is not that imminent but a well log and well driller's report should go into the records as soon as they can be acquired. This should be reported according to the latest prescribed methods of the state that Mr. Dunn alerted you to a year or so ago when there was similar work being performed at Rocky Mountain.

SIGNED

Gordon W. Robertson
Assistant Chief, Water Resources Section

Copy to: Superintendent, Colorado N. M.
Chief, WODC (2)



154-L

July 19, 1955

Memorandum

To: Regional Director, Region Two

From: Chief, Water Resources Section

Subject: Water Systems and Water Rights, Colorado National Monument

The memorandum of July 13 from Mr. Benson, and attachment of July 5 from Mr. Maban, are doubtless confusing until you have an opportunity to study the files. The following points are all that need consideration at this time:

Grand Junction Entrance (No Thorefare) Water System - See Docket 2

1. As stated in my memorandum of July 15, we should determine whether the Federal claim for the well can still be submitted for adjudication in Civil Case 8303, or will have to be introduced in a later case.

2. It is satisfactory to consider the alternative of obtaining water from a private development but claims to the well should not be abandoned until the alternative source is assured. We should obtain the name of the private developers, assurance that they can supply adequate water at a reasonable price, and the probable date when such service can be provided, before there is any danger that the Federal claims in Case 8303, or another adjudication, will go to trial.

Fruita Water System - See Docket 1

1. The United States is entitled to 10% of the flow in the Fruita pipeline, for use at the Monument Headquarters, as a condition in the permit, or agreement I-lp-3960 of June 1, 1935, in Part II of the docket, under which the Park Service granted the use of pipeline right-of-way across the Monument, and constructed part of the pipeline thereon. From what data is in Part III of the docket, I estimated present pipe capacity at 1.078 s.f. and Federal interest of 0.1078 s.f., which is nearly double the amount now reported by Mr. Jex. A check should be made.

Office of
Chief, Western Office
Div. of Design and Const.
JUL 25 1955 A.M
Supv. Architect
Supv. Engineer
Supv. Landscape Arch.
Safety Engineer

2. A new permit will be needed if the pipeline is to be reconstructed by the Town instead of this Service, and the United States should retain its interest in 10% of old pipe capacity in consideration for the right-of-way and past Town use of the Federal portion of old pipeline subject to:

3. The question which now arises as to whether the 10% of any town water system or just the capacity of old pipeline shall govern.

My major concern with the Fruita Pipeline permit is that it is either ambiguous or inadequate for future changes in conditions. We shall not relinquish any claims we now have to water, if possible. However, it is possible that mere right-of-way might not compensate for the amount of water used hereafter at the Monument, and we should consider the alternatives of Federal reconstruction of its portion of the pipeline, or an annual payment in lieu of reconstruction.

The structural properties of the existing pipeline are not a water right problem, but the profile in Part I of Docket 1 may be helpful in checking the need for 150 lb. pipe, if you can determine the location of the lowest point of pressure reduction.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Colorado National Monument
Western Office of Design and Construction

C O P Y

In reply refer to:
L54-L

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

September 17, 1953

Memorandum

To: Regional Director, Region Three

From: Acting Director

Subject: Proposed Water Supply for Grand Junction Entrance (No Thoroughfare Area), Colorado National Monument'

Because of the urgent need in connection with the pending adjudication of rights in Colorado Water District No. 42, we should spend $7,500 in the 1955 fiscal year on the subject water system. This amount has been selected as the minimum to permit proof of necessary progress at the April session of the District Court in 1955, on the assumption that a conditional decree will be granted this year.

Proposal form U-7-4, approved by Mr. Cornell on July 29, provides for an 8" well 600 feet in depth, and a complete water system, at a total construction cost of $24,000. Provision of a workable water system will require a minimum construction amount of $12,000, and this work should be done during the 1955 and 1956 fiscal years. A deferred project to cost $12,000 to complete the system can be programmed when the rangers' quarters and additional public facilities are provided. We will see what can be done about programming funds on this basis.

The following breakdown is based on your unit costs, but with the depth of well reduced to conform with the latest geological report:

	Construction Estimates		
	1955	1956	Later
8" well - 325' deep and cased	$3,200	- -	- -
Purchase and install pump	- -	3,500	- -
Construct temporary pump shed	500	- -	- -
Construct permanent pumphouse	- -	- -	$3,800
Construct 3000' of 2" pipe line	3,800	- -	3,000
Install temporary storage tank	- -	1,500	- -
Replace temporary storage tank with 10,000-gallon reservoir	- -	- -	5,200
Total construction cost	$7,500	$5,000	$12,000

From the memorandum of July 30 from Mr. S. W. Lohman, Staff Geologist, Geological Survey, it appears that a well 260 feet deep at the site of Test Well B should probably pierce the entire Entrada formation, and provide maximum well yield. By drilling the proposed well to the east, near the east line of the Monument, it is suggested that more water may be expected, but due to the 15% northeasterly dip of the aquifer, the depth of the well might be increased by about 45 feet, plus or minus difference in elevation of ground surface, and subject to possible estimating error of 20 feet.

These deductions suggest that the well depth will be between 285 and 325 feet, instead of the 600 feet shown on the proposal form. This will mean a probable construction cost of only $3,200 instead of $6,000. The proposal includes an item of $7,000 for pump and pumphouse, with no breakdown, or indication of the type of house contemplated. Presumably a pump unit and cheap temporary shed could be provided for $4,000.

The proposal also calls for 3,000 feet of 2" pipe at $2 per foot, in place, which evidently includes laterals from the reservoir to the shelter and proposed ranger's residence. In addition, the unit cost is double that estimated for 2" pipe at Lehman Caves, the difference being that the old trench at Lehman Caves is probably usable with a minimum of excavation. It is suggested that only 1,000 feet of the pipe be buried at the present time, and that the lateral for the proposed ranger's quarters can be deferred until the building is constructed, at a total reduced initial cost of $3,800. It is also suggested that a small steel reservoir, at a cost of about $1,500, might suffice for a few years.

(Signed) Hillory A. Tolson
Acting Director

In duplicate

C O P Y

Lands.

C
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UNITED STATES
DEPARTMENT OF THE INTERIOR
National Park Service
Washington 25, D. C.

Denver, Colo.
June 22, 1953

To: Director

From: Chief, Water Resources Branch

Subject: Test Wells, No Thoroughfare Area, Colorado Nat. Mon.

On arrival at office of Mr. C. V. Marmaduke, Spec. Assist. to Att. General, this morning, I was joined by Mr. S. W. Lohman, Staff Geologist, Geo. Survey, for very informative discussion. Unfortunately, neither had received Solicitor's letter of June 17 to Att. Gen., with copy of our statement of claim. I found memo of June 18 to me from Mr. Kell, of which copy was sent to you, which seems to have been written prior to receipt of even the advance copy of Solicitor's letter.

Mr. Marmaduke had copy of our statement of claim made from my file copy, so that he can start preparation of his case. He believes that he has about 30 days, due to time granted others, before he can request Court to accept this claim to ground water, and date for testimony will be later. That is some help.

As I anticipated, the information which Mr. Lohman has collected on the geology of the area, makes it doubtful that adequate, or reliable water can be obtained at Well site A, but he cannot give a definite statement until well log, of proper type is obtained, as will be recommended further along.

Attached is Mr. Lohman's sketch of normal sequence of rock formations at the Monument - not to scale. Also attached is my reproduction - to scale - as sketch A. The most favorable source of supply would be the water from the Entrada sandstone. The Wingate sandstone also yields some water, but the no thoroughfare area is too near the edge to be a good place to obtain it.

Also attached is Mr. Lohman's sketch of actual condition of the same rock formations at No Thoroughfare, with break and upheaval along a fault - without reference to our maps, drawings NM-Colo-6950-A and 6975. Also attached, as Sketch B, is my reproduction, in reverse, to have North toward top of page, as in said drawings 6950-A & 6975.

Well A, which Region Three now wishes to use, most probably intercepts the Wingate sandstone, at, or near the fault. A standard drilling log would be necessary to determine the location with relation to the fault. Regardless of that location, the water is believed to originate as seepage in a small, adjacent canyon. Thus only a limited water supply can be expected.

Well B probably intercepts water in the Entrada sandstone, but Mr. Lohman doubts if more than part of the depth of sand has been pierced. He recommends a well, at least 6" in diameter, drilled to contact with Kayenta formation, to give maximum side surface of the well in the Entrada sandstone.

As a further consideration the Entrada waters are replenished from No Thoroughfare Canyon. Therefore, the next well should be drilled as close to east line of Sections 30 and 31 as possible, to be as close to the No Thoroughfare Canyon as possible, but on the Federal land. Mr. Marmaduke and I have modified water right claim slightly to provide for such an alternative, without abandoning the Region Three plan.

So far as I can determine, the Region Three choice of well A is to obtain a short, cheap pipe line and least pump lift. However, our original water claim was for 20 gallons per minute, which is about maximum which Mr. Lohman would expect from Entrada sandstone, and more than he would expect from the Wingate (Saltwash, and other layers in Morrison formation yield little), and the memo from Mr. Kell indicates that pump test of well B, by Mr. Morgan yielded only 2 gallons per minute. Accordingly, I strongly recommend that the Region Three plans be revised to provide for next, and I hope final, well near corner common to Sections 29, 30, 31 and 32. Moreover, that well should be drilled before the end of calendar year 1954, and preferably this summer.

Mr. Lohman expects to visit the area this July, and will give special attention to the geology at wells A and B, and will then indicate the most favorable well site as well as amending his estimates of sources of present wells from more detailed geological analysis. Incidently, he also speaks very highly of Mr. H. L. Morgan, the driller who is now making the pump tests, both as to workmanship and judgement.

Apparently, a well near the section corner, and to suggested depth in Entrada sandstone, will cost about $1000. As a test well, it could be drilled with water right funds, but that would exhaust, or slightly exceed the balance after 1954 obligations are covered, particularly if part of that reserve is allotted to the Chief Counsel for travel by Mr. Lewis in July, as I suggested to Mr. Richey on June 19. However, if the well is to be permanent, it is also proper to drill it as a construction project. I recommend that we defer any action until we hear from Mr. Lohman after his July trip, but I recommend revision of plans to conform with best prospects he offers, thereafter. I also recommend that funds for the drilling, with log and pump test, be squeezed out of 1954 appropriations, regardless of past priority assigned. If necessary, funds should also be provided for casing, to hold the well. The related water system should then be set up in 1955 fiscal year.

Returning, now, to the pending adjudication, I may be wanted at Grand Junction as witness any time after July. Mr. Lohman will also be essential, as well as Mr. Mohan and one or more from the Regional Office. At the moment I am not sure who can testify to what, beyond the key testimony of Mr. Lohman. This is all predicated on the assumption that the Court will accept the claim, but it is offered as a recommendation to set up tentative fiscal obligations in Washington and the Region.

(Signed) A. van V. Dunn

A. van V. Dunn
Chief, Water Resources Branch

Attachments
Copy to Mr. Marmaduke
Mr. Lohman (2)(1 copy to his Washington Office, Mr. Fielder)
Regional Director, Region Three (2)
Chief Counsel
Lands

WR copy

In reply refer to:
L54-L

JUN 17 1953

TO SECRETARY
JUN 12 1953
FOR SIGNATURE

Re: Federal Interests in Adjudication of Water Rights, Colorado Water District No. 42, District Court of Mesa County, Civil No. 8303, for Colorado National Monument (Your Reference: REM-FLF-90-1-2-48)

The Honorable
The Attorney General
Washington 25, D. C.

Sir:

In accordance with Acting Assistant Attorney General Williams' letter of May 22, and telephone conversation between Mr. France of your Department and Mr. A. van V. Dunn, Chief, Water Resources Branch of the National Park Service, we submit a preliminary draft of a statement of claim for the No Thoroughfare Pipe Line, Colorado National Monument, in duplicate, for use in preparing the Federal water claims for the subject adjudication.

Also enclosed are two copies of a memorandum of May 25 to Assistant Director R. F. Lee, National Park Service, from S. W. Lohman, Staff Geologist, of the Geological Survey, and two copies of a memorandum of May 29 to the Regional Director from Assistant Director Thomas J. Allen of that Service.

The information from Mr. Lohman indicates that the National Park Service must identify the proposed source of supply as one of two artesian basins, by logs of the test wells. The information has been requested from the Regional Office of the National Park Service in Santa Fe, New Mexico, but we have been advised that the records now available will be scant. The statement of claim is subject to revision when the requested information is obtained. Mr. Dunn has arranged to stop in Denver on June 22, on a western trip, and assist Mr. C. V. Marmaduke, Special Assistant to the Attorney General, in the preparation of a final draft of the statement, based on data he obtains in the interim and other substantiating information which Mr. Lohman may be able to contribute at the time.

The enclosed statement of claim follows a form used by Mr. Wirth Allen, predecessor of Mr. Marmaduke, and we anticipate that the form may need some modification for the particular case. It has been drafted for a conditional decree, in accordance with Mr. Marmaduke's letter to you of May 18, 1953.

Copies of filing 17082, drawing NM-COLO-6975, were distributed by the National Park Service in December 1952, through the Bureau of Reclamation, and drawing NM-COLO-6950 was sent to you in duplicate with my letter of May 28. We are offering a revision of the latter drawing, as NM-COLO-6950-A, for use in court at this time, to show design change now contemplated.

Mr. Russell L. Mahan, Superintendent of the Monument, will be the principal representative of the National Park Service at the hearing. Mr. Merritt Barton, Regional Counsel for that Service, in Santa Fe, is also available for such assistance as may be desired.

Very truly yours,

(Sgd) Clarence A Davis

Solicitor

Enclosures 8

Copy to: Geological Survey (2), with 2 sets of enclosures
Regional Director, Region Three, National Park Service, (3), with 3 copies each of draft of statement of claim and drawing NM-COLO-6950-A (by NPS)
Chief Counsel, National Park Service, with 1 set of enclosures (by NPS)
Chief of Design and Construction, National Park Service, with 1 set of enclosures (by NPS)
Chief, Water Resources Branch, National Park Service, with 1 set of enclosures (by NPS)

AvanVDunn:HKS:sh

DRAFT
AvanVDunn:sh
June 5, 1953

STATE OF COLORADO)
) SS
COUNTY OF MESA)

In the District Court
Civil No. 8303

In the Matter of Adjudication of Priorities of Water Rights in Water District No. 42, Water Division 4, Mesa County, Colorado

Statement of Claim for the No Thoroughfare Pipe Line, Colorado National Monument

Comes, now, the United States of America, by _____ _____, Special Assistant to the Attorney General of the United States, hereby presents this petition and statement of claim herein, and shows unto this honorable court that:

First: The name of the claimant is the United States of America.

Second: The postoffice address of the claimant is Colorado National Monument, Box 157, Fruita, Colorado.

Third: The name of the pipe line for which claim is made herein is No Thoroughfare Pipe Line.

Fourth: That said pipe line is to derive its supply of water from one of two artesian basins. A test well, designated as Well "A" on supporting map of Water Supply Systems, Colorado National Monument, drawing NM-COLO-6950A, has been drilled and intercepts water on what the Geological Survey believes to be the Redlands Fault. Test Well "B", on said drawing, intercepts artesian water under different pressure, in what the Geological Survey believes to be the Entrada sandstone, which is the principal source of flowing artesian wells in the Grand Junction, Orchard Mesa, and Redlands area. Further analyses of the well logs, and pump tests, are needed before selecting either well site as the final point of diversion,

but Test Well "A" will require a shorter pipe line and lower pump lift if an adequate supply of water can be proved by said analyses and pump tests.

Fifth: The headworks of said pipe line are to consist of a well intercepting said artesian waters in the S½ of S½ of SE¼ Section 30, or the N½ of N½ of NE¼ Section 31, T. 1 S., R. 1 W., Ute Meridian.

The original plan, filed with the State Engineer on March 8, 1942, and assigned number 17082, provided for a well at a point in the SE¼ of SE¼ of SE¼ of said Section 30, whence the SE corner of said Section 30 bears S. 86°56' E. 540 feet, and a pump at said well. The two test wells were drilled as follows:

Well A at a point in the NW¼ NW¼ NE¼ Section 31, whence the NE corner of said Section 31, or SE corner of Section 30, bears North 79°48' East 2240 feet, the artesian water being intercepted at an elevation of about 4895 feet above sea level and the water rose to an elevation of 5000 feet. Subject to aforesaid further analyses and tests, Well A is designated as the preferred point of diversion.

Well B at a point in SE¼ SE¼ SE¼ of Section 30, approximately 120 feet northeasterly from the proposed well, whence the SE corner of said Section 30, or NE corner of Section 31, bears South 82°35' West 421 feet, the water again being intercepted at 4895 feet above sea level, but only rising to an elevation of 4935 feet in said well. Well B is designated as the alternative point of diversion if inadequate water is found at Well A.

The water is to be pumped to a 5000-gallon distribution reservoir, to be located at an elevation of approximately 5100 feet above sea level. The original site for said reservoir, by filing 17082, was to have been in the SW corner of SE¼ of aforesaid Section 30. Subsequent surveys have indicated that the reservoir can be located at approximately the same elevation in the NW corner of NE¼ of aforesaid Section 31, the location herein claimed.

Sixth: The general course of the pipe line, in filing 17082, was to have been northwesterly. The general course of the pipe line from Well A, if selected, will also be northwesterly. The general course of the pipe line from Well B, if selected, will be southwesterly.

The diameter of said pipe is to be 2 inches.

The pump lift from Well A will be 100 feet, and the alternative pump lift from Well B would be 165 feet.

The length of the pipe line described in filing 17082 was to have been 2180 feet. The length of pipe line from Well A will be 357 feet. The alternative length of pipe line from Well B would be 2012 feet.

The diversion is to be by pump with a capacity of 20 gallons per minute, or 0.0445 cubic feet of water per second of time, for which claim is hereby made for domestic, sanitary, recreational, and fire protection purposes.

Seventh: Work was commenced by survey prior to June 30, 1941, but exploration and construction were deferred because of the war. The drilling of Test Well A was started and finished on October 10, 1952. Well B was also drilled in one day, on February 10, 1953. Pump tests are being made in June and July 1953.

Eighth: A map with original statement of claim was filed by the claimant in the office of the State Engineer, State of Colorado, on March 8, 1942, and was accepted by the State Engineer on March 23, 1942, and assigned file number 17082. Drawing NM-COLO-6950A, Water Supply Systems, Colorado National Monument, showing Wells A and B and their relation to the Colorado River, and the original plan covered by filing 17082, among other things, is submitted herewith. Drawing NM-COLO-6950A is a general map showing both water systems serving Colorado National Monument, and is offered to show the relation to each other and to the Fruita-Grand Junction area. However, the United States obtains water for the Monument Headquarters from the water system of the Town of Fruita, under rights of that Town, and this claim is limited to rights for the No Thoroughfare Water System, shown in detail at the right of the drawing.

Ninth: The water diverted and conveyed through said pipe line is to be distributed at the No Thoroughfare Public Campground and Checking Station area of Colorado National Monument in the S½ of S½ of SE¼ of said Section 30, and N½ of NW¼NE¼ of said Section 31, T. 1 S., R. 1 W., Ute Meridian.

Tenth: The diversion of 0.0445 cubic foot of water per second of time by the No Thoroughfare Pipe Line is necessary to provide domestic, sanitary, recreational, and fire protection facilities for said campground and checking station area, which has been closed since 1951 because of the contamination of the alternative source of supply.

Wherefore, it is prayed that the petitioner, the United States of America, be permitted to file this, its petition and statement of claim; that it be allowed to protect and secure its conditional rights and interests by introducing any and all evidence, and by due examination of any and all witnesses touching any and all

claims of others to the appropriation and use of water in and from the same artesian source of supply, the allowance of which may be adverse to the interests of the United States in the premises; and that the United States be further permitted to file subsequent proof of final selection of a definite point of diversion, completion of the water system, and full beneficial use of the water, for a final decree.

It is further prayed by the petitioner that a decree be made in this proceeding adjudging and decreeing to the petitioner, the United States of America, a priority of right as to the date of June 30, 1941, to the uses of water for the purposes and in the amounts hereinbefore in detail set forth and claimed, which said decree, in the event that said No Thoroughfare Pipe Line has not been completed prior to the date of final hearings herein, may be conditional upon the final completion of said works at either Well A or Well B and the application of waters therefrom to a beneficial use, and that upon completion of said works and application of waters to a beneficial use thereby and therefrom, a priority of right to the use of 0.0445 cubic foot of water per second of time for purposes and in the amounts hereinabove in detail set forth and claimed, shall be decreed to petitioner, and for all other and further proper relief in the premises.

Dated at Denver, Colorado, this _____ day of _____, 1953.

THE UNITED STATES OF AMERICA

By _____
Special Assistant to the
Attorney General.

UNITED STATES OF AMERICA

State of Colorado)
} ss
County of Mesa)

Russell L. Mahan, being first duly sworn on oath, deposes and says that he is Superintendent of Colorado National Monument, and makes this affidavit on behalf of the United States of America, claimant; that he has read the foregoing statement of claim and is conversant with the facts therein stated, and that the matters herein referred to are true to the best of his knowledge and belief.

_____
Superintendent,
Colorado National Monument

Subscribed and sworn to before me this _____ day of _____, 1953.

_____
Notary Public

My commission expires_____

WR Copy

...eply refer to:
...GCM-L

Richey
Durkee

MAY 29 1953

Memorandum

To: Regional Director, Region Three

From: Assistant Director

Subject: Test Wells and Water Rights, Docket 2, No Thoroughfare Area, Colorado National Monument

Attached are three copies of a memorandum of May 25 to Mr. Lee from Mr. S. W. Lohman, Ground Water Division of Geological Survey in Denver. This excellent report makes it necessary to reconsider both the Federal statement of claim to be submitted to the Court and your plans for the ultimate water system design.

You will note, among other things, that Mr. Lohman has been able to offer a great deal of helpful information but cannot make certain final conclusions without logs of the wells. As requested in my memorandum of May 1, we should have a log of the Wells A and B and as much of the rest of the data called for on the "Record of Well" forms as possible. An effort should be made to fill out such forms with the help of the well driller, and one copy of each should be sent directly to Mr. Lohman and this office.

It also appears, from available information, that no appreciably higher water level can be expected in any further test wells. If any additional well is drilled, its location should be based on proximity to the proposed reservoir, to reduce the length of division pipe rather than to reduce the static pump lift. A test well or the final well may also be needed this summer to obtain a log. However, it is also possible that one of both artesian basins may terminate between the test wells and the proposed reservoir, such that another well near the SW corner of SE¼ Section 30 might not produce water.

In the final statement of claims, we will have to specify which artesian basin is the source of supply; and we should select the more adequate. Mr. Lohman seems to believe that Well A has

intercepted the principal source, but pump tests, if any have been made or can be made, at once will have considerable affect on the selection of the ultimate source. We should like to have your ideas at once.

We suggest that as soon as Messrs. Barton, Kell, and Lassiter review this memorandum and the one from Mr. Lohman they phone Mr. Dunn, Republic 7-1820, Extension 3306, and advise what well logs and pump tests are available, and what work can be done this summer to complete the water system design, including selection of point of division and source of supply, and to answer any further questions Mr. Dunn may wish to ask before completing the conditional statement of claim.

Meantime, Mr. Dunn has planned to go through Denver on June 22, on his way to Grand Teton. He now proposes to take such time as may be needed, that day, with Messrs. Lohman and Marmaduke if they are available. Before that time he will submit the best statement of claim which he can now prepare. His visit will be to make such changes as may be desirable as a result of further information received in the interim, and to see what further information Mr. Lohman may be able to supply for your design purposes.

(SGD) THOMAS J. ALLEN

Assistant Director

In duplicate

Attachments 3

Copy to: Department of Justice (2) w/c of Mr. Lohman's
Solicitor " " " "
Geological Survey (2) " " " "
Mr. Dunn " " " "

AVDunn:cc

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UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

May 25, 1953

To: Mr. R. F. Lee, Assistant Director, National Park Service

From: S. W. Lohman, Denver, Colorado (GW)

Subject: Request for information on ground water, No Thoroughfare Area, Colorado Water District No. 42, Colorado National Monument

Dr. Sayre has forwarded to me a copy of your memo of May 11 to Dr. John C. Reed on the above subject, and Mr. McLaughlin has advised me of his discussion on May 7 with Mr. A. van V. Dunn. Apparently Mr. Dunn called within half an hour after I left Washington so I regret that it was not possible to talk to him at that time.

Soon after my return to Denver my good friend Mr. C. V. Marmaduke, Jr. conferred with me on the same matter and showed me a copy of Acting Director Tolson's letter of May 1 to the Attorney General, which contains essentially the same information as your letter of May 11. I have discussed the entire matter in detail with Mr. Marmaduke and am sending him two copies of this memorandum for his information.

As Mr. McLaughlin pointed out to Mr. van V. Dunn, I have made a detailed study of the geology and artesian water conditions in what we call the Grand Junction artesian basin, which took in the entire Colorado National Monument. Incidentally while working in the Monument I had the wholehearted cooperation of Superintendent Mahan and also of his predecessor, through prior arrangements made with your Santa Fe office. My report on this investigation has not yet been completed, but I have all of the field information at hand including the detailed geology of the Colorado National Monument on aerial photographs scale 1:31,680, and will be more than glad to assist the National Park Service at any time on any geologic or ground-water matters that come up in and near the Monument.

From information given in the letters and on the maps accompanying each, I have plotted the locations of test wells A and B and of the proposed well site on an aerial photograph also containing the geology. I find that contrary to the information given in the letters the two test wells tap entirely different geologic formations so that the computation of the supposed depth of this stratum beneath the Colorado River, though approximately correct in magnitude, is entirely fortuitous.

Test well A drilled near the picnic shelter appears to be about on or just a short distance south from what I have called the Redlands fault. The

fault dies out eastward at or near the Park road but continues westward with increasing displacement for some 8 or 10 miles, again dying out at East Monument Canyon. I would have to have in hand a log of test well A in order to give full interpretation, but it appears to start either on the fault or in the Chinle formation just south of the fault. The water may have been found in the basal part of the Chinle or possibly in the decomposed granitic rock at the top of the Pre-Cambrian rocks that underlie the area.

Test well B and the nearby proposed well site appear to have been drilled not far north from the contact between the Entrada sandstone and the overlying Summerville and Morrison formations. Again I am handicapped by not having a log of test well A, but presume that this test well may have encountered its water at the top of the Entrada sandstone. The Entrada sandstone is the principal artesian water-bearing sandstone in the Grand Junction area and supplies most of the flowing artesian wells in Grand Junction, Orchard Mesa, and the Redlands. In order to give you an idea of the difference in geologic horizons for test wells A and B I offer the following thicknesses of formations between the two test wells. Bear in mind that the thicknesses given below are for horizontal beds and inasmuch as the beds are dipping toward the northeast the actual thicknesses that would be encountered in drilling would be greater than the horizontal thicknesses. Assuming that test well B encountered the top of the Entrada at a depth of about 66 feet (where water was reported struck) it would have gone through about the lower 25 feet of the Morrison formation and through the entire Summerville formation, which is only about 40 feet thick and consists largely of red and bluish- or greenish-gray siltstone. If the well really encountered the Entrada sandstone, the logs should show that it penetrated 12 to 15 feet of reddish siltstone just before hitting the water-bearing sandstone. The underlying Entrada sandstone is about 150 feet thick and is underlain by the Kayenta formation (only about 20 feet thick here and comprising stream-laid sandstone lenses and intervening siltstone lenses). The Kayenta is underlain in turn by the Wingate sandstone, about 300 feet thick--the lowermost cliff-forming sandstone that forms most of the imposing cliffs in the Monument. The Chinle formation is about 100 feet thick and is composed largely of red siltstone with a few limestone conglomerate beds near the base. Much of the Entrada, all of the Kayenta, and all of the Wingate appear to separate the two test wells. The above conclusions will be verified or altered slightly if you will send me copies of the driller's logs for test wells A and B.

As noted above, the Entrada sandstone presumably encountered in test well B, is the principal artesian water-bearing sandstone in the area and is thought to be a much better source of water than the beds encountered in test well A. If a well is drilled at or near test well B, it would be advisable to have it penetrate all or a substantial part of the Entrada sandstone in order to insure a more adequate supply. The principal nearby intake point for the Entrada

sandstone is about 2,000 feet to the southeast, where the upturned beds of sandstone are crossed by No Thoroughfare Creek. Intake conditions are especially favorable here, for the saturated alluvium in the creek is in contact with the sandstone and allows water to percolate into the sandstone for extended periods after the occasional surface flows disappear. The well is so near the outcrop, however, that full penetration is recommended in case any heavy drafts are placed on the well. Large supplies of water are not to be expected from this sandstone as it is fine grained and has a low permeability. I would be surprised if the well yields more than 15 or 20 gallons a minute, and it may yield less; with ample storage facilities, however, that may be adequate for the slight anticipated needs of a checking station and picnic shelter provided there is essentially no lawn watering or other large uses.

Statements are made in the letters as to the probably depth of the artesian water-bearing stratum beneath the Colorado River, and to the effect that the water is tributary to the Colorado River and probably emerges into the river along springs and seeps. These statements are partly true but I believe require some modification. The Entrada sandstone does dip downward to the northeast and probably passes beneath the river near the Redlands Bridge at a depth of perhaps 600-800 feet. Water from this stratum does not percolate upward to the river through visible or measurable springs or seeps. The Entrada is overlain by the Morrison formation which is about 500-600 feet thick and consists largely of relatively impermeable siltstone and mudstone. This prevents any appreciable upward leakage at any specific points. We regard no natural rock strata as being wholly impermeable, however, and feel that there is very very slow upward leakage of artesian water from this stratum throughout the large Unita Basin of which the Grand Valley is a part. Thus there appears to be slow upward leakage of water beneath the Grand Valley which is drained by the Colorado River. On the other hand the leakage is probably so slow and gradual that it could not be detected at the surface by any means known to me nor could it possibly be detected by a series of stream-flow measurements in the river. This calls for the somewhat anomalous statement that theoretically the well would tap a supply of water that is tributary to the Colorado River but from a practical standpoint the water supply is not tributary to the Colorado River but may be regarded as essentially a "closed" artesian basin. I hope I have made the distinction sufficiently clear.

In spite of the fact that the artesian basin is already overdeveloped, new wells are being drilled from year to year and filings are generally being made on the water rights by the owners. I see no reason why suitable rights cannot be established for the water supply you are seeking, and have suggested to Mr. Marmaduke that he consult with Mean S. Breitenstein, consulting attorney for the Colorado Water Conservation Board, who has all of the facts in hand regarding the best method of procedure.

Very truly yours,
/s/ S. W. Lohman

S. W. Lohman
Staff Geologist

cc: Chief, Ground Water Branch
C. V. Marmaduke, Jr.

DRAFT
AvanVDunn:sh
June 5, 1953

STATE OF COLORADO)
) SS
COUNTY OF MESA)

In the District Court
Civil No. 8303

In the Matter of Adjudication of Priorities of Water Rights in Water District No. 42, Water Division 4, Mesa County, Colorado

Statement of Claim for the No Thoroughfare Pipe Line, Colorado National Monument

Comes, now, the United States of America, by _____ _____, Special Assistant to the Attorney General of the United States, hereby presents this petition and statement of claim herein, and shows unto this honorable court that:

First: The name of the claimant is the United States of America.

Second: The postoffice address of the claimant is Colorado National Monument, Box 157, Fruita, Colorado.

Third: The name of the pipe line for which claim is made herein is No Thoroughfare Pipe Line.

Fourth: That said pipe line is to derive its supply of water from one of two artesian basins. A test well, designated as Well "A" on supporting map of Water Supply Systems, Colorado National Monument, drawing NM-COLO-6950A, has been drilled and intercepts water on what the Geological Survey believes to be the Redlands Fault. Test Well "B", on said drawing, intercepts artesian water under different pressure, in what the Geological Survey believes to be the Entrada sandstone, which is the principal source of flowing artesian wells in the Grand Junction, Orchard Mesa, and Redlands area. Further analyses of the well logs, and pump tests, are needed before selecting either well site as the final point of diversion,

but Test Well "A" will require a shorter pipe line and lower pump lift if an adequate supply of water can be proved by said analyses and pump tests.

Fifth: The headworks of said pipe line are to consist of a well intercepting said artesian waters in the S½ of S½ of SE¼ Section 30, and/or the N½ of N½ of NE¼ Section 31, T. 1 S., R. 1 W., Ute Meridian.

The original plan, filed with the State Engineer on March 8, 1942, and assigned number 17082, provided for a well at a point in the SE¼ of SE¼ of SE¼ of said Section 30, whence the SE corner of said Section 30 bears S. 86°56' E. 540 feet, and a pump at said well. The two test wells were drilled as follows:

Well A at a point in the NW¼ NW¼ NE¼ Section 31, whence the NE corner of said Section 31, or SE corner of Section 30, bears North 79°48' East 2240 feet, the artesian water being intercepted at an elevation of about 4895 feet above sea level and the water rose to an elevation of 5000 feet. Subject to aforesaid further analyses and tests, Well A is designated as the preferred point of diversion.

Well B at a point in SE¼ SE¼ SE¼ of Section 30, approximately 120 feet northeasterly from the proposed well, whence the SE corner of said Section 30, or NE corner of Section 31, bears South 82°35' West 421 feet, the water again being intercepted at 4895 feet above sea level, but only rising to an elevation of 4935 feet in said well. Well B is designated as the alternative point of diversion if inadequate water is found at Well A.

Well B is believed to intercept the Entrada sandstone formation near the upper end of the aquefer. It is believed that more water may be obtained if the well were moved progressively easterly toward the corner common to Sections 29, 30, 31 and 32 of said township and range. Accordingly, request is made for permission to select, if necessary, an alternative well within a strip of land approximately 300 feet northerly or southerly of the line between said Well B and the corner common to said Sections 29, 30, 31 and 32, Township 1 South, Range 1 West of the Ute Meridian.

The water is to be pumped to a 5000-gallon distribution reservoir, to be located at an elevation of approximately 5100 feet above sea level. The original site for said reservoir, by filing 17082, was to have been in the SW corner of SE¼ of aforesaid Section 30. Subsequent surveys have indicated that the reservoir can be located at approximately the same elevation in the NW corner of NE¼ of aforesaid Section 31, the location herein claimed.

Sixth: The general course of the pipe line, in filing 17082, was to have been northwesterly. The general course of the pipe line from Well A, if selected, will also be northwesterly. The general course of the pipe line from Well B, if selected, will be southwesterly.

The diameter of said pipe is to be 2 inches.

The pump lift from Well A will be 100 feet, and the alternative pump lift from Well B would be 165 feet.

The length of the pipe line described in filing 17082 was to have been 2180 feet. The length of pipe line from Well A will be 357 feet. The alternative length of pipe line from Well B would be 2012 feet.

The diversion is to be by pump with a capacity of 20 gallons per minute, or 0.0445 cubic feet of water per second of time, for which claim is hereby made for domestic, sanitary, recreational, and fire protection purposes.

Seventh: Work was commenced by survey prior to June 30, 1941, but exploration and construction were deferred because of the war. The drilling of Test Well A was started and finished on October 10, 1952. Well B was also drilled in one day, on February 10, 1953. Pump tests are being made in June and July 1953.

Eighth: A map with original statement of claim was filed by the claimant in the office of the State Engineer, State of Colorado, on March 8, 1942, and was accepted by the State Engineer on March 23, 1942, and assigned file number 17082. Drawing NM-COLO-6950A, Water Supply Systems, Colorado National Monument, showing Wells A and B and their relation to the Colorado River, and the original plan covered by filing 17082, among other things, is submitted herewith. Drawing NM-COLO-6950A is a general map showing both water systems serving Colorado National Monument, and is offered to show the relation to each other and to the Fruita-Grand Junction area. However, the United States obtains water for the Monument Headquarters from the water system of the Town of Fruita, under rights of that Town, and this claim is limited to rights for the No Thoroughfare Water System, shown in detail at the right of the drawing.

Ninth: The water diverted and conveyed through said pipe line is to be distributed at the No Thoroughfare Public Campground and Checking Station area of Colorado National Monument in the S½ of S½ of SE¼ of said Section 30, and N½ of NW¼NE¼ of said Section 31, T. 1 S., R. 1 W., Ute Meridian.

Tenth: The diversion of 0.044 cubic foot of water per second of time by the No Thoroughfare Pipe Line is necessary to provide domestic, sanitary, recreational, and fire protection facilities for said campground and checking station area, which has been closed since 1951 because of the contamination of the alternative source of supply.

Wherefore, it is prayed that the petitioner, the United States of America, be permitted to file this, its petition and statement of claim; that it be allowed to protect and secure its conditional rights and interests by introducing any and all evidence, and by due examination of any and all witnesses touching any and all

claims of others to the appropriation and use of water in and from the same artesian source of supply, the allowance of which may be adverse to the interests of the United States in the premises; and that the United States be further permitted to file subsequent proof of final selection of a definite point of diversion, completion of the water system, and full beneficial use of the water, for a final decree.

It is further prayed by the petitioner that a decree be made in this proceeding adjudging and decreeing to the petitioner, the United States of America, a priority of right as to the date of June 30, 1941, to the uses of water for the purposes and in the amounts hereinbefore in detail set forth and claimed, which said decree, in the event that said No Thoroughfare Pipe Line has not been completed prior to the date of final hearings herein, may be conditional upon the final completion of said works at either Well A or Well B and the application of waters therefrom to a beneficial use, and that upon completion of said works and application of waters to a beneficial use thereby and therefrom, a priority of right to the use of 0.0445 cubic foot of water per second of time for purposes and in the amounts hereinabove in detail set forth and claimed, shall be decreed to petitioner, and for all other and further proper relief in the premises.

Dated at Denver, Colorado, this _____ day of _____, 1953.

THE UNITED STATES OF AMERICA

By _____
Special Assistant to the
Attorney General.

UNITED STATES OF AMERICA

State of Colorado)
) ss
County of Mesa)

Russell L. Mahan, being first duly sworn on oath, deposes and says that he is Superintendent of Colorado National Monument, and makes this affidavit on behalf of the United States of America, claimant; that he has read the foregoing statement of claim and is conversant with the facts therein stated, and that the matters herein referred to are true to the best of his knowledge and belief.

_____
Superintendent,
Colorado National Monument

Subscribed and sworn to before me this _____ day of _____, 1953.

_____
Notary Public

My commission expires _____

05-25-0000: air mail, test wells and water rights, docket 2, no thoroughfare area, attached are three copies of a memorandum of

C O P Y

In reply refer to:
L54 COLM-L

May 29, 1953

Air Mail

Memorandum

To: Regional Director, Region Three

From: Assistant Director

Subject: Test Wells and Water Rights, Docket 2, No Thoroughfare Area, Colorado National Monument

Attached are three copies of a memorandum of May 25 to Mr. Lee from Mr. S. W. Lohman, Ground Water Division of Geological Survey in Denver. This excellent report makes it necessary to reconsider both the Federal statement of claim to be submitted to the Court and your plans for the ultimate water system design.

You will note, among other things, that Mr. Lohman has been able to offer a great deal of helpful information but cannot make certain final conclusions without logs of the wells. As requested in my memorandum of May 1, we should have a log of the Wells A and B and as much of the rest of the data called for on the "Record of Well" forms as possible. An effort should be made to fill out such forms with the help of the well driller, and one copy of each should be sent directly to Mr. Lohman and this office.

It also appears, from available information, that no appreciably higher water level can be expected in any further test wells. If any additional well is drilled, its location should be based on proximity to the proposed reservoir, to reduce the length of division pipe rather than to reduce the static pump lift. A test well or the final well may also be needed this summer to obtain a log. However, it is also possible that one or both artesian basins may terminate between the test wells and the proposed reservoir, such that another well near the SW corner of SE¼ Section 30 might not produce water.

In the final statement of claims, we will have to specify which artesian basin is the source of supply; and we should select the more adequate. Mr. Lohman seems to believe that Well A has

05-25-0000: air mail, test wells and water rights, docket 2, no thoroughfare area, attached are three copies of a memorandum of

intercepted the principal source, but pump tests, if any have been made or can be made, at once will have considerable effect on the selection of the ultimate source. We should like to have your ideas at once.

We suggest that as soon as Messrs. Barton, Kell, and Lassiter review this memorandum and the one from Mr. Lohman they phone Mr. Dunn, Republic 7-1820, Extension 3306, and advise what well logs and pump tests are available, and what work can be done this summer to complete the water system design, including selection of point of division and source of supply, and to answer any further questions Mr. Dunn may wish to ask before completing the conditional statement of claim.

Meantime, Mr. Dunn has planned to go through Denver on June 22, on his way to Grand Teton. He now proposes to take such time as may be needed, that day, with Messrs. Lohman and Marmaduke if they are available. Before that time he will submit the best statement of claim which he can now prepare. His visit will be to make such changes as may be desirable as a result of further information received in the interim, and to see what further information Mr. Lohman may be able to supply for your design purposes.

(SGD) Thomas J. Allen
Assistant Director

In duplicate

Attachments 3

Copy to: Department of Justice (2) w/c of Mr. Lohman's
Solicitor " " "
Geological Survey (2) " " "
Mr. Dunn

AvDunn:cc

In reply refer to:
L54 COLM-L

Richey
Price

MAY 28 1953

Files

TO SECRETARY
MAY 22 1953
FOR SIGNATURE

Re: Federal Interests in Adjudication of Water Rights, Colorado Water District No. 42, District Court of Mesa County, Civil No. 8303, for Colorado National Monument (Your Reference: REM-FLF-90-1-2-48)

The Honorable
The Attorney General
Washington 25, D. C.

Sir:

By letter of May 11 the Acting Director of the National Park Service sent you copies of a memorandum to the Geological Survey and other information which had been obtained concerning the two test wells which have been drilled at Colorado National Monument in connection with the ultimate water system to be constructed under rights claimed by Federal filing which the State Engineer has assigned No. 17082. In accordance with that letter, we enclose two prints of drawing NM-COLO-6950, to support the memorandum to the Geological Survey.

6950 A includes data shown in red on print to GS & Justice 6/1/53

Very truly yours,

(Sgd) Clarence A Davis

Solicitor

Enclosures 2

Copy to: Regional Director, Region Three, National Park Service (3) (by NPS)
Water Resources Branch, National Park Service (2) (by NPS)

AvanVDunn:sh

C
O
P
Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

May 25, 1953

To: Mr. R. F. Lee, Assistant Director, National Park Service

From: S. W. Lohman, Denver, Colorado (CW)

Subject: Request for information on ground water, No Thoroughfare Area, Colorado Water District No. 42, Colorado National Monument

Dr. Sayre has forwarded to me a copy of your memo of May 11 to Dr. John C. Reed on the above subject, and Mr. McLaughlin has advised me of his discussion on May 7 with Mr. A. van V. Dunn. Apparently Mr. Dunn called within half an hour after I left Washington so I regret that it was not possible to talk to him at that time.

Soon after my return to Denver my good friend Mr. C. V. Marmaduke, Jr. conferred with me on the same matter and showed me a copy of Acting Director Tolson's letter of May 1 to the Attorney General, which contains essentially the same information as your letter of May 11. I have discussed the entire matter in detail with Mr. Marmaduke and am sending him two copies of this memorandum for his information.

As Mr. McLaughlin pointed out to Mr. van V. Dunn, I have made a detailed study of the geology and artesian water conditions in what we call the Grand Junction artesian basin, which took in the entire Colorado National Monument. Incidentally while working in the Monument I had the wholehearted cooperation of Superintendent Mahan and also of his predecessor, through prior arrangements made with your Santa Fe office. My report on this investigation has not yet been completed, but I have all of the field information at hand including the detailed geology of the Colorado National Monument on aerial photographs scale 1:31,680, and will be more than glad to assist the National Park Service at any time on any geologic or ground-water matters that come up in and near the Monument.

From information given in the letters and on the maps accompanying each, I have plotted the locations of test wells A and B and of the proposed well site on an aerial photograph also containing the geology. I find that contrary to the information given in the letters the two test wells tap entirely different geologic formations so that the computation of the supposed depth of this stratum beneath the Colorado River, though approximately correct in magnitude, is entirely fortuitous.

Test well A drilled near the picnic shelter appears to be about on or just a short distance south from what I have called the Redlands fault. The

fault dies out eastward at or near the Park road but continues westward with increasing displacement for some 8 or 10 miles, again dying out at East Monument Canyon. I would have to have in hand a log of test well A in order to give full interpretation, but it appears to start either on the fault or in the Chinle formation just south of the fault. The water may have been found in the basal part of the Chinle or possibly in the decomposed granitic rock at the top of the Pre-Cambrian rocks that underlie the area.

Test well B and the nearby proposed well site appear to have been drilled not far north from the contact between the Entrada sandstone and the overlying Summerville and Morrison formations. Again I am handicapped by not having a log of test well A, but presume that this test well may have encountered its water at the top of the Entrada sandstone. The Entrada sandstone is the principal artesian water-bearing sandstone in the Grand Junction area and supplies most of the flowing artesian wells in Grand Junction, Orchard Mesa, and the Redlands. In order to give you an idea of the difference in geologic horizons for test wells A and B I offer the following thicknesses of formations between the two test wells. Bear in mind that the thicknesses given below are for horizontal beds and inasmuch as the beds are dipping toward the northeast the actual thicknesses that would be encountered in drilling would be greater than the horizontal thicknesses. Assuming that test well B encountered the top of the Entrada at a depth of about 66 feet (where water was reported struck) it would have gone through about the lower 25 feet of the Morrison formation and through the entire Summerville formation, which is only about 40 feet thick and consists largely of red and bluish- or greenish-gray siltstone. If the well really encountered the Entrada sandstone, the logs should show that it penetrated 12 to 15 feet of reddish siltstone just before hitting the water-bearing sandstone. The underlying Entrada sandstone is about 150 feet thick and is underlain by the Kayenta formation (only about 20 feet thick here and comprising stream-laid sandstone lenses and intervening siltstone lenses). The Kayenta is underlain in turn by the Wingate sandstone, about 300 feet thick--the lowermost cliff-forming sandstone that forms most of the imposing cliffs in the Monument. The Chinle formation is about 100 feet thick and is composed largely of red siltstone with a few limestone conglomerate beds near the base. Much of the Entrada, all of the Kayenta, and all of the Wingate appear to separate the two test wells. The above conclusions will be verified or altered slightly if you will send me copies of the driller's logs for test wells A and B.

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sandstone is about 2,000 feet to the southeast, where the upturned beds of sandstone are crossed by No Thoroughfare Creek. Intake conditions are especially favorable here, for the saturated alluvium in the creek is in contact with the sandstone and allows water to percolate into the sandstone for extended periods after the occasional surface flows disappear. The well is so near the outcrop, however, that full penetration is recommended in case any heavy drafts are placed on the well. Large supplies of water are not to be expected from this sandstone as it is fine grained and has a low permeability. I would be surprised if the well yields more than 15 or 20 gallons a minute, and it may yield less; with ample storage facilities, however, that may be adequate for the slight anticipated needs of a checking station and picnic shelter provided there is essentially no lawn watering or other large uses.

Statements are made in the letters as to the probable depth of the artesian water-bearing stratum beneath the Colorado River, and to the effect that the water is tributary to the Colorado River and probably emerges into the river along springs and seeps. These statements are partly true but I believe require some modification. The Entrada sandstone does dip downward to the northeast and probably passes beneath the river near the Redlands Bridge at a depth of perhaps 600-800 feet. Water from this stratum does not percolate upward to the river through visible or measurable springs or seeps. The Entrada is overlain by the Morrison formation which is about 500-600 feet thick and consists largely of relatively impermeable siltstone and mudstone. This prevents any appreciable upward leakage at any specific points. We regard no natural rock strata as being wholly impermeable, however, and feel that there is very very slow upward leakage of artesian water from this stratum throughout the large Uinta Basin of which the Grand Valley is a part. Thus there appears to be slow upward leakage of water beneath the Grand Valley which is drained by the Colorado River. On the other hand the leakage is probably so slow and gradual that it could not be detected at the surface by any means known to me nor could it possibly be detected by a seriesof stream-flow measurements in the river. This calls for the somewhat anomalous statement that theoretically the well would tap a supply of water that is tributary to the Colorado River but from a practical standpoint the water supply is not tributary to the Colorado River but may be regarded as essentially a "closed" artesian basin. I hope I have made the distinction sufficiently clear.

In spite of the fact that the artesian basin is already overdeveloped, new wells are being drilled from year to year and filings are generally being made on the water rights by the owners. I see no reason why suitable rights cannot be established for the water supply you are seeking, and have suggested to Mr. Marmaduke that he consult with Hean S. Breitenstein, consulting attorney for the Colorado Water Conservation Board, who has all of the facts in hand regarding the best method of procedure.

Very truly yours,
/s/ S. W. Lohman

S. W. Lohman
Staff Geologist

cc: Chief, Ground Water Branch
C. V. Marmaduke, Jr.

05-11-1953: letter to the honorable, the attorney general, enclosed are two copies of a memorandum we are sending to the geologi

In reply refer to:
L54 COIM-L

MAY 11 1953

Re: Federal Interests in Adjudication of Water Rights, Colorado Water District No. 42, District Court of Mesa County, Civil No. 8303, for Colorado National Monument (Your Reference: REM-FLF-90-1-2-48)

The Honorable
The Attorney General
Washington 25, D. C.

Sir:

Enclosed are two copies of a memorandum we are sending to the Geological Survey concerning the subject case. Unfortunately, we shall have to supply the supporting maps at a later date, but the information is all covered in the memorandum.

Mr. Dunn, Chief of the Water Resources Branch of this Service, gave the same information to Mr. France by telephone on May 8. He also advised that Mr. McLaughlin mentioned an attempt by the local water users to have the rights to the artesian waters adjudicated about 1947, but that the case seems to have been dropped or deferred. Mr. McLaughlin also volunteered the information that Judge Coffin was decreeing rights to ground water. Judge Coffin was the one who decreed the rights to the Griffith Wells Nos. 1 and 2, which were mentioned in our letter of April 1 to you. We believe that Mr. McLaughlin referred to subsequent adjudication of ground water rights.

Very truly yours,

(SGD) Hillory A. Tolson

Hillory A. Tolson
Acting Director

Enclosures 2

Copy to: Solicitor
Regional Director, Region Three (3)
Mr. Price
Mr. Dunn

AvanVDunn:sh

In reply refer to:
L54 COLM-L

May 11, 1953

Memorandum

To: Dr. John C. Reed, Staff Coordinator, Geological Survey

From: Assistant Director Lee, National Park Service

Subject: Request for Information on Ground Water, No Thoroughfare Area, Colorado Water District No. 42, Colorado National Monument

This is to confirm and supplement a telephone conversation on the afternoon of May 7 between Mr. Thad G. McLaughlin, District Geologist of the Denver office of the Geological Survey, and Mr. A. van V. Dunn, Chief, Water Resources Branch of this Service, concerning the information now available on artesian water supplies near the Grand Junction entrance of Colorado National Monument. Mr. McLaughlin advised that considerable information had been obtained by Mr. Stanley W. Lohman, Staff Scientist, in Denver, which might be helpful in our immediate problem.

An adjudication of water rights is pending in the District Court of Mesa County (Water District No. 42), Case No. 8303, and the immediate questions are the nature of the Federal water claim and whether it should be subjected to adjudication. One print of drawing NM-COLO-6950 is attached, and more prints will be supplied later to support the other copies of this memorandum. It is requested that this print and one copy of the memorandum be referred to Messrs. McLaughlin and Lohman at once, in order that we may obtain some information for the guidance of the Department of Justice.

In red, we have shown two test wells, "A" and "B", which were drilled in 1952. Although the ground surface differed by 80 feet, water was intercepted in both at elevation 4895, more or less. However, the water rose to an elevation of 5000 in Well "A", and only 4934 in Well "B". The artesian pocket, or pockets, seem to be at the same elevation, but under different pressures. There is also a suggestion that the water may emerge on the surface between the wells and the Colorado River which is about 4 miles distant. The average water level of the river at the Fifth Street bridge in Grand Junction is said to be about 4558. We are not

sure whether the bridge shown on the drawing is at Fifth Street, or one further downstream. The wells are shown to be in the NW¼NE¼ Sec. 31 and SE¼SE¼ Sec. 30, T. 1 S., R. 1 W., Ute Meridian.

We should like to obtain any available information which may indicate whether the artesian sources of the two wells may become tributary to the Colorado River, and thus subject to adjudication as surface rights. We should also like to know whether these artesian sources are, or may be, sufficiently developed and used by others to justify other protective measures in connection with the Federal claims, if the water has not been determined to be tributary to the Colorado, or other surface streams.

During the remainder of this fiscal year, it would be difficult to contribute funds for a special field investigation, but we hope that at least a preliminary inspection will be made the next time that members of the Denver staff are in the area. The Superintendent, Mr. Russell L. Mahan, is stationed at the Monument Headquarters shown on the map, near the town of Fruita.

We are sending copies of this memorandum to the Attorney General, and suggesting that Mr. C. V. Marmaduke, Jr., Special Assistant to the Attorney General, in Denver, may wish to discuss the matter with Messrs. McLaughlin and Lohman.

(Sgd) Ronald F. Lee

Ronald F. Lee
Assistant Director

Attachment

Copy to: Attorney General (2)
Solicitor, [redacted]
Regional Director, Region Three (3)
Mr. Price
Mr. Dunn

AvanVDunn:sh

WR Copy Mr. Kleinsmith

In reply refer to:
D5039 COLM-L

MAY -1 1953

The Honorable
The Attorney General
Washington 25, D. C.

Sir:

By letter of February 24, 1953, to Mr. Fred C. Fagergren, Acting Superintendent of Colorado National Monument, Mr. C. V. Marmaduke, Jr., Special Assistant to the Attorney General, pointed out certain matters in connection with the pending adjudication of priorities of water rights in Water District No. 42, District Court of Mesa County, Civil No. 8303 (your reference: REM-FLF-90-1-2-48).

Mr. Marmaduke questioned whether ground water is subject to appropriation, and whether water from wells can be the subject of a decree under Colorado law, and for these reasons, as pointed out in Acting Assistant Attorney General Williams' letter of March 5, 1953, to this Service, Mr. Marmaduke was of the opinion that no decree would be issued in favor of the rights claimed by the National Park Service under filing No. 17,082, made on March 23, 1942. He further indicated his doubt that any conditional or interlocutory decree could be obtained where no work at the proposed point of diversion had been done toward perfecting the claim since the filing was made. This latter point was covered to some extent in our letter to you of April 1, and your letter of April 7 indicates that the information we submitted had been forwarded to Mr. Marmaduke for consideration.

As stated in our letter to you of April 1, 1953, we believe ground water to be subject to appropriation in Colorado, and hope Mr. Marmaduke will not refrain from participating in behalf of the National Park Service in pending case No. 8303. While numerous sections of Chapter 90, Irrigation, 1935 Colorado Statutes Annotated, were repealed by Chapter 190, Session Laws of 1943, we do not find that section 20 of the irrigation laws has been amended. This section provides for prior appropriation rights (subject, however, to certain prior rights of the landowner) to waters finding their way to the channel or bed of a natural stream by percolation, surface or subterranean flow, and this section has been held by the Colorado Supreme Court, in Faden v. Hubbell, 28 P. (2d) 247, to

mean that underground waters supplying natural streams are open to appropriation like surface waters, even where, as here, appropriation is made by wells. Further, the burden of proof whether water is or is not tributary to a stream is upon the party asserting it is not tributary, since the natural presumption is that all flowing water finds its way to a stream. De Haas v. Benesch, 181 P. (2d) 453 (1947).

The following additional support has now been obtained of our contention that sufficient works have been started to support our claim. We have now been advised that two test wells were drilled last summer, but that the Superintendent did not realize that they were to be considered as constituting the initial steps in the design and construction of the water system. For this reason he did not show them to Mr. Marmaduke in December. It is requested, therefore, that the following information be forwarded to Mr. Marmaduke, as supplementing that previously submitted.

Test Well "A" was drilled about 70 feet from the No Thoroughfare Shelter and about S. 79°36' W. 2200 feet from the corner common to Sections 29, 30, 31, and 32, T. 1 S., R. 1 W., Ute Principal Meridian.

Test Well "B" was drilled about 115 feet easterly from the proposed well designated in filing 17082, and N. 86°38' W. 425.73 feet from the same aforesaid section corner.

The two wells were drilled in an attempt to find water at a depth to provide a minimum of pump lift to the proposed reservoir. Both holes intercepted artesian water. The drill hole "A" intercepted water at a depth of 145 feet and the water rose to within 40 feet of the ground surface. Drill hole "B" intercepted water at a depth of 66 feet and the water rose to within 26 feet of the surface. However, due to the difference in ground surface elevations, the pump lift from Well "B", near the proposed well, is nearly 100 feet greater than from Well "A".

The Chief of the Water Resources Branch of this Service suggests that there is probably far more justification for obtaining a decreed right to the water, since it is under artesian pressure in a restricted channel or basin, than if it were percolating water as previously anticipated. Moreover, the drilling of the two holes, in 1952, constitutes action in connection with the construction of the system.

However, since there seems to be considerable area over which the final well can be drilled, to intercept the same water at the highest elevation, it is suggested that the water claim should now be for water from an artesian area under most of the $S\frac{1}{2}$ of $S\frac{1}{2}$ of Section 30, and $N\frac{1}{2}$ of $N\frac{1}{2}$ of Section 31, T. 1 S., R. 1 W., Ute Principal Meridian; and that the point of diversion be conditionally decreed to the point recorded in filing 17082, with permission, if possible, to transfer to a more desirable site before submitting proof for a final decree, within the triangle formed by test wells "A" and "B", and station 21+28.0 on the pipe line shown on filing 17082 which is N. 87°21' W. 2632 feet from said corner common to Sections 29, 30, 31, and 32.

At least one more test well, if drilled, will probably determine whether Well "A" intercepts an artesian basin, or higher point on an artesian stream which continues on a downward grade to Well "B". It is also significant that the difference in pressure, or elevation of free water in Well "B", is about 100 feet less than at Well "A", a drop of 100 feet in a horizontal distance of about 1700 feet. In the same distance, the artesian channel rises from 145 feet to only 66 feet below the ground surface. A projection of the line from Well "A" to Well "B" will intercept the Colorado River at a further distance of about 4 miles, and about 400 or 500 feet lower. It follows that the artesian water must emerge as a surface spring tributary to the Colorado River, or as a spring in the river.

If you and Mr. Marmaduke agree with this procedure, and the claim can still be introduced in the pending adjudication, we shall be pleased to submit a complete statement of claim and revised map.

Very truly yours,

(SGD) Hillory A. Tolson

Hillory A. Tolson
Acting Director

Copy to: Solicitor - Attention: Mr. Wright
Regional Director, Region Three (3)
Mr. Price
Mr. Vint
Mr. Dunn

AvanVDunn:EHDesh

04-23-1953: memorandum, test wells, in connection with land and water rights problems i was at colorado national monument; ap

C
O
P
Y

REGION THREE
Santa Fe, New Mexico

April 23, 1953

Memorandum

To: Regional Director

From: Chief, Land Planning

Subject: Test Wells, No Thoroughfare Canyon, Colorado National Monument

In connection with land and water rights problems I was at Colorado National Monument April 7 to 11. Friday, April 10, with Superintendent Carlson, Assistant Superintendent Fagergren, of Mesa Verde, and Superintendent Mahan of Colorado National Monument, I visited several parts of the Monument and especially the Shelter House in No Thoroughfare Canyon near the Grand Junction entrance.

The Service has a picnic Shelter in No Thoroughfare Canyon and a residence proposed for the Grand Junction Entrance. Because of the lack of water and sanitary facilities, coupled with vandalism, the area containing the Shelter House has been fenced and closed to the public for a period of about two years.

We have a water right filing, No. 17082, which was filed with the State Engineer in 1942, but we have been unable to do any work on the system since the original filing of 1942. The plan NM-COLO-6975 filed with the State Engineer proposed a well and pump to be located in the SE¼ of Section 30, T. 1 S., R. 1 W., Ute Meridian, Station 0 + 00 and a two-inch pipe line leading from the well to a 5,000-gallon redwood storage tank located near the south quarter corner of Section 30 at Station 21 + 80. The water would then flow by gravity through a one and one-half inch line to the Shelter House which is located in the NW¼NE¼ of Section 31, T. 1 S., R. 1 W.

During the past few months we have been advised of a pending adjudication of water rights in Water District No. 42 and Mr. C. V. Marmaduke, Special Assistant to the United States Attorney in Denver

has been requested to represent us in the District Court of Mesa County, Colorado, Civil No. 8303.

On December 23, 1952, Mr. Marmaduke visited Colorado National Monument and a copy of his letter to Acting Superintendent Fagergren was transmitted to the Director with Mr. Patrav's memorandum of March 20. In his letter of February 24, Mr. Marmaduke points out that it is doubtful if the court would grant a conditional decree when the work has been done and also, he states, "It is questionable in Colorado as to whether a decree can be obtained to water from a well."

In anticipation of funds for the installation of the water system shown on the plan and to determine the depth of water in the main areas of use, Superintendent Mahan took advantage of the voluntary services of a local Wagon Drill Manufacturing Company to determine if a lower pump lift could be provided. The local Wagon Drill Company wishing to test a two and one-quarter-inch drill, drilled a test hole near the existing picnic shelter. This well which I have called Well "A" is approximately 70 feet northwest of the north wing of the picnic shelter. It was drilled to a depth of 145 feet where water was encountered and the water rose to within 40 feet of the surface. Later the same company had manufactured a larger drill and, wishing to test it, they drilled a second well with a five and one-quarter-inch drill in the southeast corner of Section 30, T 1 S., R. 1 W. This second well which I have called Well "B" is 66 feet deep and the water rose to within 26 feet of the surface. Both wells indicate that an artesian basin is present. I have attached a sketch map that shows the approximate location of the wells in relation to the picnic shelter and the proposed residence.

Mr. Mahan did not realize the importance of these test wells in connection with our pending adjudication and Mr. Marmaduke was not advised of their existence. Mr. Mahan believes, and we agree with him, that we can save considerable money by drilling a larger well near the shelter, place a storage tank closer to the shelter and obtain a gravity flow to both shelter house and the proposed residence. I have indicated on the attached sketch map the plan proposed by Mr. Mahan. There is a slight hogback between the picnic shelter and the proposed residence, but I think that a gravity flow could be obtained and a large amount of pipe could be saved.

I suggest that the two test wells may be referred to as evidence of diligence in attempting to appropriate the water contemplated by filing No. 17082, in case it is decided to seek a conditional decree in the pending adjudication in Water District 42, Mesa County, Colorado.

Even though Mr. Marmaduke has questioned whether a decree can be obtained in Colorado from water from a well, I would like to transmit two copies of this information to Mr. Dunn for such action as he deems advisable.

John E. Kell
Chief, Land Planning

Concurred:

(Signed) _____ April 23, 1953
Regional Chief, Land and Recreation Planning — Date

Approved for Distribution:

M. R. Tillotson _____ April 23, 1953
Regional Director — Date

Copy to: Supt., Mesa Verde (2)
Director (2)

April 21, 1953

Taken from Radio Message:

To: John E. Kell

From: Supt., Mesa Verde

We would like you to initiate the water statement for Colorado National Monument.

April 22, 1953

Taken from Radio Message:

To: Regional Director attention Mr. Kell

From: Supt., Mesa Verde

Wells at Colorado National Monument.

Well A. Shelter House 2¼ inch hole 145 feet deep. Water to 40 ft. of surface, October 10, 1952

Well B. NE. corner S. 31, T. 1 S., R. ~~101~~ 1 W. 5¼ inch hole. 66 feet deep. Water to 26 ft. of surface February 10, 1953.

April 28, 1953

Taken from Radio Message:

To: Regional Director
Att.: Mr. Kell
From: Supt., Colorado

Re: Wells at Colorado NM

Well A - 5,040 ft., well B - 4,960 ft. The Colorado River at the 5th St. Bridge is 4,558 ft.

Location of Well A - 91 ft. from northwest corner of north end of shelter house and 127 ft. from northwest corner of west end of shelter house.

Location of Well B - Approximately 417 ft. west of corner common to sections 31 and 32, T. 1 S., R. 101 W. to cedar fence post with iron pipe peg driven just north of post, thence approximately north 53 ft. on a line with cedar tree and a black granite boulder on a knoll to well site, hole covered with sheet iron clay and 4 to 6 inches ± of dirt clay can be located by probing with a bar.

April 28, 1953

Taken from Radio Message:

To: Regional Director
Att. Mr. Kell
From: Supt., Colorado

Correction Well B furnished you radio today. Should be "approximately 417 ft. West of North corner common to Sections 31 and 32, T. 1 S., R. 1 W.", etc.

WRC

In reply refer to:
L54 COLM-L

APR -1 1953

The Honorable
The Attorney General
Washington 25, D. C.

Sir:

Re: Adjudication of Priorities of Water Rights for Colorado National Monument in Water District No. 42 - District Court of Mesa County - Civil No. 8303

The letter of March 5 from Acting Assistant Attorney General Williams (your reference REM-FLF 90-1-2-48) with which was enclosed a copy of a letter of February 24 to the Acting Superintendent, Mesa Verde National Park, from C. V. Marmaduke, Special Assistant to the Attorney General, advises that Federal claims under filing No. 17082 should not be adjudicated until the proposed well is dug, and questions whether any appropriative right is needed under the existing water laws of Colorado. Although your tentative decision to take no action at this time is satisfactory to us, we believe that the following comments merit consideration.

When the filing was made, the No Thoroughfare Campground was being served by a pipe line from an adjacent stream. The first claim was completed to cover the stream supply just as the flow fell alarmingly low and the U. S. Public Health Service proposed the substitution of a well because of the resulting more concentrated potential contamination. The Chief of our Water Resources Branch considered a modification to claim either the waters of the stream or the proposed well. The proposed stream supply claim was dropped on the suggestion of our Regional Office that well drilling was about to start in 1942. This was done on the belief that the claim for the stream supply could be introduced and adjudicated, if it was still in use when adjudication became necessary.

Due to wartime restrictions on funds, the well has not been dug, and the use of the stream supply continued from 1942 until the close of the 1951 tourist season. By a copy of this letter, we are asking the Regional Director whether the pipe line is still in place. The adjudication is transpiring during the period, which we hope will be short, just after the U. S. Public Health Service decided that the stream supply was becoming too contaminated for further use without expensive treatment,

and before the well supply can be substituted. We should naturally like to establish a right to the use of water at the campground.

Mr. Marmaduke has suggested that the court might not grant a conditional decree because the water system has not been constructed since 1942. However, in view of the preceding explanation, and the fact that the distribution system is doubtless still in place, we are inclined to believe that a conditional decree should not be so difficult to obtain, if the claim were amended to point out the past use in the water district.

It is true, as Mr. Marmaduke states, that ground water may not be technically subject to appropriation. However, the Colorado water code differs from many others in recognizing that percolating water may be subject to appropriation. To quote from the Rules and Regulations of the State Engineer (page 3 of the 1945 edition):

> "Our Supreme Court has held that the term 'natural stream' is 'intended to include all tributaries and streams draining into other streams'; also that 'the word "tributary" as used in the statutes relating to water districts, includes all sources of supply which go to make up the natural stream. Percolating waters finding their way to a stream are tributary thereto.'"

In addition to the preceding quotation, the Chief of the Water Resources Branch advises me that he recalls that the court of Colorado Water District No. 4 adjudicated a few claims to well water in 1939 (Case No. 10077), when the claims for Rocky Mountain National Park were presented. The water systems were not in, or adjacent to the Park, so Mr. Dunn is not familiar with the details; but for such consideration as you care to make, he refers you to Domestic Priority No. 15 of December 31, 1909, for Griffith Well No. 1, and Priority No. 18 of December 31, 1911, for Griffith Well No. 2. Moreover, I am informed that the Geological Survey does not, as a general rule, recognize the purely legal distinction between underground streams and percolating water in its activities. Accordingly, in our opinion, it would save later Federal expense if the conditional rights, or alternative rights, could be established in the pending adjudication.

We recommend that the above be given your careful consideration.

Very truly yours,

(SGD) Conrad L. Wirth

Conrad L. Wirth
Director

Copy to: Regional Director, Region Three (3), with 3 copies each of Mr. Williams' letter of March 5 to Mr. Wirth; and of Mr. Marmaduke's letters of February 24 to the Attorney General and to the Acting Supt. of Mesa Verde
Mr. Price, with 1 copy each of above letters
Mr. Vint, with 1 copy each of above letters
Mr. Dunn, with 1 copy each of above letters

AvanVDunn:HKS:sh

02-24-1953: letter to mr. conrad l. wirth, there is enclosed a copy of a letter dated february 24, 1953; march 05, 1953

Address Reply to
"The Attorney General"
and Refer to
Initials and Number

REM-FLF

90-1-2-48

COPY

UNITED STATES
DEPARTMENT OF JUSTICE
WASHINGTON 25, D. C.

March 5, 1953

Mr. Conrad L. Wirth, Esquire
Director
National Park Service
Department of the Interior
Washington, D. C.

Dear Mr. Wirth:

There is enclosed a copy of a letter dated February 24, 1953, from C. V. Marmaduke, Jr., Special Assistant to the United States Attorney, concerning the adjudication of priorities of water rights in Water District No. 42, in the District Court of Mesa County, Colorado. There is also enclosed a copy of a letter dated February 24, 1953, from Mr. Marmaduke to Mr. Fred C. Fagergren, Acting Superintendent of the Mesa Verde National Park.

The National Park Service is interested in this litigation by reason of its claim No. 17,082 filed with the State Engineer March 23, 1942. Mr. Marmaduke expresses the opinion that in view of the fact no work whatever has been done in the development of this water, the court would not decree any water right to the United States. He suggests that probably the matter could be taken up again if at any time in the future the National Park Service does develop the water. This Department would be glad to receive any further views you may have in this matter.

Sincerely,

/s/ J. Edward Williams

J. Edward Williams
Acting Assistant Attorney General

Enclosure
No. 87186

COPY

301 New Customhouse
Denver 2, Colorado
February 24, 1953

AIR MAIL

The Attorney General
Lands Division
Trial Section
Washington 25, D. C.

Re: - Adjudication of Priorities of Water Rights in Water District No. 42 - District Court of Mesa County. National Park Service
Civil No. 8303

Sir:

By letter addressed to the Attorney General and dated March 21, 1952, Conrad L. Wirth, Director of the National Park Service, called attention to its Claim No. 17082 for the use of water filed with the State Engineer on March 23, 1942, which was about eight months after the last adjudication in that district. The letter suggested that the claim be filed in the pending civil action above described. I made an examination of the property which disclosed that the well had not been dug due to lack of funds and that the area had been closed to the public because of vandalism. I was informed that the National Park Service intends to dig the well and rehabilitate the area when funds are available. I believe that under the existing conditions that the court would not grant a decree.

I herewith enclose a copy of a letter dated today addressed to Fred C. Fagergren, Acting Superintendent of the National Park Service in connection therewith.

Respectfully,

C. V. MARMADUKE, JR.
Special Assistant to
The Attorney General

Enclosure

CVM:dt

COPY

301 New Customhouse
Denver 2, Colorado
February 24, 1953

Mr. Fred C. Fagergren
Acting Superintendent
National Park Service
Department of the Interior
Mesa Verde National Park, Colorado

Re: Adjudication of Priorities of Water Rights in Water District No. 42 - District Court of Mesa County.

Dear Mr. Fagergren:

I acknowledge receipt on December 29, 1952, of black-line print of drawing NM-COLO. 6975, forwarded to me in connection with the above-mentioned case.

Recently I made an inspection of the area to be served by the pipeline in question and noted that the source of water is a contemplated well. No work has been done on construction of the well nor the pipeline. The only action that has been taken was in connection with the filing of the drawing with the State Engineer, which filing was made on March 23, 1942. It is doubtful that the court would grant a conditional decree when no work in connection with the project has been done. Also it is questionable in Colorado as to whether a decree can be obtained to waters from a well.

At the present time the Colorado legislature is considering a bill in reference to ground waters which, if passed, might clarify the law with regard to wells. It does not appear that water diversions jeopardize the proposed project, which would make it advisable to take some action in reference thereto at the present time.

I have been advised that the U.S.G.S. will soon issue a geological report on the area in question. In view of the present attitude of the courts of Colorado toward granting decrees for wells, this report may disclose whether the water sought to be obtained in the well is from percolating waters or from an underground stream. If it is from an underground stream or so close to a defined channel it might be possible to obtain a decree. However, I do not deem it advisable to file a statement of claim asking for a conditional

decree to a well when the date for commencement of work has not been set. The pending water adjudication proceeding will remain open for some time and it may be possible that the National Park Service can commence work or at least obtain the funds for the digging of the well, in which event the advisability of filing a statement of claim could be determined.

I would appreciate your calling the above matters to the attention of your superiors so that I can obtain their advice in connection therewith.

Very truly yours,

C. V. MARMADUKE, JR.
Special Assistant to
The Attorney General

CVM:dt

In reply refer to:
154 COLM-L

April 1, 1953

The Honorable
The Attorney General
Washington 25, D. C.

Re: Adjudication of Priorities of Water Rights for Colorado National Monument in Water District No. 42 - District Court of Mesa County - Civil No. 8303

Sir:

The letter of March 5 from Acting Assistant Attorney General Williams (your reference RFM-FLF 90-1-2-48) with which was enclosed a copy of a letter of February 24 to the Acting Superintendent, Mesa Verde National Park, from C. V. Marmaduke, Special Assistant to the Attorney General, advises that Federal claims under filing No. 17082 should not be adjudicated until the proposed well is dug, and questions whether any appropriative right is needed under the existing water laws of Colorado. Although your tentative decision to take no action at this time is satisfactory to us, we believe that the following comments merit consideration.

When the filing was made, the No Thoroughfare Campground was being served by a pipe line from an adjacent stream. The first claim was completed to cover the stream supply just as the flow fell alarmingly low and the U. S. Public Health Service proposed the substitution of a well because of the resulting more concentrated potential contamination. The Chief of our Water Resources Branch considered a modification to claim either the waters of the stream or the proposed well. The proposed stream supply claim was dropped on the suggestion of our Regional Office that well drilling was about to start in 1942. This was done on the belief that the claim for the stream supply could be introduced and adjudicated, if it was still in use when adjudication became necessary.

Due to wartime restrictions on funds, the well has not been dug, and the use of the stream supply continued from 1942 until the close of the 1951 tourist season. By a copy of this letter, we are asking the Regional Director whether the pipe line is still in place. The adjudication is transpiring during the period, which we hope will be short, just after the U. S. Public Health Service decided that the stream supply was becoming too contaminated for further use without expensive treatment,

and before the well supply can be substituted. We should naturally like to establish a right to the use of water at the campground.

Mr. Marmaduke has suggested that the court might not grant a conditional decree because the water system has not been constructed since 1942. However, in view of the preceding explanation, and the fact that the distribution system is doubtless still in place, we are inclined to believe that a conditional decree should not be so difficult to obtain, if the claim were amended to point out the past use in the water district.

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We recommend that the above be given your careful consideration.

Very truly yours,

(Sgd) Conrad L. Wirth

Conrad L. Wirth
Director

02-24-1953: letter to mr. conrad l. wirth, there is enclosed a copy of a letter dated february 24 1953; march 05, 1953

Address Reply to
"The Attorney General"
and Refer to
Initials and Number

REM-FLF

90-1-2-48

COPY

UNITED STATES
DEPARTMENT OF JUSTICE
WASHINGTON 25, D. C.

March 5, 1953

Mr. Conrad L. Wirth, Esquire
Director
National Park Service
Department of the Interior
Washington, D. C.

Dear Mr. Wirth:

There is enclosed a copy of a letter dated February 24, 1953, from C. V. Marmaduke, Jr., Special Assistant to the United States Attorney, concerning the adjudication of priorities of water rights in Water District No. 42, in the District Court of Mesa County, Colorado. There is also enclosed a copy of a letter dated February 24, 1953, from Mr. Marmaduke to Mr. Fred C. Fagergren, Acting Superintendent of the Mesa Verde National Park.

The National Park Service is interested in this litigation by reason of its claim No. 17,082 filed with the State Engineer March 23, 1942. Mr. Marmaduke expresses the opinion that in view of the fact no work whatever has been done in the development of this water, the court would not decree any water right to the United States. He suggests that probably the matter could be taken up again if at any time in the future the National Park Service does develop the water. This Department would be glad to receive any further views you may have in this matter.

Sincerely,

/s/ J. Edward Williams

J. Edward Williams
Acting Assistant Attorney General

Enclosure
No. 87186

COPY

301 New Customhouse
Denver 2, Colorado
February 24, 1953

AIR MAIL

The Attorney General
Lands Division
Trial Section
Washington 25, D. C.

Re: - Adjudication of Priorities of Water Rights in Water District No. 42 - District Court of Mesa County. National Park Service
Civil No. 8303

Sir:

By letter addressed to the Attorney General and dated March 21, 1952, Conrad L. Wirth, Director of the National Park Service, called attention to its Claim No. 17082 for the use of water filed with the State Engineer on March 23, 1942, which was about eight months after the last adjudication in that district. The letter suggested that the claim be filed in the pending civil action above described. I made an examination of the property which disclosed that the well had not been dug due to lack of funds and that the area had been closed to the public because of vandalism. I was informed that the National Park Service intends to dig the well and rehabilitate the area when funds are available. I believe that under the existing conditions that the court would not grant a decree.

I herewith enclose a copy of a letter dated today addressed to Fred C. Fagergren, Acting Superintendent of the National Park Service in connection therewith.

Respectfully,

C. V. MARMADUKE, JR.
Special Assistant to
The Attorney General

Enclosure

CVM:dt

02-24-1953: letter to mr. fred c. fagergren, acknowledge receipt on december 29, 1952, of black-line print of drawing; february 24,

COPY

301 New Customhouse
Denver 2, Colorado
February 24, 1953

Mr. Fred C. Fagergren
Acting Superintendent
National Park Service
Department of the Interior
Mesa Verde National Park, Colorado

Re: Adjudication of Priorities of Water Rights in Water District No. 42 - District Court of Mesa County.

Dear Mr. Fagergren:

I acknowledge receipt on December 29, 1952, of black-line print of drawing NM-COLO. 6975, forwarded to me in connection with the above-mentioned case.

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I have been advised that the U.S.G.S. will soon issue a geological report on the area in question. In view of the present attitude of the courts of Colorado toward granting decrees for wells, this report may disclose whether the water sought to be obtained in the well is from percolating waters or from an underground stream. If it is from an underground stream or so close to a defined channel it might be possible to obtain a decree. However, I do not deem it advisable to file a statement of claim asking for a conditional

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I would appreciate your calling the above matters to the attention of your superiors so that I can obtain their advice in connection therewith.

Very truly yours,

C. V. MARMADUKE, JR.
Special Assistant to
The Attorney General

CVM:dt



COPY

In reply refer to:
L54 COLO-L

December 11, 1952

Memorandum

To: Mr. Miles Q. Romney, Bureau of Reclamation

From: Assistant Director, National Park Service

Subject: Water Claims for Colorado National Monument for Possible Adjudication in Colorado Water District No. 42--Civil Action No. 8303

On December 1 Mr. Dunn presented you with a print of our drawing NM-COL-6975, No Thoroughfare Pipe Line, Colorado National Monument, which was accepted as the Federal claim for that pipe line and assigned file No. 17082 by the State Engineer. You have also received a copy of the memorandum of December 1 for the Regional Director from our Chief of Lands, requesting a report on the status of the system.

We have now received a report from the Regional Director, as follows. The water system has not yet been constructed (because no funds have been provided). The subject drawing still represents the approved plan, to be constructed when possible. An average of 10,000 picnickers a year used the area between 1941 and 1951, with a makeshift water supply from an adjacent stream, but the area had to be closed in 1952 for sanitary reasons. As soon as the water and sewer systems can be completed it is proposed to expand and restore the campground, and to provide housing accommodations for three rangers.

It is evident that a conditional decree will have to be requested in the pending suit.

(Sgd.) Hillory A. Tolson

Hillory A. Tolson
Assistant Director

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
WASHINGTON 25, D.C.

IN REPLY REFER TO:
162

DEC. 9 1952

Memorandum

To: The Solicitor

From: Acting Commissioner, Bureau of Reclamation

Subject: In the Matter of the Adjudication of Priorities of Water Rights in Water District No. 42, Civil No. 8303, in the District Court, County of Mesa, Colorado

In response to Assistant Solicitor Bruce Wright's letters of November 28 and December 2, 1952, there is attached for your consideration a draft of letter to the Attorney General. This draft is in answer to Assistant Attorney General McInerney's letters of November 25 and November 26, 1952, advising that if the Department of the Interior desires that, if claims of the United States for agencies of this Department are to be made known to the District Court, Mesa County, Colorado, in connection with the above-named proceeding, a request to this effect should be transmitted promptly to the Attorney General of the United States inasmuch as the time for the filing of a claim in this proceeding expires December 15.

In accordance with your oral suggestion we are incorporating references to earlier statements to the Attorney General in regard to interests of the National Park Service and the Bureau of Land Management in the above-named proceeding. Likewise, we have presented briefly our views concerning the possible implications of Section 208 of the Department of Justice Appropriation Act, 1953 (P. L. 495, 82d Congress, 2d Session) with respect to this matter.

G. W. Lineweaver

Acting Commissioner

Enclosure

Copy to: Director, National Park Service
Director, Bureau of Land Management
(w/c enclosure to each)

The Honorable
The Attorney General
Department of Justice
Washington 25, D. C.

Sir:

Assistant Attorney General McInerney's letters of November 25 and November 26, 1952 (both bearing your reference HEM-WHW 90-1-8-48), relate to the pending proceeding entitled In the Matter of the Application of Erwine H. Stewart for a Supplemental Adjudication Proceeding to Fix the Priorities of Water Rights in the Whole of Water District No. 42, Mesa County, Colorado, for All Beneficial Purposes, Civil Action No. 8303, in the District Court, County of Mesa, Colorado. The letter of November 25 states that if this Department desires that a claim of the United States be filed in the above proceeding for the benefit and protection of any activities of Interior Department agencies, we should so inform you promptly in order that necessary instructions may be sent to Mr. C. V. Marmaduke, Jr., Special Assistant to the Attorney General at Denver, Colorado. This letter also indicates that the time for filing such a claim expires December 15, 1952. The letter of November 26 supplements the letter of November 25 by enclosing a copy of a letter dated November 24, 1952, from Mr. Marmaduke to the Attorney General concerning the above proceeding.

Three agencies of this Department are asserting water requirements from that water supply which is involved in the above-named proceeding.

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(1) The Bureau of Reclamation plans the use of part of the water supply in Water District No. 42 in connection with the operation of the Collbran Federal reclamation project, authorized by the Act of July 3, 1952 (P. L. 445, 82d Congress, 2d Session). I am enclosing a draft of statement of claim of the United States for the Collbran project. A copy has been furnished to Mr. Marmaduke by the Regional Director, Bureau of Reclamation, Region 4, Salt Lake City. We are informed that some minor changes in description may be necessary in this statement. These, if any, will be transmitted directly to Mr. Marmaduke.

(2) The National Park Service has need for a small amount of water from the water supply of Water District No. 42 in connection with its operation in No Thoroughfare Canyon in the Colorado National Monument. Mr. McInerney's letter of November 25 refers to a letter dated March 21, 1952, in which the Director, National Park Service, has outlined the action heretofore taken by the National Park Service and the present status of its claim.

(3) The Bureau of Land Management has an interest in maintaining a water supply for some 40 stock-watering developments in the area of Water District No. 42. Mr. McInerney's letter of November 25 also refers to a letter dated April 14, 1952, signed by the Assistant Solicitor of this Department, which states the nature and extent of the interest of the Bureau of Land Management in the water supply involved in the present proceeding.

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On its face Section 208 of the Department of Justice Appropriation Act, 1953 (P. L. 495, 82d Congress, 2d Session) appears to have as its objective permitting joinder of the United States in certain classes of water administration or adjudication cases. It is not clear to me that the instant proceeding in Water District No. 42 is covered by that section or, if so, that the jurisdiction of the local court has been invoked against the United States. However, absent further clarification, either by the Congress or court decision, I believe the failure of the Government to make known its claims in this proceeding would be hazardous at least to the extent that its priorities of use might be jeopardized in any subsequent proceeding that might be initiated against the United States under Section 208. Likewise, such failure would be hazardous should the United States in some other proceeding assert priorities of use in conflict with those that might be established or claimed as a result of the instant proceeding.

It does not appear to me that, in the circumstances of the present case, the United States would be disadvantaged by making its claims known to the District Court, assuming as I do that presentation of claims in this proceeding is not by reason of Section 208 having been invoked. In view of this and of the risks involved in not doing so I am affirming the requests of the above-mentioned letters of March 21 and April 14 with respect to the National Park Service and the Bureau of Land Management, respectively, that you take such steps as you deem appropriate to protect the interests of the United States. In addition I am initiating the request that you take similar steps in connection with the claims of the United States for water for the Collbran project.

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This Department will be glad to furnish any further available information and such assistance as may be desired. Particularly, the Regional Director and Regional Counsel, Bureau of Reclamation, Salt Lake City, Utah; the Regional Director and Regional Counsel, National Park Service, Santa Fe, New Mexico; and the Regional Administrator and Regional Counsel, Bureau of Land Management, Salt Lake City, Utah, will stand ready to provide information and assistance.

Very truly yours,

Solicitor

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00-00-0000: statement of claim of the united states of america; 1952

IN THE DISTRICT COURT, IN AND FOR THE COUNTY OF MESA,
STATE OF COLORADO

- - - - - - - - -

IN THE MATTER OF THE ADJUDICATION OF PRIORITIES OF WATER RIGHTS IN WATER DISTRICT NO. 42	STATEMENT OF CLAIM OF THE UNITED STATES OF AMERICA FOR COLLBRAN PROJECT, COLORADO

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Comes now C. V. Hanundaka, Jr., Special Assistant to the Attorney General of the United States, duly authorized and directed by the said Attorney General to appear on behalf of the United States, and hereby presents the following statement of claim.

1. The United States of America, through its proper officers, by authority and in pursuance of the Act of Congress approved June 17, 1902 (32 Stat. 388), known as the Reclamation Act, and acts amendatory thereof or supplemental thereto, has initiated and proposes to construct a reclamation project known as the Collbran Project, which will be entirely within Water district No. 42, and will consist of a storage reservoir, known as Vega Reservoir, located on Plateau Creek, a natural stream tributary to the Colorado River; the Leon-Park Feeder Canal, which will divert water from Leon and Park Creeks, tributaries of Plateau Creek, and will convey water to the Vega Reservoir; the South Side Canal which will divert water from Vega Reservoir and convey it to the places of use; the enlargement of the existing Bonham Reservoir located on Big Creek, a natural stream tributary to Plateau Creek; the East Fork Feeder Canal which will divert water from the East Fork of Big Creek and Atkinson Creek, tributaries of Big Creek, and convey it to Bonham Reservoir; the Mesa pipeline which will convey water from Bonham Reservoir and Cottonwood Creek to the head of Grand Valley where such water will be released into the valley pipeline for conveyance to municipal and domestic water users, and two power plants (Molina and Cameo) to be constructed along the Mesa pipeline for generation of electric power.

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2. The purposes for which water has been appropriated and will be used are irrigation, domestic, stock watering, municipal, industrial, electric power generation and other purposes. Water will be used throughout the year for all purposes named above, except irrigation. Water for irrigation will be used during the period from April 1 to October 15 each year.

3. Work was commenced by survey on June 1, 1937, and ever since said date has been carried on with due diligence. The date of appropriation of water to be diverted, stored and carried in the project works is June 1, 1937.

4. The estimated total cost of construction of the Collbran Project works will be $17,089,000.00.

5. The name of the claimant of the water rights herein described is the United States of America, and the address of the claimant is in care of Bureau of Reclamation, 32 Exchange Place, Salt Lake City, Utah.

6. The following specific statement of facts is made regarding each feature of the project.

(a) Vega Reservoir. The name of said reservoir is Vega Reservoir. Said reservoir will be located on Plateau Creek in the County of Mesa, State of Colorado, and the intersection of the axis of the dam with the spillway will be at a point which bears South Forty degrees, forty-nine minutes (40°49') East, a distance of Four hundred twenty-seven (427) feet from the north quarter corner of section six (6), Township ten (10) South, Range ninety-three (93) West, 6th P.M. The total initial capacity of said reservoir at normal water surface will be thirty-three thousand five hundred (33,500) acre-feet. The active capacity of said reservoir will be thirty-two thousand seven hundred (32,700) acre-feet, and the dead storage of said reservoir will be eight hundred (800) acre-feet. The source of supply of water to be impounded in said reservoir will be Leon Creek and Park Creek, tributaries of Plateau Creek, and Plateau Creek, a tributary of the Colorado River. The date of appropriation of water by initiation of work on said reservoir is June 1, 1937, and the quantity of water claimed by the United States is thirty-two thousand seven hundred (32,700) acre-feet. The number of acres

of land proposed to be irrigated by water from said reservoir is twenty thousand six hundred fifty (20,650) acres. The estimated cost of said reservoir is three million six hundred twelve thousand ($3,612,000) dollars. The water stored in said reservoir will be released into the Southside Canal, which will convey it to project lands for use for irrigation.

(b) Leon-Park Feeder Canal. The name of the canal is the Leon-Park Feeder Canal. The proposed headgates of said canal are located as follows: The Leon Creek Diversion is in the County of Mesa, State of Colorado, on the northeast bank of Leon Creek, a tributary of Plateau Creek, from which said canal will draw some or all of its supply of water at a point situated in Section Seven (7), Township Ten (10) South, Range Ninety-three (93) West, 6th P.M., which point bears south seventy-eight degrees and fifteen minutes (78°15') West, a distance of nine hundred and twenty-five (925) feet from the east quarter corner of said section. The Park Creek Diversion is in the County of Mesa, State of Colorado, on the north bank of Park Creek, a tributary of Plateau Creek, from which said canal will draw some or all of its supply of water at a point situated in Section Six (6), Township Ten (10) South, Range Ninety-three (93) West, 6th P.M., which point bears North Seventy-three degrees and Forty-five minutes (73°45') West, a distance of nine hundred and sixty (960) feet from the south quarter corner of said section. The general course and description of said canal is as follows:

It begins at a point above designated as the location of the headgate at Leon Creek, and runs thence in a northerly direction to a point near the Park Creek Diversion, a point above designated, and runs thence in a northerly direction to the Vega Reservoir. The length of the canal is about three and two-tenths (3.2) miles, and the width is about fourteen (14) feet at the bottom and twenty-eight and four-tenths (28.4) feet at the water surface. The depth of said canal is about four and five-tenths (4.5) feet, and the grade is about one and eighty-five hundredths (1.85) feet per mile.

The date of appropriation of water by this canal is the first day of June, 1937. The quantity of water claimed is two hundred and forty (240) cubic feet of water per second from either Leon Creek and Park Creek or in aggregate from both. The designed capacity of said canal is two hundred and forty (240) cubic feet per second to be used for irrigation purposes.

(c) Southside Canal: This proposed canal is named the Southside Canal. The proposed beginning of said canal is at the intersection of the centerline of the outlet works of the proposed Vega Reservoir with the downstream cut-off wall of said outlet works which will be at a point on the south bank of Plateau Creek situated in Section Six (6), Township Ten (10) South, Range Ninety-three (93) West, 6th P. M., which point bears approximately south twenty-three degrees, sixteen minutes (23°16') West, a distance of eight hundred and fifty (850) feet from the North quarter (N¼) corner of said Section six (6). The general course and description of said canal is as follows:

It begins at the above designated point and runs thence in a southwesterly direction for a distance of about twenty-nine and two-tenths (29.2) miles. The width of said canal is about fourteen (14) feet at the bottom and twenty-seven and four-tenths (27.4) feet at the water surface. The depth of said canal is about four and five-tenths (4.5) feet, and the grade is about one and eight-tenths (1.8) feet per mile.

The appropriation of direct flow water for diversion by the said Southside Canal is two hundred and forth (240) cubic feet of water per second from Plateau, Leon and Park Creeks. This appropriation is in addition to that water appropriated for storage in Vega Reservoir. At such times that the flows of Plateau, Leon and Park Creeks are insufficient to provide 240 cubic feet of water per second, the said Southside Canal will convey stored water from Vega Reservoir to irrigated lands of the project. The date of appropriation of water to be carried by Southside Canal is June 1, 1937. The area of land proposed to be irrigated by said canal is twenty thousand, six hundred and fifty (20,650) acres.

(d) Bonham Reservoir Enlargement: The name of the reservoir is the Bonham Reservoir. Said reservoir is in the County of Mesa, State of Colorado, and the intersection of the axis of the dam with the centerline of the spillway is at a point in the northwest quarter of the southwest quarter of Section Nine (9), Township Eleven (11) South, Range Ninety-four (94) West, 6th P. M. The present reservoir capacity is one thousand and three hundred (1,300) acre-feet, and proposed enlargement will increase the capacity of said reservoir to two thousand and two hundred (2,200) acre-feet at normal water surface. The active capacity of said reservoir is two thousand and fifty (2,050) acre-feet and the dead storage capacity is one hundred and fifty (150) acre-feet. The source of supply

of water to be impounded in said reservoir will be the high watershed areas of Big Creek, a tributary of Plateau Creek, a tributary of the Colorado River.

The date of appropriation of water by original construction of said reservoir, known as Big Creek Reservoir No. 7, also Bonham and Wells Reservoir, is the 2nd day of September, 1897, and the quantity of water claimed by and under such construction is nine hundred and fifty-seven and three-tenths (957.3) acre-feet. The second appropriation is dated the 21st day of November, 1911, and the quantity of water claimed is four hundred and eighty-nine and one-tenth (489.1) acre-feet.

The date of appropriation of water by this reconstruction and enlargement is June 1, 1937. The quantity of water claimed by and under said reconstruction and enlargement by the United States is six hundred and three and six-tenths (603.6) acre-feet. The estimated cost of said enlargement and reconstruction is six hundred and fifty-three thousand ($653,000) dollars. The water stored in said reservoir will be used for domestic, municipal, industrial and power generation purposes.

(e) East Fork Feeder Canal: The name of the canal is the East Fork Feeder Canal. The headworks of said canal is located in the County of Mesa, State of Colorado, a tributary of Plateau Creek, which point is in the northwest quarter of the southwest quarter of Section Ten (10), Township eleven (11) South, Range ninety-four (94) West, 6th P. M. A second point of diversion will be at a point where said feeder canal crosses Atkinson Creek, a tributary of said Big Creek, which point is situated in the southwest quarter of southeast quarter of Section nine (9), Township eleven (11) South, Range ninety-four (94) West, 6th P. M. The general course and description of said canal are as follows:

Beginning at the headgate herein above described, the canal runs in a southwesterly direction a distance of approximately one and four-tenths (1.4) miles. The bottom width of the canal is about four (4) feet, and width at the water surface is about nine and eight-tenths (9.8) feet. The depth of said canal is about one and nine-tenths (1.9) feet, and the grade is about five and three-tenths (5.3) feet per mile.

The date of appropriation of water by initial work by the United States is June 1, 1937. The quantity of water claimed for direct diversion from East Fork of Big Creek by and under said construction is thirty (30) cubic feet of water per second, which will be used for municipal, domestic, industrial and power generation purposes. At such times that thirty (30) cubic feet of water per second cannot be drawn from East Fork of Big Creek, releases from the existing Atkinson Reservoir will be carried by said feeder canal to Bonham Reservoir.

(f) Bonham Branch Pipe Line: The name of the pipe line is Bonham Branch of the Mesa Pipe Line. The proposed headgate of said pipe line will be located in the County of Mesa, State of Colorado, more particularly described as follows:

The proposed beginning of said pipe line will be at a point at the outlet works on the dam of Bonham Reservoir, from which reservoir it derives its supply of water. Said point lies in the northwest quarter of the southwest quarter (NW¼SW¼) of Section nine (9), Township eleven (11) South, Range Ninety-four (94) West, 6th P. M. The diameter of said pipe line will be about thirty (30) inches. The carrying capacity of said pipe is twenty-seven (27) cubic feet of water per second, for which claim is hereby made for domestic, municipal, industrial, and power generation purposes. The date of appropriation by original survey is the 1st day of June 1937.

(g) Cottonwood Branch of Mesa Pipe Line: The name of the pipe line is the Cottonwood Branch of the Mesa Pipe Line. The headworks of said pipe line are located as follows:

The Cottonwood No. 1 Diversion is in the County of Mesa, State of Colorado, at the outlet works of the existing Cottonwood Reservoir No. 1 on the East Bank of Cottonwood Creek, a tributary of Plateau Creek, from which said pipe line will draw part of its supply of water, at a point situated in the Southeast quarter of Section twenty-three (23), Township eleven (11) South, Range ninety-five (95) West, 6th P. M. The Cottonwood No. 4 - Kitson Intake is in the County of Mesa, State of Colorado, on the North bank of the natural stream below Cottonwood

arising or resulting from the diversion and use of water on the Collbran Project, and the claimant asserts and claims the right to capture, recapture, use and reuse all of said water, and to collect, store, convey, transport and carry said water in natural channels across arroyas, gulches, ravines, depressions and in artificial channels, including irrigation and drainage ditches and canals in which said water may arise or accumulate. Said water shall be conveyed and applied to beneficial use in the Collbran Project water system and may be exchanged or transferred as necessities may require.

WHEREFORE, the claimant prays for a decree adjudging it to be the owner of the rights to the use of water hereinabove described, with a priority of June 1, 1937, and that said decree, if conditional when made, may be conditioned upon final completion of the above described works and the application of water to beneficial use, and that after the completion of said works and the application of water to beneficial use that said decree may be absolute, as provided by the laws of Colorado.

Claimant further prays for all further and proper relief.

DATED at _____ this _____ day of _____, 1952.

UNITED STATES OF AMERICA

By_____
Special Assistant to
The Attorney General

STATE OF COLORADO)
) ss
CITY AND COUNTY OF DENVER)

C. V. Marmaduke, Jr., being first duly sworn on his oath, deposes and says: He is Special Assistant to the Attorney General of the United States of America; that he has read the foregoing Statement of Claim of the United States, and that the matters and things stated therein are true to the best of his knowledge and belief; that he makes this oath on behalf of the United States and the Bureau of Reclamation, Department of the Interior.

_____

Subscribed and sworn to before me this __ day of _____, 1952.

_____
Notary Public

(SEAL)

My Commission Expires:

Reservoir No. 4 and Kitson Reservoir, a tributary of Cottonwood Creek, a tributary of Plateau Creek, from which said pipe line will draw part of its supply of water, at a point in the southwest quarter of Section twenty-four (24), Township eleven (11) South, Range ninety-five (95) West, 6th P. M. The Cottonwood No. 5 -- Neversweat Intake, is in the County of Mesa, State of Colorado, on the north bank of the natural stream below Cottonwood Reservoir No. 5, a tributary of Cottonwood Creek, a tributary of Plateau Creek, from which said pipe line will draw part of its supply of water, at a point in the northwest quarter of Section twenty-four (24), Township eleven (11) South, Range Ninety-five (95) West, 6th P. M. The general course and description of said pipe line is as follows:

It begins at the point herein above described, as the Cottonwood No. 1 Diversion and runs in a northerly direction where it is joined by the pipe lines from said Cottonwood No. 4 - Kitson and Cottonwood No. 5 - Neversweat Intake. Thence it runs in a northerly direction until it joins the Bonham Branch of the Mesa Pipe Line. The diameter of the pipe from said Cottonwood No. 1 Diversion is twenty-four (24) inches. The diameter of the pipes from said Cottonwood No. 4 - Kitson and Cottonwood No. 5 - Neversweat Intake is eighteen (18) inches. The combined length of said pipe lines is about four and eight-tenths (4.8) miles.

The date of appropriation of water by construction proposed by the United States is June 1, 1937. The quantity of water claimed by and under said construction is sixteen (16) cubic feet of water per second, which will be used for domestic, municipal, industrial, and power generation purposes.

An emergency diversion structure will be constructed on the east bank of Cottonwood Creek at a point in the northwest quarter of the southwest quarter of Section Thirty-three (33), Township Ten (10) South, Range Ninety-five (95) west. This diversion point will be used only when the pipe line above is not in operation. No additional appropriation to the said sixteen (16) cubic feet of water per second herein above discussed will be required for this diversion point.

7. The appropriation of water made by the claimant includes spring, surface, waste, percolating, run-off, drainage, seepage, and developed water

COPY

Dec. 1, 1952

Air Mail

Memorandum

To: Regional Director, Region Three

From: Chief of Lands

Subject: Water Rights--Colorado National Monument

By letter of March 21 to the Attorney General, with copies to you, Mr. Wirth submitted a print of filing NM-COLO-6975 in connection with the pending adjudication in Water District No. 42-Civil Action No. 8303. Copies were sent to you and the Superintendent of Mesa Verde.

The Department has now decided to request that its claim for the Bureau of Reclamation, Bureau of Land Management, and National Park Service, be presented, and Reclamation has been delegated to prepare the request to the Department of Justice, and to define the claims.

We have just presented a copy of the drawing to Milton Q. Romney, attorney of the Bureau, for that purpose, but do not know whether the water system has been completed; or whether constructed as planned, if completed. Please supply us, by teletype, of status of construction, differences between water right plans and final design, and maximum campground attendance and ranger population as measure of water use.

/s/ Charles A. Richey
Chief of Lands

In duplicate

Copy to: Mr. Milton Q. Romney, Bureau of Reclamation

Mr. Dunn

AvanVDunn:hh

06-27-1946: memorandum, by letter of march 21 to the attorney general, with copies to you

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION THREE
SANTA FE, NEW MEXICO

June 27, 1946

MEMORANDUM for the Director.

Reference is made to your memorandum of December 6, 1944, relative to the project U-7-1 of the Project Construction Program for Colorado National Monument.

Superintendent Rose advises us that the figure of 153 feet used on the water right filing refers to the lift from the well to the storage tank and does not conflict with the well depth of 600 feet.

He further states that the drawing No. COLO-5323 provides for a storage tank of 5,000 to 5,500 gallons, while the water right filing No. 17082 on drawing COLO-6975 shows a 5,000 gallons storage tank. It does not seem necessary to change the figures on any record since the tank capacity was estimated to be between 5,500 and 5,000 when recommended.

In view of the above, do you still consider it advisable to revise the PCP proposal?

/s/ E. T. Scoyen

Associate Regional Director

04-15-1942: memorandum, there are enclosed two prints of drawing nm-colo-6975; april 15, 1942

COPY

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

April 15, 1942

MEMORANDUM for the Superintendent,
Mesa Verde National Park:

There are enclosed two prints of drawing NM-COLO-6975, No Thoroughfare Pipe Line, Colorado National Monument, as filed and accepted by the State Engineer with file number 17082. The second print is intended for the Custodian of the monument in accordance with your recent request, and we can supply additional prints as you may request them.

This puts us on the list for appearance in the next adjudication in the Water District, but we probably would not be advised at this date of any notice of adjudication which may have been called in the last six months. It might therefore be well to determine from the District Court, which I assume is at Grand Junction, whether any adjudication is in progress which has not advanced so far but what we could still introduce our claim.

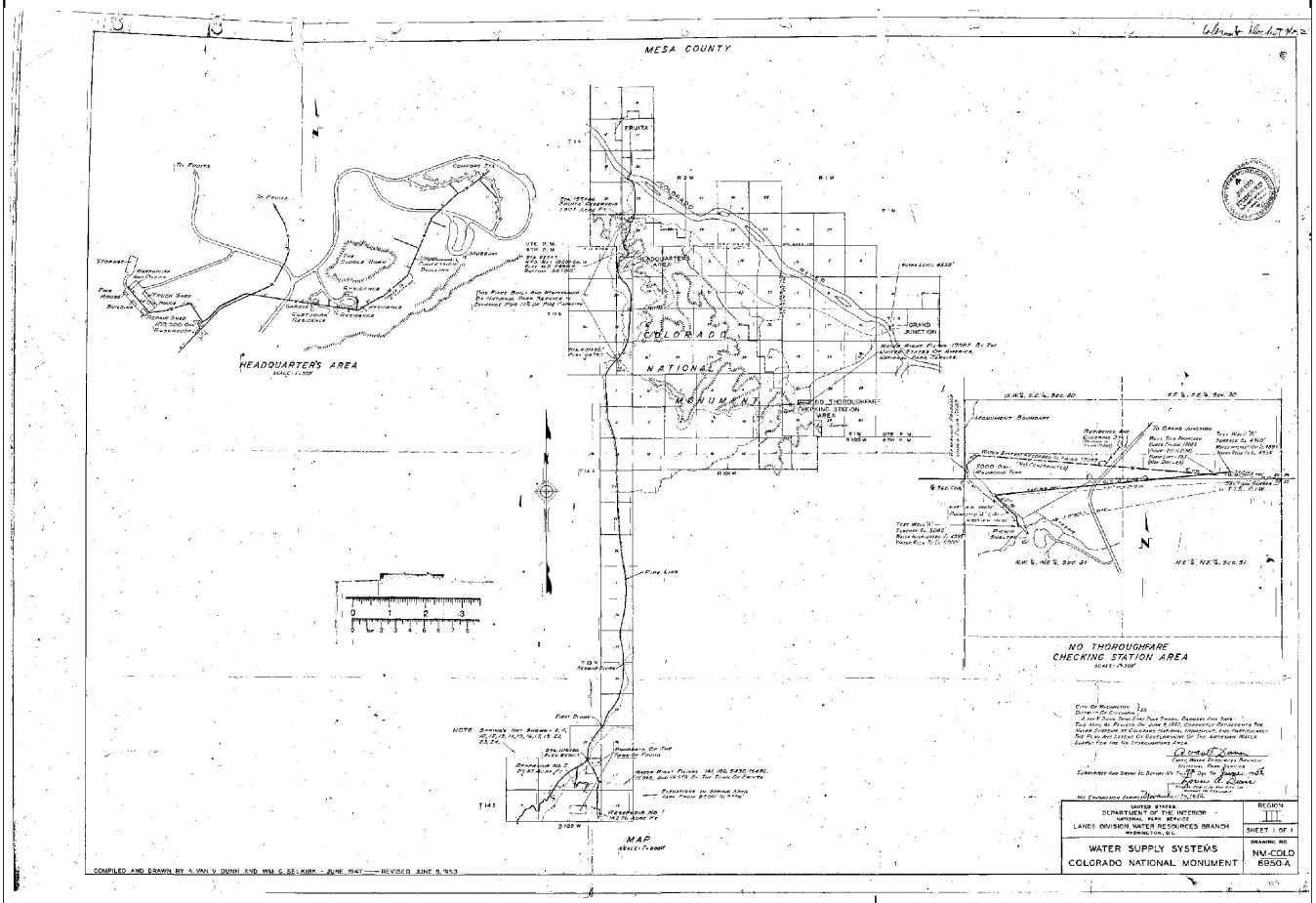
/s/ A van V. Dunn
Hydraulic Engineer

Enclosure 2121954.

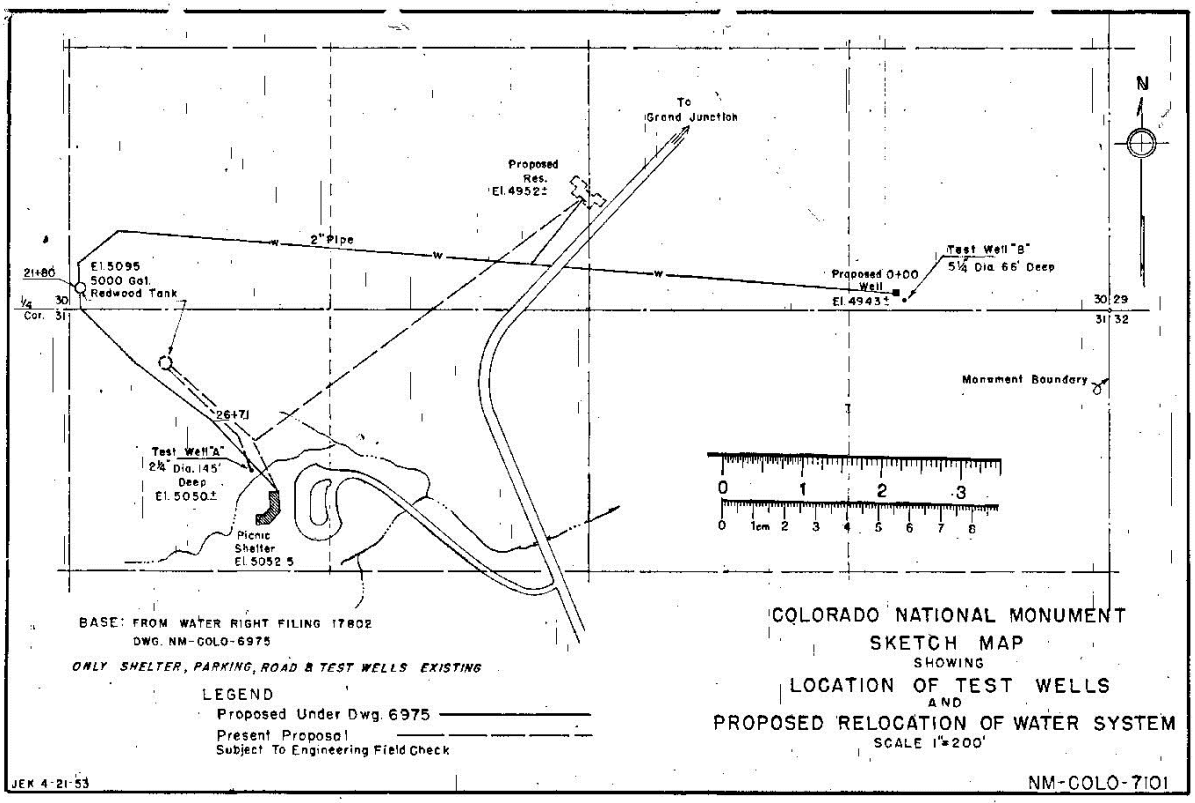
cc: Director, with 1 print.
Region Three, with 1 print.
Custodian, Colo. Nat. Mon., with 1 print,
(through Supt. McLaughlin).

Maps and Miscellaneous Information

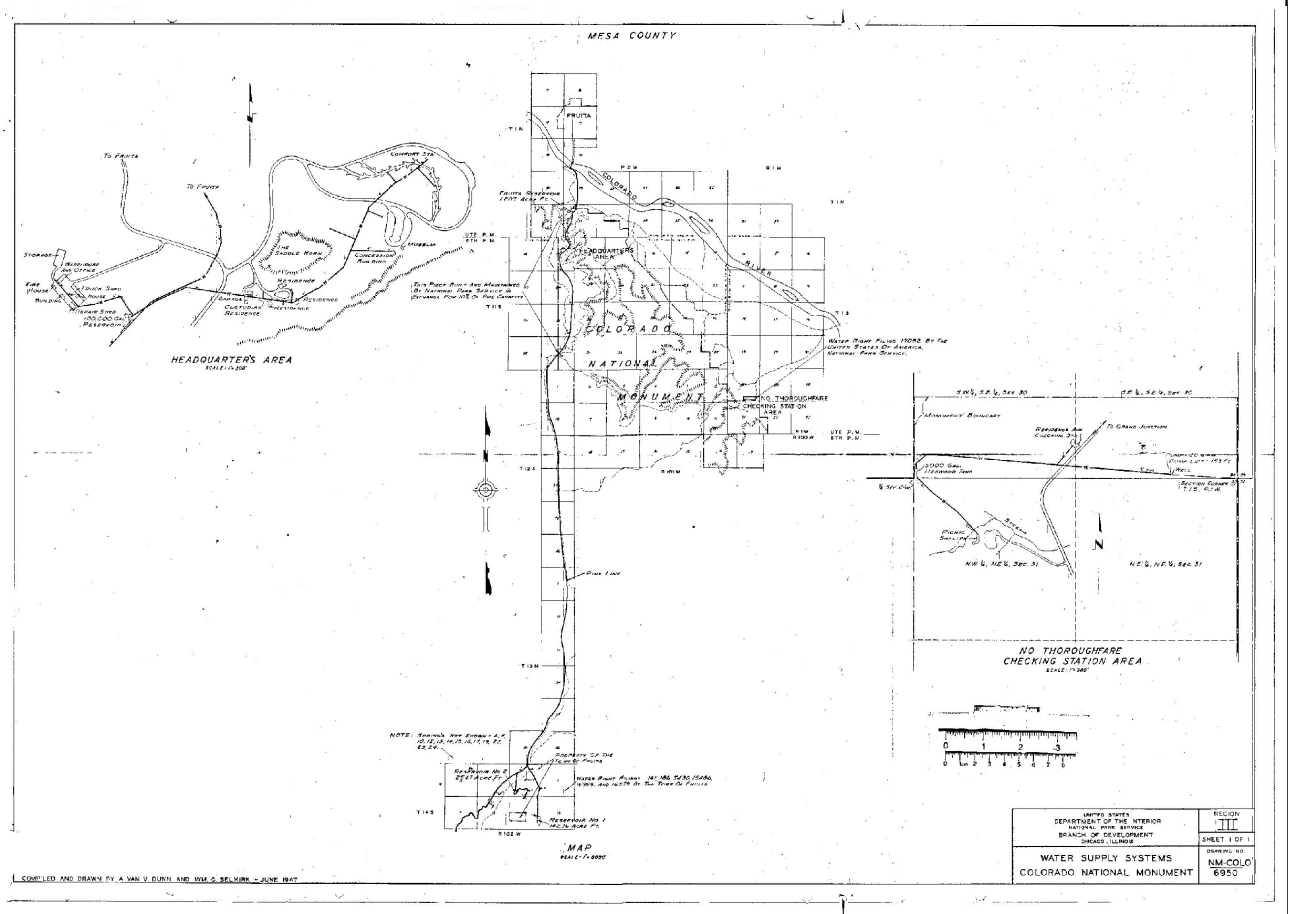
06-00-1947: map of water supply systems



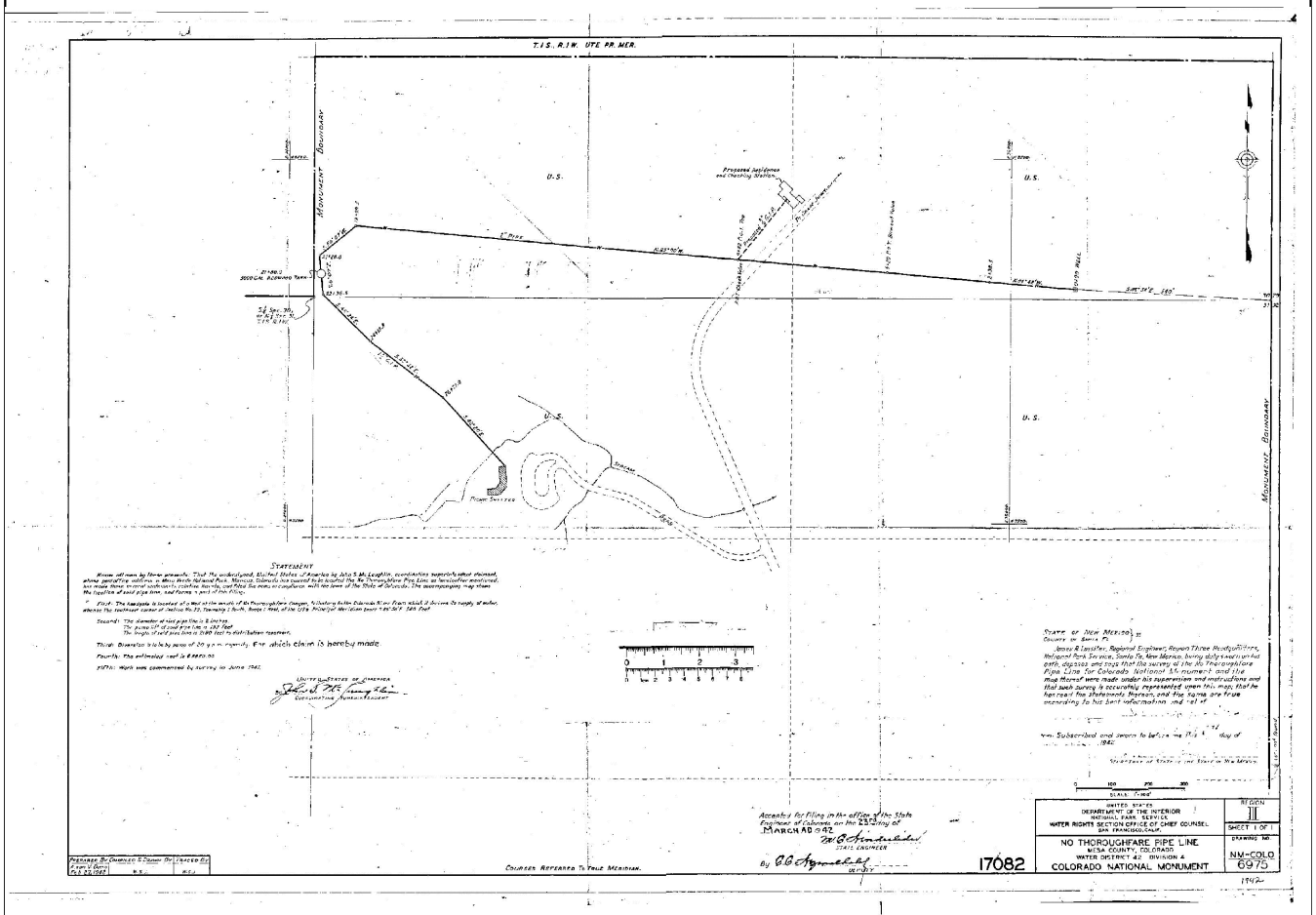
06-00-1947: sketch map showing location of test wells proposed relocation of water system



06-00-1947: map of water supply systems



06-00-1947: map of no thoroughfare pipeline



Docket Information

Number of Documents in Docket 229

Documents Dated from 3/23/1942 to 11/20/1995

Docket Compiled: 6/14/2016