



WATER-RIGHT DOCKET

Rocky Mountain National Park

Docket No: 63

MCGRAW RANCH (INDIANHEAD) 3 WELLS

Preliminary Docket Information

02-26-1999: narrative of well information

Case # W-2001

This file contains info on
3 different wells.

Well Permit
~~Water Right~~ # 27530 is
for 2 different wells located
immediately north of the ranch
buildings, in Section 6.
This is NPS property now. Water
right was mentioned in the
Xfer documents.

Case # 8400261

Well Permit
~~Water Right~~ # 35299 is for
a well in Section 5.
This is outside the park.
Never was an NPS water
right.

Larry Martin
2-26-99



United States Department of the Interior

NATIONAL PARK SERVICE

ROCKY MOUNTAIN REGIONAL OFFICE

12795 W. Alameda Parkway

P.O. Box 25287

Denver, Colorado 80225-0287



IN REPLY REFER TO:

L1425 (RMR-ML)
ROMO Tr. 06-121

October 14, 1988

Memorandum

To: Chief, Water Rights Branch, Water Resources Division
ATTENTION: Ken Czarnowski

From: Chief, Land Resources Division, Rocky Mountain Region

Subject: Indian Head Ranch, Rocky Mountain National Park

Enclosed, per our discussion, are copies of the well permits for the subject property. I did not retain copies.

Also enclosed is part of the deed which will be used to transfer the ranch to the United States and a copy of the conveyance into Mrs. Katona. Note that our wording on the conveyance of water is almost identical to that in her deed. She may not be willing to convey the water any more specifically than it was conveyed to her . . . I wouldn't, especially since she is warranting title.

Enclosures

GENERAL WARRANTY DEED

ROCKY MOUNTAIN NATIONAL PARK
Tract 06-121

This deed, made this _____ day of _____,
1988, between MARY CATHERINE KATONA, a single woman, hereinafter
referred to as the Grantors, and the United States of America,
hereinafter referred to as the Grantee, whose address is: U.S.
Department of the Interior, National Park Service, 12795 West Alameda
Parkway, P.O. Box 25287, Denver, Colorado 80225.

WITNESSETH:

That in consideration of the sum of EIGHT HUNDRED SIXTY THOUSAND and
NO/100 (\$860,000.00) Dollars, the receipt and sufficiency of which is
hereby acknowledged, the said Grantors do hereby grant, bargain, sell
and convey unto the Grantee and its assigns, all of that certain tract
or parcel of land lying and situate in the County of Larimer, State of
Colorado, together with all of the improvements thereon, with all its
appurtenances and warrant the title to the same, being more
particularly described as follows:

Township 5 North, Range 72 West, 6th P.M., Section 6,
NW1/4 SW1/4 (Lot 6), SW1/4 NW1/4 (Lot 5), SE1/4 NW1/4,
SW1/4 NE1/4, SE1/4 NE1/4, N1/2 NW1/4 SE1/4, containing
220.00 acres, more or less.

Together with all the Grantors' right, title and interest in and to any
and all water rights and interests in water running with, attaching to,
or otherwise appurtenant to the foregoing described land, including,
but not limited to, well permit No. 27530.

REF ID: A66522

COUNT - 11

STATE OF CALIFORNIA

This Deed Made this 30th day of September 1982

between Suzanne K. Mittie

County of Larimer and State of Colorado, in the first part, and

County of Larimer
Mary Catherine Katona
whose legal address is P.O. Box 2260, Estes Park, Co. 80517

of the County of Larimer and State of Colorado of the second part

WITNESSETH, That the said party of the first part, for and in consideration of ten dollars (\$10) and other good and valuable consideration

other good and valuable consideration
to the said party of the first part in hand paid by said party of the second part the receipt whereof is
herely confessed and acknowledged, a \$ granted, bargained, sold and conveyed, and by these presents does
grant, bargain, sell, convey and confirm unto the said party of the second part, her heirs and assigns for
ever, all the following described in \$ or parcel \$ of a (state) being and being in the
County of Larimer and State of Colorado, to-wit:

NW 1/4 of the SW 1/4, the SW 1/4 of the NW 1/4, the SE 1/4 of the NW 1/4, the SW 1/4 of the NE 1/4, the SE 1/4 of the NE 1/4, and the N 1/2 of the NW 1/4 of the SE 1/4, all in Section 6, Township 5 N, Range 72 W of the 6th P.M., Larimer County, Colorado, together with all water rights appurtenant thereto, including specifically those water rights included in Well Permit 27530).

also known as street and number Indian Head Ranch

TOGETHER with all and singular the hereinafore and aboveintertained tenets, becomings or things were agreed, taking and the reversion and reversion, remainder and remainders, rents, issues and profits thereof, and all the estate, right, title, interest, claim and demand whatsoever of the said party ^{of the first part} against the said party ^{of the second part} in and to the above bargained premises, with the hereinafore and aboveintertained

equity of mind to the above bargained premises, with the foregoing intent and contemplation of death, to HAVE and to hold the said premises above bargained and described to the above parties, of the said party of the second part, her heirs and assigns forever. And the said party y of the first part for her self heirs, executors, and administrators, does covenant grant bargain and agree to and with the said party y of the second part her heirs and assigns, that at the time of the execution and delivery of these presents, well seized of the premises above conveyed, as of good, sure, perfect, absolute and

of these presents, well seized of the premises above rehearsed, as of good, law, perfect estate of a good right estate of inheritance in law, in fee simple and has a good right, full power and authority to grant, bargain, sell and convey the same in a manner and form as aforesaid and that the same are free and clear from all former and other grants, bargains, sales, liens, taxes, assessments and all other charges of whatever kind of nature whatsoever.

See attached Schedule "A" for additional provisions of this deed.

and the above bargained premises of the first part shall be a full possession of the said party of the second part her heirs and assigns against all and every person or persons lawfully claiming or to claim the whole or any part thereof, the said party of the first part shall and lawfully shall WARRANT AND FOREVER DEFEND

IN WITNESS WHEREOF the said part y of the first part has hereunto set her hand and seal the day and year first above written

Suzanne K. Mittle

STATE OF COLORADO

CHERRY LARIMER

The foregoing instrument was acknowledged before me on 30th day of September

by Suzanne K. Mittle

Suzanne K. Little July 28

IN THE MATTER OF THE APPLICATION FOR
WATER RIGHTS OF

J. J. McGREW ESTATE

30 Larimer County

THIS CLAIM, having been filed with the Larimer County Clerk on
May 26, 1972 and the Referee being duly advised in the
premises, does hereby find:

All notices required by law of the filing of this application have
been fulfilled, and the Referee has Jurisdiction of this application.

No statement of opposition to said application has been filed, and
the time for filing such statement has expired.

All matters contained in the application having been reviewed, and
testimony having been taken where such testimony is necessary, and such
corrections made as are indicated by the evidence presented herein,

IT IS HEREBY DECREED:

1. The name and address of the claimant:
J. J. McGrew Estate
Frank McGrew
Box 990
Estes Park, Colorado 80517
2. The name of the structures to which a right is hereby Decreed:

Well No. 1-2753041
Well No. 2-2753042
3. The legal description of the structures:

Well No. 1-2753041 is located North 79°07' East, 2657 feet,
from the NW Corner of Section 6, Township 5 North, Range
72 West of the 6th P.M., Larimer County, Colorado.

Well No. 2-2753042 is located North 77°20' East, 2776 feet
from the NW Corner of Section 6, Township 5 North, Range
72 West of the 6th P.M., Larimer County, Colorado.

DATE

No p
The
and
Judge
Date

7. The use of the motor, hull No. 3-2722061 and hull No. 3-2722062, domestic.

DATED this 24th day of July, 1979.

Thomas J. Aray, Jr.
Thomas J. Aray, Jr., Water Engineer
Water Division 1, State of Colorado

No protest was filed in this matter.
The foregoing Ruling is confirmed
and approved, and is made the
Judgment and Decree of this Court.

Dated: August 14, 1979

Raymond P. Casper
Water Judge

RECEIVED

NOV 07 1986

CLERK OF DISTRICT COURTS
STATE ENGINEER
COLORADO

WATER DIVISION NO. 1
STATE OF COLORADO

November 6, 1986

TO: Richard S. Gast, Esq.

110 East Oak Street

Fort Collins, CO 80524

St/Div *w/84CW 346*

The Water Court Referee for Division No. 1 has instructed me to forward this copy of his Ruling in Case No. 84CW261.

Please check your Ruling very CAREFULLY! If any errors are found, notify the Water Clerk's Office IMMEDIATELY.

You have within twenty (20) days after the above date of mailing to file with the Water Clerk any pleading in protest to or in support of the Referee's Ruling. Any such pleading to the Referee's Ruling must be filed on or before November 26, 1986, plus any additional time allowed by Rule 6(e) CRCP. In the absence of any pleading being received, the Judge of the Water Court will incorporate the Referee's Ruling in the Decree which will be entered after November 26, 1986.

Marcie E. Spelts

Marcie E. Spelts
Water Clerk, Water Division No. 1
POB "C"
Greeley, CO 80632
(303) 356-4000, ext. 4550

NOV 07 1986

DISTRICT COURT, WATER DIVISION NO. 1, COLORADO

DIV OF WATER RESOURCES
STATE ENGINEER
COLORADO

Case No. 84CW261

FINDINGS AND RULING OF THE REFEREE AND DECREE OF THE WATER COURT

IN THE MATTER OF THE APPLICATION FOR WATER RIGHTS OF RUTH MCGRAW, IN
LARIMER COUNTY

THIS CLAIM, having been filed with the Water Clerk, Water Division 1, on September 14, 1984 and the Referee being fully advised in the premises, does hereby find:

All notices required by law of the filing of this application have been fulfilled, and the Referee has jurisdiction of this application.

No statement of opposition to said application has been filed, and the time for filing such statement has expired.

All matters contained in the application having been reviewed, and testimony having been taken where such testimony is necessary, and such corrections made as are indicated by the evidence presented herein, IT IS HEREBY THE RULING OF THE WATER REFEREE:

1. The name and address of the Claimant:

Ruth McGraw
POB 990
Estes Park, CO 80517.

2. The name of the structure(s): McGraw Well No. 55299.

3. The legal description of the structure(s): SE1/4 SW1/4 Section 5, T5N, R72W of the 6th PM, Larimer County, at a point approximately 1000 feet from the South line and 2200 feet from the West line Section 5, a/k/a Amended Tract 2 McGraw Exemption.

4. The source of water: Groundwater.
5. The date of appropriation: April 4, 1972.
6. The amount of water: 0.013 cubic feet per second (6 gpm).

RECEIVED

DEC 16 1986

84CW261
McGraw
Page 2

DIV OF WATER RESOURCES
STATE ENGINEER
COLORADO

7. The use of the water: Domestic in a single family dwelling.

8. This water right, so long as uses are limited to those decreed herein, is exempt from administration by the State Engineer pursuant to CRS, 37-92-602.

Dated: *November 6, 1986*


RAYMOND S. LIESMAN
Water Referee
Water Division No. 1

THE COURT FINDS: NO PROTEST WAS FILED IN THIS MATTER.

THE FOREGOING RULING IS CONFIRMED AND APPROVED, AND IS HEREBY MADE THE JUDGMENT AND DECREE OF THIS COURT.

Dated: *DEC 5 1986*


ROBERT A. BEHRMAN
Water Judge
Water Division No. 1
State of Colorado

RICHARD D. LAMM
Governor



JERIS A. DANIELSON
State Engineer

DIVISION OF WATER RESOURCES
WATER DIVISION I

James R. Clark
Division Engineer
800 8th Ave.-Room 209- ARIX Bldg.
Greeley, Colorado 80631
(303) 352-8712

RECEIVED
JAN 10 1985
DIVISION I
WATER RESOURCES
Greeley, CO

December 20, 1984

SUMMARY OF CONSULTATION HELD DECEMBER 4, 1984

CASE NO. 84 CW 261 RUTH MCGRAW in Larimer County

SEPTEMBER 1984 RESUME

There appears to be an error in the legal description of well No. 55299 in that the distance from section line information does not agree with the quarter-quarter section.

Our information indicates this well is used only when the North End Water Company system becomes unusable due to freezing or other problems.

It is recommended that approval be granted provided the applicant submits evidence to the Court proving the actual location, details of historic use, and proof of flow rate with the method of measurement. A map or plat of these wells and homes served would be helpful to the Court.


James R. Clark
Division Engineer

xc: Jeri Danielson

DISTRICT COURT, WATER DIVISION I, COLORADO

Case No.

84CW261

FILED IN DISTRICT COURT

SEP 14 10:38

RECEIVED

OCT-24-1984

WATER RESOURCES
STATE ENGINEER
COLD1st DIST. WATER COURT
WELD COUNTY COLO.

APPLICATION FOR UNDERGROUND WATER RIGHT

CONCERNING THE APPLICATION FOR WATER RIGHTS OF:

RUTH McGRAW

CENTRAL FILES

Larimer

County

1. Name, address, telephone number(s) (residence and business) of applicant(s)

Ruth McGraw

P. O. Box 990

Estes Park, Colorado 80517

586-9916

2. Name of well and registration number (as registered in State Engineer's office, or, if a new well, the number on the permit): Permit #55299

3. Legal description of well: (include feet from Section Line, 1/4 1/4, Section, Township, Range and County)

A point in the SE 1/4 SW 1/4 of Section 5, Township 5N, Range 72W of the 6th P.M., Larimer County, which is approx. 1500 feet from the South line and 2700 feet from the West line of said section.

4. Source: Granite - Hydraulically connected to South Platte Drainage Basin

A. Depth: 280 feet

5. A. Date of appropriation: 4-4-72 (see attached permit application form)

B. Date water applied to beneficial use: 6-1-73 (see attached Statement of Beneficial Use)

C. How appropriation was initiated: Permit to construct a well.

6. Amount claimed in gpm: 6 gpm (X) Absolute () Conditional

7. Use or proposed use: Household use only

84CW261

8. Legal description and acreage of land irrigated:

The legal description of the land on which the water from well #55299 is used SE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 5, Township 5N, Range 72W of the 6th P.M., Larimer County, Colorado of which 0 acres is irrigated.

9. Applicant requests that, pursuant to the provisions of C.R.S. 37-92-602(4) (1973), they be awarded the original 1972 priority date for the above described well regardless of the fact that this application is filed in 1984.

MARCH, MYATT, KORB,
CARROL & BRANDES

Richard A. Gast
Signature of Applicant (or Attorney) Richard S. Gast
110 E. Oak St., Fort Collins, CO 805
Address of Applicant (or Attorney)

Telephone No. 303-482-4322

Attorney Registration No. 11338

STATE OF COLORADO
COUNTY OF Larimer } ss.

I, Ruth McGraw, state under oath that I have read this application, and verify its content.

Subscribed under oath before me on August 23, 1984
Applicant Ruth McGraw
date

My commission expires: 3/29/87
Notary Public Ron Hersh
date

WRJ-25-72

THIS FORM MUST BE
SUBMITTED PRIOR TO
THE EXPIRATION OF THE
PERMIT. TYPE OR
PRINT IN BLACK INK.

COLORADO DIVISION OF WATER RESOURCES

101 Columbine Bldg., 1845 Sherman St.
Denver, Colorado 80203

STATEMENT OF BENEFICIAL USE OF GROUND WATER
AMENDMENT OF EXISTING RECORD

PERMIT NUMBER 55299

STATE OF COLORADO

COUNTY OF LARIMER } SS.THE AFFIANT(S) FRANK Mc GRAWwhose address is Box 990 - ESTES PARK, COLO 80517

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 in the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 5, Township 5 N (N. or S.)

Range 12 W (E. or W.) P.M. at distances of 1500 feet from the SE S section line (North or South)

and 2700 feet from the W section line; the total depth of the well is 290 feet; water from this well

was first applied to a beneficial use for the purpose(s) described herein on the 1ST day of JUNE, 1973.

the maximum sustained pumping rate of the well is 6 gallons per minute, the pumping rate claimed hereby is 6

gallons per minute; the average annual amount of water to be diverted is 1.3 acre-feet; for which claim is hereby

made for RESIDENTIAL (1) NO GARDEN purpose(s); the legal description of the land on which the water

from this well is to be used is _____

which totals _____ acres 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.

Signature(s) Frank Mc GrawSubscribed and sworn to before me on this 14th day ofApril, 1974.My Commission expires: July 23, 1974

(Seal)

Notary Public

ACCEPTED FOR FILING IN THE OFFICE OF THE STATE ENGINEER OF

COLORADO ON THIS _____ DAY OF _____, 19____.

STATE ENGINEER

WHITE COPY FOR DIVISION OF WATER RESOURCES
PINK COPY FOR WELL OWNER

RECEIVED

APR 08 '74

WATER RESOURCES
STATE ENGINEER
COLO.

RECEIVED

APR 15 '74

WATER RESOURCES
STATE ENGINEER
COLO.

FOR OFFICE USE ONLY

Prior. Date _____, 19____

Well Use 11/4, 1/4, 1/4, Sec. _____

T. _____, R. _____, _____ P.M.

Yield _____ W.D. 1-4Co. 35

Index _____

WRJ-72-72

THIS FORM MUST BE SUBMITTED
WITHIN 60 DAYS OF COMPLETION
OF THE WORK DESCRIBED HERE-
ON. TYPE OR PRINT IN BLACK
INK.

COLORADO DIVISION OF WATER RES

RCES

101 Columbine Bldg., 1845 Sherman St.
Denver, Colorado 80203

WELL COMPLETION AND PUMP INSTALLATION REPORT

PERMIT NUMBER 55299

RECEIVED

AUG 22 '72

WATER RESOURCES
STATE ENGINEER
COLORADO

WELL OWNER Frank M. Gray SE % of the SV % of Sec. 5ADDRESS P. O. Box 990 Estes Park, Colo. T. 5 N. W, R. 72 W. 6 P.DATE COMPLETED Aug., 19 72 HOLE DIAMETER

WELL LOG

From	To	Type and Color of Material	Water Loc.
0	3	Loam	
3	61	Granite (Gray)	
61	63	Spar	Some Water
63	184	Granite (Gray)	
184	189	Quartz	More Water
189	280	Granite (Gray)	
TOTAL DEPTH <u>280</u>			

Use additional pages necessary to complete log.

6 1/2 in. from 0 to 280 ft.

_____ in. from _____ to _____ ft.

_____ in. from _____ to _____ ft.

CASING RECORD: Plain Casing

Size 6 1/2 & kind Steel from 0 to 20

Size _____ & kind _____ from _____ to _____

Size _____ & kind _____ from _____ to _____

Perforated Casing

Size _____ & kind _____ from _____ to _____

Size _____ & kind _____ from _____ to _____

Size _____ & kind _____ from _____ to _____

GROUTING RECORD

Material CementIntervals 10'Placement Method Hand

GRAVEL PACK: Size _____

Interval _____

TEST DATA

Date Tested Aug., 197 20Static Water Level Prior to Test 20Type of Test Pump BailerLength of Test 10 Hrs.Sustained Yield (Metered) 6 GPMFinal Pumping Water Level Total Drawdown

PUMP INSTALLATION REPORT

Pump Make _____

Type _____

Powered by _____ HP _____

Pump Serial No. _____

Motor Serial No. _____

Date Installed _____

Pump Intake Depth _____

Remarks _____

WELL TEST DATA WITH PERMANENT PUMP

Date Tested _____

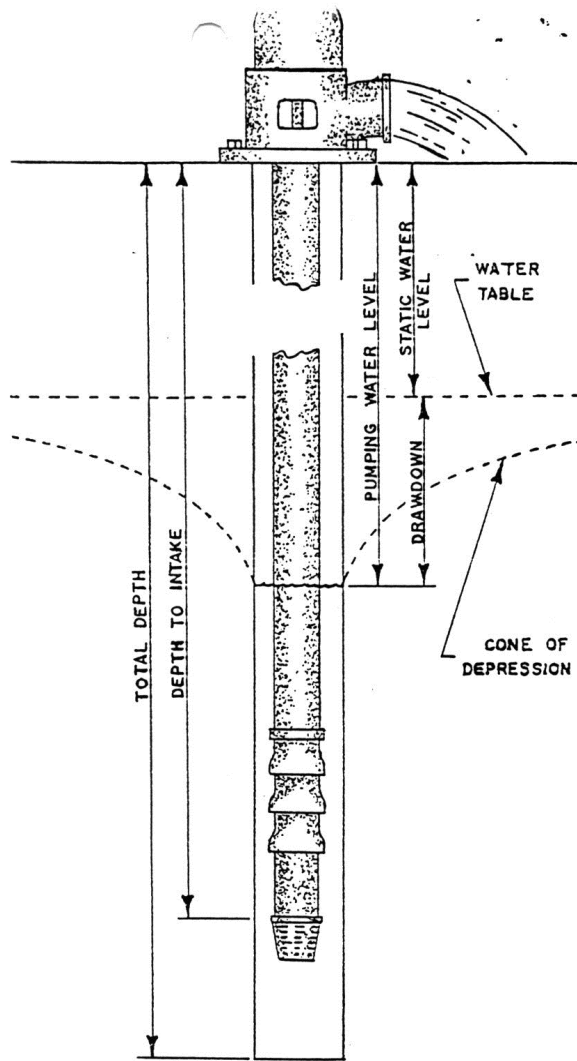
Static Water Level Prior to Test _____

Length of Test _____ Hours

Sustained yield (Metered) _____ GPM

Pumping Water Level _____

Remarks _____



CONTRACTORS STATEMENT

The undersigned, being duly sworn upon oath, deposes and says that he is the contractor of the well or pump installation described hereon; that he has read the statement made hereon; knows the content thereof, and that the same is true of his own knowledge.

Signature Ernest C. Young License No. 495State of Colorado, County of Laurel SSSubscribed and sworn to before me this 21 day of Aug, 19 72My Commission expires: My Commission expires Feb. 17, 1976Notary Public Mary Ellen Young

FORM TO BE MADE OUT IN QUADRUPLICATE: WHITE FORM must be an original copy on both sides and signed. WHITE AND GREEN copies must be filed with the State Engineer. PINK COPY is for the Owner and YELLOW COPY is for the Driller.

101 Columbine Bldg., 1845 Sherman St.
Denver, Colorado 80203

PERMIT NUMBER 55299

- JUL 10 '73

WATER RESOURCES
STATE ENGINEER
COLD

DATE COMPLETED May, 1973 HOLE DIAMETER

From	To	Type and Color of Material	Water Loc.

TOTAL DEPTH 280'

Use additional pages necessary to complete log.

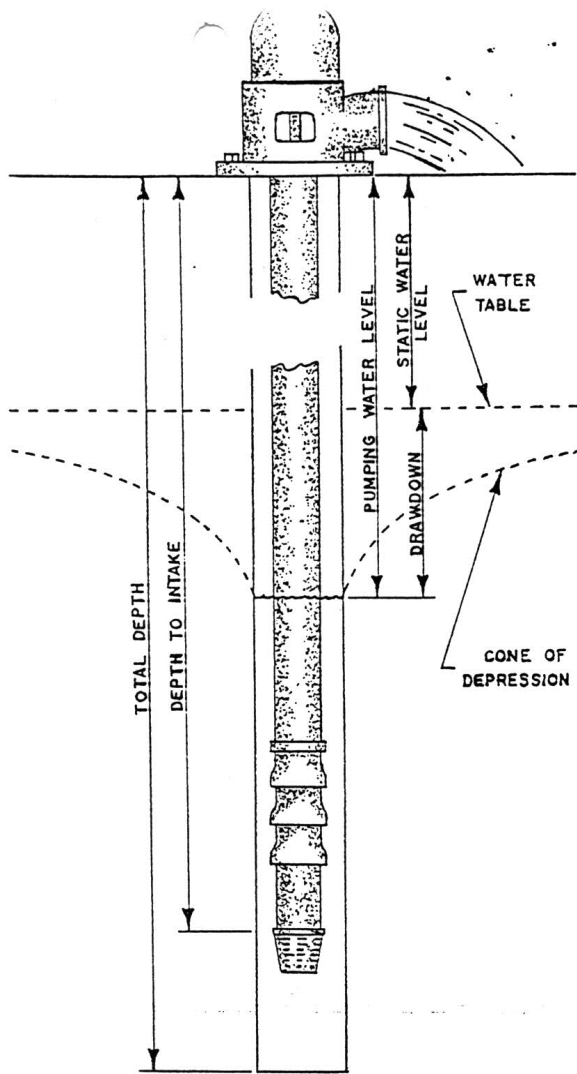
Final Pumping Water Level _____

PUMP INSTALLATION REPORT

Pump Make Sta-Rite
 Type Submersible
 Powered by Electric HP 1/2
 Pump Serial No. _____
 Motor Serial No. _____
 Date Installed May 1973
 Pump Intake Depth 280'
 Remarks _____

WELL TEST DATA WITH PERMANENT PUMP

Date Tested May 1973
 Static Water Level Prior to Test 20'
 Length of Test 2 Hours
 Sustained yield (Metered) 6 GPM
 Pumping Water Level Total Drawdown
 Remarks _____



CONTRACTORS STATEMENT

The undersigned, being duly sworn upon oath, deposes and says that he is the contractor of the well or pump installation described hereon; that he has read the statement made hereon; knows the content thereof, and that the same is true of his own knowledge.

Signature Ernest C. Young License No. 495

State of Colorado, County of Tarleton SS

Subscribed and sworn to before me this 9 day of July, 19 73.

My Commission expires Feb. 17, 1976

Notary Public Mary Ellen Young

FORM TO BE MADE OUT IN QUADRUPPLICATE: WHITE FORM must be an original copy on both sides and signed.
 WHITE AND GREEN copies must be filed with the State Engineer. PINK COPY is for the Owner and YELLOW COPY is for the Driller.

WRJ-5-71

 COLORADO DIVISION OF WATER RESOURCES
 101 mbine Bldg., 1845 Sherman Street, Denver, Colorado 80203

RECEIVED

MAR 22 '72

WATER RESOURCES
STATE ENGINEER
C.O.A.

TYPE OR PRINT IN BLACK INK. APPLICATION MUST BE COMPLETED BEFORE ACCEPTANCE.

APPLICATION FOR:

☒ A PERMIT TO USE GROUND WATER
☒ A PERMIT TO CONSTRUCT A WELL
 REPLACEMENT FOR NO. _____
☐ A PERMIT TO INSTALL A PUMP
☐ OTHER _____

GROUND WATER TO BE USED FOR:

☒ DOMESTIC (1) _____ COMMERCIAL (4)
☐ LIVESTOCK (2) _____ INDUSTRIAL (5)
☐ MUNICIPAL (8) _____ IRRIGATION (6)
☐ OTHER _____

APPLICANT FRANK MCBRAW

WELL LOCATION

COUNTY LARIMERStreet Address Box 990SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 5City & State ESTES PARK COLO-80517T. 5N, R. 72W, 6th P.Telephone No. 586-9916

NAME OF AQUIFER GROUND WATER IS TO BE OBTAINED

FROM: GRANITE

IN ADDITION TO THE ABOVE, THE WELL MUST BE
 LOCATED WITH REFERENCE TO GOVERNMENT SURVEY
 CORNERS, MONUMENTS OR SECTION LINES BY DISTANCE
 AND BEARING (DOMESTIC WELLS MAY BE LOCATED BY
 LOT, BLOCK, & SUBDIVISION.)

PROPOSED TOTAL DEPTH OF WELL 200 Ft.

_____ ft. from _____ section 1:

ESTIMATED MAXIMUM PUMPING RATE 4 GPM

_____ ft. from _____ section 1:

AVERAGE ANNUAL AMOUNT OF GROUND WATER TO BE

LOT _____ BLOCK _____ FILING # _____

APPROPRIATED _____ Acre-feet

SUBDIVISION _____

ANTICIPATED GROUT PROGRAM

Material CEMENT

Ground Water Basin _____

Intervals 10'

Water Mgmt. Dist. _____

Placement Method Hand

Anticipated drilling date MAY 1972
 Owner of land on which well
 is located: _____

PROPOSED CASING:

Plain 6 1/2 in. from 0 ft. to 20 ft.
 _____ in. from _____ ft. to _____ ft.
 Perf. _____ in. from _____ ft. to _____ ft.
 _____ in. from _____ ft. to _____ ft.

Other water rights on this land NoneDriller Ernest C. Young No. 495Frank McBrar

Signature of Applicant

Address P.O. Box 692 Estes Park CO 80517

IF WELL IS USED FOR IRRIGATION, BACK SIDE OF THIS APPLICATION MUST BE COMPLETED.

24257

FOR OFFICE USE ONLY

CONDITIONS OF APPROVAL

APPLICATION APPROVED: VALID FOR ONE (1) YEAR
 AFTER DATE ISSUED UNLESS EXTENDED FOR GOOD
 CAUSE SHOWN TO THE ISSUING AGENCY.

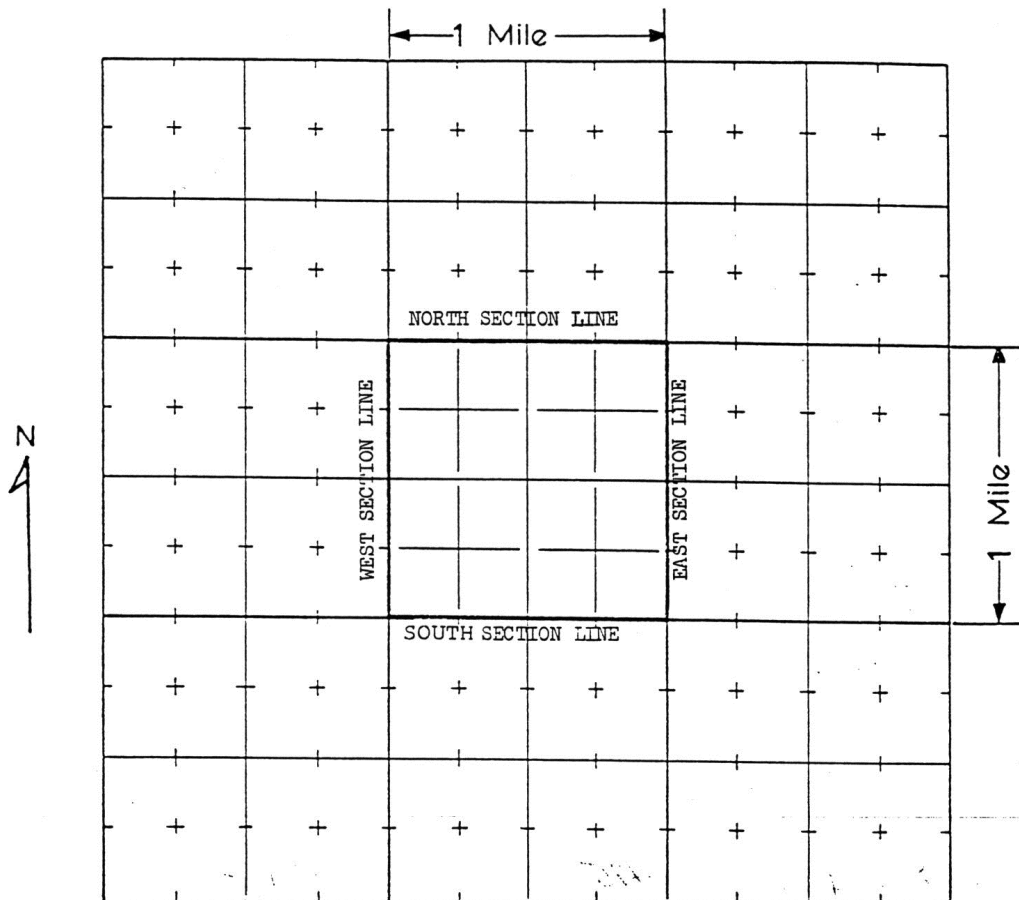
PERMIT NO. 55299DATE ISSUED APR 4 1972

STATE ENGINEER

BY Donlan H. Fisher

THE LOCATION OF THE PROPOSED WELL MUST BE SHOWN AND THE AREA TO BE IRRIGATED 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.



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

Owner of irrigated land _____ Number of acres to be irrigated _____

Legal description of irrigated land _____

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
 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.

IN THE WATER COURT IN AND FOR
WATER DIVISION I, STATE OF COLORADO

CASE NO. W-2881

IN THE MATTER OF THE APPLICATION FOR)
WATER RIGHTS OF)

J. J. MCGRAW ESTATE)

FINDINGS AND RULING
OF THE REFEREE

IN Larimer County)

THIS CLAIM, having been filed with the Water Clerk, Water Division I,
on May 25, 1972 and the Referee being fully advised in the
premises, does hereby find:

All notices required by law of the filing of this application have
been fulfilled, and the Referee has Jurisdiction of this application.

No statement of opposition to said application has been filed, and
the time for filing such statement has expired.

All matters contained in the application having been reviewed, and
testimony having been taken where such testimony is necessary, and such
corrections made as are indicated by the evidence presented herein,

IT IS HEREBY DECREED:

1. The name and address of the claimant:
J. J. McGraw Estate
Frank McGraw
Box 990
Estes Park, Colorado 80517
2. The name of the structures to which a right is hereby Decreed:

Well No. 1-27530#1
Well No. 2-27530#2

3. The legal description of the structures:

Well No. 1-27530#1 is located North 79°07' East, 2657 feet
from the W $\frac{1}{4}$ Corner of Section 6, Township 5 North, Range
72 West of the 6th P.M., Larimer County, Colorado.

Well No. 2-27530#2 is located North 77°20' East, 2776 feet
from the W $\frac{1}{4}$ Corner of Section 6, Township 5 North, Range
72 West of the 6th P.M., Larimer County, Colorado.

4. The source of water is: Groundwater

5. The date of appropriation:

Well No. 1-27530#1:	May 31, 1966
Well No. 2-27530#2:	June 30, 1966

6. The amount of water:

Well No. 1-27530#1:	0.020 cubic feet per second
Well No. 2-27530#2:	0.009 cubic feet per second

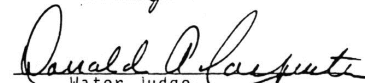
7. The use of the water: Well No. 1-27530#1 and Well No. 2-27530#2: Domestic

DATED this 24th day of July, 1973.


Thomas J. Aron, Jr., Water Referee
Water Division 1, State of Colorado

No protest was filed in this matter.
The foregoing Ruling is confirmed
and approved, and is made the
Judgment and Decree of this Court.

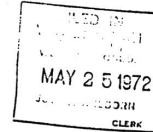
Dated: August 14, 1973


Water Judge

IN THE DISTRICT COURT
IN AND FOR WATER DIVISION NO. 1

STATE OF COLORADO

Case No. W-2881



IN THE MATTER OF THE APPLICATION
FOR WATER RIGHTS OF

J. J. McGRAW ESTATE

IN THE SOUTH PLATTE
RIVER OR ITS TRIBUTARIES

TRIBUTARY INVOLVED
Cow Creek; West Creek; Devils Gulch;
Big Thompson River; N. Fork Big
Thompson River

IN LARIMER COUNTY

APPLICATION FOR
UNDERGROUND WATER RIGHT

1. Name of applicant: Frank McGraw
Mailing address: Box 990
Estes Park, Colorado 80517
2. Legal description of location of well:
(1) N 79°07' E a distance of 2657 feet) Both from W 1/4 Cor; Sec. 6;
(2) N 77°20' E a distance of 2776 feet) T5N; R72W; 6th P.M.; Larimer
County, Colorado
3. Depth of well:
(1) 110 feet (2) 235 feet
4. Date of initiation of appropriation:
(1) May 1966 (2) June 1966
5. Amount of water claimed in cubic feet per second of time:
(1) 0.020 cfs (2) 0.009 cfs
6. Proposed use of water:
(1) Domestic (2) Domestic
7. Number of well as registered in State Engineer's office or,
if a new well, the number on the permit:
(1) P-27530 #1
(2) P-27530 #2

William C. Stover

William C. Stover
William S. Jackson
Suite 315 United Bank Building
P. O. Box 533
Fort Collins, Colorado 80521
482-3664
Attorney for Applicant

Notary Public

WR 1-25-70

Index No.	
IDWD	
Completion	
Yield	
Checked By	

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF THE STATE ENGINEER

MAP AND STATEMENT FOR WATER WELL FILING

PERMIT NUMBER 27530

2881

STATE OF COLORADO) SS

CLAIMANT (s) Frank M. Shaw
Esco Park Colo. 80517
being duly sworn upon oath deposes and says that he (they) is (are)
the owner (s) of the well described hereon; the total number of acres

of land irrigated from this well is _____;
work was commenced on this well by actual construction on the

_____ day of June 1974; the sustained
yield from said well is 1/2 gpm, for which claim is hereby made
for Domestic purpose (s);

the average annual amount to be diverted is _____
acre-feet; this map and statement 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) own
knowledge.

Signature (s) _____

Address: _____

Subscribed and sworn to before me on this _____ day

of _____, 19 _____

My Commission expires: _____
(Seal)

Notary Public

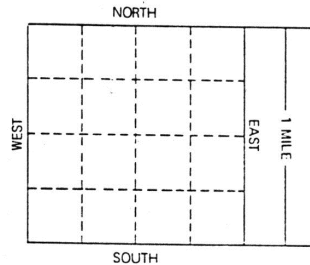
WELL DATA

Date Completed June 1976Static Water Level 15'Total Depth of Well 235'

WELL LOCATION

Larimer County
NE 1/4 of 71W 1/4, sec. 14 1/2-6
T. 5-N R. 72-W 1/2 E. S. 1/4

INDICATE WELL LOCATION ON DIAGRAM



WELL SHALL BE LOCATED WITH REFERENCE TO
GOVERNMENT SURVEY CORNERS OR MONUMENTS,
OR SECTION LINES BY DISTANCE AND BEARING.

_____ ft. from _____ section line.
(North or South)

_____ ft. from _____ section line.
(East or West)

Ground Water Basin _____

Water Management
District _____

Domestic wells may be located by the following:

LOT _____, BLOCK _____

SUBDIVISION _____

FILING # _____

ACCEPTED FOR FILING IN THE OFFICE OF THE STATE ENGINEER OF COLORADO ON THIS _____ DAY

OF _____, 19 _____

STATE ENGINEER

FORM TO BE MADE OUT IN QUADRUPLICATE: WHITE FORM must be an original copy on both sides and signed.
WHITE AND GREEN copies must be filed with the State Engineer within 30 days after the well is completed or within 7 days
after expiration date of the permit, whichever is sooner; PINK COPY is for the Owner and YELLOW COPY is for the Driller.

WELL LOG			Water Loc.
From	To	Type & Color of Material	
0'	6'	Loam	water
6'	70'	Decomposed Granite	
70'	100'	Gray Granite	
100'	200'	Telepar	
200'	235'	Fractured Quartz & Spar	
Use additional paper if necessary to complete log.			

WELL DATA

Type Drilling Table Tool

HOLE DIAMETER:

6 1/4 in. from 0 ft. to 235 ft.

_____ in. from _____ ft. to _____ ft.

_____ in. from _____ ft. to _____ ft.

CASING RECORD

Plain Casing

Size 1 1/2 kind Steel from 0 ft. to 50 ft.

Size _____ kind _____ from _____ ft. to _____ ft.

Size _____ kind _____ from _____ ft. to _____ ft.

Perforated Casing

Size 5" kind Steel from 0 ft. to 235 ft.

Size _____ kind _____ from _____ ft. to _____ ft.

Size _____ kind _____ from _____ ft. to _____ ft.

GROUTING RECORD

Material _____

Intervals _____

Placement Method _____

GRAVEL PACK RECORD

Size _____ Interval _____

TEST DATA

Date Tested June 1966

Type of Pump Proline

Length of Test 10 hrs

Sustained Yield / Metered 1/2 B.P.M.

Drawdown 7.5 ft

WELL DRILLERS STATEMENT

The undersigned, being duly sworn, deposes and says: he is the driller of the well hereon described; he has read the statement made hereon; knows the content thereof, and the same is true of his own knowledge.

X Ernest C. Young

License No. 495

State of Colorado, County of _____ ss

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

My Commission expires _____, 19____

Notary Public

STATE OF COLORADO
 APPLICATION FOR: ☒ A PERMIT TO USE GROUND WATER
☒ A PERMIT TO CONSTRUCT A WELL
☐ OTHER

2831
 JUN 2 1966
 GROUND WATER STATE
 COLORADO
 STATE ENGINEER

Application must be completed satisfactorily before acceptance

PRINT OR TYPE
 APPLICANT FRANK MCGRAW
 Street Address _____
 City & State Estes Park, Colorado
 Use of ground water Domestic
 Owner of land on which well is located FRANK MCGRAW
 Number of _____
 acres to be irrigated _____
 Legal description of _____
 irrigated land _____
 Other water rights on _____
 this land _____
 Owner of irrigated _____
 land _____
 Quifer(s) ground water is to be obtained from _____

LOCATION OF WELL
 COUNTY LARIMER
N E 1/4 & 1/4 sec. 11 & 6
 T. 5N, R. 72W, 6TH P.M.
 Ground Water Basin _____
 Water Management District _____

USE DIAGRAM ON THE BACK OF THIS SHEET TO LOCATE WELL.

Driller Edwin J. [unclear] No. 4135
 Driller's Address Edwin J. [unclear] [unclear] [unclear]
 Signature of Applicant [Signature]

CONDITIONS OF APPROVAL

ESTIMATED WELL DATA
 1. quantity of ground water to be claimed:
 Est. Max. Yield 20 GPM or CFS
 Est. average annual amount to be used in acre-feet _____
 Storage capacity _____ AF
 Anticipated start of drilling May 19 1966
 Hole Diameter:
 _____ in. from _____ ft. to _____ ft.
 _____ in. from _____ ft. to _____ ft.
 casing:
 Plain _____ in. from _____ ft. to _____ ft.
 _____ in. from _____ ft. to _____ ft.
 Perf. _____ in. from _____ ft. to _____ ft.
 _____ in. from _____ ft. to _____ ft.

PUMP DATA:
 Type Submersible HP 1/2 Outlet Size 1"

This application approved
 PERMIT NUMBER 27530
 DATE ISSUED JUN 2 1966
[Signature]
 State Engineer
[Signature]
 by _____

This application approved
 CONDITIONAL PERMIT NO. _____
 (Permit good for one (1) year after date of issuance)
 DATE ISSUED _____

 Chairman Ground Water Commission
 by _____

(OVER)

M... BITTINGER & ASSOCIATES, INC.

ENGINEER'S FIELD SURVEY & AFFIDAVIT

2881

Date: 15 Oct. 1971

Name of Applicant: J.J. McGEAR ESTATE Name as Registered FRANK McGEAR

Mailing Address: Box 990 Registration or Permit No. 27530 #1

ESTES PARK, COLO. 80517 Owner's Well No. or Name #1

This well is not part of a system. Other wells in this system are

Description: Well Bears N 79° 07' E A DISTANCE OF 2,657 FT.

From WEST 1/4 COR.; SEC. 6; T. 5 N.; R. 72 W.; 6th PM, LARIMER CO.

Classification DOMESTIC

Land Acreage

	As Measured	As Registered
Date:	15 OCT 1971	JUNE 1966
Top of Well to Static Water Level	— Ft.	63' Ft.
Top of Well to Water (Pumping Head) Level While Pumping	— Ft.	— Ft.
Total Depth	— Ft.	110' Ft.
Static Head	— Ft.	— Ft.
Discharge Pressure	— Psi.	— Psi.
Type Pump	STA-BITE SUB.	SUBMERSIBLE
Outlet Size	1" In.	1" In.
Length of Pipe	— Ft.	— Ft.
Type of Pipe	PLASTIC	—
Type Motor	—	1/3
Rated Horsepower	1/3 Hp.	— Hp.
R.P.M.	3480 R.P.M.	— R.P.M.
Disc. Revolutions	—	—
Time	UNABLE TO MEASURE	—
K _h	—	—

I. W. BITTINGER & ASSOCIATES, INC.

2381

Yield by: (1) Registration 20 gpm = .045 cfs
 (2) Direct Measurement NOT MEASURABLE
 (3) Calculations 9 gpm .020 cfs

Remarks:

THIS WELL WILL PRODUCE .045 cfs.
 THE PUMP WILL PRODUCE .020 cfs

VERIFICATION

STATE OF COLORADO)
) SS
 COUNTY OF LARIMER)

The undersigned, Mack N. Adams, being a duly registered professional engineer in the State of Colorado and holding License No. 7289, being duly sworn upon oath, deposes and says that on or about the 15th day of October, 1971, he did, at the request and invitation of the above-named land owner, go on the premises owned by the applicant and did check the location of the well and secure to the best of his ability as to the depth of the well, the date of initiation or appropriation, the amount of water claimed in cubic feet per second of time, purpose for which the water is used, and the number of the well registered in the State Engineer's Office or did obtain the same by an independent investigation from the public records of the office of the State Engineer and from the investigation knows of his knowledge that the facts and data as contained herein has the same existed on the date and year first above written.

Subscribed and sworn to before me this 3rd day of May,
 1972.

My commission expires:

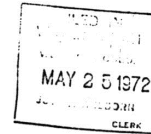
April 14, 1975

Notary Public

IN THE DISTRICT COURT
IN AND FOR WATER DIVISION NO. 1

STATE OF COLORADO

Case No. W-2881



IN THE MATTER OF THE APPLICATION
FOR WATER RIGHTS OF

J. J. McGRAW ESTATE

IN THE SOUTH PLATTE
RIVER OR ITS TRIBUTARIES

TRIBUTARY INVOLVED
Cow Creek; West Creek; Devils Gulch;
Big Thompson River; N. Fork Big
Thompson River

IN LARIMER COUNTY

APPLICATION FOR
UNDERGROUND WATER RIGHT

1. Name of applicant: Frank McGraw
Mailing address: Box 990
Estes Park, Colorado 80517
2. Legal description of location of well:
(1) N 79°07' E a distance of 2657 feet) Both from W ¼ Cor; Sec. 6;
(2) N 77°20' E a distance of 2776 feet) T5N; R72W; 6th P.M.; Larimer
County, Colorado
3. Depth of well:
(1) 110 feet (2) 235 feet
4. Date of initiation of appropriation:
(1) May 1966 (2) June 1966
5. Amount of water claimed in cubic feet per second of time:
(1) 0.020 cfs (2) 0.009 cfs
6. Proposed use of water:
(1) Domestic (2) Domestic
7. Number of well as registered in State Engineer's office or,
if a new well, the number on the permit:
(1) P-27530 #1
(2) P-27530 #2

William C. Stover
William C. Stover
William S. Jackson
Suite 315 United Bank Building
P. O. Box 533
Fort Collins, Colorado 80521
482-3664
Attorney for Applicant

STATE OF COLORADO)
) ss.
COUNTY OF LARIMER)

Frank McGraw , being first duly
sworn upon oath, deposes and says that he has read the foregoing
motion, knows the contents thereof and that the same is true.

Frank McGraw

Subscribed and sworn to before me this 18th day of

May, 1972.

My commission expires My Commission expires August 19, 1973

Seal

Raymond
Notary Public

IN THE WATER COURT IN AND FOR
WATER DIVISION I, STATE OF COLORADO

CASE NO. W-2881

IN THE MATTER OF THE APPLICATION FOR
WATER RIGHTS OF

J. J. MCGRAW ESTATE

FINDINGS AND RULING
OF THE REFEREE

IN Larimer County

THIS CLAIM, having been filed with the Water Clerk, Water Division I,
on May 25, 1972 and the Referee being fully advised in the
premises, does hereby find:

All notices required by law of the filing of this application have
been fulfilled, and the Referee has Jurisdiction of this application.

No statement of opposition to said application has been filed, and
the time for filing such statement has expired.

All matters contained in the application having been reviewed, and
testimony having been taken where such testimony is necessary, and such
corrections made as are indicated by the evidence presented herein,

IT IS HEREBY DECREED:

1. The name and address of the claimant:
J. J. McGraw Estate
Frank McGraw
Box 990
Estes Park, Colorado 80517
2. The name of the structures to which a right is hereby Decreed:

Well No. 1-27530#1
Well No. 2-27530#2

3. The legal description of the structures:

Well No. 1-27530#1 is located North 79°07' East, 2657 feet
from the W $\frac{1}{4}$ Corner of Section 6, Township 5 North, Range
72 West of the 6th P.M., Larimer County, Colorado.

Well No. 2-27530#2 is located North 77°20' East, 2776 feet
from the W $\frac{1}{4}$ Corner of Section 6, Township 5 North, Range
72 West of the 6th P.M., Larimer County, Colorado.

4. The source of water is: Groundwater

5. The date of appropriation:

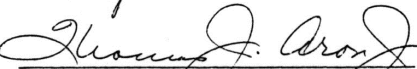
Well No. 1-27530#1:	May 31, 1966
Well No. 2-27530#2:	June 30, 1966

6. The amount of water:

Well No. 1-27530#1:	0.020 cubic feet per second
Well No. 2-27530#2:	0.009 cubic feet per second

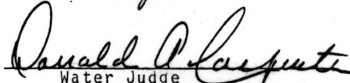
7. The use of the water: Well No. 1-27530#1 and Well No. 2-27530#2: Domestic

DATED this 24th day of July, 1973.


Thomas J. Aron, Jr., Water Referee
Water Division 1, State of Colorado

No protest was filed in this matter.
The foregoing Ruling is confirmed
and approved, and is made the
Judgment and Decree of this Court.

Dated: August 14, 1973


Water Judge

AUG 23 1967

WRJ-25-56
20 M-4S

Index No. 435
 IDWD 1-4
 Use 1
 Registered 1-3-67

STATE OF COLORADO
 DIVISION OF WATER RESOURCES
 OFFICE OF THE STATE ENGINEER

MAP AND STATEMENT FOR WATER WELL FILING

PERMIT NUMBER 27530

RECEIVED
 DEC 6 1966
 GROUND WATER SECT.
 COLORADO
 STATE ENGINEER

Know all men by these presents: That the undersigned MR FRANK McPHEE
 claimant(s), whose address is _____, City Fort Puel, Colorado
 states: Claimant(s) is (are) the owner(s) of well No. _____ located as shown on the map below; the
 total number of acres of land owned by him (them) to be irrigated from this well is _____; work
 was commenced on this well by actual construction 15th day of MAY, 1966; the
 tested capacity of said well is 4 (gpm) (cfs), for which claim is hereby made for Domestic the
 purposes; that the average annual amount of water to be diverted is _____ acre-ft.; and that the
 aforementioned statements are made and this map and statement are filed in compliance with the law.

State of Colorado)
 County of _____) ss

Claimant(s)

Subscribed and sworn before me this _____ day of _____, 19____

My Commission expires _____

Notary Public

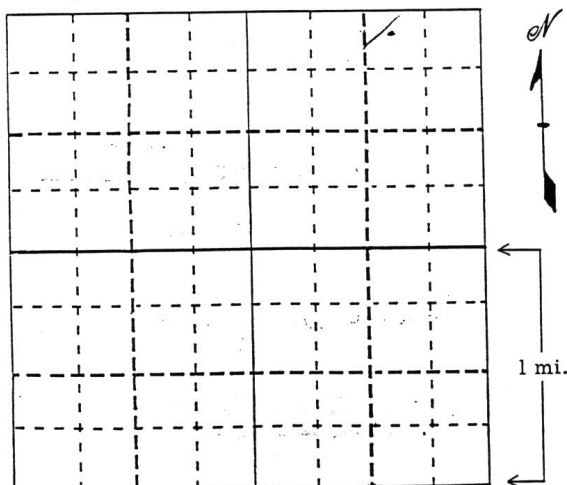
MAP

THE WELL SHALL BE LOCATED WITH REFERENCE TO GOVERNMENT SURVEY CORNERS OR
 MONUMENTS, OR SECTION LINES BY DISTANCE AND BEARING.

_____ feet from _____ (North or South) section line
 _____ feet from _____ (East or West) section line

IF WELL IS FOR IRRIGATION, THE AREA TO BE IRRIGATED MUST BE SHADED OR CROSS-
 HATCHED.

The square below will be used to indicate the location of the well and the irrigated land.



WELL LOCATION

LARIMER - 35 CountNE 1/4 NW 1/4, sec. W 1/2 6T. 5N, R. 72W, 6th P. M.

Ground Water Basin _____

Water Management _____

District _____

Domestic wells may be located by the
 following: LOT _____, BLOCK _____

_____ SUBDIVISION

ACCEPTED FOR FILING IN THE OFFICE OF THE STATE ENGINEER OF COLORADO ON THIS
 _____ DAY OF _____, 19____.

State Engineer

LOG AND HISTORY

WELL LOG

Ground Elevation _____

Type Drilling Cable Tool

From	To	Type of Material	Water Loc.	Perf.
0	4	LEPM		
4	63	Decomposed Granite	700PH	
63	110	Gray Granite	2700PH	

WELL DATA

Date Started May 1966Date Completed JUNE 1966

Hole Diameter:

6 in. from 0 ft. to 110 ft.
 _____ in. from _____ ft. to _____ ft.
 _____ in. from _____ ft. to _____ ft.

CASING RECORD

Cemented from 5' to 12'

Plain Casing

Size 4 1/2" kind Steel from 0 ft. to 20 ft.

Size _____, kind _____ from _____ ft. to _____ ft.

Size _____, kind _____ from _____ ft. to _____ ft.

Perforated Casing

Size _____, kind _____ from _____ ft. to _____ ft.

Size _____, kind _____ from _____ ft. to _____ ft.

Size _____, kind _____ from _____ ft. to _____ ft.

TEST DATA

Date Tested JUNE 1966Type of Pump SubmersibleLength of Test 24 hrsConstant Yield 270 GPHDrawdown Total

PUMP DATA (To be filled in)

Type of Pump SubmersibleOutlet Size 1"Driven by ElectricHorsepower 1/2

Use additional paper if necessary to complete log and attach.

WELL DRILLERS STATEMENT

 State of Colorado)
 County of _____) ss
DEPTH TO WATER 63'TOTAL DEPTH 110'

_____ being duly sworn, deposes and
 says: he is the driller of the above described well; he has read the above map and statement, knows the
 content thereof, and the same is true of his own knowledge.

Ernest C. Young
 License No. 495

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

My Commission expires _____, 19____

Notary Public

FORM TO BE MADE OUT IN QUADRUPLICATE:

Original WHITE (both sides) & Triplicate GREEN Copy must be filed with the State Engineer within 30-days after well is completed.
 Duplicate PINK copy is for the Owner & YELLOW copy for the Driller. WHITE FORM MUST BE AN ORIGINAL COPY ON BOTH
 SIDES AND SIGNED.

WRJ-5266

STATE OF COLORADO

APPLICATION FOR: ☒ A PERMIT TO USE GROUND WATER
☒ A PERMIT TO CONSTRUCT A WELL
☐ OTHER

Application must be completed satisfactorily before acceptance

RECEIVED
 JUN 2 1966
 GROUND WATER SECT.
 COLORADO
 STATE ENGINEER

PRINT OR TYPE

LOCATION OF WELL

APPLICANT FRANK MCGRAWCOUNTY LARIMER

Street Address _____

N E 1/4 & N W 1/4, sec. 14 1/2, 6City & State ESTES PARK, COLORADOT. 5N, R. 72W, 6TH P.M.Use of ground water Domestic

Ground Water Basin _____

Owner of land on which well _____

Water Management _____

is located FRANK MCGRAW

District _____

Number of _____

USE DIAGRAM ON THE BACK OF THIS SHEET TO
LOCATE WELL.

acres to be irrigated _____

Legal description of _____

irrigated land _____

Other water rights on _____

this land _____

Owner of irrigated _____

land _____

Aquifer(s) ground water is to be obtained _____

from _____

Driller Edward P. [unclear] No. 495

Driller's _____

Address PO Box 690, Estes Park, CO

Frank McGraw

Signature of Applicant

ESTIMATED WELL DATA

CONDITIONS OF APPROVAL

Est. quantity of ground water to be claimed: _____

Est. Max. Yield 20 GPM or CFS

Est. average annual amount to be _____

used in acre-feet _____

Storage capacity _____ AF

Anticipated start of drilling May 19 66

Hole Diameter:

6 in. from 0 ft. to 200 ft.

_____ in. from _____ ft. to _____ ft.

Casing:

Plain 6 in. from 0 ft. to 25 ft.

_____ in. from _____ ft. to _____ ft.

Perf. _____ in. from _____ ft. to _____ ft.

_____ in. from _____ ft. to _____ ft.

PUMP DATA:

Type Submersible HP 1/2 Outlet _____Size 1"

This application approved

PERMIT NUMBER 27530DATE ISSUED JUN 2 1966

State Engineer

by

This application approved

CONDITIONAL PERMIT NO. _____

(Permit good for one (1) year after date of issuance)

DATE ISSUED _____

Chairman Ground Water Commission

by

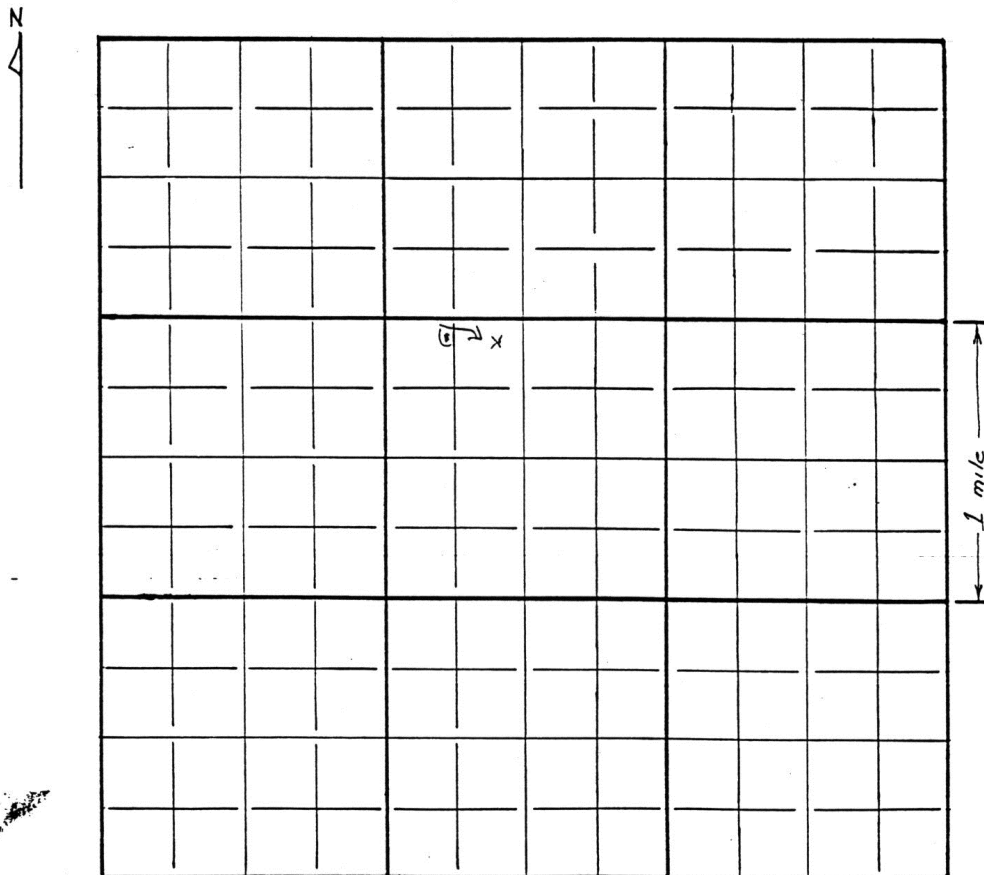
THE LOCATION OF THE PROPOSED WELL SHALL BE SHOWN ON THE DIAGRAM BELOW. THE LOCATION WILL BE INDICATED BY THE DISTANCES FROM THE SECTION LINES, OR THE DISTANCE AND BEARING FROM GOVERNMENT SURVEY CORNERS OR MONUMENTS.

IF WELL IS FOR IRRIGATION, THE AREA TO BE IRRIGATED MUST BE SHADED OR CROSS-HATCHED.

Domestic wells may be located by the following:

Lot _____ Block _____ Street Address _____
 or
 _____ City _____
 Subdivision _____

The diagram represents nine (9) sections. Use the center square (section) to indicate the location of the well.



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

Supporting Hydro Data

August 19, 1999

L54(2380)
ROMO/General

Memorandum

To: Bill Thompson, Special Projects, Rocky Mountain National Park
Through: William L. Jackson, Chief, Water Operations Branch
From: Larry Martin, Hydrologist, Water Operations Branch
Subject: Well testing at McGraw Ranch

PURPOSE: Two existing wells at McGraw Ranch were tested to determine if they could provide an adequate water supply for domestic use at the ranch.

SUMMARY: The eastern well at McGraw Ranch was tested on August 17, 1999. The well was pumped continuously for 5 hours at a rate of 14 gallons per minute. During this time, the water level was drawn down from about 16 feet to 64 feet below the top of the casing. The total amount of water pumped during the test was 4200 gallons, about double the anticipated maximum daily demand at the Ranch. The eastern well is easily capable of supplying the water needs at the ranch. The planned 40,000 gallon storage tank should be filled in stages, over a period of 1-2 weeks to avoid over-stressing the well or aquifer.

DISCUSSION: McGraw Ranch is a former dude ranch that was purchased by the park service several years ago. The ranch is located about 3 miles north of Estes Park, near the eastern park boundary. Ranch buildings are being repaired to create a research center and housing for visiting researchers. As part of the repair project, a new water system will be installed. It is anticipated that demand at the ranch will be no more than 2000 gallons per day. A 40,000 gallon storage tank will be installed to provide water for fire protection.

There are two existing wells at the ranch. The West Well is 212 feet deep and the East Well is 165 feet deep, as measured from the top of the well casing. We are uncertain about any other aspects of construction for either of the wells as they were constructed prior to the park acquiring the property. Water rights records indicate that the wells were constructed in 1966. These records indicate that the West Well is 110 feet deep and the East Well is 235 feet deep. However, our measurements found that the wells are 212 and 165 feet deep respectively. These

records also indicate that the West Well produces 20 gpm and the East Well produces $\frac{1}{2}$ gpm, which is the opposite of our findings. So we are reluctant to place much faith in any information provided in the water rights records.

Park maintenance staff tested the West Well on 8/5/99 and pumped it dry in 27 minutes. Water pumped from the well was discolored and foul looking. It was obvious to maintenance staff that the West Well would not be useable as a water supply for the ranch.

Park maintenance staff moved the test pump to the East Well and tested it on 8/12/99. The well produced a steady stream of water that became clearer as the well was pumped. The water level was drawn down 20 feet, from 14 to 34 feet, after 40 minutes of pumping. It was decided to test the East Well more extensively.

On 8/17/99, Larry Martin, Brad Gillies, and Mark VanMouwerik, from the Water Resources Division conducted a drawdown and yield test on the East Well. The well was pumped continuously for 5 hours. The discharge rate remained constant at 14 gpm throughout the test. Drawdown and recovery were measured frequently throughout the test. These data are shown on the attached graph. After 5 hours of continuous pumping, the water level had been drawn down about 48 feet, from 16 to 64 feet, as measured from the top of the well casing. At this point there was still 100 feet of water in the well and the rate of drawdown seemed to have stabilized. We projected the rate of drawdown beyond the end of the test to show predicted drawdown in the well for various times up to 800 minutes of pumping, as shown on the second graph. After 12 hours of continuous pumping, we would expect that the water level would be drawn down to about 79 feet below the top of the casing. There would still be 85 feet of water in the well. Pumping the well at 14 gallons per minute for 12 hours would produce 10,000 gallons of water.

Recovery of water level in the well was slower than expected. We would expect recovery to be the mirror image of the drawdown curve, and should have seen about 26 feet of recovery in the 75 minutes that we monitored water levels following cessation of pumping. Instead we saw only 20 feet of recovery (as measured from extending the drawdown curve through the recovery period. We do not have an explanation for this slower than expected rate of recovery. But note it here for future reference and as a reason for caution when filling the large storage tank. It would be prudent to allow a longer than normal period for recovery of this well after long periods of pumping. Perhaps limiting the pumping to 10-12 hours followed by 36 hours of recovery during filling of the storage tank. Water levels should be monitored during high use periods, such as filling the storage tank, to determine when and how long to operate the pump.

Water quality was monitored throughout the test pumping of the East Well. Specific conductivity was about 520 umhos/cm at the start of the test and gradually decreased to about 430-450 umhos/cm during the last 3 hours of the test. Conductivity in the 430-450 range indicates that the total dissolved solids concentration would be expected to be about 250 mg/l, well within the drinking water standards. pH of the water was 7.0-7.1 throughout the pumping period. Taste and odor were good. The water was somewhat discolored at the start of the test, but cleared after an hour of pumping. The initial discoloration is probably related to the well not being used for

about 20 years. Park maintenance staff will collect samples for complete chemical analysis of the water next week.

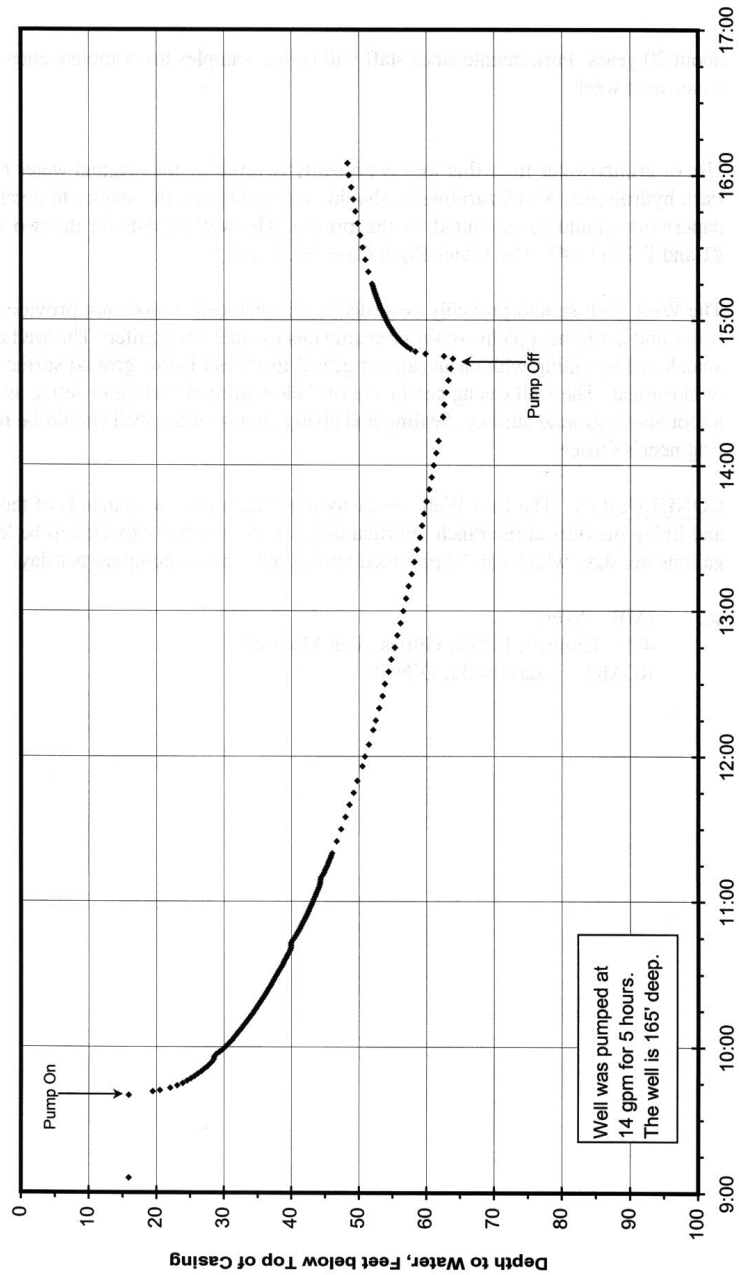
Use of groundwater from this well is probably covered by the original water right at the ranch. Park hydrologist, Ken Czarnowski, should be consulted on this matter to determine if any paperwork should be submitted for this project. The well permits for the two wells are P-27530 #1 and P-27530 #2. The Water Right Case No. is 2881.

The West Well should probably be sealed and abandoned. It does not provide a useable source of water and could be a pathway for contaminants to enter the aquifer. The well can be sealed and abandoned by filling with clean sand or gravel to 15 feet below ground surface and then filled with cement. The well casing can be cut off below ground surface or left as is, protruding about a foot above ground surface. Sealing and abandonment of the well should be reported to the State Engineer's Office.

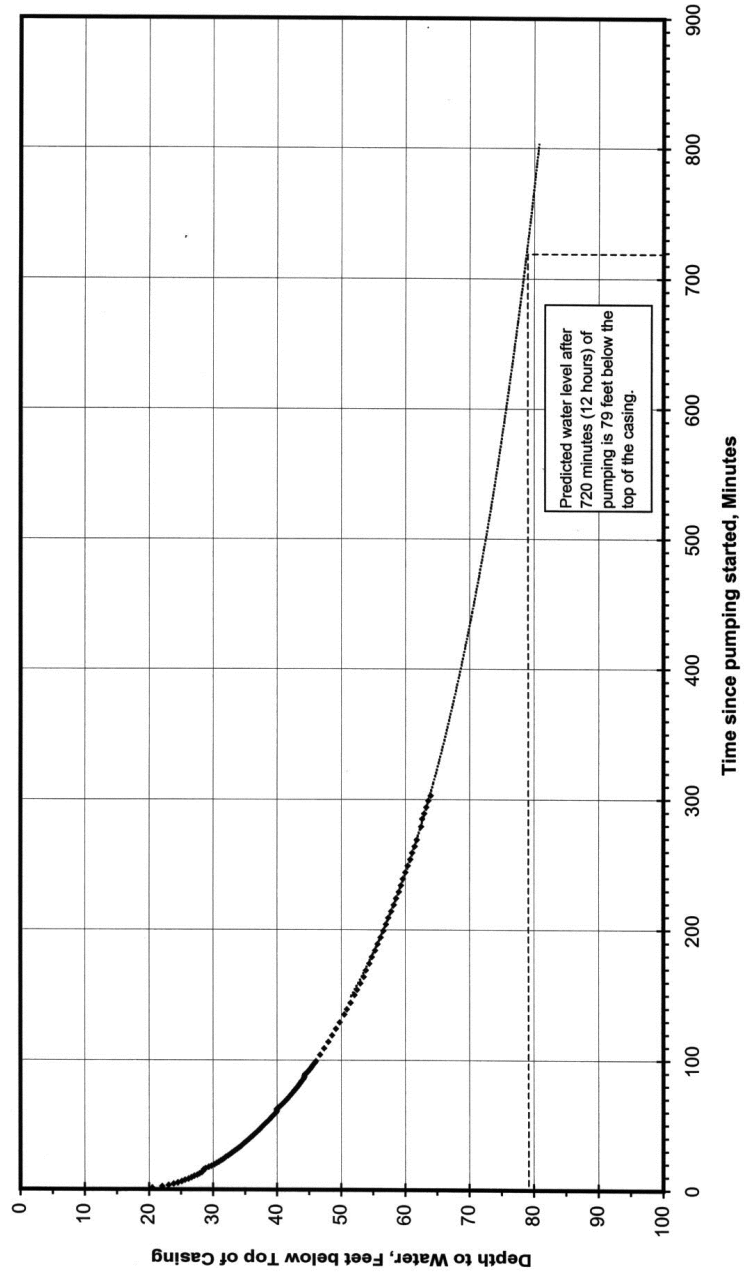
CONCLUSION: The East Well can easily meet the water use demands of the research center and living quarters at the ranch. Normal usage at the ranch is expected to be less than 2000 gallons per day, which can be provided with about 2 hours pumping per day.

cc: IMR - Ayers
479 - Kimball, Pettee, Gillies, Van Mouwerik
ROMO - Czarnowski, O'Neil

**ROMO McGraw Ranch
Eastern Well 8/17/99**



**ROMO McGraw Ranch
Eastern Well 8/17/99**



Other Supporting Information

NATIONAL PARK SERVICE
WATER RESOURCES DIVISION
FORT COLLINS, COLORADO

DATE: 10/18/88

FROM
NAME: Ken Czarnowski

GROUP: Water Rights
Fort Collins

TO
NAME: Dick Young

GROUP: Lands Division

CITY, STATE: RMRO

MAIL CODE: _____

OFFICE PHONE: _____ FTS

FAX NUMBER: _____ FTS

VERIFICATION: _____ FTS

TOTAL NUMBER OF PAGES (INCLUDING COVER SHEET): 2

SPECIAL INSTRUCTIONS:

If this is not acceptable,
please call me.
Ken

Telecopier Verification telephone number in Fort Collins: (303) 221-5341
FTS (none)

Telefax telephone number in Fort Collins (3M-EMT 9165): (303) 221-5341
FTS (none)

Receipt verified by: _____ Date: _____ Time: _____

October 18, 1988

L54(479)
RMR/ROMO Water Rights

Memorandum

To: Chief, Land Resources Division, Rocky Mountain Region
From: Chief, Water Rights Branch, Water Resources Division
Subject: Indian Head Ranch, Rocky Mountain National Park

As requested in your telephone conversation of October 13 with Ken Czarnowski of my staff, the following is our recommended replacement language regarding water rights to be included in the general warranty deed for Tract 06-121.

"Together with all the Grantor's right, title and interest and to any and all water rights and interests in water running with, attaching to, or otherwise appurtenant to the foregoing described land, including but not limited to those described in Case No. W-2881 and decreed on August 14, 1973 by the Water Court for Water Division I, State of Colorado."

If you have any questions, please Ken Czarnowski or me at 221-8339 or 221-8301, respectively.

cc: RMR, Rouse-ARD for Park Operations
ROMO, Superintendent
RMR, Hermance

October 18, 1988

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cc: RMR, Rouse-ARD for Park Operations
ROMO, Superintendent
RMR, Hermance

Date: 10/13/88

Project: Water Rights at Indian Head Ranch, ROMO

Issue: Dick Young called on 10/13/88 and stated that the NPS was about to close on the purchase of the Indian Head Ranch. He said the ranch had a well with permit # 27530 that the NPS wanted to purchase along with the land. He asked if there was any document like a transfer of water right certificate that the NPS must obtain, other than the standard language in the deed, to obtain this water right? Dick also stressed that he needs this information as soon as possible.

Action Plan:

	<u>Action Item</u>	<u>Due Date</u>	<u>Accomplished</u>
1.	Contact Water Division I and determine if well has been decreed	10/13/88	10/13
2.	Obtain copy of decree for well	10/17/88	10/17
3.	Contact Records Division, State Engineers and request all information on wells on the ranch. The records clerk said there are 3 wells on the property. All info will be sent.	10/13/88	10/14
4.	Contact Young and tell him that we must include the exact language from decrees on the deed	10/13/88	10/14
5.	Contact ROMO (Frank Fiala) and determine, location, present use, and future use of the 3 wells to be acquired with the Ranch	10/17/88	10/17
6.	Review decrees and State Engineer's files for the 3 wells. Prepare language to be included with deed of sale.	10/21/88	10/18
8.	Prepare memo transmitting proposed language to Chief, Lands Division	10/24/88	10/18
9.	Transmit copy of deed to Water District I and to the State Engineer's Office requesting they record the change of ownership of water rights	11/15/88	
10.	Depending on the use of the water as determined by ROMO, notify Water	11/20/88	

District I of the change of use for
the water

TELEPHONE CONVERSATION

DATE 10/13/88 TIME 9:45 AM/PM AM
PROJECT Indian Head Ranch RMR

NPS PERSON ON CALL: Ken Czarowski ☒ I CALLED ☐ S/HE CALLED

PERSON _____

ORGANIZATION Water Refuser, Cho Water Div I, Greeley

ADDRESS _____

TELEPHONE NO. 356-4000 EXT. _____

SUBJECTS DISCUSSED I talked to Ray Freeman in the Well at Indian Head Ranch. Ray pulled the file and said the well (point # 27530) is located in N¹W 56, T5 N R72. It was drilled on 5/16/66 to 110' ft deep and yields 4 gpm. The well was decreed in the name of McGraw #1. He also found another well listed as McGraw #2 with a different interpretation later. The Water Refuser suggested we get copies of the files for these wells from the State Engineer's office in Denver (Randy Dept, phone 866-3581)

The State Water Refuser will send in the decree for the well. He said to be sure to have the exact language from the Decree for the 2 wells on the Grand Lead. The Decree has case # W-2881

After we pay the property & get the land deed, we must send copies of the deed to Greeley and ask that they be put in the file. Also we must send a copy of the deed to the State Engineer's office asking that the change of ownership be recorded for the water right.

ACTION TO BE TAKEN Prepare Program Work Action Plan listing steps to be taken to complete the case.

COPIES TO: Dean

TELEPHONE CONVERSATION

DATE 10/13 TIME 1:00 AM/PM PM
PROJECT Indian H₂O W.R.

NPS PERSON ON CALL: Ken Czarnewski ☒ I CALLED ☐ S/EE CALLED

PERSON State Engineer's Office - "1/12 let"

ORGANIZATION _____

ADDRESS _____

TELEPHONE NO. 866-3 581 EXT. _____

SUBJECTS DISCUSSED I talked to "Violet" in the Records Dept and asked for all information related to the well on Indian Head Ranch located in the NE NW 56 T5N R72W. The data found two wells with Deeds # W-2881 and permits 25730-1 and 25730-2. She also found another well, permit 55299 with Deed 84-CW-261. All three wells were in the name of McGraw and were on the above location.

Violet will get all of the above information to me.

ACTION TO BE TAKEN Rein force + Permit; incorporate the necessary language in the deed.

COPIES TO: None

TELEPHONE CONVERSATION

DATE 10/13 TIME 1:30 AM/PM (PM)
PROJECT Indian Head Ranch WR

NPS PERSON ON CALL: Ken Czarnowski

☒ I CALLED ☐ S/EE CALLED

PERSON Frank Fiala

ORGANIZATION ROMO

ADDRESS _____

TELEPHONE NO. 586-2371

EXT. _____

SUBJECTS DISCUSSED I asked Frank if he was familiar with the Indian Head Ranch pasture and the wells on the land. Frank said he knew about the pasture, but was unfamiliar to know about "3 wells". He says he knows about one well and possible two but the 3rd is a mystery. Frank asked me to "get all the information on the wells - location, use, when etc. He also asked if I would come up and help him find them on the ground.

I asked about the potential use of the Ranch; the water, fertilizer, etc. He was unsure as to what for they had in mind. He will try to find out in case we need to notify the Water Control of the "change in use" for the water.

ACTION TO BE TAKEN Visit Frank in looking wells.

COPIES TO: Over

TELEPHONE CONVERSATION

DATE 10/13 TIME 9:30 AM PM
PROJECT Indian Head Ranch, RMR

NPS PERSON ON CALL: Ken Czarnowski ☐ I CALLED ☒ HE CALLED

PERSON Dick Young

ORGANIZATION Lands Division, RMR

ADDRESS _____

TELEPHONE NO. _____ EXT. _____

SUBJECTS DISCUSSED Dick said the NPS is closing soon on the purchase of the Indian Head Ranch in ROMO. A well is located on the property. Other than listing the well + associated property + water rights on the deed of sale, is there any other documents or transfer certificates that the NPS must complete to purchase the water right?

I said I would check this out and get back to Dick with the answer.

ACTION TO BE TAKEN Contact Colo Water Court to get information on procedures for transferring water right.

COPIES TO: Over

Docket Information

Number of Documents in Docket 50

Documents Dated from 6/2/1966 to 8/19/1999

Docket Compiled: 6/8/2016