



WATER-RIGHT DOCKET

Rocky Mountain National Park

Docket No: 47

GRAND LAKE RANGER STATION--RESIDENTIAL WELL

Preliminary Docket Information

00-00-0000: water right record: id no. romo w310475bf47; grand lake ranger station, residential and utility area

WATER RIGHT RECORD

Park: ROMO

Docket Number:

Federal #47

IDENTIFICATION NO: ROMO, W, 310475, B, F, 47

DITCH/WATER SYSTEM: Grand Lake Ranger Station, Residential and Utility Area

SOURCE OF SUPPLY: Well

LOCATION: NW $\frac{1}{4}$ NW $\frac{1}{4}$, Sect. 31, T4N, R75W, 6th PM

WATER RIGHT:

Appropriator: United States of America, National Park Service

Application/Permit Number: Application: No. 9523, August 18, 1961

Certificate Record Number: *Application for permit for Replacement well submitted 8/5/85*

Date of Priority:

Quantity of Water:

Purpose: Domestic, Recreation, Fire Protection

Irrigated Land Description:

SUMMARY OF STATUS:

Harkison Ranch Well Registration No N-921
First Use 1901

W A T E R D O C K E T I N F O R M A T I O N

A R E A ROCKY MOUNTAIN N P

DOCKET NO. 47

APPLICATION NO. 9523

PERMIT NO. _____

CERTIFICATE NO. _____

TITLE OF DOCKET HARBISON MEADOWS - GRAND LAKE ENTRANCE
WATER WELL

PRIORITY _____

REMARKS: See Docket #23 for Harbison
Ditch Water Right

W A T E R D O C K E T I N F O R M A T I O N

A R E A ROCKY MOUNTAIN NATIONAL PARK

DOCKET NO. 47

APPLICATION NO.

PERMIT NO.

CERTIFICATE NO.

TITLE OF DOCKET NEW GRAND LAKE ENTRANCE STATION
(HARBISON MEADOWS WELL)

PRIORITY

REMARKS:

W A T E R D O C K E T I N F O R M A T I O N

A R E A ROCKY MOUNTAIN NATIONAL PARK

DOCKET NO. 50

REGISTRATION NO. N-928
~~APPLICATION NO.~~

PERMIT NO.

CERTIFICATE NO.

TITLE OF DOCKET OLD GRAND LAKE ENTRANCE RANGER QUARTERS (ABANDONED)

PRIORITY

REMARKS:

ROCKY MOUNTAIN NATIONAL PARK

Water Right Docket No. 50

Old Grand Lake Entrance Ranger Quarters Well (Abandoned)

OUTLINE OF ASSEMBLY

PART I - OLD GRAND LAKE ENTRANCE RANGER QUARTERS WELL (ABANDONED)

1. Copy, Form F (Rev.) 7-57/5M, Registration No. N-928 of well.

ROCKY MOUNTAIN NATIONAL PARK
Water Right Docket No. 47
New Grand Lake Entrance Station
(Harbison Meadows Well)

OUTLINE OF ASSEMBLY

PART I - HARBISON RANCH WELL (ABANDONED)

1. Comments on Harbison Ranch Well by Hydraulic Engineer,
William A. Mott, Midwest Region.

PART II - NEW GRAND LAKE ENTRANCE STATION - HARBISON MEADOWS WELL

1. Copy, Drawing No. 22168, New Grand Lake Entrance Station -
Harbison Meadows Well.
2. Copy, Statement of Water Analysis by USGS - Lab. No. 4330.
3. Copy, Letter dated September 21, 1961 by Donald L. Coffin,
USGS, transmitting Item 2 above.
4. Copy, Approved Application for Use of Ground Water,
No. 9523, dated August 18, 1961.
5. Copy, Log and History of Well, Permit No. 9523.
6. Copy, Memorandum dated November 7, 1961, by Superintendent
Hanks, transmitting Items Nos. 4 & 5 above.

INDEX

ROCKY MOUNTAIN NATIONAL PARK

HARBISON MEADOWS - GRAND LAKE ENTRANCE WATER WELL

1. Statement of Water Analysis by USGS - Lab No. 4330
2. Letter dated Sept. 21, 1961, by Donald L. Coffin, USGS, submitting item 1. above.
3. Approved - Application No. 9523, Aug. 18, 1961 - for use of ground water.
4. Log and History of Well - Permit No. 9523.
5. Memo. dated Nov. 7, 1961, by Supt. Hanks, transmitting items Nos. 3 and 4 above.

ROCKY MOUNTAIN NATIONAL PARK
OLD GRAND LAKE ENTRANCE RANGER
STATION WELL (ABANDONED)

GRAND LAKE ENTRANCE STATION
(HARRISON MEADOWS WELL)

OUTLINE OF ASSEMBLY

PART I - OLD GRAND LAKE ENTRANCE RANGER STATION WELL (ABANDONED)

1. Copy, Registration No. H-928 of Old Grand Lake Entrance Ranger Quarters from State Engineer, State of Colorado, dated December 28, 1961.

PART II - GRAND LAKE ENTRANCE STATION - HARRISON MEADOWS WELL

2. Copy, Drawing No. 22168, Grand Lake Entrance Well.
3. Copy, Statement of Water Analysis by USGS - Lab. No. 4330.
4. Letter dated September 21, 1961 by Donald L. Coffin, USGS, submitting Item 1 above.
5. Approved - Application No. 9523, August 18, 1961 - for use of Ground Water.
6. Log and History of Well - Permit No. 9523.
7. Memorandum dated November 7, 1961 by Superintendent Hanks, transmitting Items Nos. 5 and 6 above.

NOT
IN FILE

DOCKET INFORMATION SHEET

Docket Identity	ROMO W 31 04 75 B F 47
Region	ROCKY MOUNTAIN
Area	ROCKY MOUNTAIN NATIONAL PARK
Site	GRAND LAKE RANGER STATION
State	COLORADO
County	GRAND
Docket	ROMO WATER RIGHT DOCKET 47
Location	T4N R75W SEC 31 NW 1/4 NW 1/4
Acquired by	
Application	9523 AUGUST 18 1961
Permit	
Certificate	
Priority	
Reservation	JANUARY 26 1915
Status	INACTIVE FEDERAL
Source	GROUND WATER
Use	DOMESTIC FIRE PROTECTION AND RECREATION
Quantity	
Hydrologic Unit	14010001
Remarks	

ROCKY MOUNTAIN REGIONAL OFFICE
655 Parfet Street
P. O. Box 25287
Denver, Colorado 80226

L54 (RMR-MR)

APR 17 1987

Memorandum

To: Superintendent, Rocky Mountain National Park
Attention: Larry Reed

From: ^{Acting} Associate Regional Director, Park Operations, Rocky Mountain Region

Subject: State Permit to Construct Well Near Grand Lake Entrance Station

Enclosed are the originals of the subject permits that were recently approved by the Colorado Division of Water Resources. Please note the constraints that have been placed upon the usage of the water and the followup requirements necessary to prove that the water has been put to beneficial use by April 10, 1989.

If further assistance is needed with this project, please contact Ron Hermance at (303) 236-8645.

John F. Chapman

Enclosures

CC:
Stan Ponce, Water Resources Division, Fort Collins, CO w/enc.

RHermance:11c:4/16/87:776-8645

WRJ-5-Rev. 76

COLORADO DIVISION OF WATER RESOURCES
818 Central Bldg., 1313 Sherman St., Denver, Colorado 80203

2-9-87 21F

PERMIT APPLICATION FORM

Application must be complete where applicable. Type or print in **BLACK INK**. No overstrikes or erasures unless initialed.

RECEIVED
APR 03 1987
WATER RESOURCES
STATE - ENGINEER
COLORADO

(X) A PERMIT TO USE GROUND WATER
(X) A PERMIT TO CONSTRUCT A WELL
FOR: (X) A PERMIT TO INSTALL A PUMP

() REPLACEMENT FOR NO.

() OTHER

WATER COURT CASE NO.

OWNER'S COPY**(1) APPLICANT - mailing address**

National Park Service
NAME Rocky Mountain Regional Office

STREET 655 Parfet Street, Box 25287CITY Denver, Colorado 80225

(State)

(Zip)

TELEPHONE NO. (303) 236-8645**(2) LOCATION OF PROPOSED WELL**County GrandNW % of the NE %, Section 31Twp. 4 N, Rng. 75 W, 6th P.M.

(N.S)

(E.W)

(3) WATER USE AND WELL DATAProposed maximum pumping rate (gpm) 10 gpmAverage annual amount of ground water to be appropriated (acre-feet): 0.25 A.F.Number of acres to be irrigated: 0Proposed total depth (feet): 60'

Aquifer ground water is to be obtained from:

Owner's well designation Grand Lake Entrance, Rocky Mountain National Park
GROUND WATER TO BE USED FOR:

() HOUSEHOLD USE ONLY - no irrigation (0)
() DOMESTIC (1) () INDUSTRIAL (5)
() LIVESTOCK (2) () IRRIGATION (6)
() COMMERCIAL (4) () MUNICIPAL (8)

(X) OTHER (9) Entrance Station Office

DETAIL THE USE ON BACK IN (11)

(4) DRILLERName D. D. MacPhersonStreet Box 290City Granby, CO 80446

(State)

(Zip)

Telephone No. 887-3993 Lic. No. 1064

FOR OFFICE USE ONLY: DO NOT WRITE IN THIS COLUMN

Receipt No. 11533

Basin _____ Dist. _____

CONDITIONS OF APPROVAL

This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of the permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.

1) APPROVED PURSUANT TO C.R.S. 37-92-602(3)(b)(1) AND POLICY OF THE STATE ENGINEER FOR APPROPRIATION OF GROUND WATER TRIBUTARY TO THE COLORADO RIVER SYSTEM.

2) THE USE OF GROUND WATER FROM THIS WELL IS LIMITED TO DRINKING AND SANITARY FACILITIES AS DESCRIBED IN C.R.S. 37-92-602(1)(c), FOR AN ENTRANCE STATION OFFICE. WATER FROM THIS WELL SHALL NOT BE USED FOR LAWN OR LANDSCAPE IRRIGATION OR FOR ANY OTHER PURPOSE OUTSIDE THE ENTRANCE STATION OFFICE.

3) THE MAXIMUM PUMPING RATE OF THE WELL SHALL NOT EXCEED 15 G.P.M.

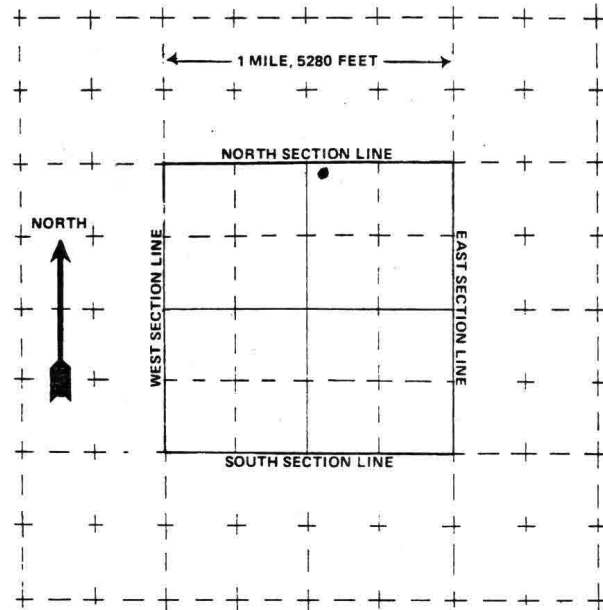
4) THE MAXIMUM ANNUAL AMOUNT OF GROUND WATER TO BE DIVERTED SHALL NOT EXCEED 1/3 ACRE-FOOT (108,600 GALLONS).

5) APPROVED AS THE ONLY WELL ON A SITE OF 40 ACRE DESCRIBED AS THE NW $\frac{1}{4}$ NE $\frac{1}{4}$, SEC. 31, T.4N., R.75W., 6TH P.M.

6) THE RETURN FLOW FROM THE USE OF THE WELL MUST BE THROUGH AN INDIVIDUAL WASTE WATER DISPOSAL SYSTEM OF THE NON-EVAPORATIVE TYPE WHERE THE WATER IS RETURNED TO THE SAME STREAM SYSTEM IN WHICH THE WELL IS LOCATED. THE MAXIMUM CON-
APPLICATION APPROVED - CONTINUED, ATTACHED SHEET -

PERMIT NUMBER 147437DATE ISSUED APR 10 1987EXPIRATION DATE APR 10 1989BY Robert G. Longenbaugh
Assistant (STATE ENGINEER)BY Steve LattemeschlagerI.D. 5-51 COUNTY 25

(5) **THE LOCATION OF THE PROPOSED WELL** and the area on which the water will be used must be indicated on the diagram below. Use the CENTER SECTION (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

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)
A family of 5 will require approximately 1 acre-foot of water per year.
1 acre-foot ... 43,560 cubic feet ... 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) **THE WELL MUST BE LOCATED BELOW** by distances from section lines.

50 ft. from North sec. line
(north or south)

2600 ft. from East sec. line
(east or west)

LOT _____ BLOCK _____ FILING # _____

SUBDIVISION _____

(7) **TRACT ON WHICH WELL WILL BE LOCATED** Owner: U.S. Government

No. of acres 40 . Will this be the only well on this tract? Yes

(8) **PROPOSED CASING PROGRAM**

Plain Casing

6 in. from 0 ft. to 60 ft.

_____ in. from _____ ft. to _____ ft.

Perforated casing

_____ in. from _____ ft. to _____ ft.

_____ in. from _____ ft. to _____ ft.

(9) **FOR REPLACEMENT WELLS** give distance and direction from old well and plans for plugging it:

(10) **LAND ON WHICH GROUND WATER WILL BE USED:**

Owner(s): Rocky Mountain National Park No. of acres: _____

Legal description: NW $\frac{1}{4}$, NE $\frac{1}{4}$, Sec. 31, T. 4 N., R. 75 W., 6 P.M.

(11) **DETAILED DESCRIPTION** of the use of ground water: Household use and domestic wells must indicate type of disposal system to be used. Entrance station office with 1 toilet and 1 wash basin. Up to 7 employees work from this office. Current water line to station from Kawuneeche Visitor Center well cannot be winterized. The 10,000 gallons is over and above current summer usage from Kawuneeche well.

(12) **OTHER WATER RIGHTS** used on this land, including wells. Give Registration and Water Court Case Numbers.

Type or right	Used for (purpose)	Description of land on which used

(13) **THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS TRUE TO THE BEST OF HIS KNOWLEDGE.**

Homer Rouse
Homer Rouse, Associate Regional Director, Park Operations, Rocky Mountain Region
SIGNATURE OF APPLICANT(S)

Use additional sheets of paper if more space is required.

APPLICANT: NATIONAL PARK SERVICE
ROCKY MOUNTAIN REGIONAL OFFICE

WELL PERMIT NO. 147437

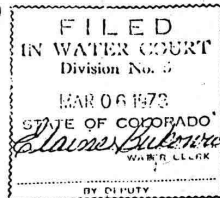
CONDITIONS OF APPROVAL, CONTINUED:

SUMPTIVE USE OF GROUND WATER SHALL NOT EXCEED 10 PERCENT.

- 7) A TOTALIZING FLOW METER MUST BE INSTALLED ON THE WELL AND MAINTAINED IN GOOD WORKING ORDER. PERMANENT RECORDS OF ALL DIVERSIONS MUST BE MAINTAINED BY THE WELL OWNER (RECORDED AT LEAST ANNUALLY) AND SUBMITTED TO THE DIVISION ENGINEER UPON REQUEST.

mm. 4-7-87

IN THE DISTRICT COURT IN AND FOR
WATER DIVISION NO. 5
STATE OF COLORADO



Civil Action No. 1768 COUNTY OF GRAND

PARAGRAPH 16, p. 12.

IN THE MATTER OF THE APPLICATION)	
FOR WATER RIGHTS OF: THE UNITED)	<u>GRAND LAKE LODGE AND RANGER</u>
STATES OF AMERICA)	<u>STATION WATER SYSTEM</u>
IN THE COLORADO RIVER)	<u>RULING OF THE REFEREE</u>
OR ITS TRIBUTARIES--)	
TRIBUTARY INVOLVED: TONAHUTU)	ABSOLUTE WATER RIGHT
CREEK AND THE NORTH FORK OF)	
THE COLORADO RIVER)	
IN GRAND COUNTY)	

The Referee having made the investigations required by Article 21 of Chapter 148, C.R.S. 1963, as amended, does hereby make the following ruling, to wit:

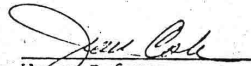
1. This application was referred to the Water Referee of Water Division No. 5 on the 31st day of August, 1972.
2. Name of Applicant: The United States of America
c/o Kenneth J. Burke, Trial Attorney
Address: P.O. Box 1656; Denver, Colorado
3. The legal description of the water right claimed is:
There are 2 points of diversion: 1) At a point whence the Northwest Corner of Sec 32, T. 4 N., R. 75 W. bears: N. 31°12' W. 1800.55 feet, and 2) At a point whence the Northwest Corner of said Section 32 bears: N. 87°52' W. 1756.34 feet.
4. The water is diverted and transported by steel pipeline to the place of use.
5. Location of point or points of use: The water is used at the Grand Lake Lodge and Ranger Station, located in Section 31, T. 4 N., R. 75 W. of the 6th P.M.
6. The date of initiation of use: June 30, 1920.
7. The amount of water used is: 0.072 cubic foot per second of time.
8. The use of the water is: domestic.
9. The priority date of the junior-most water right heretofore adjudicated in Water District No. 51 is: August 31, 1955.

10. The date of the filing of the water right
is: December 29, 1971.

11. Pursuant to the Initial Pre-trial Order of the
Master Referee, the priority date is not deter-
mined in this ruling; and the Water Referee
has determined in his discretion not to rule on
the question of whether a valid appropriation of
water has been made by the applicant.

It is accordingly Ordered that this ruling shall be
filed with the Water Clerk and be distributed to all parties
of record; and that in accordance with 148-21-19(2) C.R.S.
1963, as amended (1969), the above-entitled matter be and
is hereby re-referred to the Master Referee for a determin-
ation of the matters referred to in paragraph numbered 11
above.

Done at the City of Glenwood Springs, Colorado, this
6th day of March 1973.


Water Referee
Water Division No. 5
State of Colorado

Form E (Rev.)
9-57STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF THE STATE ENGINEER
GROUND WATER SECTIONLOG AND HISTORY OF WELL
PERMIT NO. 9523Drilled by Earl Reaksecker Lic. No. 425

WELL LOCATION

Owner National Park Service
Rocky Mountain National ParkGrand CountyAddress Box 1086, Estes Park, ColoradoN. W. 1/4 of N. W. 1/4 of Sect. 31

Tenant _____

Twp. 4 N., Rge. 75 W., 6th PMUsed for Domestic, Recreation,
Fire Protection,LOCATE WELL ACCURATELY
IN THE SMALL SQUARES REP-
PRESENTING 40 ACRESon or by Grand Lake Ranger Station,
Residential and Utility Area.
(description of site or land)Date Started June 16, 19 61Date Completed June 29, 19 61Date Tested June 30, 19 61Yield 70 gpm _____ cfsPump type Electric Outlet Size _____

Driven by _____ HP @ RPM _____

Depth to Water 15 Ft. Draw down _____ Ft.

Depth to Inlet _____ Ft.; Bowl _____ Ft.

Size and Kind of Casing:

From 0 to 35 Type plain Wt. _____From 35 to 75 Type perf. Wt. _____

From _____ to _____ Type _____ Wt. _____

Perforations: Size and Type

From 35 to 75 Type Torch cut Size 1/8" x 9"

From _____ to _____ Type _____ Size _____

From _____ to _____ Type _____ Size _____

Well description: Total Depth 75 Ft.(from 0 to 75, 6 in.

Hole (from _____ to _____, _____ in.

Diam. (from _____ to _____, _____ in.

If the above is not applicable
fill in:Harbison Meadows
Rocky Mountain National Park

Town or Subdivision _____

near Grand Lake, Colorado

Street Address or Lot & Block _____

Ground elevation 8650
(if known)

How Drilled:

Cable Tool

REMARKS

Cementing, Packing, Type of
Shut-off, Depth to Shut-off, etc.
PUT LOG OF WELL ON RE-
VERSE SIDETO BE MADE OUT IN QUADRUPLICATE: Original Blue and Duplicate Green to
State Engineer's Office, White copy to Owner, and Yellow copy to Driller

WDC

LOG OF WELL
(ADD SPACES AS NEEDED)

From	<u>0</u>	ft. to	<u>5</u>	ft.	Fine gravel and cobbles.
	<u>6</u>	ft. to	<u>10</u>	ft.	Medium gravel and cobbles.
	<u>11</u>	ft. to	<u>15</u>	ft.	Very fine to medium gravel.
	<u>16</u>	ft. to	<u>25</u>	ft.	Medium gravel.
	<u>26</u>	ft. to	<u>50</u>	ft.	Fine to very fine gravel.
	<u>51</u>	ft. to	<u>60</u>	ft.	Fine gravel.
	<u>61</u>	ft. to	<u>65</u>	ft.	Pebbles, cobbles and boulders.
	<u>66</u>	ft. to	<u>75</u>	ft.	Gravel, cobbles and boulders.

FORM C (Rev.)
1/58STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF THE STATE ENGINEER, GROUND WATER SECTION

PERMIT TO USE GROUND WATER

This permit is issued to the applicant of the address shown below authorizing the use of ground water in the amount, for the use as indicated on/at the location given in the application, and as of the initiation date shown.

FORM C (Rev.)
-1-58/2. SM

STATE OF COLORADO

APPLICATION FOR USE OF GROUND WATER

National Park Service
Applicant Rocky Mountain National Park
P O Address Box 1086, Estes Park, Colo.
Quantity applied for 60 gpm or
AF Storage
Used for Domestic, Recreation, Purposes
Fire Protection
Grand Lake Ranger Station,
on/at Residential and Utility Area
(Legal description of land etc.)

Total acreage irrigated and other ris.

ESTIMATED DATA OF WELL.

Rate also: 6 in. to 75 ft.
in. to ft.

Casing Plain in from 0 to 35 ft.
in. from to ft.
Perf in from 35 to 75 ft.
in from to ft.

PUMP Electric Motor
Type, Horsepower, Discharge also.

Use initiation date September 1 1961
(Use Supplemental pages for additional data)

THIS APPLICATION APPROVED

NO. 9523DATE AUG 18 1961, 19
Aug. 18, 1961

RECEIVED

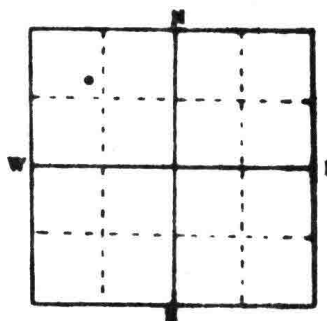
AUG 18 1961

LOCATION OF GROUND WATER SECT

COLORADO

~~STATE ENGINEER~~County GrandN.E. $\frac{1}{4}$ N.E. $\frac{1}{4}$ Sect. 31, Twp. 4N.Rge. 75 E 6th P.M. OR

Street Address or Lot & Block No.

Rocky Mountain National Park
Town or Subdivision

\$25.00 fee required for Industrial,
Commercial or Irrigation uses.

National Park Service

Applicant Rocky Mountain National Park

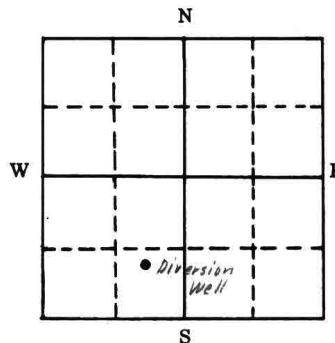
Agent

Allyn P. Hanks, Superintendent.

THE ABOVE APPLICATION, BEING A PART OF THE PERMIT, IS APPROVED AS
DEDICATED.

SEAL

J. B. Whitton.
STATE ENGINEER
Geo. W. Johnson
Authorized Agent

Form F (Rev.)
7-57/5MSTATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF THE STATE ENGINEER, GROUND WATER SECTIONREGISTRATION NO. N-928 OF WELLRegistrant National Park Service Date Dec. 28 1961
Rocky Mountain National Park
P.O. Box 1086
P.O. Address Estes Park, Colorado, Colo.WELL DATA
Depth 19 ft. Diameter 4 in.
Casing : 9 ft. Plain; 10 ft. Perfor.
Static Water Level 3.5 ft. from top
Yield _____ (gpm)(cfs) from _____ ft.
Used for Domestic purposes on/atOld Grand Lake Entrance Ranger Quarters
(legal description of land or site)Water conveyed by GIP, size 3/4"
PUMP DATA
Type Jet Size 1/2 H.P.Driven by Electric at 3450 RPMWell was first used _____, 1938
for _____ using _____
cfs-
gpmWell enlarged _____, 19__ to
deepened _____
(gpm)(cfs)(ft)LOG SHOULD BE GIVEN ON REVERSE
SIDE IF AVAILABLEWELL LOCATION
County Grand
SE 1/4 SW 1/4 Section 31
Twp. 4 N. Rge. 75 W., 6th PMWELL TO BE LOCATED AS ACCUR-
ATELY AS POSSIBLE WITHIN A
SMALL SQUARE WHICH REPRESENTS
40 ACRES; OR IF IN A TOWN OR
SUBDIVISION FILL IN THE FOLLOW-
ING:North Fork Colorado River Valley
Town or Subdivision
Rocky Mountain National Park
Street address or Lot and BlockThe above well (has) (has not) been registered in the Office of the State Engineer prior
to May 1, 1957. If Registered give Filing No. Not Registered.If NOT Registered prior to May 1, 1957, a \$5.00 filing fee accompanies this form.The above statements are true and correct to the best of my knowledge and belief.
Subscribed and Sworn before methis 28th day of December, 1961.My commission expires U.S. Code, Title 28, 637. Thomas E. Whitcraft, Acting
Registrant, Superintendent
Rocky Mountain National Park(SEAL) Wayne H. Hockett United States Commissioner
Notary Public

FOR STATE ENGINEER'S USE

Located in _____ district, _____ County for _____

Registration No. _____ in _____, on _____, 19__.

Form F (Rev.)
7-57/5MSTATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF THE STATE ENGINEER, GROUND WATER SECTIONN-921
REGISTRATION NO. _____ OF WELLNational Park Service
Registrant Rocky Mountain National Park Date Dec. 28 19 61
P.O. Box 1086P.O. Address Estes Park, Colorado, Colo.

WELL LOCATION

County GrandSW $\frac{1}{4}$, NW $\frac{1}{4}$, Section 31Twp. 4 N., Rge. 75 W., 6th PM

WELL DATA

Depth 24 ft. Diameter 36 in.

G. I.

Casing : 26 ft. Plain; 10 ft. Perfor.Static Water Level 16.2 ft. from top

Yield _____ (gpm)(cfs) from _____ ft.

Used for Domestic and Stock water on/atHarbison Ranch

(legal description of land or site)

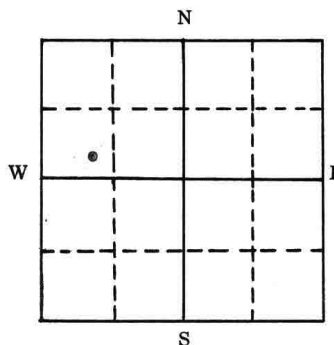
Water conveyed by _____, size _____

PUMP DATA

Type Hand-Cyl. Size _____Driven by Hand at _____ RPMWell was first used _____, 19 01for _____ using _____ cfs
gpm

Well enlarged _____, 19 _____ to

deepened _____ (gpm)(cfs)(ft)

LOG SHOULD BE GIVEN ON REVERSE
SIDE IF AVAILABLEWELL TO BE LOCATED AS ACCUR-
ATELY AS POSSIBLE WITHIN A
SMALL SQUARE WHICH REPRESENTS
40 ACRES; OR IF IN A TOWN OR
SUBDIVISION FILL IN THE FOLLOW-
ING:North Fork Colorado River Valley
Town or SubdivisionRocky Mountain National Park
Street address or Lot and Block

The above well (has) (has not) been registered in the Office of the State Engineer prior

to May 1, 1957. If Registered give Filing No. Not Registered.If NOT Registered prior to May 1, 1957, a \$5.00 filing fee accompanies this form.

The above statements are true and correct to the best of my knowledge and belief.

Subscribed and Sworn before me

this 28th day of December, 19 61.My commission expires U.S. Code, Title 28, 637. Thomas E. Whitcraft, Acting
Registrant, SuperintendentRocky Mountain National Park(SEAL) Wayne H. Hackett, United States Commissioner.Notary Public

FOR STATE ENGINEER'S USE

Located in _____ district, _____ County for _____

Registration No. _____ in _____, on _____, 19 _____.

Other Supporting Information

APPLICANT: NATIONAL PARK SERVICE
ROCKY MOUNTAIN REGIONAL OFFICE

WELL PERMIT NO. 147437

CONDITIONS OF APPROVAL, CONTINUED:

SUMPTIVE USE OF GROUND WATER SHALL NOT EXCEED 10 PERCENT.

- 7) A TOTALIZING FLOW METER MUST BE INSTALLED ON THE WELL AND MAINTAINED IN GOOD WORKING ORDER. PERMANENT RECORDS OF ALL DIVERSIONS MUST BE MAINTAINED BY THE WELL OWNER (RECORDED AT LEAST ANNUALLY) AND SUBMITTED TO THE DIVISION ENGINEER UPON REQUEST.

MM 4-7-87

ROCKY MOUNTAIN REGIONAL OFFICE
655 Parfet Street
P. O. Box 25287
Denver, Colorado 80225

L54 (RMR-MR)

FEB 4 1987

Mr. Reiner Haubold
Office of the Colorado
State Engineer
Division of Water Resources
1313 Sherman Street, Room 818
Denver, Colorado 80203

Dear Mr. Haubold:

Enclosed is a Permit Application form for a proposed well to be drilled near the Grand Lake entrance station in Rocky Mountain National Park. The well will be used to supply the sanitary waste requirement of the facility, which consists of one toilet and one wash basin. The well will be used throughout the year. However, the winter use will be very small compared to the heavy visitor use season. A total use of 0.25 acre-feet will be required to sustain the operation.

Also enclosed is a copy of a purchase order for the \$25 filing fee.

Please call Ron Hermance at (303) 236-8645 if you have any questions concerning this application.

Sincerely,

John M. Spurgeon

Acting Associate Regional Director, Park Operations
Rocky Mountain Region

Enclosures

cc:

Larry Reed, Rocky Mountain National Park w/c enc.

Stan Ponce, Water Resources Division, Fort Collins, Colorado
w/c enc.

bcc:

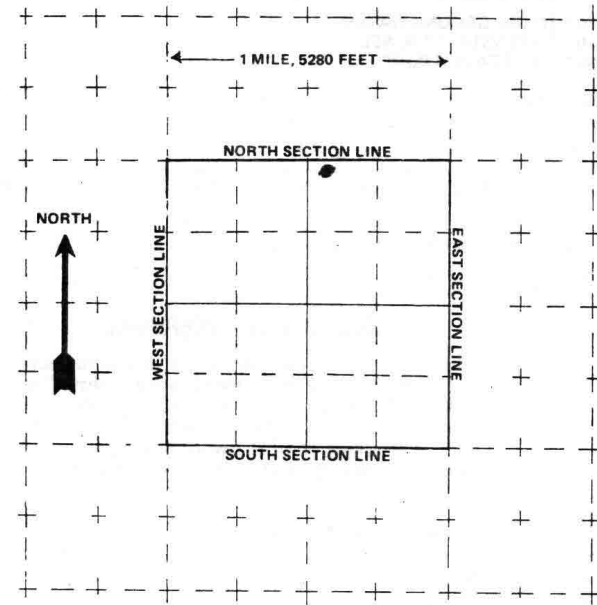
RMR-MR, File Copy w/enc.

RMR-MR, Hermance w/enc.

RHermance:llc:2/4/87:776-8645

I.D. _____ COUNTY _____

(5) **THE LOCATION OF THE PROPOSED WELL** and the area on which the water will be used must be indicated on the diagram below. Use the CENTER SECTION (1 section, 640 acres) for the well location.



The scale of the diagram is 2 inches = 1 mile
Each small square represents 40 acres.

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)
A family of 5 will require approximately 1 acre-foot of water per year.
1 acre-foot ... 43,560 cubic feet ... 325,900 gallons.
1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

(6) **THE WELL MUST BE LOCATED BELOW** by distances from section lines.

50 ft. from North sec. line
(north or south)
2600 ft. from East sec. line
(east or west)

LOT _____ BLOCK _____ FILING # _____

SUBDIVISION _____

(7) **TRACT ON WHICH WELL WILL BE LOCATED** Owner: U.S. Government

No. of acres _____ Will this be the only well on this tract? No

(8) **PROPOSED CASING PROGRAM**

Plain Casing

6 in. from 0 ft. to 60 ft.

_____ in. from _____ ft. to _____ ft.

Perforated casing

_____ in. from _____ ft. to _____ ft.

_____ in. from _____ ft. to _____ ft.

(9) **FOR REPLACEMENT WELLS** give distance and direction from old well and plans for plugging it:

(10) **LAND ON WHICH GROUND WATER WILL BE USED:**

Owner(s): Rocky Mountain National Park No. of acres: _____

Legal description: _____

(11) **DETAILED DESCRIPTION** of the use of ground water: Household use and domestic wells must indicate type of disposal system to be used. Entrance station office with 1 toilet and 1 wash basin. Up to 7 employees work from this office. Current water line to station from Kawuneeche Visitor Center well cannot be winterized. The 10,000 gallons is over and above current summer usage from Kawuneeche well.

(12) **OTHER WATER RIGHTS** used on this land, including wells. Give Registration and Water Court Case Numbers.

Type or right	Used for (purpose)	Description of land on which used
_____	_____	_____

(13) **THE APPLICANT(S) STATE(S) THAT THE INFORMATION SET FORTH HEREON IS TRUE TO THE BEST OF HIS KNOWLEDGE.**

Homer Rouse, Associate Regional Director, Park Operations, Rocky Mountain Region
SIGNATURE OF APPLICANT(S)

Use additional sheets of paper if more space is required.

NR: hermane PR

ORDER SUPPLIES OR SERVICES				PAGE 1	OF PAGES	
IMPORTANT: Mark all packages and papers with contract and/or order numbers.						
1. DATE OF ORDER Feb. 4, 1987		2. CONTRACT NO. (If any) GOV'T Agency		3. ORDER NO. PX 1200-7-0632		
4. REQUISITION/REFERENCE NO. MR-7-17						
5. ISSUING OFFICE (Address correspondence to) National Park Service RMR-AC 655 Parfet Street P. O. Box 25287 Denver, Colorado 80225		6. SHIP TO: (Consignee and address, ZIP Code) National Park Service 655 Parfet Street P. O. Box 25287 Denver, Colorado 80225				
7. TO: CONTRACTOR (Name, address and ZIP Code) STATE OF COLORADO Division of Water Resources 1313 Sherman Street, Room 818 Denver, Colorado 80203		8. SHIP VIA: best way				
		8. TYPE OF ORDER ☐ A. PURCHASE — Reference your _____ Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheets, if any, including delivery as indicated. This purchase is negotiated under authority of: ☒ B. DELIVERY — Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.				
9. ACCOUNTING AND APPROPRIATION DATA 1265-0001-189 N 2500 (36N)		10. REQUISITIONING OFFICE				
		11. BUSINESS CLASSIFICATION (Check appropriate box(es)) ☐ SMALL ☐ OTHER THAN SMALL ☐ DIS. ADVAN. TAGED ☐ WOMEN-OWNED				
12. F.O.B. POINT destination		14. GOVERNMENT B/L NO. N/A		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) to comply with state net guidelines		
13. PLACE OF INSPECTION AND ACCEPTANCE		16. DISCOUNT TERMS				
17. SCHEDULE (See reverse for Rejections)						
ITEM NO. (A)	SUPPLIES OR SERVICES (B)	QUANTITY ORDERED (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)	QUANTITY ACCEPTED (G)
1.	Application fee for water right permit in Rocky Mountain National Park (Well to be drilled near Grand Lake Entrance Station). AS PER ATTACHMENT.	1	ea	\$25.00	\$25.00	
18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(H). TOT. (Cont. pages)
21. MAIL INVOICE TO: (Include ZIP Code) National Park Service - RMR-AFP P. O. Box 25287, Denver, Colorado 80225				\$25.00		17(I). GRAND TOTAL
22. UNITED STATES OF AMERICA BY (Signature) 		23. NAME (Typed) Keith H. Warner (303) 236-4672 TITLE: CONTRACTING/ORDERING OFFICER				

NSN 7540-01-152-8083

50347-101

OPTIONAL FORM 347 (10-83)
Prescribed by GSA
FAR (48 CFR) 53.213(e)



UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
Rocky Mountain National Park
and

Shadow Mountain National Recreation Area
P. O. Box 1080, Estes Park, Colorado 80517



IN REPLY REFER TO:

L54

July 18, 1966

Memorandum

To: Chief, Land and Water Rights, SSC
From: Superintendent, Rocky Mountain
Subject: Water Rights Filings

Enclosed are four copies of each of the following water rights drawings which have been accepted for filing in the Office of the State Engineer of Colorado:

NP-RM 2681 Moraine Park Well No. 1 ✓
NP-RM 2760 Residence No. 10 Well, Grand Lake Entrance 250 ✓
NP-RM 2682 Aspenglen Campground Well ✓
NP-RM 2683 Lower Hidden Valley Well ✓
NP-RM 2759 Hellowell Park Well ✓
NP-RM 2662 Moraine Park Well, Buildings 415 and 416 ✓
NP-RM 2668 Deer Ridge Well ✓

Two copies of each of these prints have been sent to the Chief of Water Resources, WASO; one copy has been filed in our water rights dockets; and one copy will be filed with the County Clerk of the county in which the water system is located in compliance with Colorado State law.

Will you please advise us of the correct distribution of such drawings after they have been accepted for filing?

Irvin G. Marsh
Superintendent

Enclosures

THE HARRISON RANCH WELL

During the existence of the Harrison Ranch, it is understood that they obtained their water supply from a dug well (approximately 25' to 35' depth) which has not been in use since the Federal Government acquired the Harrison Ranch and buildings; the buildings have become unoccupied and will be removed. Specific construction data and yield of water from this well has not been obtained due to it being a source of surface water. There is no map showing the location of this well. Its abandonment and obliteration as a source of supply, may in the near future, render it of no consequence.

Hydraulic Engineer
Midwest Regional Office

154
MR (OL)

JUN 22 1964

W O D C
JUN 25 1964

3	ADM
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	P & P
	ARCH
	L.A.
	SPEC
	CONT
	SFTV
12	SECTION TAKEN - DATE

Handwritten: 3, 12, 6-27-64, nom

Memorandum

Docket #47

To: The Director

From: Associate Regional Director, Midwest Region

Subject: Composite Listing of Water Right Docket Outline of Assemblies, Rocky Mountain National Park, Colorado

This office has prepared a composite listing of the outline of assemblies of water docket received from the Area and your Office, which shows the comparative contents of water right docket in each office.

To provide identical contents for each water right docket, it will be necessary to provide many copies of data which are missing from one or the other docket files.

Some of the documents, as shown in the individual outline of assemblies are difficult to identify and some of the items may refer to the same document. In other words, a particular document may be listed in the outline of assembly a little differently by the area, the Regional Office, and your Office.

It appears that each office should review the composite outline of assemblies and provide copies for the files of the other offices which do not list the document. A program of funds to cover these costs should be set up in our annual schedule of projects under M&P Accounts.

We shall appreciate your consideration of this project and suggestions regarding its accomplishment.

(Sgd) George F. Bagley

In duplicate

Associate Regional Director

Enclosures

cc:

Chief, WODC (2), w/c of enclosures
Superintendent, Rocky Mountain, w/c enclosures

ROCKY MOUNTAIN NATIONAL PARK		Page XIII		
DOCKET NO.	USGS	AREA	MRO	USGS
46 (Cont'd)				
13. Letter from Eighth Judicial District to each Attorney in the case, with attachments, Nov. 8, 1939 by Judge Coffin			x	x
14. Attorney Allen's transmittal of Letter from Eighth Judicial District, 11/9/39			x	x
15. DECREE of November 14, 1939			x	x
<u>FEDERAL ACQUISITION</u>				
16. Quit Claim Deed of Aug. 29, 1957 with Acceptance of Aug. 30, 1957			x	x
17. Baldwin Ditch Deed of June 2, 1958 with Acceptance			x	x
47 <u>HARRISON MEADOWS - GRAND LAKE ENTRANCE</u> <u>WATER WELL</u>				
1. Statement of Water Analysis by USGS, Lab. No. 4330			x	x
2. Letter of Sept. 21, 1961 by Donald L. Coffin, USGS, submitting Item 1 above			x	x
3. Approved Application 9523, Aug. 18, 1961 for use of ground water			x	x
4. Log and History of Well - Permit No. 9523			x	x
5. Memo of Nov. 7, 1961 by Supt. Hanks, transmitting Items 3 & 4 above			x	x
NOTE: 1. See Drawing NP-RM 6955 in Pocket 23 for location of well in relation to Harrison Ditch				x
2. USGS Report, "Prospects for Obtaining a Ground Water Supply at 3 sites in Rocky Mountain N.P. & Shadow Mountain N.R.A., Colorado," indicates that the Grand Lake Entrance Well penetrates the terrace deposits of the North Fork of the Colorado River and				

Page XIV

FEDERAL WATER RIGHT DOCKETS - ROCKY MOUNTAIN NATIONAL PARK									
DOCKET NO.	ITEMS	AREA	MRO	WASO	DOCKET NO.	ITEMS	AREA	MRO	WASO
47 (Cont'd)	is not affected by Harbinson Ditch. See page from the memo by Howard W. Baker, June 15, 1962 6. Map, Drawing MP-RM 25:49 - Filing 22168		x	x					
48	<u>STEADS SPRINGS 1 & 2</u> 1. Map with Statement - Stead Pipe Lines 1 & 2, Steads Ditch, Filing 16602 2. Steads Pipe Lines 1 & 2 (4 pages) 3. Steads Ditch (2 pages) 4. Warranty Deed with Reception No. 827286, with Exhibit A attached 5. Correctional Deed, Reception No. 840500, of May 6, 1963 6. Water Analyses by USGS - Old Spring - Stead's Ranch		x	x					
49	<u>SCHUBERT SPRINGS & PIPE LINES 1, 2 AND 3 - TRACT NO. 166 - FORMERLY ALIEN WATER RIGHT NO. 4</u> <u>SPRINGS 1, 2 AND 3</u> 1. Filing No. 16609 2. Decree (Schubert Springs and Pipe Lines 1, 2 and 3) 3. Form HPS-L-3 (Tract Record and Valuation Data of Land to be Acquired) <u>WATER WELL SUPPLY PERMIT NO. 14035</u> 4. Permit No. 14035 (Form D (Rev.)) 5. Outline of Assembly for Alien Water Right No. 4 6. Memo of Jan. 31, 1963 from Supt., to Regional Director with copies of Well Permit No. 14035, Deer Ridge 7. Memo of April 30, 1963 from Supt., to Regional Director with drawing enclosed <u>NO FEDERAL WATER RIGHT DOCKET NO. 50</u>		x	x					

LSA:RLW

Docket #47

Memorandum

To: The Director

From: Acting Assistant Regional Director, Midwest Region

Subject: Water Right Filing Maps Application Nos. 22168 and 22169,
Rocky Mountain National Park and Shadow Mountain National
Recreation Area *NR*

Enclosed are copies of subject maps, pertaining to Grand Lake Entrance Station and Sunset Point Well #2. The Sunset Point Well #1, was abandoned.

We are also enclosing a copy of water analysis of Grand Lake Entrance Station Well #1, Barbison Meadows, Lab No. 4330.

We are placing Application Map No. 22168 at the bottom of Docket No. 47 Grand Lake Entrance Station Water Well, Rocky Mountain, and the water analysis (Lab No. 4330) just above the map. Application Map No. 22169 is being placed at the bottom of Part II - Well No. 2, Docket No. 1, Shadow Mountain National Recreation Area.

Acting Assistant Regional Director D C

In duplicate

Enclosures

cc:
 Superintendent, Rocky Mountain
 Chief, WDC, (2), w/enclosures

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ACTION TAKEN - DATE	

Rocky
 1-29-64 3 *Shade*

154

MAY 8 1962

Memorandum

To: Superintendent, Rocky Mountain

From: Acting Regional Chief of Operations

Subject: Harbison Meadows - Grand Lake Entrance Water Well,
Docket No. 47, Rocky Mountain National Park

The information you submitted to this office in your November 7, 1961, memorandum on subject well has been assembled into docket folders, and distribution is being made to the Washington Office and to WDC by copy of this memorandum.

We have assigned number 47 to this new docket as it is the next consecutive number following the number of the last docket filed for Rocky Mountain.

[Sgd] L. R. Brown

Leroy R. Brown
Acting Regional Chief of Operations

Enclosure - folder w/index

Copy to: The Director (2), w/complete docket
Chief, WDC (2), w/complete docket

O B C	MAY 11 '62	CHF	ADM	PERS	P & P	ARCH	L. A.	SPEC	CONT	STY

last

Harbison 47
WDC
STY
file

WDC
Rocky



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Rocky Mountain National Park
and
Shadow Mountain National Recreation Area
P. O. Box 1086, Estes Park, Colorado

November 7, 1961

IN REPLY REFER TO:

154

Reg. Director	
Asst. Reg. Director	
Chf. Div. of Admin.	
Chf. Div. of Engrg.	
Chf. Div. of Geol.	
Chf. Div. of Insp.	
Chf. Div. of Lands	
Chf. Div. of Rec.	
Chf. Div. of Safety	
Chf. Div. of Training	
Chf. Div. of Wildlife	
Chf. Div. of Water	
Chf. Div. of Forest	
Chf. Div. of Fish	
Chf. Div. of Game	
Chf. Div. of Park	
Chf. Div. of Public	
Chf. Div. of Recreation	
Chf. Div. of Transportation	
Chf. Div. of Utilities	
Chf. Div. of Maintenance	
Chf. Div. of Construction	
Chf. Div. of Planning	
Chf. Div. of Research	
Chf. Div. of Statistics	
Chf. Div. of Training	
Chf. Div. of Public	
Chf. Div. of Recreation	
Chf. Div. of Transportation	
Chf. Div. of Utilities	
Chf. Div. of Maintenance	
Chf. Div. of Construction	
Chf. Div. of Planning	
Chf. Div. of Research	
Chf. Div. of Statistics	

Memorandum

To: Regional Director, Region Two

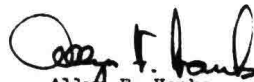
From: Superintendent

Subject: Log and History of Water Wells, Permits No. 9523, 9524
and 9525, Filed with Ground Water Section, Colorado State
Engineer's Office

Attached are three copies each of the Log and History of Sunset
Point Campgrounds Water Well No. 2, Permit No. 9525; of Stillwater
Campgrounds Water Well No. 2, Permit No. 9524; and of the Harbison
Meadows-Grand Lake Entrance Water Well, Permit No. 9523; as filed
with the Ground Water Section in the Office of the State Engineer
of Colorado.

Also attached is one marfax copy of each of the original Applications
For Use Of Ground Water, Permits 9523, 9524 and 9525, filed in the
Ground Water Section of the State Engineer of Colorado Office.

We have prepared Water Right Docket assembly folders for each of
the three water wells.


Allan F. Hanks
Superintendent

In duplicate

Attachments

SEARCHED	INDEXED
SERIALIZED	FILED
NOV 10 1961	
FBI - DENVER	



MTN. NATL. PARK

UNITED STATES
DEPARTMENT OF THE INTERIOR

REGIONAL SURVEY

September 21, 1961

IN REPLY REFER TO
Ground Water Branch

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11	
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18	
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Mr. R. C. Haraden, Park Engineer
Rocky Mountain National Park
P. O. Box 1086
Estes Park, Colorado

Dear Bob:

Enclosed are the statements of water analyses for the water samples collected from the three wells drilled near Grand Lake last spring. The water from the wells at Stillwater campground and Harbison meadow is of very good to excellent chemical quality and definitely below the limits recommended by the U. S. Public Health Service for drinking water used on interstate carriers.

The water from the well at Sunset Point is relatively low in dissolved solids, however, the fluoride and silica contents are relatively high. The silica content does not make the water unsuitable for drinking and should pose no problem for the use the water is intended. The fluoride content of 3.2 ppm (parts per million) is above the recommended limit of 1.5 ppm. For a more detailed discussion of the effects that concentrations of fluoride over 1.5 ppm may have, you may look on page 7 of "Prospects for obtaining a Ground-Water Supply at Three Sites in Rocky Mountain National Park and Shadow Mountain National Recreation Area, Colorado." This discussion may help you make a decision as to the type of installation for a water supply that should be constructed at Sunset Point.

Sincerely yours,

Donald L. Coffin
Donald L. Coffin
For the District Engineer

Enclosure 3

Reg. Two

900 443457



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Rocky Mountain National Park
and
Shadow Mountain National Recreation Area
P. O. Box 1086, Estes Park, Colorado

IN REPLY REFER TO:

L54

November 7, 1961

Reg. Director
Asst. Reg. Director
Chf. of Admin.
Chf. of Engr.
Chf. of Insp.
Chf. of Int. Aff.
Chf. of Lab.
Chf. of Rec. Mgmt.
Chf. of Safety
Chf. of Training
Chf. of Util. & Engr.
Chf. of Wildl. Mgmt.
Chf. of Zoning & Planning

Memorandum

To: Regional Director, Region Two

From: Superintendent

Subject: Log and History of Water Wells, Permits No. 9523, 9524
and 9525, Filed with Ground Water Section, Colorado State
Engineer's Office

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Campgrounds Water Well No. 2, Permit No. 9524; and of the Harbison
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Ground Water Section of the State Engineer of Colorado Office.

We have prepared Water Right Docket assembly folders for each of
the three water wells.


Allyn F. Hanks
Superintendent

In duplicate

Attachments

DATE



MTN. NATL. PARK

UNITED STATES
DEPARTMENT OF THE INTERIOR

September 21, 1961

IN REPLY REFER TO
Ground Water Branch

Mr. R. C. Haraden, Park Engineer
Rocky Mountain National Park
P. O. Box 1086
Estes Park, Colorado

Dear Bob:

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Sincerely yours,

Donald L. Coffin
For the District Engineer
Donald L. Coffin
For the District Engineer

Enclosures 3

WDC

Drilled well P/C: End of Discharge pipe

Location NW Grand Lake, Grand County, Colo. Harrison marsh
S E 1/4 131 N 101 W Sec 31 T 4 R 75 W Field Office No. 14-75-31 b6da

Date Col. 2/4/61 Time

Col. By Don Coffin
Field data: Temp. (°F) 43 pH

Sp. Cond. (unobs) _____ Eh _____
 Appearance Contains rust from old casing
otherwise clear.

Remarks: Pld. Cond = 100 ru/cm
Pld. Iron = 1.0 ± PPM

Well Type Drilled Use PA

Depth (ft.) 69 Coded to 72

Diagn. (in.) 6 Date drilled 6/25/61

Water level (ft.) 16.0 below h.s.

Discharge 12 GPM pump near
W. B. F. Terrace deposits, Glacial till
from 15 to 70

Owner Nat'l. Park Service, Estes Park
Colo.

Chemical components		Physical characteristics and computed values	
	ppm		
Silica (SiO ₂)	19	Dissolved Solids (ppm)	
Aluminum (Al)	1	Res. on evap. at 180°C	82
Iron (Fe)	.26	Calculated	69
Manganese (Mn)	.2	Suspended solids (ppm)	
Calcium (Ca)	9.6	Hardness as CaCO ₃ (ppm)	
Magnesium (Mg)	2.4	Total	34
Strontium (Sr)		Non-carbonate	0
Sodium (Na)	4.4	Specific conductance	
Potassium (K)	1.8	(micro at 25°C)	22
		pH	6.8
		Color	0

Cations (open)		.0.913	
Bicarbonate (HCO_3)	52		.852
Carbonate (CO_3)	0		
Sulfate (SO_4)	4.0		0.083
Chloride (Cl)	1.0		0.025
Fluoride (F)	2		0.011
Nitrate (NO_3)	4		0.006
Phosphate (PO_4)	.06		
Anions (open)		0.980	

Radiochemical data	
Alpha activity (pc/l)	as of
Beta activity (pc/l)	as of
Radium (Ra) (pc/l)	
Uranium (U) (ug/l)	

Lab No. 4336 Analysis JCL

Date Checked 9/12/61

GW - 1

GPO 342989



IN REPLY REFER TO:

L-54

UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
Region Two Office
307 Federal Office Building
106 South 15th Street
Omaha 2, Nebraska

MAY 4 1961

CHF	ADM	PERS	P & P	ARCH	ENGR	SPEC	CONT	SFTY
ACTION TAKEN - DATE								

Handwritten notes and signatures are present on the routing slip, including "L-54", "MAY 4 1961", and various initials and names.

Memorandum

To: Chief, Western Office, Division of Design and Construction

From: Acting Regional Chief of Operations, Region Two

Subject: Well Site for Domestic Water Supply, Harbison Ranch Area,
Grand Lake Entrance, Rocky Mountain National Park

Mr. Richard T. Montgomery's comments in his memorandum of April 25 to this office, suggests a sequence of investigations to locate a supply of water for the Grand Lake Entrance area.

The U. S. Geological Survey Report, by Don Coffin, states the Harbison well, during a 4-hour well performance test, produced only one gpm and the springs S1, S2, S3 produced on October 5, 1960, a combined flow of 40 gpm. This comparison of yield leads us to believe that the two sources of supply are not too closely inter-connected.

Mr. Mott plans to be in Rocky Mountain National Park May 5 and will discuss the test-well drilling with the Park Engineer for the purpose of arriving at a course of procedure.

John F. Aiton
John F. Aiton
Acting Regional Chief of Operations

In duplicate

Copy to: Superintendent, Rocky Mountain National Park

mp

APR 28 1961

W 2 D C
NOV - 1961

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Handwritten: 11/17/61, [Signature], [Signature], [Signature], [Signature], [Signature]

Stamp: NOV 1961

Text: More

work order
filed in
D-22

Subject: Work Order RONO 1-WR-61, dated April 25, 1961; Water Supply Investigations, Grand Lake Area, Rocky Mountain National Park and Shadow Mountain National Recreation Area

Attached is your work order authorization, ROMO 1-WR-61, dated April 25, 1961, for funds to cover the test well drilling in Grand Lake Entrance Station area and at Sunset Point in Shadow Mountain National Recreation area.

imp

We are awaiting your estimates of costs for the test well drilling in the three areas; (1) Grand Lake Entrance Station, (2) Granby Lake Ranger Station and (3) Cutthroat Bay.

Mr. Mott is tentatively planning a trip to Dinosaur National Monument, within the next two weeks, and in event of such a trip he would like to stop in your area to discuss the programming of your water resources activities.

(Sgd) John F. Aiton

~~(Sgd) John F. Aiton~~

John F. Aiton
Acting Regional Chief of Operations

In duplicate

Attachment (in duplicate)

Copy to: Chief, WODC (2), w/attachment (in duplicate)

154

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ACTION TAKEN - DATE

11/22/2011

~~Wright~~

mp

mp

We see no reason why the U. S. Geological Survey report could not be placed on open file status as requested.

SIGNED

E. C. Harnden
Acting Superintendent

In duplicate

Copy to: Chief, WDC (2)

Memo to Chief, Office of Land & Water Rights, S.S.C.
 Attn: Mr. Morris
 From: Chief Beffell
 Subject: Maps of well locations filed
 with State Engineer, Rocky Mountain
 of a ^{transmittal memorandum dated July 18 and} ~~copies of~~ ^{drawings}
 we have received, seven ~~maps~~
 in duplicate from the Superintendent,
 Rocky Mountain National Park, which
 have been accepted for filing in
 the Office of the State Engineer.

However, in attempting to file these
 maps in the proper docket, we
 have some difficulties in determining
 which goes where, and have made
 temporary filings as follows:

NP-RM 2760 - Residence No 10 Wells
Grand Lake Entrance - We have
 filed this in Docket 47 on the
 assumption that this is the ~~abandoned~~
 "Old Grand Lake Entrance
 Ranger Station Well (Abandoned)" where
 the outline of the assembly
 is Part I of Docket 47. The outline
 of the assembly of the docket
 is as follows:

copy DTD
Dec 28, 1961

under Part II lists ^{Copy, Registrars} No. N-928 of Old Grand Lake Entrance Ranger Quarters from State Engineer, State of Colorado, dated December 28, 1961. but unfortunately the docket itself does not contain such an item.

~~Moraine~~
NP 2681 - Moraine Pub. Well No 1 - This has been placed in Docket 3, Part III. The drawing checks the information in application No 4019, approved July 30, 1959. One minor difference was noted. Drawing NP 2681 states that the well was started and completed in November 1959 whereas the Log and History of Well gives a starting date of July 27, 1959 for the well and the narrative statement of the completion report on Work Order B-5 gives a completion date of December, 1959 for the system.

2646
1320

NP-RM 2682 Aspen Glen Campground Well
This has been filed in Docket 26.
and The drawing checks the information
in application No 1429 approved June
27, 1958 and the "Log and History
of Well"

NP-RM 2683 Lower Hidden Valley Well -
This has been filed in a new temporary
docket.

NP-RM 2759 - Hallows Park Well - Filed
in Docket 6. The drawing checks the
information in ~~application~~ "Log
and History of Well". Permit No 23819,
and presumably corresponds to the
"Application for a Permit to Construct a well"
copy of which was sent to this office
by a memorandum dated March 2
1965, but no approval by the State
is shown. This is the Soborps Camp
well.

NP-RM 2662 Moraine Park Well, Buildings
415 and 416 - This has been
filed in a temporary docket. Perhaps
it belongs in Docket 3 but we

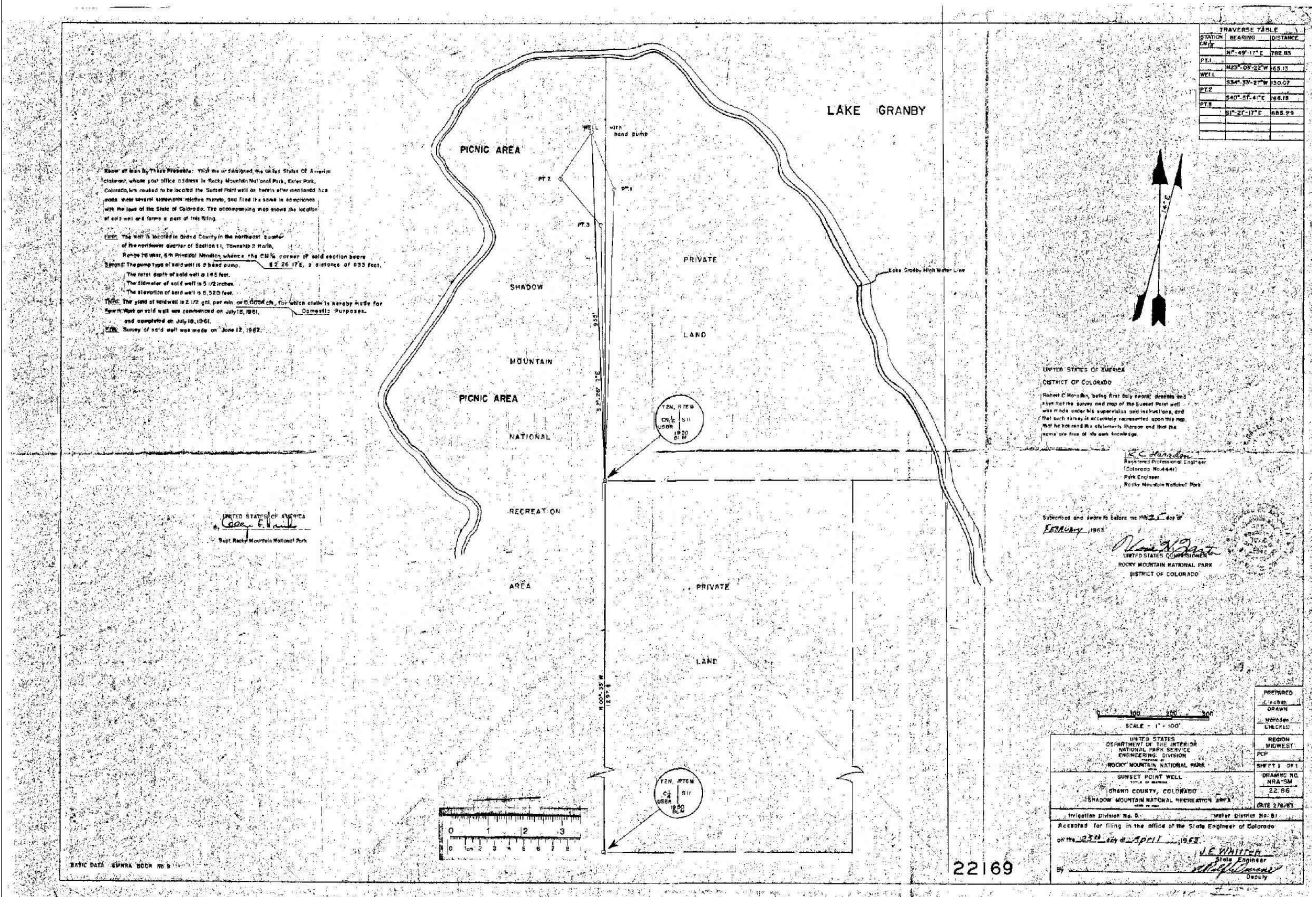
have no information as to whether it is part of that water system.

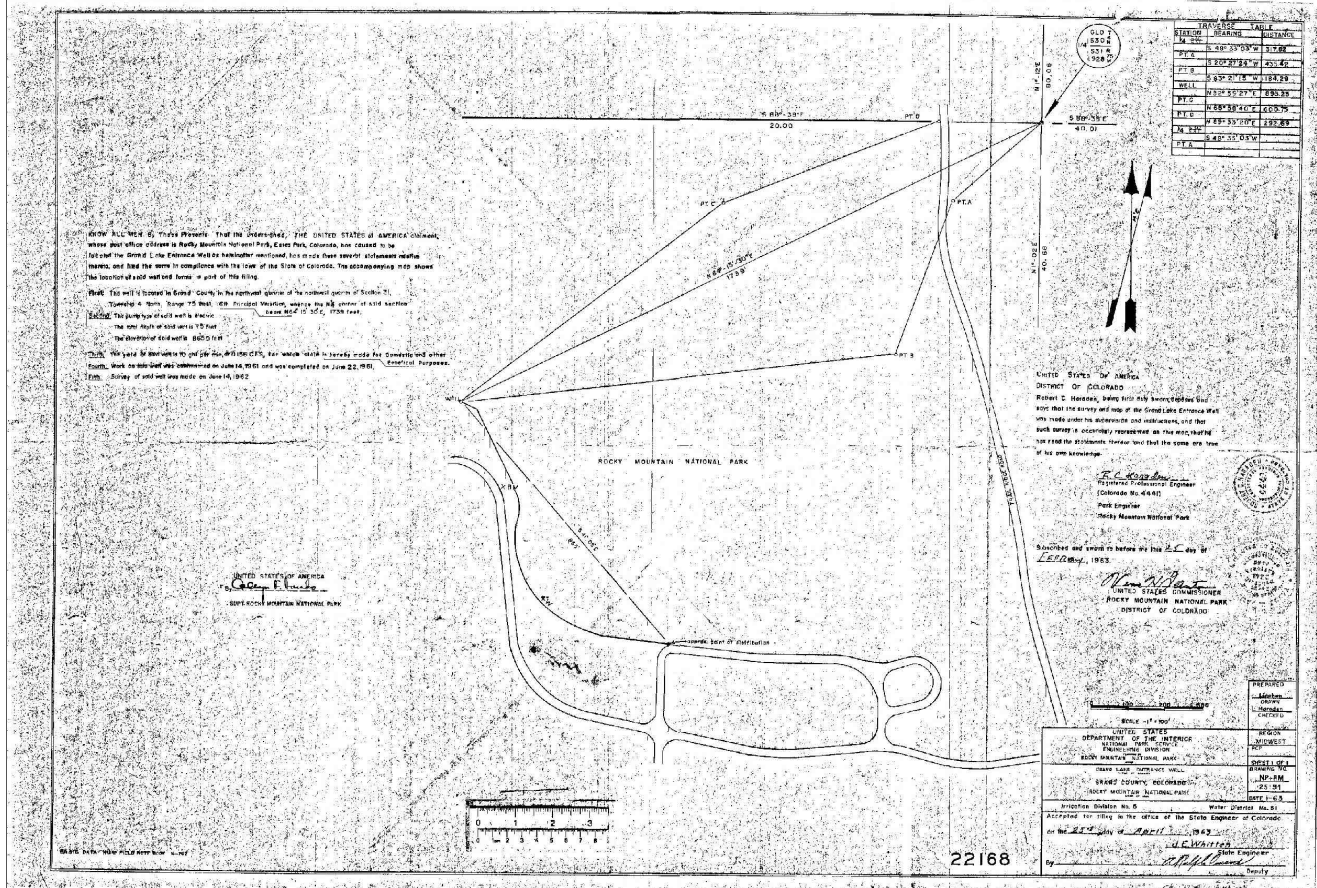
NP-RM 2668 Deer Ridge Well - This has been filed in a temporary docket also.

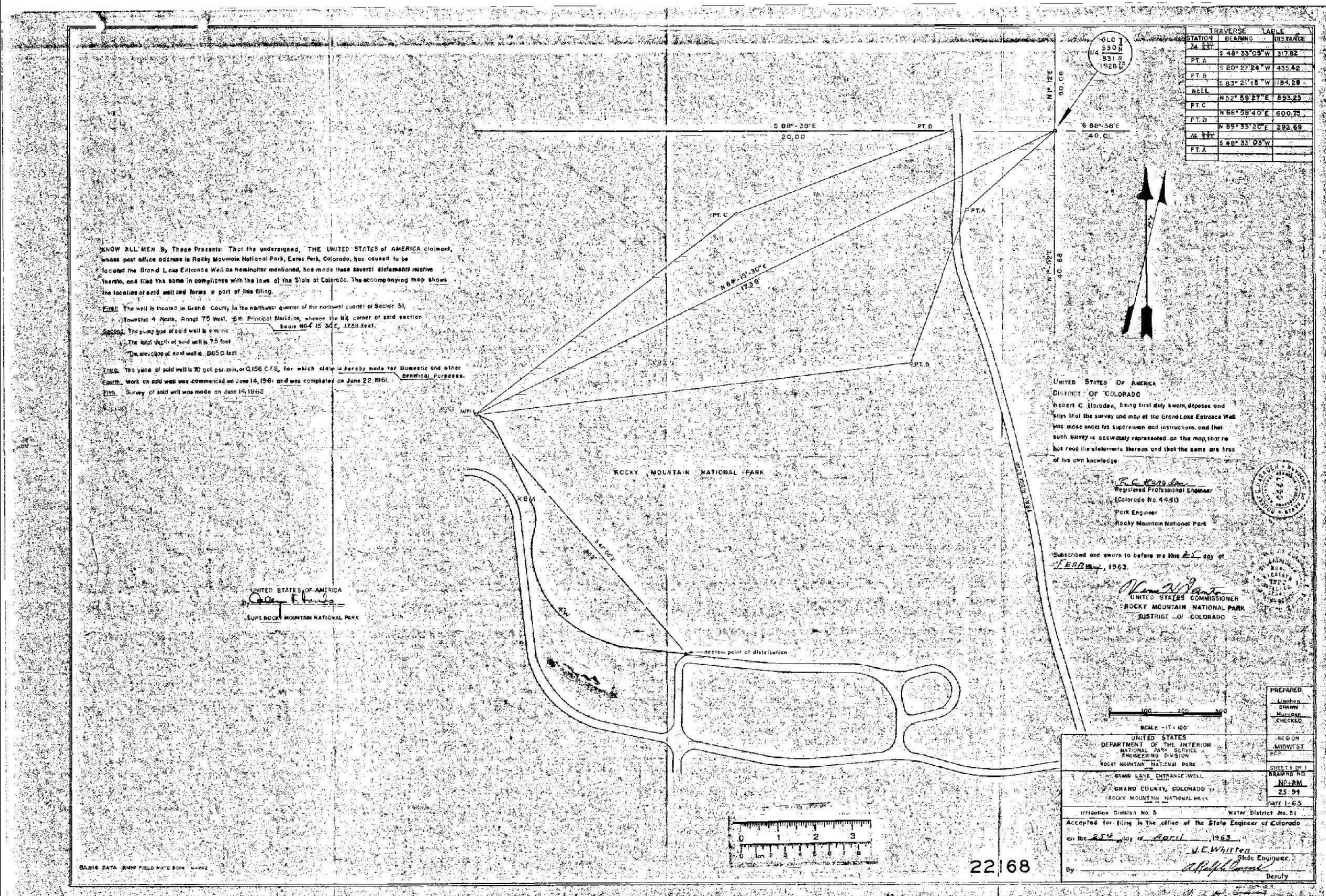
Inasmuch as you and the Park are working on the dockets, ~~the~~ no ~~attempt~~ attempt ~~it~~ was made to check.

The above described ~~filing~~ operation was made only to avoid having the drawings remain unfiled. In doing this, however, some question as to the proper docketing arose, principally as to whether each docket was based on a single water system. But inasmuch as both you and the park are working on getting these dockets in order, this was not pursued further. Nevertheless if there are any obvious misfilings of these drawings, please let us know.

C. W. Reed









WELL LOG

From (test)	To (test)	Type of Material
D	D0	Fine to coarse sand & fine to medium gravel
D0	D4	Medium to very coarse sand.
D4	D1	Silty, clayey sand.

STATION	IMPERIAL	SCALE
MAVERICK	BEARING	DISTANCE
WELL	N 87° 25' E	25.53
A	N 30° 26' E	393.73
C	N 30° 26' E	180.32
E	N 0° 30' E	518.7
F	N 0° 34' E	1021.7
F	N 0° 24' W	3.02 004
F	N 0° 42' W	113.7
M	S 10° 12' E	780.78
N	S 00° 02' E	3480.24
N	S 04° 15' E	419.23
N	S 27° 02' W	912.74
WELL		
IMPERIAL		
F	N 87° 12' W	602.26
G	N 82° 00' E	80.82
H	S 85° 44' E	20.36
I	N 68° 00' E	471.4
N 33° 10' E		
74.19		
R. JON. R. JON.		
	S 00° 00' W	187.53
	S 0° 30' W	88.55
	S 33° 00' W	50.74
	S 00° 00' E	126.74

THE UNITED STATES OF AMERICA
By _____
Supt. Rocky Mountain National Park

THE UNITED STATES OF AMERICA
DISTRICT OF COLORADO

Robert C. Hardear, being first duly sworn, deposes and says that the survey and map of the Horlick Meadow Campground Well was made under his supervision and direction, and that such survey is accurately represented on this map, that he has read the statements therein, and that the same are true of his knowledge.

Subscribed and sworn before me this 2nd day of
April, 1964

Registered Professional Engineer
[Colorado No. 4448]
Park Engineer
Rocky Mountain National Park

UNITED STATES COMMISSIONER
ROCKY MOUNTAIN NATIONAL PARK
DISTRICT OF COLORADO

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE ENGINEERING DIVISION HOCHY MOUNTAIN NATIONAL PARK	REGION WEST SHEET OF
HARBORN MEADOW CAMPGROUND WELL GRAND COUNTY COLORADO HOCHY MOUNTAIN NATIONAL PARK	DRAWING NO. NS-PM 2580 DATE 5-1-56
IRRIGATION DIVISION NO. 6 WATER DISTRICT NO. 34	
ACCEPTED FOR FILING IN THE OFFICE OF THE STATE ENGINEER OF COLORADO ON THE 20 TH DAY OF March 1956 J. F. Winter STATE ENGINEER	
BY <i>John E. [Signature]</i> COUNTY	

BASIC DATA: FIELD SURVEY NOTES IN BOOK BHP N-200

