



WATER-RIGHT DOCKET

Grand Teton National Park

Docket No: 61

HALF MOON PIPE LINE TAGGART CREEK

Preliminary Docket Information

00-00-0000: water right docket: beaver creek ditch; index

Water Right Docket No. 2
Beaver Creek Ditch

INDEX

1. General Water Use Plan, NP-GT 2174, Sheet #4.

Part I - Permit 12193

1. File Map.
2. Copy of application.
3. Copy of letter of Jan. 5, 1914, from State Engineer to Dept. of Agriculture
4. Copy of letter of Jan. 16, 1914, from State Engineer to Forest Supervisor, with certificate of completion at bottom.
5. Copy of letter of Nov. 4, 1915, from State Engineer to Forest Supervisor, acknowledging completion of construction.
6. Copy of letter of Aug. 10, 1920, from Supt., Water Division, to Dept. of Agriculture, advising of date and place for final proof.
7. Copy of certificate of water right.
8. Letter of Dec. 20, 1940, from Acting Regional Forester to Supt. of Park, transmitting certificate of appropriation.

See
Related
Dockets

Part II - Permit 4535 - Enlargement - Cancelled

1. File Map.
2. Permit No. 4535.
3. Copy of permit of Aug. 26, 1947, from Jackson Hole Preserve, Inc., to Miss Anita Tarbell, to authorize use of Federal land in Section 13 and 24.
4. Copy of permit of Dec. 9, 1948, from Jackson Hole Preserve, Inc., to Miss Anita Tarbell, to authorize use of land in Section 14.
5. Copy of letter of Sept. 24, 1949, from Jackson Hole Preserve, Inc., to Miss Anita Tarbell, to extend life of said permits.

Part III - Permit 19082

1. File map.
2. Certificate No. 57-366.

Proof No. **26393**

Certificate Record No. 65, Page 305

NOW KNOW YE, That the State Board of Control, under the provisions of the Statutes of Wyoming, has, by an order duly made and entered on the 14th day of July, A. D. 1980, in Order Record No. 14, Page 282, determined and established the priority and amount of such appropriation as follows:

Date of Appropriation August 23, 1954 *and c.f.s.*; Total Acreage None;

TWP	RANGE	SEC	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	TOTAL
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[illegible]

THE HILL COMPANY, SHERIDAN 84037

COPY

STATE OF WYOMING
State Engineer's Office
Cheyenne

January 4, 1956

Mr. A. van V. Dunn,
Chief, Water Resources Section,
National Park Service,
Washington 25, D.C.

Re: L3031-L
Grand Teton National Park

Dear Mr. Dunn:

Receipt is acknowledged of your letter of December 12, 1955, with enclosure of your working drawing No. 6950, copy of map filed with Permit No. 21490, and purchase order and voucher for copies of certain written applications and Permit No. 21490.

The written application for permit, when approved, becomes the permit and is returned to the applicant. The office copy of the Permit shows all information contained in the original application. We are therefore furnishing you photostat copy of Permit No. 21490 with voucher for \$1.90, the charge for this, and the pink copy of the requisition. We are unable to furnish copies of the written applications for Permits Nos. 17306, 20007, and 21490 other than you now have.

The Goss Ditch, Permit No. 17306 and the South Elbo Ditch, Permit No. 20007 have been treated as direct conduits from Taggart Creek, since they were shown that way and not as laterals of the Woodland Ditch. From your drawing, it appears that the point of diversion may at some time have been changed to the Woodland Ditch, but no record of such change was made in this office.

Notices of commencement and completion, and completion of beneficial use of water, under these two permits have been received, but the rights are not adjudicated. In order to secure final certificate of appropriation, final proof should be submitted either before the State Engineer or the Superintendent of Water Division No. 4, Mr. Emil C. Gradert of Fort Bridger, Wyoming. Your department could no doubt authorize someone to submit this final proof.

With reference to Permit No. 21490, as issued for the Half Moon Supply Ditch, it was considered by this office as a separate ditch. If it proposed use through an existing ditch, it should have been filed and shown as an enlargement application.

We cannot now defer action to license these rights, as you request, since the permit was approved and granted under date of January 3, 1955. Notices have been received that work was commenced on May 19, 1955, completed on June 15, 1955, and beneficial use of water was completed on July 5, 1955. It would, of course, be necessary for Miss Tarbell to secure a right-of-way from the Park Service, if the ditch crossed their lands. It would appear better if she could use the Woodland Ditch and Goss lateral for this purpose instead of a parallel conduit, and amend her permit accordingly.

Yours very truly

/s/ Earl Lloyd, Deputy State Engineer

REG. DIRECTOR
ASST. REG. DIRECTOR
CH. DIV. OF WATERS
CH. DIV. OF RECREATION
CH. DIV. OF INTERIOR
CH. DIV. OF CULP. ACT.
FIELD SOLICITOR
ACTION TAKEN
FILE

C. C. MAILED TO:
By:
Date:

on June 1, 1954 PERMIT NO. 1119
 Notice of Completion Received July 1, 1954 PS Proof Submitted

APPLICATION FOR A PERMIT TO DIVERT AND APPROPRIATE THE WATER OF THE STATE OF WYOMING

Water Division No. 1 District No. 10

1. The Halfmoon Ranch, Inc. - Anita Tarbell, Treasurer of Moose
 County of Teton, State of Wyoming, being duly sworn according to law, upon my oath say:

1. The name of the applicant The Halfmoon Ranch, Inc.

2. The postoffice address of the applicant Moose, Wyoming.

3. The use to which the water is to be applied is Domestic and Stock as Supplemental supply for the Half Moon Pipe Line with original supply under Permit No. 19082.

4. The name of the ditch, canal, pipe line or other facility is Halfmoon Supply ditch.

5. The source of the proposed appropriation is Taggart Creek, tributary to Cottonwood Creek, which is a tributary of Snake River.

6. The point of diversion of the proposed works is located S. 73°20' E. 2843 feet distant from the NE corner of Section 14 T. 43 N., R. 116 W., and is in the NE 1/4 of Section 14 T. 43 N., R. 116 W.

7. The said ditch, canal, pipe line or other facility is to be 0.5 miles long.

8. The carrying capacity of the ditch, canal, pipe line or other facility at the point of diversion is 1.5 cu. ft. per sec.

9. (a) The nature of the material to be moved is none.

(b) Number, length and size of tunnels none.

(c) Number, length and size of flumes none.

10. The estimated cost of said works is \$100 Dollars.

11. Construction work will begin within one year from date of approval of this application.

12. The time required for the completion of the works is 1 year from December 31st, 19 54.

13. The time required to complete the application of water to the beneficial uses stated in this application is 1 year from December 31st, 19 54.

14. The accompanying map is prepared in accordance with the Manual of Regulations and Instructions for Filing Applications in the State Engineer's Office and is hereby declared a part of this application.

15. The land to be irrigated is described in the following tabulation:

(Give irrigable acreage in each 40 acre subdivision. Designate ownership of land, Government, State or Private. If Private, give names of owners.)

TOWNSHIP	RANGE	SEC.	NE 1/4	NW 1/4	SW 1/4	SE 1/4	TOTAL
SEC.	SW 1/4	NW 1/4	SW 1/4	SW 1/4	SW 1/4	SW 1/4	SW 1/4
43N, 116W	14				Point of Use	X	

Total Number of Acres to be Irrigated

THE STATE OF WYOMING,)
) SS.
 County of Teton)

(Signed) Anita Tarbell, Treasurer
 For Half Moon Ranch, Inc.

I hereby certify that the foregoing application was signed in my presence and sworn to before me by Anita Tarbell this 22nd day of October, 1954.

(S. M.)

My Commission Expires Oct. 1, 1955

Cora A. Hays
 Notary Public

THE STATE OF WYOMING, }
State Engineer's Office, } SS.

This is to Certify that I have examined the foregoing application and do hereby grant the same subject to the following limitations and conditions:

This permit grants only the right to use the surplus water of the stream when all prior rights are satisfied.

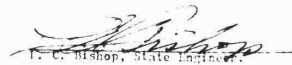
Construction of proposed work shall begin within one year from the date of approval.

The time for completing the work shall terminate on December 31, 1956.

The time for completing the application of water to beneficial use shall terminate on December 31, 1958, and final proof of appropriation shall be made within five years thereafter.

The amount of appropriation shall be limited to the amount beneficially used to supply the Half Moon Pipe Line, not to exceed 1.50 cu. ft. of water per second of time for domestic and stock purposes.

Witness my hand this 3rd. day of January, A. D. 1955.


I. C. Bishop, State Engineer.

The State of Wyoming, }
State Engineer's Office, } SS.

This instrument was received and filed for record on the 23rd day of August, A. D. 1964, at 9:45 o'clock A. M.


I. C. Bishop, State Engineer.

Recorded in Book 72 of Applications, on Page 250.

JUL 5, 1955 - Notice of commencement on May 19, 1955, received.

RECAPITULATION OF LAST TWO LINES

July 5, 1955 - Notice of commencement on May 19, 1955, received.

August 8, 1955 - Notice of completion of beneficial use on July 5, 1955, received.



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Headquarters Water System Extension
Grand Teton National Park

RIGHT-OF-WAY NOTICE

2/3/56
(Date)

Miss Anita Tarbell

87 Lincoln Street

Newton Highlands 61, Mass

It is understood that you have an interest in the land described as

SE1/4NW1/4, NE1/4SW1/4, N1/2SE1/4, Section, 14, T. 43 N, R. 116W, M 6th P.M.

The United States has an interest in the said land, because the entry, which is the basis of your title, was made after October 2, 1888, and the land is accordingly subject to ditch or canal right-of-way reserved for the United States under the following provision of law:

"That in all patents for lands hereafter taken up under any of the land laws of the United States or on entries or claims validated by this act west of the one hundredth meridian, it shall be expressed that there is reserved from the lands in said patent described, a right-of-way thereon for ditches, or canals constructed by the authority of the United States." (Act of Aug. 30, 1890, 26 Stat. 391.)

Under the act of August 25, 1916 (39 Stat. 535), and the other acts of Congress, the United States is spending appreciable sums of money to provide safe and adequate water supplies in the national parks and monuments, for the protection of the visiting public. Operations have reached the point where such work calls for the use of the right-of-way reserved to the United States across the land described above. The purpose of this letter is to notify you and others interested in the land that the United States is about to utilize its right-of-way across the land. The line has been surveyed and staked upon the ground. Construction is expected to begin in the spring of 1957. If desired, more definite information concerning the location of the proposed right-of-way, probable date of construction, and answers to other questions, may be obtained at the Office of Grand Teton National Park.

Very respectfully,

CO) FRANK R. OBERHANSLEY

Frank R. Oberhansley
Superintendent
Grand Teton National Park

Form 10-114
(Rev. 1956)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

This permit consists

of 3 pages

SPECIAL USE PERMIT

Grand Teton National Park

(Area)

PERMIT NO. 14-10-216-297	EXPIRES 9/9/63
PREVIOUS PERMIT NO.	

Half Moon Ranch, of Moose, Wyoming is hereby authorized during the period from September 10, 1958, to September 9, 1963, to use the following-described land in the above-named area: **As a right-of-way for a ditch on an alignment described on the attached map which is a part of this permit. Right-of-way width as necessary but not to exceed 12 feet.**

for the purpose of **conveying water as authorized by State of Wyoming, Water Permit No. 21490 from point of diversion on Taggart Creek to land owned by permittee.**

subject to the conditions on the reverse hereof and attached pages and to the payment to Grand Teton National Park ~~the Government of the United States~~ of the sum of Five Dollars (\$ 5.00), in advance _____ (Monthly, semiannually, etc.), or as follows: _____

payment to be made to the Superintendent by Express or Postal Money Order, Certified Check, or Draft payable to the National Park Service, or Cash.

Issued at Grand Teton National Park, this 22 day of September, 1958
(City)

/s/ Frank R. OberhansleyFrank R. Oberhansley, Superintendent

The undersigned hereby accepts this permit subject to the terms, covenants, obligations, and reservations, expressed or implied, therein.

TWO WITNESSES TO SIGNATURES		* PERMITTEE (SIGNATURE)
NAME /s/ <u>Lloyd P. Delaney</u>	NAME <u>Half Moon Ranch by Anita Tarbell, Sec.</u>	
ADDRESS <u>Driggs, Idaho</u>	ADDRESS <u>Moose, Wyoming</u>	
NAME <u>Larry G. Moore</u>	NAME	
ADDRESS <u>Moose, Wyoming</u>	ADDRESS	
APPROVED: (If approval is required by higher authority)		
NAME	TITLE	DATE

*Sign name or names as written in body of permit; for copartnership, permittees should sign as "members of firm"; for corporation, the officer authorized to execute contracts, etc., should sign, with title, the sufficiency of such signature being attested by the Secretary, with corporate seal, in lieu of witnesses.

(This copy for the Superintendent's files)

PAGE 1

CONDITIONS OF THIS PERMIT

1. **Regulations.**—The permittee shall exercise this privilege subject to the supervision of the Superintendent, and shall comply with the regulations of the Secretary of the Interior, or other authorized officer of the Government, governing the area.

2. **Definition.**—The term "Director, National Park Service" as used herein shall include the appropriate Regional Director or Superintendent as the representative of the Director.

3. **Rights of the Director.**—Use by the permittee of the land covered hereby is subject to the right of the Director, National Park Service, to establish trails, roads, and other improvements and betterments over, upon, or through said premises, and further to the use by travelers and others of such roads and trails as well as of those already existing. If it is necessary to exercise such right, every effort will be made by the National Park Service to refrain from unduly interfering or preventing use of the land by the permittee for the purpose intended under this permit.

4. **Nondiscrimination.**—If use of the land covered by the permit will involve the employment by the permittee of a person or persons, the permittee agrees to observe the following nondiscrimination provisions in connection with the use to which the lands covered by this permit may be devoted:

In connection with the performance of work under this contract, the contractor agrees not to discriminate against any employee or applicant for employment because of race, religion, color, or national origin. The aforesaid provision shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rate of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post hereafter in conspicuous places, available for employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of the nondiscrimination clause.

The contractor further agrees to insert the foregoing provisions in all subcontracts hereunder, except subcontracts for standard commercial supplies or raw materials. (Executive Order 10557; September 3, 1954.)

5. **Damages.**—The permittee shall pay the United States for any damage resulting from this use which would not reasonably be inherent in the use which the permittee is authorized to make of the land described in this permit.

6. **Construction.**—No building or other structure shall be erected under this permit except upon prior approval of plans and specifications by the Director, National Park Service, and the premises and all appurtenances thereto shall be kept in a safe, sanitary, and sightly condition.

7. **Removal of structures and improvements.**—Upon the expiration of this permit by limitation of time or its termination for any reason prior to its expiration date, the permittee, if all charges due the Government hereunder have been paid, shall remove within such reasonable period as is determined by the Superintendent, but not to exceed 90 days unless otherwise stipulated in this permit, all structures and improvements placed on the premises by him, and shall restore the site to its former condition under the direction of the Superintendent. If the permittee fails to remove all such structures and improvements within the aforesaid period, they shall become the property of the United States, but that will not relieve the permittee of liability for the cost of their removal and the restoration of the site.

8. **Water Rights.**—The United States reserves the rights to perfect title to all rights for water which may be developed or used in connection with this permit and shall furnish water to the permittee, when available, at reasonable rates to be approved by the Director, National Park Service. Should such water service be unavailable or inadequate, the permittee may, with prior approval of the Director, provide the same at his own expense, subject to such special requirements as may be prescribed.

9. **Disposal of refuse.**—The permittee shall dispose of brush and other refuse as required by the Superintendent.

10. **Timber cutting.**—No timber may be cut or destroyed without first obtaining a permit therefor from the Director, National Park Service.

11. **Fire prevention and suppression.**—The permittee and his employees shall take all reasonable precautions to prevent forest, brush, grass, and structural fires and also shall assist the Superintendent in extinguishing such fires in the vicinity of any tract which may be used hereunder.

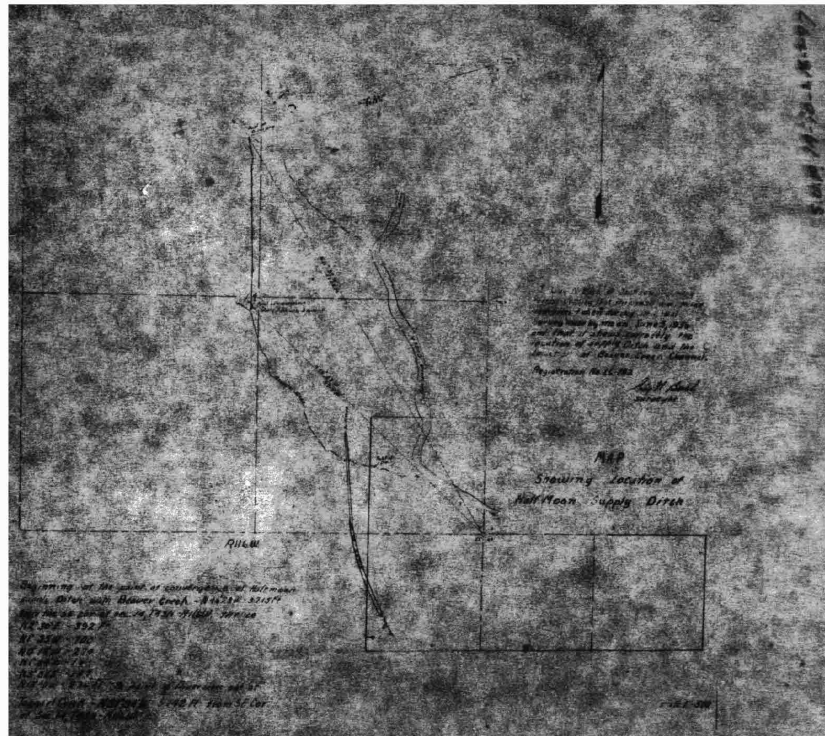
12. **Soil erosion.**—The permittee shall take adequate measures, as directed and approved by the Superintendent to restrict and prevent soil erosion on the lands covered hereby and shall so utilize such lands as not to contribute to erosion on adjoining lands.

13. **Benefit.**—Neither Members of, nor Delegates to Congress, or Resident Commissioners shall be admitted to any share or part of this permit or derive, either directly or indirectly, any pecuniary benefit to arise therefrom: *Provided however,* That nothing herein contained shall be construed to extend to any incorporated company, if the permit be for the benefit of such corporation.

14. **Assignment.**—This permit may not be transferred or assigned without the consent of the Director, National Park Service, in writing.

15. **Revocation.**—This permit may be terminated upon breach of any of the conditions herein or at the discretion of the Director, National Park Service.

16. **The Permittee will maintain the ditch entirely at its own expense and, if requested by the Superintendent, the Permittee will construct also at its own expense a concrete headgate on the ditch at point of diversion with adequate controls to regulate flow of water within the limits of volume authorized by Woming Water Permit #21490.**



Other Supporting Information



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

June 3, 1959

IN REPLY REFER TO:
154-OBL

REG. DIRECTOR	
ASST. REG. DIRECTOR	
CHf. DIV. OF ADMIN.	
CHf. DIV. OF OPERATIONS	
CHf. DIV. OF INTERP.	
CHf. REG. RES. PLANNING	
CHf. RANGER ACTIVITIES	
FIELD SOLICITOR	
matt 7/22/60	
Aiton	
ACTION TAKEN	

Memorandum

To: Regional Director, Region Two

From: Chief, Water Resources Section

Subject: Half Moon Supply Ditch, Water Right Permits 21490 and 19082,
Special Use Permit 14-10-216-297, Alien Water Right 4,
Grand Teton National Park

The memoranda of March 2 from Mr. Oberhansley to you and March 16 to us from Mr. Aiton, seem to touch on points which I have raised. However, I do not appear to have made the significance clear.

Mr. Oberhansley states that Miss Tarbell is using one of several Federal ditches which existed prior to 1956. I assume it to be a ditch which was constructed by the Park Service, or by the Forest Service at an even earlier date. However, Miss Tarbell claims, in her water right application-permit No. 21490 of October 22, 1953, that she would construct the ditch, and at a cost of only \$100. Our copy of the application-permit indicates that notice of completion on June 15, 1955, was received by the State Engineer on July 5, 1955. I gather that Miss Tarbell actually only made minor improvements in the ditch, which would normally be classed as an enlargement by the State Engineer.

From these observations, Special Use Permit 14-10-216-297 should authorize only the improvement and use of the Federal ditch. As written, it seems to grant a 12-foot right-of-way for a ditch which Miss Tarbell claims she constructed, prescribes that she shall install a proper headgate, which I construe to be the limit of her improvements, and shall assume the proper maintenance of the ditch.

Mr. Aiton advises that the subject ditch is above the "original" Half Moon Supply Ditch and that the location on the maps with the application and permit, respectively, do not agree. There were several ditch laterals when I was in the Park in 1953, including the Woodland Ditch (Docket 3). The identity of the subject ditch should be clarified.

Messrs. Aiton and Oberhansley seem to agree that further Federal use will be negligible. It is worth noting, however, that both desirable and undesirable vegetation may have become dependent on the water.

A revised special use permit could define Miss Tarbell's and the United States interests more accurately, but the need for revision before the time for renewal seems to be one for the Regional or Field Solicitor to decide. I do believe that we should have the correct facts on file. The information, and perhaps the clarification of the interests should also be presented when the United States and Miss Tarbell subject their rights to adjudication. I hope Miss Tarbell does not request adjudication until the Federal rights for the Headquarters water system are also in permit form, if not also covered by certificate. //



A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Grand Teton
Chief, WODC (2)

L 54
x L 3031

MAR 16 1959

not 3/13
aiton 3/13

Memorandum

To: Director

From: Regional Chief of Lands, Region Two

Subject: Half Moon Supply Ditch, Water Right Permits 21490 and 19082, Special Use Permit 14-10-216-297, Alien Water Right 4, Grand Teton National Park

The attached memorandum, March 2, 1959 and supporting map from Mr. Oberhansley, gives a brief summary relative to the Special Use Permit issued to Miss Tarbell for use of the Half Moon Supply Ditch. Also, this permit was discussed with Mr. Yeager this week when he was in Region Two office.

We note the alignment of Half Moon Supply Ditch, as shown on this supporting map to the Permit, differs considerably from the alignment shown on the map accompanying Miss Tarbell's application to the State for a Water Right. The diversion point on each map is shown in identical location.

Mr. Yeager advised that the Half Moon Supply Ditch now supports a stand of willows with a number of beaver dams and other vegetation which have developed as a result of lack of maintenance. The Park feels the natural condition existing along this ditch should not be destroyed by extensive maintenance work. The ditch described in the Permit is above the original Half Moon Ditch and runs across an open area. This ditch is in existence and will require little maintenance. No further Service use of this ditch is anticipated.

We believe (Special Use Permit Map) S.U.P. 14-10-216-297 identifies the location and right of way of the ditch. Unless some technicality has been overlooked, the Permit as issued would seem to serve the purpose intended.

Your comments will be appreciated.

(Sgd.) JOHN F. AITON

John F. Aiton
Regional Chief of Lands

In duplicate
Attachment
Copy to: Chief, WODC (2), w/attachment
Supt., Grand Teton NP

WAMott/etb



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Grand Teton National Park
Moose, Wyoming

March 2, 1959

Memorandum

To: Regional Director, Region Two

From: Superintendent

Subject: Half Moon Supply Ditch, Water Rights Permits 21490 and 19082, Special Use Permit 14-10-216-97, Alien Water Right 4, Grand Teton National Park.

IN REPLY REFER TO:
I-54
X I-303

REG. DIRECTOR
ASST. REG. DIRECTOR
CHf. DIV. OF ADMIN.
CHf. DIV. OF OPERATIONS
CHf. DIV. OF INTERP.
CHf. REC. RES. PLANNING
CHf. RANGER ACTIVITIES
FIELD SOLICITOR

297
297
3/13
16
3/16/59
Memo to Wass - by Wass & Suft

Attached, please find (3) three prints of the supporting map for Special Use Permit 14-10-216-97 for your use and further distribution.

The subject water right has been under so much controversy and misunderstanding that a brief summary is perhaps in order.

The existing permit to Miss Tarbell was issued for the ditch as shown on the supporting map prepared by Mr. Bush. It was one of three ditches existing in the area prior to 1956 and was deemed to be the one which would best serve the permittee without widening, straightening or other maintenance work. It previously has served as a transportation channel for irrigation water to a pasture used for Park Service horses. It is not used by the government for any purpose now, nor is its future use contemplated. Miss Tarbell will use the ditch only to supplement the natural flow of Beaver Creek during low water periods or when beaver activity would cut down the flow of Beaver Creek below her requirements.

From past experience it is pointed out that only approximately 5-10% of the requirements of the permittee is diverted into Beaver Creek through the ditch from Taggart Creek.

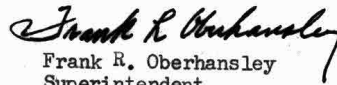
Considerable difficulty in negotiating with the permittee has been experienced in the past and negotiations for a new permit to utilize a federally owned ditch, as opposed to the present permit recently issued and acceptable to the permittee, would perhaps be difficult.

If Mr. Dunn requests a change in the permit, differing in description, we will notify Miss Tarbell of the changes desired and issue a new permit for her signature, which authorized use of a federally owned ditch.

C. C. MAILED TO:

Director
BY *W.A. Mott* DATE *3/16/59*

Please notify us if this is the action desired.


Frank R. Oberhansley
Superintendent

In duplicate

Attachments

Copy to: Chief, WODC

WESTERN OFFICE	
DESIGN & CONSTRUCTION	
FEB 6 1956 A.M.	
CHIEF	
ADMIN. ASSIST.	
PERSONNEL	
PLANS & PROG.	
SAFETY	
ARCHITECT	
ENGINEER	1/12/56
LAND. ARCH.	
ACTION TAKEN—DATE	

Memorandum

JAN 31 1956

To: The Director

From: Regional Chief of Operations, Region Two

Subject: Water Rights, Permit 21286 and 21426, Grand Teton National Park

We have Mr. Dunn's memorandum of January 18 in regard to making final proof on the above permits. It is our understanding that there is equipment installed on the Meadow Creek Spring supply that would permit using this source to supply water to the Jackson Lake Lodge in an emergency at a lower head than that from the Pilgrim Creek Spring supply. However, equipment now installed at Meadow Creek Spring will not permit operation of this source of supply in conjunction with the supply from Pilgrim Creek.

The use of water in the Jackson Lake Lodge area during the past season was much heavier than had been anticipated. No doubt a considerable portion of this use was due to irrigation of new planting and use of water in connection with construction projects in the area. It is also rather difficult to figure water usage on a population basis for this area. The Lodge operates a large laundry that uses a lot of water. This laundry will also handle the laundry for the cabins, cafeteria, and store at Colter Bay when these facilities are placed in operation. In addition to the overnight population at the Lodge, there is also a large number of people who eat in the dining room and lunch counter who do not stay overnight.

We have not attempted to analyze all of Mr. Dunn's flow figures but Mr. Robertson has calculated the flow in the pipe line from the Pilgrim Creek Spring to the Jackson Lake Lodge reservoir and his calculations, which are shown below, do not seem to check with those of Mr. Dunn. The pipe line between the spring and the reservoir is all cement asbestos pipe except for several crossings of Pilgrim Creek where steel pipe was used. The difference in head between the spring and the inlet to the reservoir is 203.5 feet. While we feel confident that a coefficient of $C = 140$ can safely be used for cement asbestos pipe, a coefficient of $C = 130$ was used for this pipe in designing the system to take care of

loss of head in bends, valves, etc. C= 100 was used for steel pipe. Using Williams and Hazen Hydraulic Tables, Mr. Robertson shows the following calculations:

170 gal. per minute = 244,800 gal. per 24 hrs.

1560'	- 6" steel	= 1.56 x 4.51 =	7.0	loss of head per 1000'
8380'	- 4" cement asbestos	= 8.38 x 19.05 =	159.6	" " " " "
8720'	- 6" cement asbestos	= 8.72 x 2.79 =	24.3	" " " " "
			<u>190.9</u>	Total head loss

175 gal. per minute = 252,000 gal. per 24 hrs.

1560'	- 6" steel	= 1.56 x 4.74 =	7.4	loss of head per 1000'
8380'	- 4" cement asbestos	= 8.38 x 21.1 =	176.8	" " " " "
8720'	- 6" cement asbestos	= 8.72 x 2.94 =	25.6	" " " " "
			<u>209.8</u>	Total head loss

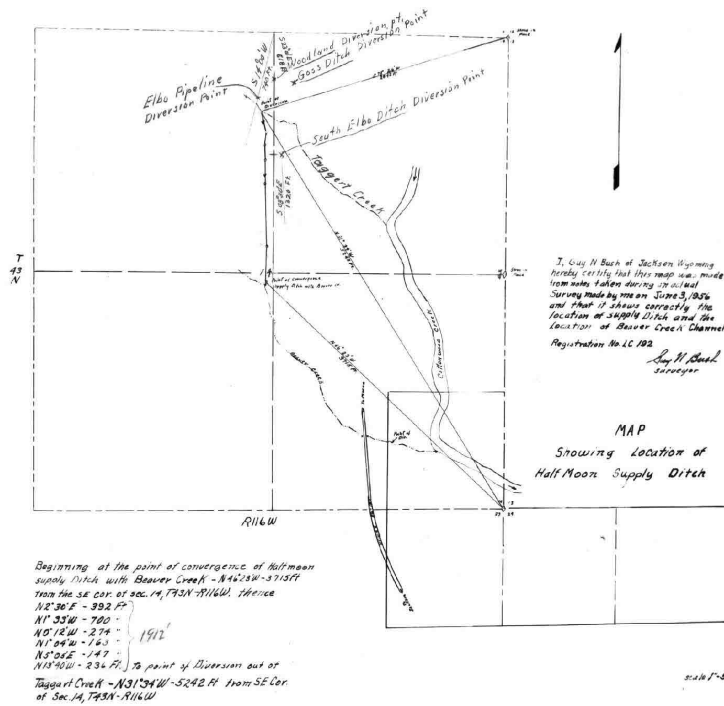
From the above the pipe line should deliver at least 170 gallons per minute to the reservoir or 0.378 cusecs.

It is quite apparent that the Pilgrim Creek Spring will not be able to provide sufficient water for both the Jackson Lake Lodge and the Colter Bay development when both are to be operated to capacity. The possibility of the insufficiency of the Pilgrim Creek Spring source to provide water for both areas was indicated in our memorandum of November 20, 1950. Since the use of water at the Lodge during its first full season's operation was greater than had been anticipated, we have been concerned with the need of supplying additional water for the two systems. The Park and the WODC are fully aware of the situation and the matter was discussed at some length with Mr. Oberhansley when he was in the Regional Office during the week of January 16 - 20.

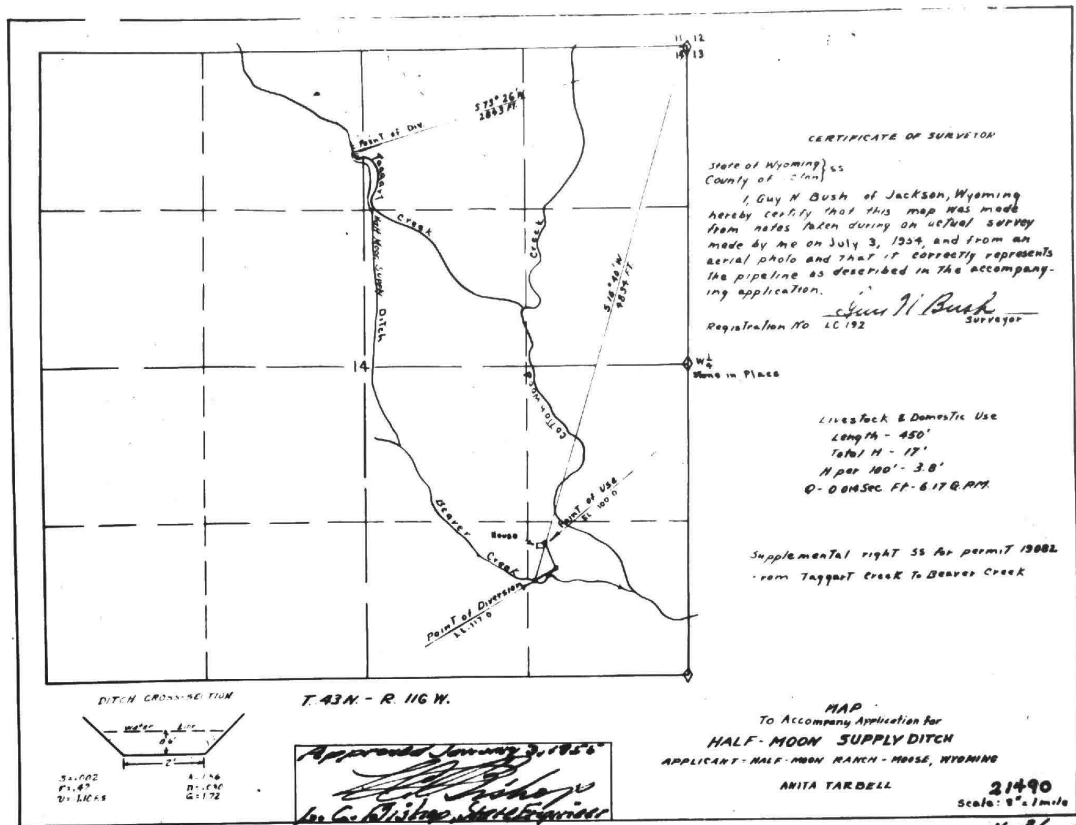
(Sgd) George F. Baggeley

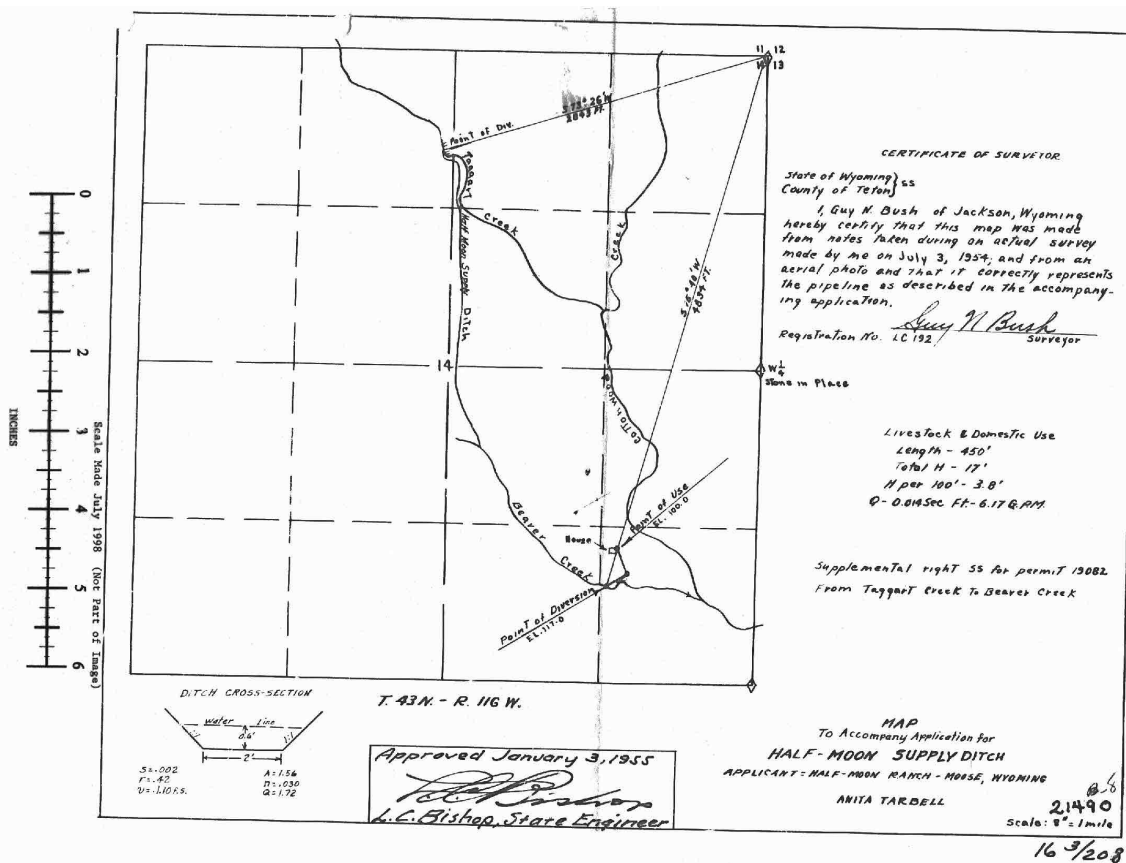
George F. Baggeley
Regional Chief of Operations

Copy to: / Supt., Grand Teton NP
/ Chief, WODC



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S.U.P. 14-10-216-297
W. H. P. 877





Docket Information

Number of Documents in Docket 19

Documents Dated from 1/4/1956 to 7/14/1960

Docket Compiled: 4/4/2011