



WATER-RIGHT DOCKET

Big Bend National Park

Docket No: 3

WEDIN SPRING #4 OR SPRING B.

Preliminary Docket Information

00-00-0000: water rights docket summary

BIG BEND NATIONAL PARK

WATER RIGHT No. 3

SPRINGS No. 1 and No. 4

Spring No. 1 (also known as Spring A) and Spring No. 4 (also known as Wedin Spring and Spring B) constitute one water system in the Rio Grande Village. State of Texas Riparian Number 58250 (previously number 5825) is currently used for the water right. The water is used mainly for municipal purposes with a small amount being used for irrigation.

Water is stored in a 400,000 gallon tank. The primary source is Spring No. 4. A standby source for municipal purposes is provided by Spring No. 1. Both springs can be pumped into the storage tank. Overflow from Spring No. 1, estimated at seven gallons per minute, flows by gravity through a two-inch water line into two ponds. Water is also pumped from Spring No. 1 into a fish research pond.

Wedin Spring has been given a State riparian number, but it should be noted that since the spring is on a federal land reservation, it is not mandatorily subject to state control (see *Winters v. U.S.*, 207 U.S. 564 (1908)). But, in any case, National Park Service policy favors maintaining water use records because this establishes federal water rights in the event of adverse changes in controlling laws.

William L. Mekeel

MAY 1969

BIG BEND NATIONAL PARK

WATER RIGHT #3

WEDIN SPRING

Wedin Spring, also known as Spring 4 and Spring B and State numbers 38180, or 58250, or 5825, or M-825 (~~see docket title page~~), is one of two primary water sources in the Rio Grande Village area of Big Bend. The other is Wedin Ditch, detailed in Big Bend docket #1.

The main subject of Texas water law regulation is surface water used for irrigation. Wedin Spring, as a ground source of surface water used for irrigation, should be within the Texas water control laws. The irrigation is done in conjunction with Wedin Ditch water to preserve existing vegetation. A small amount of the spring's water is used domestically in the Rio Grande Village area.

Wedin Spring has been given a State riparian number, but it should be noted that since the spring is on a federal land reservation, it is not mandatorily subject to state control (see *Winters v. U.S.*, 207 U.S. 564 (1908)). But in any case, NPS policy favors maintaining water use records because this establishes federal water rights in the event of adverse changes in controlling laws.

The 1956 water use report indicates that Wedin Spring water was stored in two ponds with 100,000-gallon capacity. According to the 1960 report, a new water system was completed with a 400,000-gallon storage tank.

By William Cruzen
LWSSC
February, 1967

Area: Big Bend National Park Docket #3
Title of Docket: Wedin Spring

I. SOURCE DESCRIPTION

1. Big Bend National Park General Map --
NP-BB-17018 A.
2. J. O. Wedin Irrigation Project, Daniels and
Graham Ranch Area -- NP-BB/6951-A.
3. Irrigation System, Rio Grande Area -- NP-BB/3030
(Sheet 1 of 5 sheets only).

II. APPROPRIATION DATA

1. Water Use Report for the Year Ending December 31, 1955.
2. Report of Water Used for the Year Ending December 31, 1956.
3. Report of Water Used for the Year Ending December 31, 1957.
4. Report of Water Used for the Year Ending December 31, 1958.
5. Report of Water Used for the Year Ending December 31, 1959.
6. Report of Surface Water Used for the Year Ending on December 31, 1972.

III. Water Quality Reports

1. Spring No. 3

- a. U. S. Geological Survey Analytical Notes,
March 12, 1965.

2. Spring No. 4

- a. U. S. Geological Survey Analytical Notes,
March 12, 1965

3. Form for Recordation of Certain Water Claims,
sworn on August 29, 1969

4. Additional Sworn Statement for Riparian Claimants,
sworn on April 23, 1971

233080800001913 4

GM

TEXAS WATER RIGHTS COMMISSION

P. O. BOX 13207, CAPITOL STATION
AUSTIN, TEXAS 78711

REPORT OF SURFACE WATER USED FOR THE YEAR ENDING ON DECEMBER 31

1974

NOTE: WATER USED UNDER EACH PERMIT, CERTIFIED FILING OR OTHER CLAIM OF WATER RIGHT MUST BE REPORTED ON A SEPARATE REPORT OF WATER USE, UNLESS COMBINED REPORTING HAS BEEN AUTHORIZED BY COMMISSION ORDER. Use additional sheets if necessary to complete answers to any question.

Give name and address for changes, if any, in ownership:

NATIONAL PARK SERVICE, SUPERINTENDT
1 ACRE TRACT
BIG BEND NATL. PARK, TEXAS 79834

Name

Street or Route

City

State

Zip Code

Give changes, if any, in address.

Street or Route

City

State

Zip Code

Certified
Filing No.Permit
No.Claim
No.

1919

Reporting
No.

1. Name of stream, canal or other source from which water was diverted Spring #4

If you have a reservoir, please state:

(a) Name of reservoir: Present Rio Grande Village

Original (if different)

(b) Present capacity of reservoir 400,000 gal.

(c) Condition of dam

2. The amount of water used was determined by:

(a) Recording meter X

(b) Weir

(c) Flume

(d) Other method of estimating quantity used (explain)

3. Record of surface water taken or diverted. (Enter in acre-feet the amount of water taken or diverted each month under the water right or claim of water right shown above.)

For Reporting Purposes

1 cfs = 450 gallons per minute
1 cfs = 2 acre-feet per 24 hours

1 acre-foot = 325,851 gallons
1 million gallons per day = 3 acre-feet

Month	Maximum Diversion Rate (Specify)	Purpose of Use						Return Flow
		Municipal	Industrial	Irrigation	Mining	Hydro- electric power	Other Use (Specify)	
	cfs or gpm	acre-ft	acre-ft	acre-ft	acre-ft	acre-ft	acre-ft	acre-ft
Jan	52 gpm	0.63						
Feb	"	0.16						
Mar	"	2.05						
Apr	"	1.37						
May	"	1.11						
Jun	"	1.12						
Jul	"	1.32						
Aug	"	0.72						
Sep	"	0.73						
Oct	"	0.74						
Nov	"	0.88						
Dec	"	0.96						
Total		11.79						

Total acre-feet surface water used: 11.79

4. Users of surface water for irrigation purposes:

(a) During this year, 1 acres were irrigated one or more times under this water right.

(b) Irrigation Districts supplying water for irrigation complete paragraph 4 (b):

During the year, 1 acres were irrigated one or more times within the district's boundaries.

During the year, water was furnished to irrigate 1 acres one or more times outside of the district's boundaries.

(c) If diversions are not metered within 5 per cent accuracy, complete paragraph 4 (c):

During the year, 1 acres were irrigated under this water right.

On 1 acres only 1 crop was produced.

On 1 acres 2 crops were produced.

On 1 acres 1 crops were produced.

Irrigated land is located in the Brewster Survey or Surveys

No (s) 1 in Brewster County.

(See reverse side)

4 (c) (Continued)

	Water was applied as follows:		
	Crop	Acres	Number of Waterings
1.	None		
2.			
3.			
4.			
5.			
6.			

5. If you diverted surface water to others under this water right, complete the following:

Name and Address of Each One for Whom Water was Diverted	Purpose of Use	Acre-feet Diverted During the Year
None		

Was this water reported in Section 3? _____

6. If you received or diverted water under a water right NOT owned by you, complete the following:

Name and Address of Owner of Water Right or Facilities Used	Purpose of Use	Acre-feet Received During the Year
None		

Was this water reported in Section 3? _____

7. Municipal Users Only:

The amount of sewage effluent used for irrigation, industrial, or other purposes was None acre-feet. Estimated population served at the end of the year was 1110

8. Industrial Users Only:

Type of Industry: _____
 Of the amount of surface water reported on this form as being used during the year, the amount or percentage actually consumed was _____ acre-feet or _____ %.

9. Well water is not to be included in the figures reported in Sections 3, 4, 5 or 6. However, the Commission is interested in obtaining figures for the total quantity of well water used during the year for other than domestic and livestock purposes:

_____ acre-feet of well water was used for _____ purposes.

10. Additional Information:

ALL USERS MUST EXECUTE THE FOLLOWING

I hereby certify that the above is true and correct to the best of my knowledge and belief.

Witness my hand at _____, Texas, this the _____ day of _____, 19 _____

(Signature)

233-040400001915 2

TEXAS WATER RIGHTS COMMISSION

P. O. BOX 13207, CAPITOL STATION
AUSTIN, TEXAS 78711

DUPLICATE—RETAIN FOR YOUR FILE

REPORT OF SURFACE WATER USED FOR THE YEAR ENDING ON DECEMBER 31

1973

NOTE: WATER USED UNDER EACH PERMIT, CERTIFIED FILING OR OTHER CLAIM OF WATER RIGHT MUST BE REPORTED ON A SEPARATE REPORT OF WATER USE UNLESS COMBINED REPORTING HAS BEEN AUTHORIZED BY COMMISSION ORDER. Use additional sheets if necessary complete answers to any question. Report of water use to be filed with the Commission on or before March 1 of each year. Failure to report water use as required may result in a further penalty of \$1 for each acre-foot of water thereafter until the report is filed.

Give name and address for
changes, if any, in ownership:

NATIONAL PARK SERVICE, SUPERINTENDENT
1 ACRE TRACT
BIG BEND NATL. PARK, TEXAS 79834

Name _____
Street or Route _____
City _____ State _____ Zip _____
Give changes, if any, in address:
Street or Route _____
City _____ State _____ Zip _____

Certified Filing No. _____ Permit No. _____ Claim No. 1915 Reporting No. _____

1. Name of stream, canal or other source from which water was diverted: Spring #4

If you have a reservoir, please state:

(a) Name of reservoir: Present Rio Grande Village Original (if different): _____
(b) Present capacity of reservoir: 400,000
(c) Condition of dam: _____

2. The amount of water used was determined by: (a) Recording meter X (b) Weir _____
(c) Flume _____ (d) Other method of estimating quantity used (explain): _____

3. Record of surface water taken or diverted. (Enter in acre-feet the amount of water taken or diverted each month under the water right or claim of water right as above.)

For Reporting Purposes

1 cfs = 450 gallons per minute
1 cfs = 2 acre-feet per 24 hours

1 acre-foot = 325,851 gallons
1 million gallons per day = 3 acre-feet

Month	Maximum Diversion Rate (Specify)	Purpose of Use						Return Flow
		Municipal	Industrial	Irrigation	Mining	Hydro-electric power	Other Use (Specify)	
	cfs or gpm	acre-ft	acre-ft	acre-ft	acre-ft	acre-ft	acre-ft	
Jan	45 gpm	0.82						
Feb	" "	1.80						
Mar	" "	1.90						
Apr	" "	1.90						
May	" "	1.53						
Jun	" "	1.25						
Jul	" "	2.37						
Aug	" "	1.08						
Sep	" "	1.74						
Oct	" "	0.92						
Nov	" "	0.95						
Dec	" "	1.06						
Total		20.32						

Total acre-feet surface water used: 20.32

4. Users of surface water for irrigation purposes:
(a) During this year, 1 acres were irrigated one or more times under this water right.
(b) Irrigation Districts supplying water for irrigation complete paragraph 4 (b):
During the year, None acres were irrigated one or more times within the district's boundaries.
During the year, water was furnished to irrigate None acres one or more times outside of the district's boundaries.

(c) If diversions are not metered within 5 per cent accuracy, complete paragraph 4 (c):

During the year, _____ acres were irrigated under this water right.

On _____ acres only 1 crop was produced.

On _____ acres 2 crops were produced.

On _____ acres _____ crops were produced.

Irrigated land is located in the _____ Survey or Surveys
in Brewster County.

(See reverse side)

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WATER RIGHTS COMMISSION

ORIGINAL - RETURN TO COMMISSION

P. O. BOX 13207, CAPITOL STATION
AUSTIN, TEXAS 78711

REPORT OF SURFACE WATER USED FOR THE YEAR ENDING ON DECEMBER 31 1972

NOTE: WATER USED UNDER EACH PERMIT, CERTIFIED FILING OR OTHER CLAIM OF WATER RIGHT MUST BE REPORTED ON A SEPARATE REPORT OF WATER USE UNLESS COMBINED REPORTING HAS BEEN AUTHORIZED BY COMMISSION ORDER. Use additional sheets if necessary to complete answers to any question. Texas Statutes require this report of water use to be filed with the Commission on or before March 1 of each year. Failure to timely report may subject the user to a civil penalty of \$25 and a further penalty of \$1 for each and every day thereafter until the report is filed, but in any case not to exceed a penalty of \$150.

Give name and address for
changes, if any, in ownership:

NATIONAL PARK SERVICE, SUPERINTENDT
1 ACRE TRACT
BIG BEND NATL. PARK, TEXAS 79834

Name
Street or Route
City State Zip Cod
Give changes, if any, in address:
Street or Route
City State Zip Cod

Certified Filing No. Permit No. Claim No. 1915 Reporting No.

1. Name of stream, canal or other source from which water was diverted Spring #4 (Wedin Spring)

If you have a reservoir, please state:

(a) Name of reservoir: Present Rio Grande Village Res. Original (if different) NA

(b) Present capacity of reservoir 400,000 gallons

(c) Condition of dam

2. The amount of water used was determined by: (a) Recording meter X, (b) Weir
(c) Plume, (d) Other method of estimating quantity used (explain)

3. Record of surface water taken or diverted. (Enter in acre-feet the amount of water taken or diverted each month under the water right or claim of water right shown above.)

For Reporting Purposes

1 cfs = 450 gallons per minute
1 cfs = 2 acre-feet per 24 hours

1 acre-foot = 325,851 gallons
1 million gallons per day = 3 acre-feet

Month	Maximum Diversion Rate (Specify)	Purpose of Use						Return Flow
		Municipal	Industrial	Irrigation	Mining	Hydro-electric power	Other Use (Specify)	
	cfs or gpm	acre-ft	acre-ft	acre-ft	acre-ft	acre-ft	acre-ft	acre-ft
Jan	45 gpm	1.76						
Feb	" "	1.39						
Mar	" "	1.50						
Apr	" "	2.08						
May	" "	2.54						
Jun	" "	2.33						
Jul	" "	1.81						
Aug	" "	1.77						
Sep	" "	2.08						
Oct	" "	1.39						
Nov	" "	1.86						
Dec	" "	1.50						
Total		22.01						

Total acre-feet surface water used: 22.01

4. Users of surface water for irrigation purposes:

(a) During this year, _____ acres were irrigated one or more times under this water right.

(b) Irrigation Districts supplying water for irrigation complete paragraph 4(b):

During the year, _____ acres were irrigated one or more times within the district's boundaries. During the year, water was furnished to irrigate _____ acres one or more times outside of the district's boundaries.

(c) If diversions are not metered within 5 per cent accuracy, complete paragraph 4(c):

During the year, _____ acres were irrigated under this water right.

On _____ acres only 1 crop was produced.

On _____ acres 2 crops were produced.

On _____ acres _____ crops were produced.

Irrigated land is located in the _____ Survey or Survey

No(s) _____ in _____ County.

(See reverse side)

4(c) (Continued)

Water was applied as follows:			
Crop	Acres	Number of Waterings	Average Depth in Inches Applied Per Irrigation
1.			
2.			
3.			
4.			
5.			
6.			

If you diverted surface water to others under this water right, complete the following:

Name and Address of Each One for Whom Water was Diverted	Purpose of Use	Acre-feet Diverted During the Year

Was this water reported in Section 3? _____

If you received or diverted water under a water right NOT owned by you, complete the following:

Name and Address of Owner of Water Right or Facilities Used	Purpose of Use	Acre-feet Received During the Year

Was this water reported in Section 3? _____

Municipal Users Only:

The amount of sewage effluent used for irrigation, industrial, or other purposes was None acre-feet. Estimated population served at the end of the year was: Estimated average of 180/day.

Industrial Users Only:

Type of Industry: _____
Of the amount of surface water reported on this form as being used during the year, the amount or percentage actually consumed was _____ acre-feet or _____ %.

Well water is not to be included in the figures reported in Sections 3, 4, 5 or 6. However, the Commission is interested in obtaining figures for the total quantity of well water used during the year for other than domestic and livestock purposes:

NA acre-feet of well water was used for _____ purposes.

Additional Information:

NA

ALL USERS MUST EXECUTE THE FOLLOWING

I hereby certify that the above is true and correct to the best of my knowledge and belief.

Witness my hand at Big Bend N.P., Texas, this the 22 day of January, 1973.


(Signature)

TEXAS WATER RIGHTS COMMISSION
P. O. BOX 13207, CAPITOL STATION
AUSTIN, TEXAS 78711

BIRE *Water Rights District*
ORIGINAL - RETURN TO COMMISSION

REPORT OF SURFACE WATER USED FOR THE YEAR ENDING ON DECEMBER 31 1972

NOTE: WATER USED UNDER EACH PERMIT, CERTIFIED FILING OR OTHER CLAIM OF WATER RIGHT MUST BE REPORTED ON A SEPARATE REPORT OF WATER USE UNLESS COMBINED REPORTING HAS BEEN AUTHORIZED BY COMMISSION ORDER. Use additional sheets if necessary to complete answers to any question. Texas Statutes require this report of water use to be filed with the Commission on or before March 1 of each year. Failure to timely report may subject the user to a civil penalty of \$25 and a further penalty of \$1 for each and every day thereafter until the report is filed, but in any case not to exceed a penalty of \$150.

Give name and address for changes, if any, in ownership:

NATIONAL PARK SERVICE, SUPERINTENDT
1 ACRE TRACT
BIG BEND NATL. PARK, TEXAS 79834

Name _____
Street or Route _____
City _____ State _____ Zip Code _____
Give changes, if any, in address: _____
Street or Route _____
City _____ State _____ Zip Code _____

Certified Filing No. _____ Permit No. _____ Claim No. 1915 Reporting No. _____

1. Name of stream, canal or other source from which water was diverted Spring #4 (Wedin Spring)
If you have a reservoir, please state:
(a) Name of reservoir: Present Rio Grande Village Res. Original (if different) NA
(b) Present capacity of reservoir 400,000 gallons
(c) Condition of dam _____
2. The amount of water used was determined by: (a) Recording meter X, (b) Weir _____
(c) Flume _____, (d) Other method of estimating quantity used (explain) _____
3. Record of surface water taken or diverted. (Enter in acre-feet the amount of water taken or diverted each month under the water right or claim of water right shown above.)

For Reporting Purposes
1 cfs = 450 gallons per minute
1 cfs = 2 acre-feet per 24 hours
1 acre-foot = 325,851 gallons
1 million gallons per day = 3 acre-feet

Month	Maximum Diversion Rate (Specify)	Purpose of Use						Return Flow
		Municipal	Industrial	Irrigation	Mining	Hydro-electric power	Other Use (Specify)	
	cfs or gpm	acre-ft	acre-ft	acre-ft	acre-ft	acre-ft	acre-ft	acre-ft
Jan	45 gpm	1.76						
Feb	" "	1.39						
Mar	" "	1.50						
Apr	" "	2.08						
May	" "	2.54						
Jun	" "	2.33						
Jul	" "	1.81						
Aug	" "	1.77						
Sep	" "	2.08						
Oct	" "	1.39						
Nov	" "	1.86						
Dec	" "	1.50						
Total		22.01						

Total acre-feet surface water used: 22.01

4. Users of surface water for irrigation purposes:
(a) During this year, _____ acres were irrigated one or more times under this water right.
(b) Irrigation Districts supplying water for irrigation complete paragraph 4(b):
During the year, _____ acres were irrigated one or more times within the district's boundaries.
During the year, water was furnished to irrigate _____ acres one or more times outside of the district's boundaries.
(c) If diversions are not metered within 5 per cent accuracy, complete paragraph 4(c):
During the year, _____ acres were irrigated under this water right.
On _____ acres only 1 crop was produced.
On _____ acres 2 crops were produced.
On _____ acres _____ crops were produced.
Irrigated land is located in the _____ Survey or Survey
No(a) _____ in _____ County.

(See reverse side)

4(c) (Continued)

Water was applied as follows:

Crop	Acres	Number of Waterings	Average Depth in Inches Applied Per Irrigation
1.			
2.			
3.			
4.			
5.			
6.			

If you diverted surface water to others under this water right, complete the following:

Name and Address of Each One for Whom Water was Diverted	Purpose of Use	Acre-feet Diverted During the Year

Was this water reported in Section 3? _____

If you received or diverted water under a water right NOT owned by you, complete the following:

Name and Address of Owner of Water Right or Facilities Used	Purpose of Use	Acre-feet Received During the Year

Was this water reported in Section 3? _____

Municipal Users Only:

The amount of sewage effluent used for irrigation, industrial, or other purposes was None acre-feet. Estimated population served at the end of the year was: Estimated average of 180/day.

Industrial Users Only:

Type of Industry: _____
 Of the amount of surface water reported on this form as being used during the year, the amount or percentage actually consumed was _____ acre-feet or _____ %.

Well water is not to be included in the figures reported in Sections 3, 4, 5 or 6. However, the Commission is interested in obtaining figures for the total quantity of well water used during the year for other than domestic and live-stock purposes:

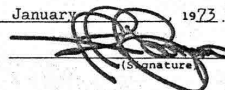
NA acre-feet of well water was used for _____ purposes.

Additional Information:

NA

ALL USERS MUST EXECUTE THE FOLLOWING

I hereby certify that the above is true and correct to the best of my knowledge and belief.

Witness my hand at Big Bend N.P., Texas, this the 22 day of January, 1973.

 (Signature)

TEXAS WATER RIGHT COMMISSION
P. O. BOX 1307, AUSTIN, TEXAS 78711

ORIGINAL - RETURN TO COMMISSION

REPORT OF SURFACE WATER USED FOR THE YEAR ENDING ON DECEMBER 31, 1971

WATER USED UNDER EACH PERMIT, CERTIFIED FILING OR OTHER CLAIM OF WATER RIGHT MUST BE REPORTED ON A SEPARATE REPORT OR UNDER THE COMBINED REPORTING HAS BEEN AUTHORIZED BY COMMISSION ORDER. Use additional sheets if necessary to complete answers to any question. Texas Statutes require this report of water use to be filed with the Commission on or before March 1 of each year. Failure to timely report may subject the user to a civil penalty of \$25 and a further penalty of \$1 for each and every day thereafter until the report is filed, but in any case not to exceed a penalty of \$150.

Give name and address for changes, if any, in ownership:

Name _____
Street or Route _____
City _____ State _____ Zip Code _____
Give changes, if any, in address: _____
Street or Route _____
City _____ State _____ Zip Code _____

Certified Filing No. _____ Permit No. _____ Claim No. 1915 Reporting No. _____

1. Name of stream, canal or other source from which water was diverted Spring #4
If you have a reservoir, please state:
(a) Name of reservoir: Present Rio Grande Village Original (if different) _____
(b) Present capacity of reservoir 400,000 gallons
(c) Condition of dam _____

2. The amount of water used was determined by: (a) Recording meter X (b) Weir _____
(c) Flume _____ (d) Other method of estimating quantity used (explain) _____

3. Record of surface water taken or diverted. (Enter in acre-feet the amount of water taken or diverted each month under the water right or claim of water right shown above.)

For Reporting Purposes
1 cfs = 450 gallons per minute
1 cfs = 2 acre-feet per 24 hours
1 acre-foot = 325,851 gallons
1 million gallons per day = 3 acre-feet

Month	Maximum Diversion Rate (Specify) cfs or gpm	Purpose of Use						Return Flow
		Municipal acre-ft	Industrial acre-ft	Irrigation acre-ft	Mining acre-ft	Hydro-electric power acre-ft	Other Use (Specify) acre-ft	
Jan		1.63						
Feb		0.79						
Mar		0.85						
Apr		1.19						
May		1.45						
Jun		1.33						
Jul		0.89						
Aug		0.71						
Sep		1.12						
Oct		0.71						
Nov		1.00						
Dec		0.85						
Total		12.52						

Total acre-feet surface water used: 12.52

4. Users of surface water for irrigation purposes:
(a) During this year, 1 _____ acres were irrigated one or more times under this water right.
(b) Irrigation Districts supplying water for irrigation complete paragraph 4(b):
During the year, none _____ acres were irrigated one or more times within the district's boundaries.
During the year, water was furnished to irrigate none _____ acres one or more times outside of the district's boundaries.
(c) If diversions are not metered within 5 per cent accuracy, complete paragraph 4(c):
During the year, _____ acres were irrigated under this water right.
On _____ acres only 1 crop was produced.
On _____ acres 2 crops were produced.
On _____ acres _____ crops were produced.
Irrigated land is located in the _____ Survey or Surveys
No(s) _____ in Brewster County.

(See reverse side)

TEXAS WATER RIGHTS COMMISSION

Sam Houston State Office Building
Area Code 512 475-4666 or 475-2711
P. O. Box 13207
Austin, Texas 78711

ADDITIONAL SWORN STATEMENT FOR RIPARIAN CLAIMANTS DESIRING RECOGNITION OF A RIGHT BASED ON USE FROM 1968 TO 1970, INCLUSIVE, AS REQUIRED BY THE WATER RIGHTS ADJUDICATION ACT OF 1967 [SECTION 4(B) AND (C), ARTICLE 7542A, VERNON'S CIVIL STATUTES]. THIS FORM SHALL BE TYPE-WRITTEN OR PRINTED LEGIBLY WITH INK. MAIL THE ORIGINAL TO THE TEXAS WATER RIGHTS COMMISSION IN THE ENCLOSED SELF-ADDRESSED ENVELOPE ON OR BEFORE JULY 1, 1971.

1. Name and address of claimant exactly as shown on original claim:

Superintendent

Big Bend National Park, Texas 79834

DO NOT WRITE
IN THIS SPACE

Claim No.....:

County.....:

River or
Coastal Basin.:

Purpose of Use:

Date Filed....:

Date Recorded.:

Volume_____, P._____, Water
Rights Adjudication Act Claims
Record.

2. Claim No. Riparian (State of Texas)
58250 (as assigned to claimant by Texas
Water Rights Commission).

3. Name and address of present claimants if different from paragraph 1, above. If change of ownership occurred and the Commission has not been advised, attach with this statement a legal instrument evidencing proof of ownership in the present claimants:

4. General Location:

a. County Drewster, Original Survey(s) or Grant(s) with Abstract No(s).

Survey No. 5, Block G-19, GC & SF RR Co. Grant

b. Spring No. 1 & No. 4, a tributary to Rio Grande
(Stream or Watercourse) (River)

in Rio Grande River Basin.

5. Describe diversion and distribution facilities that were existing December 31, 1970, locating same on aerial photo as requested in paragraph 7. below. Indicate any differences between the existing facilities and those previously described in the original claim. (Use extra sheets as needed.)

The primary source of supply is Spring No. 4. A standby source for municipal purposes

is provided by Spring No. 1. Pumps at the collection galleries of both springs supply water to a 400,000 gallon storage tank, from which water flows by gravity throughout the distribution system. Overflow from Spring No. 1, estimated at 7 gallons per minute, flows by gravity through a 2 inch waterline into two ponds. Water is also pumped from Spring No. 1 into a fish research pond. Water from Spring No. 4 is used mainly for municipal purposes with only a small amount being used for the irrigation of trees around a concessionaire operated trailer court.

Spring No. 1: Type of pump - Shaft turbine. Make - Jacuzzi. Size of Intake - 2 1/2". Size of outlet - 4". Rated Capacity - 25 gpm. Static Lift - 135'. Kind of Power - 220/440v, 3 phase. Description of Powerplant - power obtained from REA pump operated by a 3 H.P. G.E. Motor.

Spring No. 4: Type of Pump - Centrifugal. Make - Aurora. Size of Intake - 1 1/2". Size of Outlet - 4". Rated Capacity - 25 gpm. Static Lift - 215'. Kind of Power - 220/440v, 3 phase. Description of Powerplant - power obtained from REA, pump operated by a 75 H.P. G.E. Motor.

6. Historical use during the following period: Bellanca Motor.

Year	Surface Waters Diverted (Acre-feet/annum)	Rated Pump Capacity In Gallons Per Minute or if not pump, diversion capacity in Cubic Feet Per Second	Irrigators tabulate acres actually irrigated each year with Surface Waters
1968	8.90	Spring No. 1 - 25 gpm Spring No. 4 - 30 gpm	1 Acre
1969	13.90	" "	"
1970	11.47	" "	"

7. The existing pertinent features of this claim shall be located on the most recent U.S. Department of Agriculture, Agricultural Stabilization and Conservation Service aerial photograph (xerox or other type duplicating machine copy not acceptable) available and attached to and made a part of this sworn statement. The pertinent features include but are not limited to the following, if applicable:

- a. Dams and reservoirs,
- b. Actual irrigated areas,
- c. Pipelines and/or canals,
- d. Pumping plants and/or headgates,
- e. Original surveys with abstract numbers,
- f. Property boundaries,
- g. Where dual systems of surface water and ground water are used on the same irrigated tracts show how system is integrated.

If aerial photographs are not available, show accurately the requested information on a map.

THE STATE OF TEXAS

COUNTY OF Brewster

Before me, the undersigned authority in and for said County and State on this day personally appeared Luther T. Peterson, Jr. who being by me duly sworn on oath stated that the statements in the foregoing instrument are true and correct to the best of his knowledge and belief.

Luther T. Peterson, Jr.
Claimant

Subscribed and sworn to before me this 23rd day of April 1971.

(SEAL)

Charles L. Harrison (U.S. Magistrate)
Brewster
Notary Public
County, Texas

TEXAS WATER RIGHTS COMMISSION
P. O. BOX 1390, CAPITOL STATION
AUSTIN, TEXAS 78711

DUPLICATE - RETAIN FOR YOUR FILE

REPORT OF SURFACE WATER USED FOR THE YEAR ENDING ON DECEMBER 31 1970

NOTE: WATER USED UNDER EACH PERMIT, CERTIFIED FILING OR OTHER CLAIM OF WATER RIGHT MUST BE REPORTED ON A SEPARATE REPORT OF WATER USE UNLESS COMBINED REPORTING HAS BEEN AUTHORIZED BY COMMISSION ORDER. Use additional sheets if necessary to complete answers to any question. Texas Statutes require this report of water use to be filed with the Commission on or before March 1 of each year. Failure to timely report may subject the user to a civil penalty of \$25 and a further penalty of \$1 for each and every day thereafter, until the report is filed, but in any case not to exceed a penalty of \$150.

Give name and address for changes, if any, in ownership:

NATIONAL PARK SERVICE, SUPERINTENDY
1 ACRE TRACT
BIG BEND NATL. PARK, TEXAS 79834

Name _____
Street or Route _____
City _____ State _____ Zip Code _____
Give changes, if any, in address: _____
Street or Route _____
City _____ State _____ Zip Code _____

Certified Filing No. _____ Permit No. _____ Claim No. **1915** Reporting No. _____

1. Name of stream, canal or other source from which water was diverted **Spring #4**
If you have a reservoir, please state:
(a) Name of reservoir: Present **Rio Grande Village 400,000** Original (if different) **gallons**
(b) Present capacity of reservoir _____
(c) Condition of dam _____
2. The amount of water used was determined by: (a) Recording meter **X** (b) Weir _____
(c) Flume _____ (d) Other method of estimating quantity used (explain) _____
3. Record of surface water taken or diverted. (Enter in acre-feet the amount of water taken or diverted each month under the water right or claim of water right shown above.)

For Reporting Purposes
1 cfs = 450 gallons per minute 1 acre-foot = 325,851 gallons
1 cfs = 2 acre-feet per 24 hours 1 million gallons per day = 3 acre-feet

Month	Maximum Diversion Rate (Specify)	Purpose of Use						Return Flow
		Municipal	Industrial	Irrigation	Mining	Hydro-electric power	Other Use (Specify)	
	cfs or gpm	acre-ft	acre-ft	acre-ft	acre-ft	acre-ft	acre-ft	acre-ft
Jan		1.53						
Feb		0.78						
Mar		0.76						
Apr		1.21						
May		1.35						
Jun		1.22						
Jul		0.76						
Aug		0.61						
Sep		1.13						
Oct		0.61						
Nov		1.07						
Dec		0.50						
Total								

Total acre-feet surface water used: **11.47**

4. Users of surface water for irrigation purposes:
(a) During this year, **1** acres were irrigated one or more times under this water right.
(b) Irrigation Districts supplying water for irrigation complete paragraph 4(b):
During the year, **None** acres were irrigated one or more times within the district's boundaries.
During the year, water was furnished to irrigate **None** acres one or more times outside of the district's boundaries.
(c) If diversions are not metered within 5 per cent accuracy, complete paragraph 4(c):
During the year, _____ acres were irrigated under this water right.
On _____ acres only 1 crop was produced.
On _____ acres 2 crops were produced.
On _____ acres _____ crops were produced.
Irrigated land is located in the _____ Survey or Surveys
No(s) _____ in **Brewster** County.

(See reverse side)

(continued)

Water was applied as follows:

Crop	Acres	Number of Waterings	Average Depth in inches Applied Per Irrigation
1.			
2.			
3.			
4.			
5.			
6.			

5. If you diverted surface water to others under this water right, complete the following:

Name and Address of Each One for Whom Water was Diverted	Purpose of Use	Acre-feet Diverted During the Year

Was this water reported in Section 3? _____

6. If you received or diverted water under a water right NOT owned by you, complete the following:

Name and Address of Owner of Water Right or Facilities Used	Purpose of Use	Acre-feet Received During the Year

Was this water reported in Section 3? _____

7. Municipal Users Only:

The amount of sewage effluent used for irrigation, industrial, or other purposes was _____
acre-feet. Estimated population served at the end of the year was: _____

8. Industrial Users Only:

Type of Industry: _____
Of the amount of surface water reported on this form as being used during the year, the amount or percentage actually consumed was _____ acre-feet or _____ %.

9. Well water is not to be included in the figures reported in Sections 3, 4, 5 or 6. However, the Commission is interested in obtaining figures for the total quantity of well water used during the year for other than domestic and live-stock purposes:

_____ acre-feet of well water was used for _____ purposes.

10. Additional Information:

ALL USERS MUST EXECUTE THE FOLLOWING

I hereby certify that the above is true and correct to the best of my knowledge and belief.

Witness my hand at Big Bend NP, Texas, this the _____ day of February //, 19 71.

PETERSON, JR

(Signature)

TEXAS WATER RIGHTS COMMISSION

P. O. BOX 12296, CAPITOL STATION
AUSTIN, TEXAS 78711

REPORT OF SURFACE WATER USED FOR THE YEAR ENDING ON DECEMBER 31 1969

DUPLICATE — RETAIN FOR YOUR FILES

NOTE: WATER USED UNDER EACH PERMIT, CERTIFIED FILING OR OTHER CLAIM OF WATER RIGHT MUST BE REPORTED ON A SEPARATE REPORT OF WATER USE UNLESS CURRENT REPORTING HAS BEEN AUTHORIZED BY COMMISSION ORDER. Use additional sheets if necessary to complete answers to any question. Texas Statutes require this report of water use to be filed with the Commission on or before March 1 of each year. Failure to timely report may subject the user to a civil penalty of \$25 and a further penalty of \$1 for each and every day thereafter until the report is filed, but in any case not to exceed a penalty of \$150.

Give name and address for changes, if any, in ownership:

NATIONAL PARK SERVICE, SUPERINTENDT
1 ACRE TRACT
BIG BEND NATL. PARK, TEXAS 79834

Name _____
Street or Route _____
City _____ State _____ Zip Code _____
Give changes, if any, in address:
Street or Route _____
City _____ State _____ Zip Code _____

Certified Filing No. _____ Permit No. _____ Claim No. 1915 Reporting No. _____

1. Name of stream, canal or other source from which water was diverted Spring #4
If you have a reservoir, please state:
(a) Name of reservoir. Present El Comanche Village 400,000 Original (if different) gallons
(b) Present capacity of reservoir _____
(c) Condition of dam _____
2. The amount of water used was determined by: (a) Recording meter X (b) Weir _____
(c) Flume _____ (d) Other method of estimating quantity used (explain) _____
3. Record of surface water taken or diverted. (Enter in acre-feet the amount of water taken or diverted each month under the water right or claim of water right shown above.)

For Reporting Purposes

1 cfs = 450 gallons per minute
1 cfs = 2 acre-feet per 24 hours
1 acre-foot = 325,851 gallons
1 million gallons per day = 3 acre-feet

Month	Maximum Diversion Rate (Specify)	Purpose of Use						Return Flow
		Municipal	Industrial	Irrigation	Mining	Hydro-electric power	Other Use (Specify)	
	cfs or gpm	acre-ft	acre-ft	acre-ft	acre-ft	acre-ft	acre-ft	acre-ft
Jan		1.35						
Feb		.25						
Mar		.68						
Apr		.96						
May		.32						
Jun		.75						
Jul		.75						
Aug		2.03						
Sep		1.48						
Oct		2.65						
Nov		.82						
Dec		.96						
Total								

Total acre-feet surface water used: 15.90

4. Acres of surface water for irrigation purposes:
(a) During this year, 1 acres were irrigated one or more times under this water right.
(b) Irrigation facilities supplying water for irrigation complete paragraph 4 (a):
During the year, None acres were irrigated one or more times within the district's boundaries.
During the year, water was furnished to irrigate None acres one or more times outside of the district's boundaries.
(c) If diversions are not metered within 5 per cent accuracy, complete paragraph 4 (a):
During the year, None acres were irrigated under this water right.
On None acres only 1 crop was produced.
On None acres 2 crops were produced.
On None acres None crops were produced.
Irrigated land is located in the _____ Survey or Surveys
No(s) _____ in Brewster County.

(See reverse side)

(e). (Continued)

Water was applied as follows:

	Crop	Acres	Number of Waterings	Average Depth in Inches Applied Per Irrigation
1.				
2.				
3.				
4.				
5.				
6.				

5. If you diverted surface water to others under this water right, complete the following:

Name and Address of Each One for Whom Water was Diverted	Purpose of Use	Acre-feet Diverted During the Year

Was this water reported in Section 3? _____

6. If you received or diverted water under a water right NOT owned by you, complete the following:

Name and Address of Owner of Water Right or Facilities Used	Purpose of Use	Acre-feet Received During the Year

Was this water reported in Section 3? _____

7. Municipal Users Only:

The amount of sewage effluent used for irrigation, industrial, or other purposes was _____ acre-feet. Estimated population served at the end of the year was: _____

8. Industrial Users Only:

Type of Industry: _____
Of the amount of surface water reported on this form as being used during the year, the amount or percentage actually consumed was _____ acre-feet or _____ %.

9. Well water is not to be included in the figures reported in Sections 3, 4, 5 or 6. However, the Commission is interested in obtaining figures for the total quantity of well water used during the year for other than domestic and livestock purposes: _____

_____ acre-feet of well water was used for _____ purposes.

10. Additional Information:

ALL USERS MUST EXECUTE THE FOLLOWING AFFIDAVIT

AFFIDAVIT

I hereby certify that the above is true and correct to the best of my knowledge and belief.

Witness my hand at Big Bend NP, Texas, this the 12th day of February, 1970.
(Sgd.) LUTHER T. PETERSON, JR.

(Signature)

Subscribed and sworn to before me, the undersigned authority, on this the 12th day of Feb., 1970.

Charles T. Shannon
Notary Public in and for ND Co.
Brewster County, Texas.

(SEAL)

NR#13

TEXAS WATER RIGHTS COMMISSION

Sam Houston State Office Building
Area Code 512 475-2913
P. O. Box 12396 Capitol Station
AUSTIN, TEXAS 78711

FORM FOR RECORDATION OF CERTAIN WATER CLAIMS AS REQUIRED BY THE WATER RIGHTS ADJUDICATION ACT OF 1967 (SECTION 4, ARTICLE 7542A, VERNON'S CIVIL STATUTES). THIS FORM SHALL BE TYPEWRITTEN OR PRINTED LEGIBLY WITH INK. MAIL THE ORIGINAL TO THE TEXAS WATER RIGHTS COMMISSION IN THE ENCLOSED SELF ADDRESSED ENVELOPE.

1. Name and address of claimant:

Superintendent
Big Bend National Park, Texas 79834

DO NOT WRITE
IN THIS SPACE

Claim No.: _____
County: _____
River or
Coastal Basin ..: _____
Purpose of Use: _____
Date Filed: _____
Date Recorded..: _____
Volume....., p....., Water
Rights Adjudication Act Claims
Record.

2. Nature of Claim:

- a. Type of claim Riparian (State of Texas Number, 58250)
b. Purpose of use Municipal & Irrigation
(Irrigation, Municipal, Mining, Industrial, etc.)
c. Date of construction of diversion and/or distribution facilities February, 1954
d. Date of first beneficial use of water April 16, 1954

3. General Location:

- a. County Brewster, Original Survey or Grant Survey No. 5, Block G-19
GC & SF RR Co. Grant
b. Spring No. 1 & No. 4, a tributary to Rio Grande River
(Stream or Watercourse) (River)
in Rio Grande River Basin.
c. Location from a nearby town: 90 miles in a southerly
direction from Marathon, Texas.

4. Diversion Works:

- See attached Plan
a. Location of point of diversion NP-RB 3030 feet (distance and direction) from the _____
corner of _____ Original Survey No. _____, Abstract No. _____
in _____ County, Texas.

b. The diversion is: (Check appropriate box)

- (1) Directly from the stream ☐; (2) From an on-channel reservoir ☐; (3) From a stream to an off-channel reservoir ☐; (4) Other method (explain fully) ☒

The diversions at Spring No. 1 and 4 consist of collection galleries constructed directly over each spring.

(Attach additional sheets as necessary)

c. Describe diversion and distribution facilities.

The primary source of supply is Spring No. 4. A standby source for municipal purposes is provided by Spring No. 1. Pumps at the collection galleries of both springs supply water to a 400,000 gallon storage tank, from which water flows by gravity throughout the distribution system. Overflow from Spring No. 1, estimated at 7 gallons per minute, flows by gravity through a 2 inch waterline into two ponds. Water is also pumped from Spring No. 1 into a fish research pond. Water from Spring No. 4 is used mainly for municipal purposes with only a small amount being used for the irrigation of trees around a concessionaire operated trailer court.
Spring No. 1: Type of Pump - Shaft turbine. Make - Jacuzzi. Size of Intake - 2½". Size of Outlet - 4". Rated Capacity - 25 gpm. Static Lift - 186'. Kind of Power - 220/440v, 3 phase. Description of Powerplant - power obtained from REA pump operated by a 3 H.P. G.E. Motor.
Spring No. 4: Type of Pump - Centrifugal. Make - Aurora. Size of Intake - 1½". Size of Outlet - 4". Rated Capacity - 25 gpm. Static Lift - 215'. Kind of Power - 220/440v, 3 phase. Description of Powerplant - power obtained from REA, pump operated by a 3 H.P. G.E. Motor.

5. Dam and Reservoir Information:

- a. Location of dam is approximately _____ feet in a _____ direction from the _____ corner of _____ Original Survey No. _____, Abstract No. _____ in _____ County, Texas.

b. Acre-feet of water impounded by structure at normal maximum operating level. _____

c. Surface area, in acres, of reservoir at normal maximum operating level. _____

6. Lands to be Irrigated: (If applicable)

a. Total number of acres capable of irrigation with existing system. 5

b. Total number of acres to be irrigated in any one year. 1

c. Legal description of the tracts of land in which irrigation is claimed. _____

On federal owned land in Big Bend National Park, Texas (Proof of ownership to be furnished upon request.)

See area shaded in red on Plan NP-28 3030.

(Attach additional sheets as necessary)

7. Historical Use during the following period:

Year	Public Waters Diverted (Acre-feet/annum)	Rated Pump Capacity In Gallons Per Minute or if not pump, diversion capacity in Cubic Feet Per Second	Irrigators tabulate Acres actually irrigated each year with Public Waters.
1963		Spring No. 1 = 25 gpm	
1964	12.8	Spring No. 4 = 30 gpm	1 Acre
1965	14.5	" " "	1 Acre
1966	15.9	" " "	1 Acre
1967	17.1	" " "	1 Acre
	25.8	" " "	1 Acre

8. Have you commenced or completed construction of facilities that will allow beneficial use of a greater quantity of water than was reported under Paragraph 7 above? Yes ☐ No ☒

If answer is yes, describe facilities for increasing use.

(Attach additional sheets as necessary)

9. The dam, reservoir, irrigated areas, pipelines, canals, original surveys with abstract numbers are shown on the aerial photograph or a map accompanying this claim.

Refer to Plan MP-BB 3030.

10. a. Does the tract for which you claim an irrigation right border on the stream from which you claim to have the right to divert? Yes ☐ No ☒
- b. Do you have a ditch or pipeline easement or license to cross the intervening land or facility? Yes ☐ No ☒
- c. Does surface water falling on your land drain naturally into the stream mentioned in 10. a.? Yes ☐ No ☒

THE STATE OF TEXAS

COUNTY OF

Brewster

Before me, the undersigned authority in and for said County and State on this day personally appeared

Luther T. Peterson, Jr. who being by me duly sworn on oath stated that the statements in the foregoing instrument are true and correct to the best of his knowledge and belief.

Superintendent

Claimant

Subscribed and sworn to before me this 29 day of August 1969.

(SFAL)

Notary Public
County, Texas.

William L. Thompson
Brewster Unit 1046 Comm.

TEXAS WATER RIGHTS COMMISSION
P.O. BOX 12396, CAPITOL STATION
AUSTIN, TEXAS 78711

REPORT OF SURFACE WATER USED FOR THE YEAR ENDING ON DECEMBER 31

1966

DUPLICATE — RETAIN FOR YOUR FILES

NOTE: WATER USED UNDER EACH PERMIT, CERTIFIED FILING, OR OTHER WATER RIGHT MUST BE REPORTED ON A SEPARATE REPORT OF WATER USE. The Statutes of Texas* require all users of public waters to keep records of and to file annual reports with the Texas Water Rights Commission showing such use. Please use additional sheets if necessary to complete answers to any questions.

Change, if any, in ownership:

None

NATIONAL PARK SERVICE
SUPERINTENDENT
BIG BEND NATIONAL PARK, TEXAS

Changes, if any, in address:

None

Street or Route

City
 Riparian

State

No. **38185**

Certified

Permit

Filing No. _____

No. _____

1. Name of stream or canal from which water was diverted Spring #4 Rio Grande Village, Boquillas Spring,
 If you have a reservoir, please state: Oak Spring, Cattail Spring

(a) Name of reservoir: Present

Original

(b) Present capacity of reservoir _____

(c) Condition of dam _____

2. The amount of water used was determined by: (a) Recording meter Recording Meters (b) Wier _____
 (c) Flume _____ (d) Other method of estimating quantity used (explain) _____

3. Detail of amount of surface water used: **[ALL USERS]**

In the appropriate column or columns below, show by months the amounts of water used for each purpose covered by this report. If your record is by gallons, convert to acre-feet. (325,851 gal. = 1 ac-ft)

Mo.	Municipal & Domestic Use	Industrial Use	Irrigation Use	Mining Use	Hydro- electric Use	Recreation Use	Other Uses	Maximum Diversion Rate**	
								CFs	GPM
Jan	.95								89
Feb	1.15								"
Mar	3.13								"
Apr	3.35								"
May	2.19								"
Jun	3.59								"
Jul	3.90								"
Aug	4.46								"
Sep	3.32								"
Oct	1.96								"
Nov	3.60								"
Dec	1.82								"
TOTAL	33.42								

**Indicate gal.
per minute or
cubic feet per
second.

Total acre-feet surface water used: _____

4. WELL WATER is not to be included in the figures reported under item number 3 above. However, for planning purposes only, the Commission is interested in obtaining figures for the total quantity of well water used during the year: None acre-feet.

*Articles 7611, 7612, and 7612a, Revised Civil Statutes of Texas

See T.W.R.B. Code No. 88952

(See reverse side)

If all of the water reported was not obtained from your facilities, please state name of supplier and approximate amount of water obtained from such source.

Name None Amount _____ Acre-Feet _____

6. If you supplied water to other users, give the names of those supplied, quantities of water supplied, and purpose for which the water was used. Was this water reported under Item Number 3?

Name and Address	Purpose	Acre-Feet
<u>None</u>		

7. Irrigators Only:

During the year None acres were irrigated under this water right.

On _____ acres only 1 crop was produced.

On _____ acres 2 crops were produced.

On _____ acres _____ crops were produced.

This property is located in the _____ Survey or Surveys
No(s) _____ in _____ County.

Water was applied as follows:

Crop	Acres	Number of Waterings	Average Depth in Inches Applied Per Irrigation
1.			
2.			
3.			
4.			
5.			

PLEASE DO NOT SHOW ANY DUPLICATION OF USE

8. Municipal Users Only:

The amount of water returned to the stream as sewage effluent was _____ acre-feet.

The amount of sewage effluent used for irrigation, industrial, or other purposes was _____ acre-feet. Estimated population served at the end of the year was: 250

9. Industrial Users Only:

Type of Industry: None

Of the amount of surface water reported on this form as being used during the year, the amount or percentage actually consumed was _____ acre-feet or _____ %.

10. Additional Information:

ALL USERS MUST EXECUTE THE FOLLOWING AFFIDAVIT

AFFIDAVIT

I hereby certify that the above is true and correct to the best of my knowledge and belief.

Witness my hand at Big Bend National Park, Texas, this the 20th day of January, 1967.

/s/ Perry E. Brown

(Signature)

Subscribed and sworn to before me, the undersigned authority, on this the 20th day of

January, 1967

Notary Public in and for

(SEAL)

Notary

County, Texas

TEXAS WATER RIGHTS COMMISSION
P.O. BOX 12394, CAPITOL STATION
AUSTIN, TEXAS 78711

REPORT OF SURFACE WATER USED FOR THE YEAR ENDING DECEMBER 31, 1965

DUPLICATE — RETAIN FOR YOUR FILES

NOTE: WATER USED UNDER EACH PERMIT, CERTIFIED FILING, OR OTHER WATER RIGHT MUST BE REPORTED ON A SEPARATE REPORT OF WATER USE. The Statutes of Texas* require all users of public waters to keep records of and to file annual reports with the Texas Water Rights Commission showing such use. Please use additional sheets if necessary to complete answers to any questions.

Change, if any, in ownership:

NONE

NATIONAL PARK SERVICE
SUPERINTENDENT
BIG BEND NATIONAL PARK, TEXAS

Changes, if any, in address:

NONE

Street or Route

City
Riparian

State

No.

38185

Certified

Permit

Filing No.

No.

1. Name of stream or canal from which water was diverted Spring #4 Rio Grande Village, Boquillas Sprng, Oak Sprng
If you have a reservoir, please state: Cattail Spring

- (a) Name of reservoir: Present Original _____
(b) Present capacity of reservoir _____
(c) Condition of dam _____

2. The amount of water used was determined by: (a) Recording meter Recording Meters (b) Wier _____
(c) Flume _____ (d) Other method of estimating quantity used (explain) _____

3. Detail of amount of surface water used: (ALL USERS)

In the appropriate column or columns below, show by months the amounts of water used for each purpose covered by this report. If your record is by gallons, convert to acre-feet. (325,851 gal. = 1 ac. ft.)

Mo.	Municipal & Domestic Use	Industrial Use	Irrigation Use	Mining Use	Hydro- electric Use	Recreation Use	Other Uses	Maximum Diversion Rate**	
								CFS	GPM
Jan	2.60								89
Feb	1.94								62
Mar	2.81								91
Apr	1.85								60
May	3.07								100
Jun	1.99								64
Jul	2.99								96
Aug	1.33								43
Sep	2.00								65
Oct	3.91								125
Nov	1.86								61
Dec	3.76								120
TOTAL	29.51								

Total acre-feet surface water used: _____

**Indicate gal.
per minute or
cubic feet per
second.

4. WELL WATER is not to be included in the figures reported under item number 3 above. However, for planning purposes only, the Commission is interested in obtaining figures for the total quantity of well water used in 1965: NONE acre feet.

*Articles 7611, 7612, and 7612a, Revised Civil Statutes of Texas

See T.W.R.B. Code No. 88952

(See reverse side)

If all of the water reported was obtained from your facilities, please state name of supplier and approximate amount of water obtained from such source.

Name None Amount None Acre-Feet None

If you supplied water to other users, give the names of those supplied, quantities of water supplied, and purpose for which the water was used. Was this water reported under Item Number 3?

Name and Address	Purpose	Acre-Feet
<u>None</u>		

7. Irrigators Only:

In 1965 None acres were irrigated under this water right.

On None acres only 1 crop was produced.

On None acres 2 crops were produced.

On None acres None crops were produced.

This property is located in the None Survey or Surveys
 (a/s) None in None County.

Water was applied as follows:

Crop	Acres	Number of Waterings	Average Depth in Inches Applied Per Irrigation
1. <u>None</u>			
2. <u>None</u>			
3. <u>None</u>			
4. <u>None</u>			
5. <u>None</u>			

PLEASE DO NOT SHOW ANY DUPLICATION OF USE

8. Municipal Users Only:

The amount of water returned to the stream as sewage effluent was None acre-feet.

The amount of sewage effluent used for irrigation, industrial, or other purposes was None acre-feet. Estimated population served at the end 1965 was 185 people served

250

9. Industrial Users Only:

Type of Industry: None

Of the amount of surface water reported on this form as being used during 1965, the amount or percentage actually consumed was None acre-feet or None %.

10. Additional Information:

None

None

None

None

None

ALL USERS MUST EXECUTE THE FOLLOWING AFFIDAVIT

AFFIDAVIT

I hereby certify that the above is true and correct to the best of my knowledge and belief.

Witness my hand at Big Bend National Park, Texas, this the 21 day of February, 1966

/s/ Perry E. Brown

(Signature)

Subscribed and sworn to before me, the undersigned authority, on this the Twenty-first day of

February 1966

/s/ Charley E. Shannon

Notary Public in and for

United States: Commissioner County, Texas
Brewster

(SEAL)

TEXAS WATER COMMISSIONP. O. BOX 12311, CAPITOL STATION
AUSTIN, TEXAS 78711**REPORT OF SURFACE WATER USED FOR THE YEAR ENDING DECEMBER 31, 1964**

ORIGINAL - RETURN TO COMMISSION

NOTE: WATER USED UNDER EACH PERMIT, CERTIFIED FILING, OR OTHER WATER RIGHT MUST BE REPORTED ON A SEPARATE REPORT OF WATER USE. The Statutes of Texas* require all users of public waters to keep records of and to file annual reports with the Texas Water Commission showing such use. Please use additional sheets if necessary to complete answers to any questions.

Change, if any, in ownership:

NONE

15

Changes, if any, in address:

NONE

Street or Route

City
Riparian

State

Certified

Permit

Filing No.

No.

No.

38185

1. Name of stream or canal from which water was diverted
- Various Springs

If you have a reservoir, please state:

(a) Name of reservoir

(b) Present capacity of reservoir

(c) Condition of dam

2. The amount of water used was determined by: (a) Recording meter
- X
- , (b) Wier
-
- (c) Flume, (d) Other method of estimating quantity used (explain)

3. Detail of amount of surface water used: (ALL USERS)

In the appropriate column or columns below, show by months the amounts of water used for each purpose covered by this report. If your record is by gallons, convert to acre-feet. (325,851 gal. = 1 ac. ft.)

Mo.	Municipal & Domestic Use	Industrial Use	Irrigation Use	Mining Use	Hydro- electric Use	Recreation Use	Other Uses	Maximum Diversion Rate**	
								CFS	GPM
Jan	1,645								124
Feb	952								72
Mar	2,631								198
Apr	3,051								235
May	2,743								206
Jun	2,756								207
Jul	4,004								309
Aug	2,281								172
Sep	3,920								296
Oct	1,898								144
Nov	1,898								144
Dec	2,289								173
TOTAL	30,068								

**Indicate gal.
per minute or
cubic feet per
second.

Total acre-feet surface water used: 30.068

4. WELL WATER is not to be included in the figures reported under item number 3 above. However, for planning purposes only, the Commission is interested in obtaining figures for the total quantity of well water used in 1964:
- 26.47
- acre feet.

*Articles 7611, 7612, and 7612a, Revised Civil Statutes of Texas
C-36 (62-2)

(See reverse side)

5. If all of the water reported was not obtained from your facilities, please state name of supplier and approximate amount of water obtained from such source.

Name NONE Amount NONE Acre-Feet

6. If you supplied water to other users, give the names of those supplied, quantities of water supplied, and purpose for which the water was used. Was this water reported under Item Number 3?

Name and Address	Purpose	Acre-Feet

7. Irrigators Only:

In 1964 _____ acres were irrigated under this water right.

On _____ acres only 1 crop was produced.

On _____ acres 2 crops were produced.

On _____ acres _____ crops were produced.

This property is located in the _____ Survey or Surveys
No(s) _____ in _____ County.

Water was applied as follows:

Crop	Acres	Number of Waterings	Average Depth in Inches Applied Per Irrigation
1.			
2.			
3.			
4.			
5.			

PLEASE DO NOT SHOW ANY DUPLICATION OF USE

8. Municipal Users Only:

The amount of water returned to the stream as sewage effluent was _____ acre-feet.

The amount of sewage effluent used for irrigation, industrial, or other purposes was _____
acre-feet. Estimated population served at the end of 1964 was: _____

9. Industrial Users Only:

Type of Industry: _____

Of the amount of surface water reported on this form as being used during 1964, the amount or percentage actually consumed was _____ acre-feet or _____ %.

10. Additional Information:

ALL USERS MUST EXECUTE THE FOLLOWING AFFIDAVIT

AFFIDAVIT

I hereby certify that the above is true and correct to the best of my knowledge and belief.

Witness my hand at Big Bend National Park, Texas, this the 22nd day of January, 1965.

Perry E. Brown **Perry E. Brown**
(Signature) **Superintendent**

Subscribed and sworn to before me, the undersigned authority, on this the 22nd day of

January, 1965

Charles E. Harrison
Notary Public in and for
Presidio County, Texas

(SEAL)

TEXAS WATER COMMISSION

**P. O. BOX 2311, CAPITOL STATION
AUSTIN 11, TEXAS**

REPORT OF SURFACE WATER USED FOR THE YEAR ENDING DECEMBER 31, 1963

DUPLICATE - RETAIN FOR YOUR FILES

NOTE: WATER USED UNDER EACH PERMIT, CERTIFIED FILING, OR OTHER WATER RIGHT MUST BE REPORTED ON A SEPARATE REPORT OF WATER USE. The Statutes of Texas* require all users of public waters to keep records of and to file annual reports with the Texas Water Commission showing such use. Please use additional sheets if necessary to complete answers to any questions.

Change, if any, in ownership:

NONE

**NATIONAL PARK SERVICE
SUPERINTENDENT
BIG BEND NATIONAL PARK, TEXAS**

Changes, if any, in address:

NONE

Street or Route

City

State

Riparian

No.

38185

15

Certified

Permit

Filing No.

No.

1. Name of stream or canal from which water was diverted Various Springs

If you have a reservoir, please state:

- (a) Name of reservoir _____
(b) Present capacity of reservoir _____
(c) Condition of dam _____

2. The amount of water used was determined by: (a) Recording meter X, (b) Wier _____
(c) Flume _____, (d) Other method of estimating quantity used (explain) _____

3. Detail of amount of surface water used: (ALL USERS)

In the appropriate column or columns below, show by months the amounts of water used for each purpose covered by this report. If your record is by gallons, convert to acre-feet. (325,851 gal. = 1 ac. ft.)

Mo.	~~Domestic~~ & Domestic Use	Industrial Use	Irrigation Use	Mining Use	Hydro- electric Use	Recreation Use	Other Uses	Maximum Diversion Rate**	
								CFS	GPM
Jan	1,597								120
Feb	0,924								70
Mar	2,554								192
Apr	2,962								228
May	2,663								200
Jun	2,676								201
Jul	3,888								300
Aug	2,215								167
Sep	3,806								287
Oct	1,843								140
Nov	1,843								140
Dec	2,222								168
TOTAL	29,193								

Total acre-feet surface water used: 29.193

**Indicate gal.
per minute or
cubic feet per
second.

4. WELL WATER is not to be included in the figures reported under item number 3 above. However, for planning purposes only, the Commission is interested in obtaining figures for the total quantity of well water used in 1963: 25.700 acre feet.

*Articles 7611, 7612, and 7612a, Revised Civil Statutes of Texas
C-36 (62-2)

(See reverse side)

5. If all of the water reported was not obtained from your facilities; please state name of supplier and approximate amount of water obtained from such source.

Name NONE Amount _____ Acre-Feet _____

6. If you supplied water to other users, give the names of persons supplied, quantities of water supplied, and purpose for which the water was used. Was this water reported under Item Number 3? _____

Name and Address	Purpose	Acre-Feet
NONE		

7. Irrigators Only:

In 1963, _____ acres were irrigated under this water right.

On _____ acres only 1 crop was produced.

On _____ acres 2 crops were produced.

On _____ acres _____ crops were produced.

This property is located in the _____ Survey or Surveys
No(s) _____ in _____ County.

Water was applied as follows:

Crop	Acres	Number of Waterings	Average Depth in Inches Applied Per Irrigation
1.			
2.			
3.			
4.			
5.			

PLEASE DO NOT SHOW ANY DUPLICATION OF USE

8. Municipal Users Only:

The amount of water returned to the stream as sewage effluent was _____ acre-feet.

The amount of sewage effluent used for irrigation, industrial, or other purposes was _____
acre-feet. Estimated population served at the end of 1963 was: _____

9. Industrial Users Only:

Type of Industry: _____

Of the amount of surface water reported on this form as being used during 1963, the amount or percentage actually consumed was _____ acre-feet or _____ %.

10. Additional Information:

ALL USERS MUST EXECUTE THE FOLLOWING AFFIDAVIT

AFFIDAVIT

I hereby certify that the above is true and correct to the best of my knowledge and belief.

Witness my hand at Big Bend National Park, Texas, this the _____ day of _____ 196_____.

(Signed) Coleman C. Newman, Superintendent
(Signature)

Subscribed and sworn to before me, the undersigned authority, on this the _____ day of _____

_____, 196_____.

Notary Public in and for

(SEAL)

_____, County, Texas

TEXAS WATER COMMISSION
P. O. BOX 2311, CAPITOL STATION
AUSTIN 11, TEXAS

REPORT OF SURFACE WATER USED FOR THE YEAR ENDING DECEMBER 31, 1962

ORIGINAL - RETURN TO COMMISSION

NOTE: WATER USED UNDER EACH PERMIT, CERTIFIED FILING, OR OTHER WATER RIGHT MUST BE REPORTED ON A SEPARATE REPORT OF WATER USE. The Statutes of Texas* require all users of public waters to keep records of and to file annual reports with the Texas Water Commission showing such use. Please use additional sheets if necessary to complete answers to any questions.

Change, if any, in ownership:

A certified copy of instrument conveying water rights to the new owner:

☐ is attached ☐ will be sent

Changes, if any, in address:

National Park Service
 Superintendent
 Big Bend National Park, Texas

Street or Route

City

State

Certified Filing No. Permit No. 38185 (various Springs)
 (Oak Spring, Govt. Spring, Santa Elena Well, Graham Spring, Boquillas Spring)

1. Name of stream or canal from which water was diverted Various Aquifers resulting in spring flow.
 If you have a reservoir, please state:

- (a) Name of reservoir _____
 (b) Present capacity of reservoir _____
 (c) Condition of dam _____

2. The amount of water used was determined by: (a) Recording meter X (Major Springs), (b) Wier _____
 (c) Flume _____, (d) Other method of estimating quantity used (explain) _____
3 small springs were estimated

3. Detail of amount of surface water used: (ALL USERS)
 In the appropriate column or columns below, show by months the amounts of water used for each purpose covered by this report. If your record is by gallons, convert to acre-feet. (325,851 gal. = 1 ac. ft.)

Mo.	Domestic & Domestic Use	Industrial Use	Irrigation Use	Mining Use	H. & Electric Use	Recreation Use	Other Uses	Maximum Diversion Rate**	
								CFS	GPM
Jan	1.878								200
Feb	.821								100
Mar	.959								100
Apr	1.756								200
May	.428								80
Jun	2.714								250
Jul	2.330								250
Aug	2.674								250
Sep	.960								100
Oct	2.532								200
Nov	1.967								190
Dec	.163								60
TOTAL	19.182								

19.182 (Riparian Springs & Well)

Total acre-feet surface water used:

**Indicate gal. per minute or cubic feet per second.

4. WELL WATER is not to be included in the figures reported under item number 3 above. However, for planning purposes only, the Commission is interested in obtaining figures for the total quantity of well water used in 1962: 24 acre feet.

*Articles 7611, 7612, and 7612a, Revised Civil Statutes of Texas
 C-36 (62-2)

(See reverse side)

of the water reported was not obtained from your facilities, please state name of supplier and approximate amount of water obtained from such source.

Name _____ Amount _____ Acre-Feet _____

6. If you supplied water to other users, give the names of persons supplied, quantities of water supplied, and purpose for which the water was used. Was this water reported under Item Number 3? _____

Name and Address	Purpose	Acre-Feet

7. Irrigators Only:

In 1962 _____ acres were irrigated under this water right.
 On _____ acres only 1 crop was produced.
 On _____ acres 2 crops were produced.
 On _____ acres _____ crops were produced.

This property is located in the _____ Survey or Surveys
 No(s) _____ in _____ County.

Water was applied as follows:

Crop	Acres	Number of Waterings	Average Depth of Water in Inches	Acre-feet Used
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				

PLEASE DO NOT SHOW ANY DUPLICATION OF USE

8. Municipal Users Only:

The amount of water returned to the stream as sewage effluent was _____ acre-feet.
 The amount of sewage effluent used for irrigation, industrial, or other purposes was _____
 acre-feet. Estimated population served at the end of 1962 was: _____

9. Industrial Users Only:

Type of Industry: _____
 Of the amount of surface water reported on this form as being used during 1962, the amount or percentage actually consumed was _____ acre-feet or _____ %.

10. Additional Information:

These are various springs throughout the National Park that serve single dwellings,
small groups of dwellings, or public lodge facilities.

The one well is located near the bank of the Rio Grande

ALL USERS MUST EXECUTE THE FOLLOWING AFFIDAVIT

AFFIDAVIT

I hereby certify that the above is true and correct to the best of my knowledge and belief.

Witness my hand at Big Bend National Park, Texas, this the 27 day of February, 19663.

(SIGNED) STANLEY C. JOSEPH
 (Signature)

Subscribed and sworn to before me, the undersigned authority, on this the 27th day of

February, 196 63.

Notary Public in and for

rewater County, Texas

(SEAL)

TEXAS BOARD OF WATER ENGINEERS
P. O. BOX 2311 CAPITOL STATION
AUSTIN, TEXAS

REPORT OF WATER USE - 1960

NOTE: WATER USED UNDER EACH PERMIT, CERTIFIED FILING OR OTHER WATER RIGHT MUST BE REPORTED ON A SEPARATE REPORT OF WATER USE. The Statutes of Texas* require all users of public waters to keep records of and to file annual reports with the Board of Water Engineers showing such use. Please use the reverse hereof if necessary to complete answers to any questions.

NATIONAL PARK SERVICE
SUPERINTENDENT
RE WEDIN SPRINGS
BIG BEND NATIONAL PARK TEXAS

Permit _____ Certified Filing _____

Riparian 38180
This report shall be used only for reporting water used under the above designation. Forms for reporting uses under other than the above designation will be provided upon request.

Watershed: RIO GRANDE

Please indicate any change in ownership and address from that shown above.

Present Ownership Same

Present Address Same

1. Name of stream or canal from which water was diverted:

If you have a reservoir please state:

- (a) Name of reservoir _____
(b) Present capacity of reservoir _____
(c) Condition of dam _____

2. The amount of water used was determined by: (a) Recording meter _____ (b) Wier _____
(c) Flume _____ (d) Pump rating multiplied by hours of operation X (e) Other method _____
of estimating quantity used (explain) _____

3. Detail of Amount of Water Used: (ALL USERS)

In the appropriate column or columns below, show by months the amounts of water used for each purpose covered by this report. If your record is by gallons, convert to acre-feet.
(325,851 gal. = 1 ac. ft.)

ALL USERS ARE REQUIRED BY LAW TO EXECUTE AFFIDAVIT AT END OF THIS REPORT

Quantity Used in Acre-Feet (450 gallons per minute = 2 acre-feet per 24 hour day; 450 GPM = 1 CFS)							
Mo.	Municipal & Domestic	Industrial Use	Irrigation Use	Mining Use	Hydro-electric Use	Recreation Use	Other Uses
							Maximum Diversion Rate**
							CFS GPM
Jan	0.001						20
Feb	0.003						20
Mar	0.001						20
Apr	0.005						20
May	0.004						20
Jun	0.003						20
Jul	0.003						20
Aug	0.003						20
Sep	1.227						50
Oct	1.227						50
Nov	None						
Dec	None						

TOTAL 2.477 This was water pumped from the spring

Total Acre-Feet Surface Water Used: _____

**Indicate gal. per minute or cubic feet per second.

*Articles 7611, 7612 and 7612a Revised Civil Statutes of Texas

4. If all of the water reported here was not obtained from your own facilities, please state name of supplier and approximate amount of water obtained.
Name _____ Amount _____ Acre-feet _____
5. If you supplied water to other users, give the names of persons supplied, quantities of water supplied, and purpose for which the water was used.
- | Name and Address | Purpose | No. of Ac. Ft. |
|------------------|---------|----------------|
| | | |
| | | |
6. Irrigators Only:
Please state the number of acres of land in your irrigation program: _____ acres.
Of this amount, please state the number of acres irrigated during 1960: _____ acres.
Of the acres irrigated during 1960, how many acres were irrigated to produce only one crop: _____ acres. How many acres were irrigated during 1960 to produce more than one crop: _____ acres. State the name of the survey or surveys in which the lands in your irrigation program are located: _____
Survey No. _____, Abstract No. _____, _____ County, Texas.
7. Municipal Users Only:
Indicate the amount of water returned to stream as sewage effluent: None Ac. Ft.
Indicate the amount of sewage effluent used for irrigation, industrial, or other purposes: _____ Ac. Ft. What was the estimated population connected to your system at the end of 1959 Not applicable 1960 Not applicable
8. Industrial Users Only:
Type of industry: None
Of the amount of surface water you have reported on this form as being used during 1960, estimate the quantity or percentage actually consumed: _____ Ac. Ft. or _____ %.
9. WELL WATER is not to be included in the figures reported under item number 3, however for planning purposes only the Board is interested in obtaining figures for the total quantity of well water used in 1960: _____ acre feet.
10. Other Comments:

The new water system was completed in September, 1960.

The 400,000 gallon water storage tank was filled on two occasions.

AFFIDAVIT

I hereby certify that the above is true and correct to the best of my knowledge and belief.

Witness my hand at Big Bend National Park Texas, this the 28 day of February, 19 61

Stanley C. Joseph (Signature) Superintendent

Subscribed and sworn to before me, the undersigned authority, on this the 28 day of

February, 19 61.

Charley E. Shannon
Charley E. Shannon ~~Notary Public in and for~~
U.S. Commissioner
Big Bend National Park, Texas ~~Notary Public in and for~~ _____ County, Texas

(SEAL)

Docket #3

REPORT OF WATER USED FOR THE YEAR ENDING DECEMBER 31, 1959

Article 7612, Vernon's Annotated Civil Statutes, Texas, provides for the filing of an annual report to the Board of Water Engineers by all appropriators of public waters. The report is intended to show the amount of water used and the distribution of use. Each Permit or Certified Filing must be reported separately.

Change, if any, in ownership: _____

58250

A VAN V DUNN
CHIEF WATER RESOURCES SECTION
U S DEPT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON 25 D C

Change, if any, in address: Superintendent, Big Bend National Park, Texas 15

Check the appropriate square or squares to indicate the use or uses for which your Permit was granted:
Municipal ☒; Industrial ☐;
Irrigation ☐; Mining ☐;
Hydroelectric ☐; Recreation ☐.

Source of Water:

- (1) Reservoir ☐. Name of reservoir _____
(2) Stream ☒. Name of stream Wedin Spring or Spring B or Spring #4 (same)
(3) Well ☐. (While your Permit covers only the use of surface water, information concerning the use of ground water is of value to this Board in compiling data.)

Rio Grande Water System

Method of Determining Amount of Water Used:

- (1) Recording meter ☐; (2) Wier ☐; (3) Flume ☐; (4) Pump rating multiplied by hours of operation ☒; (5) Other method of estimating quantity used ☐. Explain other method.
Three different pumps were installed at this location during the year.

Capacity of pump or pumps: 7 for 3 mo. 6 for 3 mo. 22 for 6 mo.
gal. per minute gal. per minute gal. per minute gal. per minute

Miscellaneous Information:

- (1) Was all of the water reported on this form obtained from your own facilities? yes. If not, state here the name of your supplier and the approximate amount of water obtained.
Name of Supplier _____; no. of ac. ft. _____
Name of Supplier _____; no. of ac. ft. _____
(2) Did you supply water to other users? no. If so, give the names of persons supplied, quantities supplied, and purpose for which use was made:

Name	Purpose	No. of Ac. Ft.

- (3) Was your supply of water adequate in 1959? yes. What plans, if any, do you have for increasing your supply? Improvement of water system and increased campground use will increase our water use.

Detail of Amount of Water Used: (ALL USERS)

In the appropriate column or columns below, show by months the amounts of water used for each purpose covered by this Permit or Certified Filing. While your Permit covers only the use of surface water (from reservoir or stream), information concerning the use of well water is also of value to this Board in compiling data. Please indicate such use by drawing a circle around the number of acre feet used from wells. If both sources were used during a given month (for example, 20 acre feet from a reservoir and 10 acre feet from a well), show the amount used in this manner: 20 (10). If your record is by gallons, convert to acre feet. (325,851 gal. = 1 ac. ft.)

Mo.	Quantity Used in Acre Feet (1 Acre Foot = 325,851 Gallons)						Maximum Diversion Rate	
	Municipal & Domestic Use	Industrial Use	Irrigation Use	Mining Use	Hydro-electric Use	Recreation Use	Gal. per Minute	Cu. Ft. per Second
Jan	0.007							
Feb	0.013							
Mar	0.011							
Apr	0.031							
May	0.029							
Jun	0.034							
Jul	0.037							
Aug	0.018							
Sep	0.018							
Oct	0.018							
Nov	None							
Dec	0.011							
TOTAL	0.227	This was water pumped from the spring.						

Total Acre Feet Surface Water Used: 0.227 Total Acre Feet Ground Water Used: _____ALL USERS ARE REQUIRED BY LAW TO EXECUTE AFFIDAVIT AT END OF THIS REPORT

(See Other Side of This Sheet)

Detail of Amount of Water Used: (Irrigators Only)

In the spaces below, list by months the number of acres irrigated and the depth of irrigation in inches for each crop that received water during 1959. In case well water was used for any of these irrigations, draw a circle around the number of inches so irrigated.

CROP	JAN		FEB		MAR		APR		MAY		JUN	
	Acres	In.	Acres	In.	Acres	In.	Acres	In.	Acres	In.	Acres	In.
Cotton												
Grain Sorghum												
Field Corn												
Sweet Corn												
Wheat												
Oats or Barley												
Rice												
Forage Sorghum												
Pasture												
Alfalfa												
Peanuts												
Orchard												
Sweet Potatoes												
Irish Potatoes												
Vegetable Crop												
Other Crop or Use												
CROP	JUL		AUG		SEP		OCT		NOV		DEC	
	Acres	In.	Acres	In.	Acres	In.	Acres	In.	Acres	In.	Acres	In.
Cotton												
Grain Sorghum												
Field Corn												
Sweet Corn												
Wheat												
Oats or Barley												
Rice												
Forage Sorghum												
Pasture												
Alfalfa												
Peanuts												
Orchard												
Sweet Potatoes												
Irish Potatoes												
Vegetable Crop												
Other Crop or Use												

TOTAL ACRES NONE TOTAL INCHES _____ TOTAL ACRE FEET _____ *

* Multiply total acres by total inches and then divide by 12 to get total acre feet.

Irrigators Only:

Of the number of irrigated acres reported above, how many of these acres were used to produce more than one crop during 1959? _____. How many acres do you farm which are subject to irrigation but were not irrigated during 1959? _____. How many acres are contained in the property on which you irrigate? _____. Do you own this property? _____. If not, give the name of the owner: _____; address of owner: _____; State the name of the survey in which this property is located: _____; survey number: _____; abstract number: _____; name of county: _____.

Municipal Users Only:

Indicate the amount of water returned to stream as sewage effluent: None Ac. Ft.
Indicate the amount of sewage effluent used for irrigation, industrial, or other purposes: None Ac. Ft.
What was your estimated population at the end of 1958? Not Applicable; 1959? Not Applicable.

Industrial Users Only:

Type of industry: _____
Of the amount of surface water you have reported on this form as being used during 1959, estimate the quantity or percentage actually consumed: _____ Ac. Ft. or ____ %.

AFFIDAVIT

I hereby certify that the above is true and correct to the best of my knowledge and belief.

Witness my hand at Big Bend Natl. Park Texas, this the 23rd day of Texas, 1960.

Subscribed and sworn to before me, the undersigned authority, on this the 23rd day of March, 1960.

(SEAL)

Stanley C. Jenson (Signature) Superintendent
Charley E. Shannon Notary Public in and for
U. S. Commissioner, _____ County, Texas
Big Bend National Park, Texas

REPORT OF WATER USED FOR THE YEAR ENDING DECEMBER 31, 1958

Docket 3

Please complete all applicable items on both sides of this form. The Affidavit on the reverse side must be executed by all users. IF YOU OWN MORE THAN ONE PERMIT OR CERTIFIED FILING, FILL OUT A SEPARATE REPORT FOR EACH. IF GROUND WATER WAS USED TO SUPPLEMENT THE SURFACE WATER SUPPLY, FILL OUT ITEM 6.
 SPRING 4 & B. WEDIN SPRING
 GRAHAM RANCH.

5825 NATIONAL PARK SERVICE
 U S DEPT OF INTERIOR
 WASHINGTON 25, D C

Certified Filing No. _____
 Permit No. Riparian

Do Not Write In This Space	
	A.F.
	A.F.
	A.F.
Acres Irrigated	
Remarks	

15

Change, if any, in ownership or address No change

1. Source of Water. Wedin Spring or Spring B (reservoir)(stream)
 Water was taken from _____
 The capacity of the reservoir is _____ ac. ft.
2. The amount of water used was determined by: (1) recording meter ☒ ; (2) wier ☐ ;
 (3) flume ☐ ; (4) pump rating multiplied by hours of operation ☐ ; (5) Explain any
 other method of estimating quantity used. _____

3. In the space below show the total monthly amount, preferably in acre-feet*, of surface water pumped or diverted from streams or reservoirs. Use a separate line for each purpose for which water was used, as Irrigation (Irr); Municipal (Mun); Industrial (Ind); Mining (Min); Hydroelectric (Hydro); or Recreation (Rec.)

Purpose	Quantity	Max. Diversion Rate in Gallons Per Minute	Purpose	Quantity	Max. Diversion Rate in Gallons Per Minute
Jan Irr.	.8	35	Jul Irr.	.05	35
Jan Dom.	.007	6	Jul Dom.	.022	6
Feb Irr.	.7	35	Aug Irr.	.06	35
Feb Dom.	.014	6	Aug Dom.	.016	6
Mar Irr.	1.5	35	Sep Irr.	None	
Mar Dom.	.010	6	Sep Dom.	.015	6
Apr Irr.	2.5	35	Oct Irr.	.47	35
Apr Dom.	.024	6	Oct Dom.	.004	6
May Irr.	.55	35	Nov Irr.	None	
May Dom.	.050	6	Nov Dom.	.010	6
Jun Irr.	None	35	Dec Irr.	None	
Jun Dom.	.040	6	Dec Dom.	.004	6

*Note: One acre-foot equals
 325,829 gallons.

Totals: Irr. 6.63 Acre-foot
 Dom. .206 Acre-foot

4. Was all of the water reported here obtained from your own facilities? Yes. If your answer is no, please state name of supplier and approximate amount of water obtained.
 Name Inapplicable Amount _____ Ac. Ft.
5. Did you supply water to other water users? No. If so, give the names of persons supplied, quantities of water supplied, and purpose for which use was made.

6. Was part of water supply used obtained from wells? No.
 Amount of water pumped from wells _____ Ac. Ft.
 This amount of water (was) (was not) included in figures above.
 This ground water was used for irrigation ☐ ; industrial ☐ ; municipal ☐ ; combined with surface supply ☐.

See Reverse Side

7. MUNICIPALITIES ONLY:

- (a) Total number of service connections Inapplicable
- (b) Amount of water used from your system during year _____ Ac. Ft.
- (c) Amount of water returned to stream as sewage effluent _____ Ac. Ft.
- Amount of sewage effluent used for irrigation, industrial, or other purposes _____ Ac. Ft.

8. INDUSTRIAL USERS ONLY:

Type of industry Inapplicable

Of the amount of water itemized on page 1 it is estimated that _____ acre-feet were used for process water, _____ acre-feet were used for cooling water, and _____ acre-feet were used for _____.

9. IRRIGATORS ONLY: undetermined

- (a) A total of _____ acres were irrigated under this report during 1958. These figures include _____ acres which were irrigated to produce one crop during the year and _____ acres which were irrigated to produce more than one crop during the year. Following is a breakdown of irrigation with respect to crops:

Kind of Crop	Number of Acres Irrigated	Number of Irrigations	Average Depth In Inches Applied Per Irrigation
<u>Cottonwoods</u>	<u>undetermined</u>	<u>Inapplicable</u>	<u>Inapplicable</u>

- (b) If you do not own all of the lands irrigated, please fill in the following:

I Inapplicable _____ acres of land owned by _____
(rent, lease)

(name and address)

located in the _____, Survey No. _____,
(name of survey)

Abstract No. _____, _____ County, which were irrigated.

- (c) If you own all or any part of the land that is irrigated, please fill in the following:

I own all acres located in G.U.S.F. Ry. Co., Survey No. Block 6 19,
(name of survey)

Abstract No. State to U.S. Brewster _____ County, which were irrigated.

10. Additional Information

This space is provided for any remarks you may care to make with reference to your water use during the year 1958.

Water not used for domestic purposes is pumped to ponds and used to

supplement water for irrigation under Application 976, Permit 927.

Wildlife also uses water from the pond and ditches.

All users must execute the following affidavit.

AFFIDAVIT

I hereby certify that the above is true and correct to the best of my knowledge and belief.

Witness my hand at CITY OF WASHINGTON, DISTRICT OF COLUMBIA, this the _____ day of _____,

March 3, 195 9.

/s/ Grant R. Quinn
(Signature)
Chief, Water Resources Section, National Park Service

Subscribed and sworn to before me, the undersigned authority, on

this the 3rd day of March, 195 9.

/s/ Edwin A. Davis
Notary Public in and for
City of Washington, District of Columbia
Washington
County, Texas

REPORT OF WATER USED FOR THE YEAR ENDING DECEMBER 31, 1957

In compliance with Articles 7612 and 7612a of the Revised Civil Statutes of Texas, the following information is submitted regarding the diversion and use of water for the year covered by this report by the following:

825 A VAN V DUNN
CHIEF WATER RESOURCES SECTION
U S DEPT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON 25 D C

Do Not Write in This Space

AF 15*
AF
AF
Acres Irrig.
Remarks

If changed, give new address: No change

1. If your diversions are being made under a Permit or Certified Filing, please give the following information:

(a) If you are not the original permittee, give the name and address of the party from whom you acquired the water right: State Parks Board, Austin, Texas

(b) Give the last year permitted water was used: 19 57 State reason for non-use:

2. If your diversions are not being made under a Permit or Certified Filing, please give the following information:

(a) The water was diverted from See Note 1 (river, stream or lake).

(b) Does the land you are irrigating adjoin the stream from which diversions are being made: Yes (Yes or No)

(c) In what survey does your land lie: See Note 2 Survey, County, Texas.

3. Check (X) purposes for which water was used during period covered by this report:

(X) Irrigation () Industrial () Recreation
(X) Domestic () Municipal (X) Game Preserve
() Mining () Steam Power () Hydro-electric
(Oil field water flooding) (Electric) Power

4. Give the quantity and the maximum rate at which water was diverted from surface water supplies. Show separately each use checked in item 3 above.

	Purpose	Acre Ft.	Max. Rate in GPM		Purpose	Acre Ft.	Max. Rate in GPM
January	Irrigation	1.02	30	August	Irrigation	1.67	30
	Domestic	-	6		Domestic	.021	6
	Game Preserve (wildlife)	overflow			Game Preserve (wildlife)	overflow	
February	Irrigation	0.31	30	September	Domestic	.020	6
	Domestic	.009	6		Irrigation	1.17	30
	Game Preserve (wildlife)	overflow			Game Preserve (wildlife)	overflow	
March	Irrigation	1.23	30	October	Domestic	.022	6
	Domestic	.009	6		Irrigation	1.06	30
	Game Preserve (wildlife)	overflow			Game Preserve (wildlife)	overflow	
April	Irrigation	1.15	30	November	Irrigation	0.75	30
	Domestic	-	6		Domestic	.004	6
	Game Preserve (wildlife)	overflow			Game Preserve (wildlife)	overflow	
May	Irrigation	1.20	30	December	Irrigation	0.50	30
	Domestic	0.13	6		Domestic	-	6
	Game Preserve (wildlife)	overflow			Game Preserve (wildlife)	overflow	
June	Irrigation	0.91	30	*Totals		11.975	
	Domestic	.022	6				
	Game Preserve (wildlife)	overflow					
July	Irrigation	1.42	30				
	Domestic	.023	6				
	Game Preserve (wildlife)	overflow					

* It is essential that you complete this section.

5. How did you determine the reported amount of water used: by meter
6. (a) Was any part of the above reported water provided by a Water Control and Improvement District, River Authority, Irrigation Company, or other water supplier?
No (Yes or No).
- (b) If yes, by whom: _____ What amount? _____ acre feet.
7. How are diversions being made? Gravity flow (). Pumping (☒).
8. If you are pumping, give the following information:
- | Size of Pump | Capacity in Gallons Per Minute | Horsepower of Engine or Motor | Lift in Feet |
|---------------------------------|--------------------------------|-------------------------------|------------------|
| <u>2-1/2"</u> | <u>90 rating</u> | <u>7 1/2</u> | <u>7-Section</u> |
| <u>Dayton-Bowl</u> | <u>(See Note 3)</u> | | <u>40-lift</u> |
| <u>Serial 38264, Type DC 82</u> | | | |
9. If you have a dam and reservoir, what was the original reservoir capacity? _____ acre feet; surface area? _____ acres; construction material? _____ (concrete, earth). Was it constructed with governmental assistance? _____ if so, which agency? Inapplicable (See Note 4)
10. What is the general condition of your dam? _____ Pumps? Four Engines, motors? _____ Canals? Good Other equipment? _____ (laterals, sprinkler system, etc.)
11. To be completed by municipal users only:
- (a) Are you supplementing your appropriation by ground water? _____ (Yes or No)
- (b) If so, what was the total amount of ground water used last year? _____ Was this figure included in the calculations on the reverse side hereof? _____
- (c) Is sewage effluent being returned to the stream? _____. If so, give the quantity returned last year. _____. If not, what disposition was made of sewage effluent? *** Inapplicable
12. To be completed by industrial users only:
- Give the amount of water actually consumed out of amount used: _____
13. To be completed by irrigators only:
- | Kind of Crop | Number of Acres Irrigated | Number of Irrigations* | Average Depth in Inches Applied per Irrigation |
|------------------------------|---------------------------|------------------------|--|
| <u>Cottonwood-Willows</u> | <u>1/2</u> | <u>Inapplicable</u> | <u>Inapplicable</u> |
| <u>and other shade trees</u> | | | |
- *Any application of water to rice lands should be considered as a separate irrigation.
- (b) How many acres of your land were irrigated during 1957: 1/2 acres.
- (c) Give the number of acres of land that you irrigated in the Permit area: 1/2 acres; outside of the Permit area 1/2 acres.
- (d) Are you supplying water to others from your system which is not accounted for above? No (Yes or No). If so, list names and amount supplied in the space provided for additional information.

ADDITIONAL INFORMATION

See attached Notes 1, 2, 3 and 4

Witness my hand at Washington, D. C. this the 20 day of February, 1958Subscribed and sworn to before me, A. van V. Dunn, Chief, Water Resources Section, NPS (Signature)
February, 1958, on this the 20 day of

Do Not Write in This Space

Lorin A. Davis
Notary Public in and for
My Commission Expires December 14, 1961 County, Texas

NOTE 1 - Diverted from Spring B on previously submitted report for 1956, and map NF-EB-6951-A. This spring now has been designated as Wedin Spring.

NOTE 2 - Land lie: Sec. 5 or 6 Block G-19-GC & SF Ry. Co. (Section line not fully determined). Survey, Brewster County, Texas.

NOTE 3 - Suction and pump lines both reduced from 2½" to 1½" near pump. Actual checks with meter and stop watch on August 16 indicated average pump deliveries between 53 and 64 gpm, and minimum of 35.6 gpm when water in pump sump was at extremely low level. Tests made by timing metered delivery of 100 gallons with stop watch reading to 0.2 second.

NOTE 4 - Springs are in bottom of concrete walled spring well approximately 10 ft. X 10 ft. with capacity of about 5,000 gallons. Water pumped into reservoir with potential surface area of 2.3 acres, formed by earth levees and dam, whence water for irrigation is supplied by ditches. Overflow water at spring well is impounded by earth dam across the natural channel which creates pond approximately 200 feet long and 25 feet wide with dense growth of vegetation for wildlife.

Docket 3

REPORT OF WATER USED FOR THE YEAR ENDING DECEMBER 31, 1956

In compliance with Articles 7612 and 7612a of the Revised Civil Statutes of Texas, as set forth verbatim in the instruction sheet forwarded to the undersigned with this form, the following information is submitted regarding the diversion and use of water for the year covered by this report by the following:

M625 A VAN V DUNN

If changed, give new address:

CHIEF WATER RESOURCES SECTION No change

U S DEPT OF THE INTERIOR

NATIONAL PARK SERVICE

WASHINGTON 25 D C

1. If your diversions are being made under a permit or certified filing, please give the following information:

- (a) If you are not the original permittee, give the name and address of party from whom you acquired title. State Parks Board, Austin, Texas
- (b) Give the year your system was last operated. 195 6. State reason for non-operation. _____
- (c) To your knowledge, is the present point of diversion the same as originally permitted: Yes (yes or no). If not, state new location. _____
- (d) To your knowledge, have the original plans filed with the Board been changed or have alterations or extensions been made since your original system was installed? No. If so and these improvements have not been previously reported, please give a statement explaining the changes either on a separate sheet or in the space provided for additional information.

2. If your diversions are not being made under a permit or certified filing, please give the following information: The water was diverted from Spring 3 on previously submitted map M625 6051-A (river, stream or lake). Does your land adjoin the stream from which diversions are being made: Yes (yes or no). In what survey does your land lie: Sec. 5 or 6, Block C-19, Greer Tr. Co. Survey, Brewster County, Texas. (Section line not fully determined)

3. Check (X) purposes for which water was used during period covered by this report:

- (X) Irrigation () Industrial () Mining
(X) Domestic () Municipal () Game Preserve
(X) Recreation () Steam Power (electric) () Hydro-electric Power

4. How are diversions being made? Gravity (). Pumping (X).

5. If you are pumping, give the number of pumps: 1, Size 2 1/2 inch, capacity in gallons per minute 90, Horsepower of engine or motor 5 HP, Lift 10 feet. Section 8

6. What method do you use in computing the amount of water used? Rated pump capacity 1 hour operated & later by velocity in time section and meters

7. Give the quantity of water diverted from the stream per month for each particular purpose checked in item 3 above. (Before answering consult the instruction sheet for measurement of water and to convert from gallons to acre feet).

Purpose	Acre Ft.	Purpose	Acre Ft.	Purpose	Acre Ft.
January <u>irrig.</u>	<u>.398</u>	May <u>irrig.</u>	<u>.299</u>	September <u>irrig.</u>	<u>1.921</u>
February <u>irrig.</u>	<u>.116</u>	June <u>irrig.</u>	<u>1.488</u>	October <u>irrig.</u>	<u>.497</u>
March <u>irrig.</u>	<u>.531</u>	July <u>irrig.</u>	<u>3.521</u>	November <u>irrig.</u>	<u>00</u>
April <u>irrig.</u>	<u>.778</u>	August <u>irrig.</u>	<u>1.510</u>	December <u>irrig.</u>	<u>00</u>
				Total:	<u>10.999</u>

8. Are you supplying water to others from your system which is not accounted for above? No (yes or no); If so, complete applicable question below.
9. If you have a dam and reservoir, what was the original reservoir capacity? -- acre feet; height of dam? -- feet; width of dam? -- feet; surface area? -- acres; construction material? -- (concrete, earth). Was it constructed with governmental assistance? --; if so, which agency? Inapplicable
10. What is the general condition of your dam? --; Pumps? poor; Engines, motors good; Canals? --; Other equipment? Pipe - good (laterals, sprinkler system, etc.)
11. If water was used for generating hydro-electric power, give the following information: Number of days plant operated --; Capacity of plant (k. v. a.)? --; Amount of power generated for Primary? --; Secondary? --; Stand-by? Inapplicable
12. To be completed by municipal users only: Inapplicable
- (a) Are you supplementing your appropriation by ground water? -- (yes or no).
- (b) If so, what was the total amount of ground water used last year? --. Was this figure included in the calculations on the reverse side hereof? --.
- (c) Is sewage effluent being returned to the stream? --. If so, estimate the total quantity returned last year. --

13. To be completed by industrial users only:

Give the amount of water actually consumed out of amount used: Inapplicable

14. To be completed by irrigators only:

(a) Kind of Crop	Number of Acres	Number of Irrigations	Average Depth in Inches applied per each irrigation
Cottonwoods, willows & other shade trees	1/2 acre	Inapplicable	Inapplicable

(b) Give the total number of acres of land that you irrigated: 1/2 acre(c) If supplying water from your system to others, list names and amount supplied in the space provided for additional information. Inapplicable

ADDITIONAL INFORMATION

Water pumped to two ponds with live storage capacity of about 100,000 gallons for irrigation from which total evaporation of 1.65 acre-feet is estimated. Rest of pumped water used to main unmeasured area of water table in addition to irrigated area, normally irrigated in part from other sources. Water applied fairly uniformly over late June, July, August & September. The whole area irrigated by this system and that covered by Permit 927 were under redevelopment, and irrigation was largely to preserve established vegetation. Domestic water consumption too small for measurement.

Witness my hand at Washington, D.C., Texas, this the 26 day of February 1957

P. V. Cant. Luna
(Signature)

Chief, Water Resources
Sec., National Park Service, Dept. of the InteriorSubscribed and sworn to before me, the undersigned authority, on this the 26 day of February, 1957.

Thomas A. Davis
Notary Public in and for
My Commission Expires December 14, 1961

County, Texas

(Return to Board of Water Engineers,
1410 Lavaca Street, Austin, Texas)

Do Not Write in This Space

WATER USE REPORT FOR THE YEAR ENDING DECEMBER 31, 1955

In compliance with Articles 7612 and 7612a of the Revised Civil Statutes of Texas, as set forth verbatim in the instruction sheet forwarded to the undersigned with this report, the following information is submitted regarding the diversion and use of water for the year covered by this report by the following:

NATIONAL PARK SERVICE
U. S. DEPARTMENT OF THE INTERIOR
WASHINGTON 25, D. C.

- The water was diverted from ~~spring designated as "B" on map~~ (river, stream or lake). ~~HP-BB-6951A, previously filed~~ into what major river or body of water does this empty? Perm. 927 Rio Grande
- Does your land adjoin the water? Yes (Yes or No). In what survey does your land lie? Sec. 6, Block 8-19 Survey, CC&SF Ry Co., Brewster County, Texas.
- Under what claim of right are your diversions being made? use by former owner of Graham Ranch, and Federal acquisition of said land from State Parks Board
- Check (X) purpose for which water was used during period covered by this report:
(☒) Irrigation () Industrial () Municipal (☒) Recreation () Mining
- Please check (X) your method of diversion:
() Gravity flow from storage () Pumping directly from stream
(☒) Pumping from storage () Gravity canal from stream
- In what year was the project installed? 1954 (Reconditioned) First use about 1925.
- If you have a dam, what is its reservoir capacity? 0.307 / or - acre-feet; height? unknown feet; width? unknown feet; construction material earth (concrete, earth, etc.). Was it constructed with governmental assistance? all. If so, which governmental agency? National Park Service
See ponds and dikes on aforesaid Drawing HP-BB-6951A.
- If you are pumping, give the number of pumps. 1, Size 3 inch, capacity in gallons per minute 50 / or -, horsepower 5, lift unknown feet.
- What type of device do you have for measuring water? Field report
not clear
- Give the quantity of water diverted for each use. (Before answering consult the instruction sheet for measurement of water.)

Purpose	Gallons	Acre-feet
<u>Irrigation</u> }	<u>1,800,000 / or -</u>	<u>5.52 / or -</u>
<u>Recreation</u> }		

11. If water was used for irrigation, give the following information:

Kind of Crop	Number of Acres	Number of Irrigations	Average depth in Inches Applied Per Each Irrigation
<u>Trees, probably cottons</u>	<u>not given</u>	<u>not given</u>	<u>not given</u>
<u>wood, willow & salt cedar</u>	<u>not given</u>	<u>not given</u>	<u>not given</u>
<u>TOTAL</u>	<u>UNKNOWN</u>		

Give the total number of acres irrigated. Unknown

12. Are you supplying water to anyone else? No (Yes or No). If so, for what purpose?
Inapplicable and in what quantities? Inapplicable acre-feet per year
13. Do you have any upstream or downstream neighbors diverting surface water? If so,
 please furnish their names and addresses.

No - Area operated in part under concession

_____ Name	_____ Address
_____ Name	_____ Address
_____ Name	_____ Address

If would be appreciated if, on the enclosed blank sheet of paper, you would furnish a sketch of your acreage in relation to the stream, pump or dam location, canals, etc.

ADDITIONAL INFORMATION

As provided by Article 7612, the amount of water herein reported as being used shall in no way limit the right of the undersigned to use all of the water which he has a right to use.

Witness my hand at Washington, D. C. Texas, this the 9th day of February, 1956.

/s/ A. van V. Dunn
 Chief (Signature) Water Resources Sec.
National Park Service

Subscribed and sworn to before me, the undersigned authority, on this the 9th day of
February, 1956

SEAL

Do Not write in this space

/s/ Lorin A. Davis
 Notary Public in and for
D. C., Comm. expires Nov. 14, 1956
County, Texas

(Return to Board of Water Engineers,
 1410 Lavaca Street, Austin, Texas)

The following final report given on 1954 reconstruction at cost of \$1,500. The spring flow is between 150 and 200 gpm.

Project started in February, 1954. Cleared three reservoir sites and pipe line site of brush and trees, deepened lower and upper reservoirs, built concrete gates with 4" and 6" gate valves in lower and upper reservoirs respectively. Built 6' x 6' pump house, cleaned out springs and repaired former bathing pool. Laid 525' of 6" water line and 75' of 3" water line. Installed 3" pump in pump house with 2½" suction line and foot valve. Repaired breaks in dikes; one section on lower dike required pouring of 6" concrete core. Twenty feet of 2" pipe with gate valves were placed through core and dike at this place. Completed project on April 16, 1954.

RPB-1/2/60
2/2/60
3/4/60

Big Bend National Park
Texas

January 29, 1960

Memorandum:

To: Park Engineer through the Chief Ranger
From: Boquillas Sub-District Acting Ranger
Subject: Pumping records for the Annual Water Use Report - 1959
Big Bend Water Right Permit 927, Docket 1, Weddin Ditch
(Daniels Ranch) and Docket 3, Spring No. 4, (Graham Ranch)

Enclosed are the 1959 pumping records for pumps operated at the Daniels Pump House and at Spring No. 4 in the Rio Grande Village Area.

Weddin Ditch, Docket 1 (Daniels Pump House)

A total of 214,140,000 gal. water was pumped from the Rio Grande during the year and distributed through irrigation ditches to approximately 3,000 planted trees in the Rio Grande Village Area. This is an increase of 65,244,000 gal. over the amount pumped from the Rio Grande during 1958.

Docket 3 (Graham Ranch) Spring No. 4

A total of 31,000 gal. of water was pumped from Spring No. 4 for domestic use. This is a decrease of 2,145,120 gal. under the amount pumped during 1958. All water pumped from Spring No. 4 during 1959 was used for employee and public campground use. None was used for irrigation, therefore, the large decrease of gallonage pumped.



John C. Arnfield
Sub-District Acting Ranger

file: L54

heet 3 of 5

BIG BEND NATIONAL PARK
Irrigation Record 1956
Graham Ranch, Spring #4 Area

1 Month	2 Date	3 Hours Pumped	4 Gals. Pumped	5 Place of Use		7 Crop	8 Remarks (Indicate irrigation cycle, limits, etc.)
				Treat No.	Area in Acres		
January	31	24	129,600	Pond #1	.598	Trass	90g./min
February	20	7	37,800	" "	.116		" "
March	5	8	43,200	" "			" "
"	13	24	129,600	" "			" "
March	2da	32hr.	172,800	" "	.531		" "
April	2	1	5,400	" "			" "
"	3	7	37,800	" "			" "
"	10	8	43,200	" "			" "
"	16	24	129,600	" "			" "
"	24	7	37,800	" "			" "
April	6da	47hr.	253,800	" "	.778		" "
May	11	2	10,800	" "			" "
"	18	12	64,800	" "			" "
"	21	1	5,400	" "			" "
"	25	3	16,200	" "			" "
May	4da	18hr.	97,200	" "	.299		" "
June	9	10	54,000	" "			" "
"	13	3	16,200	" "			" "
"	14	18	97,200	" "			" "
"	15	6	32,400	" "			" "
"	19	18	97,200	" "			" "
"	20	23	124,200	" "			" "
"	21	8	43,200	" "			" "
June	7da	86hr.	464,400	" "	1.428		" "

file: L54

Sheet 4 of 5

BIG BEND NATIONAL PARK
Irrigation Record 1956
 Graham Ranch, Spring #4

1	2	3	4	5	6	7	8
Month	Date	Hours Pumped	Gals. Pumped	Place of Use		Crop	Remarks
				Tract No.	Area in Acres		(indicate irrigation cycle, limits, etc.)
July	4	7	37,800	Pond #1		Trees	90 g./min.
"	5	4	21,600	"		"	"
"	6	24	129,600	"		"	"
"	7	24	129,600	"		"	"
"	8	8	43,200	"		"	"
"	12	13	70,200	"		"	"
"	13	15	81,000	"		"	"
"	17	12	64,800	"		"	"
"	21	16	86,400	"		"	"
"	22	24	129,600	"		"	"
"	23	18	97,200	"		"	"
"	25	5	27,000	"		"	"
"	27	10	54,000	"		"	"
"	28	24	129,600	"		"	"
"	29	8	43,200	"		"	"
July	15da.	212hrs.	174,800		3.521 ac ft.		
August	6	2	4,800	Pond #1			48 "
"	7	4	1,680	Tank			7 "
"	8	6	2,520	Tank			7 "
"	9	8	19,200	Pond #1			40 "
"	10	8	19,200	"			" "
"	13	8	19,200	"			" "
"	14	8	19,200	"			" "
"	15	8	19,200	"			" "
"	17	8	19,200	"			" "
"	18	16	38,400	"			" "
"	19	10	24,000	"			" "
"	20	9	21,600	"			" "
"	21	9	21,600	"			" "
"	22	16	38,400	"			" "
"	23	16	38,400	"			" "
"	24	8	19,200	"			" "
"	27	8	19,200	"			" "
"	28	4	1,680	Tank			7 "
"	29	24	57,600	Pond #1			40 "
"	30	20	48,000	"			" "
"	31	16	38,400	"			" "
August	21da.	216hrs.	490,680	(Pond #1 18da. 202hr. 484,800g.)			(Tank 3da. 14hr. 5,880g.)

4510 ac ft.

BIG BEND NATIONAL PARK Irrigation Record 1956							
Graham Ranch, Spring #4							
1	2	3	4	5	6	7	8
Month	Date	Hours Pumped	Gals. Pumped	Place of Use		Crop	Remarks
				Tract No.	Area in Acres		(Indicate irrigation cycle, limits, etc.)
September	2	24	57,600	Pond #1		Trees	40 g./min.
"	3	3	1,260	Tank			7 "
"	4	24	57,600	Pond #1		Trees	40 "
"	5	8	19,200	" #2		"	25 "
"	6	14	33,600	" #1		"	40 "
"	10	23	34,500	" #2		"	25 "
"	11	8	19,200	" #1		"	40 "
"	12	24	57,600	" #2		"	25 "
"	13	9	13,500	" #2		"	25 "
"	15	24	57,600	" #1		"	40 "
"	16	24	36,000	" #2		"	25 "
"	17	8	19,200	" #1		"	40 "
"	25	24	57,600	" #2		"	25 "
"	26	24	36,000	" #2		"	25 "
"	27	16	38,400	" #1		"	40 "
"	29	24	36,000	" #2		"	25 "
"	30	24	57,600	" #1	1.921	"	40 "
September	17da.	305hr.	625,260	(Pond #1 16da. 190hr. 456,000g.) (Tank 1da. 3hr. 1,260g.)			
				(Pond #2 6da. 112hr. 168,000g.)			
October	1	23	34,500	Pond #2		Trees	25 g./min.
"	2	24	57,600	" #1		"	40 "
"	3	24	36,000	" #2		"	25 "
"	4	8	19,200	" #1		"	40 "
"	23	4	1,680	Tank	3.457		7 "
October	5da.	83hrs	148,980	(Pond #1 2da. 32hrs. 76,800g.) (Tank 1da. 4hr. 1,680g.)			
				(Pond #2 2da. 47hrs. 70,500g.)			

Other Supporting Information

December 23, 1986

LS4 (479)
SWR/BIBE Water Rights

Memorandum

To: Chief
Water Resources Division

Through: Chief, Water Rights Branch
Water Resources Division

From: Hydrologist, Water Rights Branch
Water Resources Division

Subject: Trip Report (Big Bend National Park, December 7-11)

Purposes: Two purposes were served by this trip. First, a Water Rights Branch representative's presence was requested at a meeting of BIBE officials and the Rio Grande Water Master concerning fees and metering requirements. Second, advice was sought by the Superintendent and the Southwest Regional Office concerning the advisability of acquiring additional water rights on the Rio Grande.

Itinerary

Sunday, Dec. 7	Denver to El Paso Drove to Alpine, Texas
Monday, Dec. 8	Traveled to BIBE Inspected irrigation works at Castolon Chisos Basin
Tuesday, Dec. 9	Met with Superintendent and his staff Inspected springs, <u>Gambusia</u> ponds and irrigation works at Rio Grande Village
Wednesday, Dec. 10	Met with Superintendent, his staff and Water Master Inspected irrigation works at Rio Grande Village with Water Master Traveled to El Paso
Thursday, Dec. 11	Returned via Phoenix

People Contacted

Jim Carrico, Superintendent
Robert LaFrance, Chief of Maintenance
Mike Fleming, Resource Management Specialist
John Hinojosa, Rio Grande Water Master
Jose Luna, Assistant Water Master (Eagle Pass District)

Discussion

Upon arriving at BIBE, I inspected the diversion and irrigation works at Castolon. One pump with a capacity of 1000 gpm withdraws water from a concrete covered cistern located approximately 50 feet from the active channel of the Rio Grande. An 8-inch pipe conveys the water to an open ditch, which distributes water to Cottonwood Campground. The pump is equipped with an electric meter that monitors only that pump. Referring to pumping records that were provided earlier by the Superintendent, I calculated the total yearly volume of water diverted for irrigation at Castolon during the period 1980-1986. Those figures are:

1980	1981	1982	1983	1984	1985	1986
61af	142af	89af	104af	121af	261af	117af

While at Castolon, I also walked to the end of the Santa Elena Canyon Trail, which is noteworthy simply because the hike is such an exhilarating experience.

On Tuesday, I met with Superintendent Jim Carrico, Bob LaFrance, and Mike Fleming. We reviewed the Texas Water Commission's assessment of fees for water master operations on the Rio Grande, the issue concerning flow meters at diversion points, and the availability and desirability of acquiring additional water rights on the Rio Grande.

Following the meeting with the Superintendent, Bob LaFrance, Mike Fleming and I traveled to Rio Grande Village to inspect the park's second irrigation diversion site. It consists of two 1000 gpm pumps; however, the two pumps are seldom, if ever, operated simultaneously. They withdraw water directly from the river and convey it through two 10-inch discharge pipes for a distance of approximately 200 feet. The water empties into a concrete bin and flows to a settling pond. The water is distributed by gravity flow to the campground. As at Castolon, a separate electric meter serves the pumps at Rio Grande Village.

Referring again to pumping records provided earlier, I calculated the total yearly volume of water diverted for irrigation at Rio Grande Village for the period 1980-1986. Those figures are:

1980	1981	1982	1983	1984	1985	1986
508af	785af	714af	610af	454af	344af	279af

We also inspected two warm water springs at Rio Grande Village. Spring No. 1 supplies water to a display pond inhabited by an endangered mosquitofish (*Gambusia gaigei*). Spring No. 4 supplies water to another *Gambusia* pond; however, it serves also as the supply of potable water for Rio Grande Village. Mike Fleming emphasized the need for a continuous flow monitoring device at the outflow of Spring No. 4. Should Rio Grande Village's need for potable

water increase in the near future, which is likely to be the case, an accurate measure of the spring's ability to supply that need, as well as the more critical need associated with the Gambusia pond, will be required.

On Wednesday, we met with John Hinojosa and Jose Luna. The Superintendent opened discussions with them concerning the requirement of flow meters and the availability of additional water rights on the upper Rio Grande.

Mr. Hinojosa indicated that the state wants to be flexible whenever possible. But, he suggested there are other factors for the Superintendent to consider in his decision concerning the placement of flow meters: The United States may wish to reconsider its request to be excused from the Commission's requirement in light of the fact that all other water users are being required to purchase and install meters. Those people may resent the fact that the United States has been given special concessions. He added that the devices are not nearly as expensive as some people have thought. He estimated that it would cost the United States about \$1200-\$1600 to install meters at the two sites.

With respect to the availability of water rights on the upper Rio Grande, the Superintendent indicated that he had been contacted by Mr. Terry Bishop of Presidio, who is seeking to sell 42 acre feet of water. Mr. Hinojosa was aware of the fact that Mr. Bishop has been interested in selling some of his rights, but such a sale is unprecedented in the upper Rio Grande. Downstream, where such transactions have been made rather frequently, water rights have brought as much as \$600-\$1000 per acre foot. Mr. Hinojosa offered to send information concerning Mr. Bishop's right, as such information is available to the public.

Mr. Hinojosa also pointed out that the Park's water right certificate, which allows 1530 acre feet of Rio Grande water to be diverted each year, apparently identifies municipal purposes only. Since Texas defines municipal water as water that has been treated, he suggested that we may want to amend the certificate.

I called his attention to the Commission's recent fee assessment announcement, which identifies both municipal and domestic purposes. He agreed that a combination of the two purposes would more accurately define the Park's uses. Therefore, he offered to research the issue and communicate his findings to the Superintendent.

After the Superintendent's briefing, Bob LaFrance and I traveled to Rio Grande Village with Mr. Hinojosa and Mr. Luna. There, Mr. Hinojosa was able to inspect the pumping and irrigation works. He seemed to be satisfied at the procedure used to estimate diversions. We showed him the pumping records for the period 1980-1986, which demonstrate that the Park has diverted only about 43 percent of its entitlement during that period.

Mr. Hinojosa felt it was not necessary to travel to Castolon, since the irrigation works there are not significantly different from those at Rio Grande Village. Instead, he proposed to defer any action by either party until next spring. At that time, he would like to return to the Park and

measure the pumping rates at each diversion site when irrigation is actually taking place. Park officials will contact him when pumping is resumed. We returned to the Superintendent's office. The Superintendent agreed with Mr. Hinojosa's proposal to consider carefully the points made at this meeting and defer a decision until spring or summer.

With respect to the advisability of acquiring additional water rights at this time, we had all come to the same conclusion: Less than half of the Park's entitlement of 1530 acre feet is being exercised at this time. An additional 42 acre feet would increase the total right by only 2.7 percent, but at an estimated cost of \$25,000 to \$42,000. It would appear there is a more urgent need to retain the right to the Park's current entitlement. Texas law authorizes the Water Commission to cancel any portion of a water right that goes unexercised for 10 years.

One final point is noteworthy. Unless a significant number of water rights are cancelled along the upper Rio Grande, there will be no additional appropriations. Therefore, the river's flow should not be reduced except by natural occurrences or the exercise of senior water rights. It follows that it would be neither necessary nor fruitful to devote a portion of the Park's water right to instream flow or seek additional rights for instream purposes.

Upon my return to Fort Collins, I contacted Bill Bramhall and Keith Yarborough in the Southwest Regional Office and conveyed these thoughts to them.

Action Items

1. The Water Rights Branch will request from the Water Master more specific information concerning flow meters (prices, availability, maintenance requirements, etc.). That information will be passed on to the Superintendent.

2. The Park will send to the Water Rights Branch copies of other information that Mr. Hinojosa agreed to send to BISE:

- a. information concerning Mr. Bishop's water right; and
- b. the Commission's records regarding purposes associated with the Park's rights to Rio Grande water.

3. If an amendment application is in order, the Water Rights Branch will be responsible for initiating the process.

4. Park officials will notify Mr. Hinojosa when pumping resumes in the Spring of 1987. Mr. Hinojosa or one of his assistants will then measure pumping rates. A final meeting will follow, at which time the Superintendent and the Water Master will resolve the issue concerning the placement of flow meters at diversion points within the Park.

Scott Brown

D. Scott Brown

FNP:DSBrown:cs:221-5341:12/22/86:scott11

WATER SYSTEM DATA			
Area	BIG BEND		Recorded by Jim Chambers Date 6/27/72 Mo. Da. Yr.
1. Name of System:	RIO GRANDE MUNICIPAL		
2. Location: State	TEXAS	County	BREWSTER General Area RIO GRANDE VILL.
3. General Description:	This is a municipal system which supplies the concession area as well as area employees' residences. The source used is Wedin Spring.		
4. Water Rights: Type of Right	Riparian	Claim No.	
	(Riparian, Appropriative, Absolute, etc.)		
Permit No.	Docket No. W.R. #3	Remarks:	State Riparian #58250
(e.g., see addendum)			
5. Sources of Supply: No./Type of Sources	1/Spring		
	(Use Addendums for Source Data)		
6. Storage: No. of Storage Sites	1		
*Storage Data #1: Location: Latitude	29 / 12 /	Longitude	102 / 57 /
	(Deg. Min. Sec.)		(Deg. Min. Sec.)
Other Location Descriptions:			
Type Storage	Ground Level		
	(Pneumatic, Elevated, Underground, Ground Level, etc.)		
Pressure Setting	N/A	Type Construction	Round Reservoir
	(If Pneumatic)		
Capacity	400,000 gal.	Inlet Size	4 in. Outlet Size 8 in.
Remarks:			
*Storage Data #2: Location: Latitude	/ /	Longitude	/ /
	(Deg. Min. Sec.)		(Deg. Min. Sec.)
Other Location Descriptions:			
Type Storage			
	(Pneumatic, Elevated, Underground, Ground Level, etc.)		
Pressure Setting		Type Construction	
	(If Pneumatic)		
Capacity	gal.	Inlet Size	in. Outlet Size in.
Remarks:			
7. Distribution: Residences	3	Trailers	5 (permanent)
Drinking Fountains	2	Fire Hydrants	12 Other
Store, Comfort Station and Trailer Court (visitor)			

ADDENDUM FOR SOURCE DATA

Source No./Names SPRING #1/WEDIN SPRING/SPRING B

Power Source Electric Motor: Make Century HP 10
(Electric, Gas, Generator)

RPM 3500 Type SC Phase 3 Cycles 60
Cinder

Pump Housing: Type Const. Block; Mineral Surface Size 5 1/2 x 7 x 7
(Walls) (Roof) (W x L x H)

Control: Automatic _____
(Float, Electrode, Pressure, Time, etc.)

Manual _____

Other _____
(Explain)

History: Driller or Construction Co. National Park Service
(Name) (Address)

Date Drilled: / / Pump Intake Setting 10 ft.
Mo. Da. Yr.

Method Drilled: Dug - Developed Well Spring
(Air, Rot, Bored, Cable, Dug, Hyd. Rot, Jetted,
Air Percussion, Reverse Rotary, Trenching, etc.)

Lift Type: Cent.
(Air, Bucket, Cent, Jet, Nose, Piston, Submerg, Turb, etc.)

Hgt. of Casing above Ground 2 ft. Static Water Level 3.6 ft.
(From top of casing to water level)

Drawdown 0.1 ft. Q at Specified Drawdown _____

Method of Measurement:

Static Water Level Steel Tape
(Air Line, Steel Tape, Electric Probe, etc.)

Drawdown Steel Tape
(Air Line, Steel Tape, Electric Probe, etc.)

Remarks: Water temperature - 94°F
(e.g. see addendums for chemical analysis, water usage, etc.)

PHOTOGRAPHIC ADDENDUM FOR BIG BEND NATIONAL PARK



SPRING #4 - WEDIN SPRING

This spring is currently the source of the Rio Grande Village municipal system. Water is transferred from here to the Reservoir which has a capacity of 400,000 gallons. Overflow from this spring enters a marshy area which feeds into the Rio Grande (see photo #BIBE-RS-4).

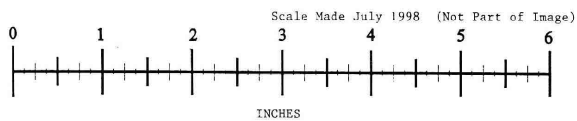
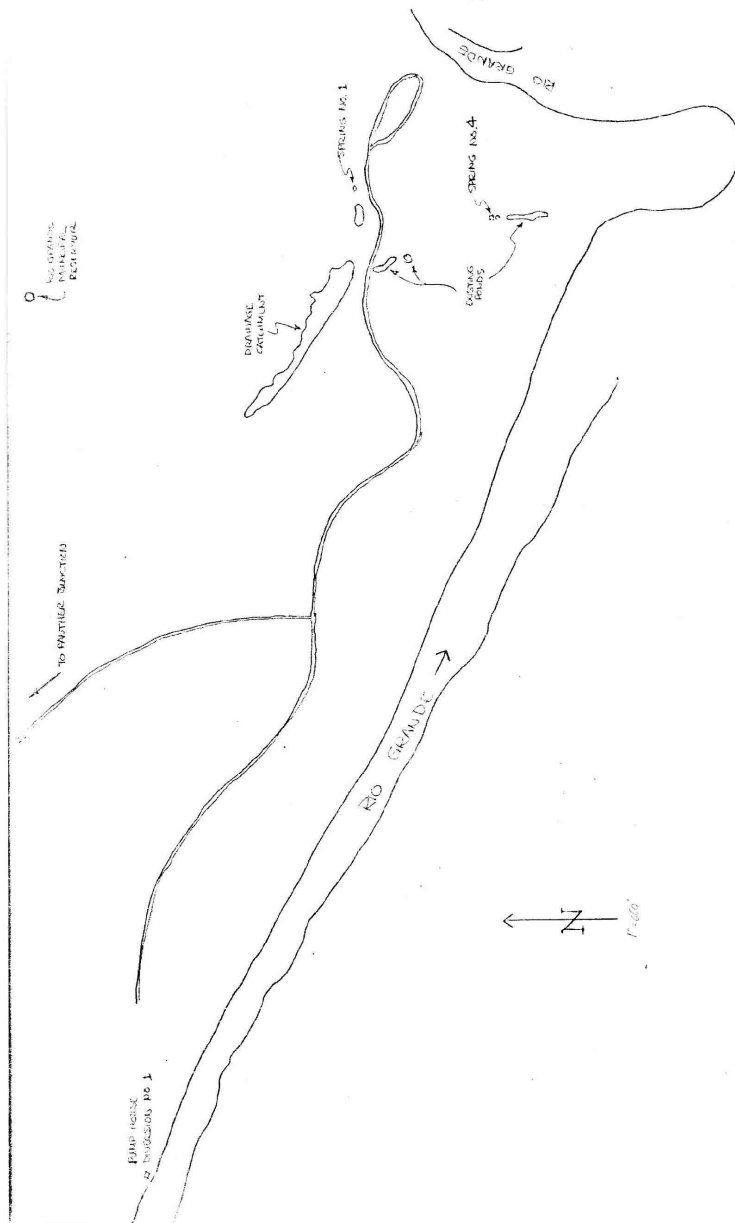


PHOTOGRAPHIC ADDENDUM FOR BIG BEND NATIONAL PARK



BIBE-RS-4

5-31-72



WATER SYSTEM DATA

Area BIG BEND Recorded by Jim Chambers Date 6/27/72
Mo. Da. Yr.

1. Name of System: GAMBUZI

2. Location: State TEXAS County BREWSTER General Area RIO GRANDE VILL.

3. General Description: Water is transferred from a developed spring to The Gambuzi Fish
(Type of System, Use, Sources, Capacity, etc.)
Pond as well as several ponds which are in the same drainage system. Once part of
Rio Grande Municipal System.

4. Water Rights: Type of Right Riparian Claim No. _____
(Riparian, Appropriative, Absolute, etc.)

Permit No. _____ Docket No. we 3 Remarks: State Riparian #58250

(e.g. see addendum)

5. Sources of Supply: No./Type of Sources 1/Spring
(Use Addendums for Source Data)

6. Storage: No. of Storage Sites N/A

*Storage Data #1: Location: Latitude / / Longitude / /
(Deg. Min. Sec.) (Deg. Min. Sec.)

Other Location Descriptions: _____

Type Storage _____
(Pneumatic, Elevated, Underground, Ground Level, etc.)

Pressure Setting _____ Type Construction _____
(If Pneumatic)

Capacity _____ gal. Inlet Size _____ in. Outlet Size _____ in.

Remarks: _____

*Storage Data #2: Location: Latitude / / Longitude / /
(Deg. Min. Sec.) (Deg. Min. Sec.)

Other Location Descriptions: _____

Type Storage _____
(Pneumatic, Elevated, Underground, Ground Level, etc.)

Pressure Setting _____ Type Construction _____
(If Pneumatic)

Capacity _____ gal. Inlet Size _____ in. Outlet Size _____ in.

Remarks: _____

7. Distribution: Residences _____ Trailers _____

Drinking Fountains _____ Fire Hydrants _____ Other Ponds

ADDENDUM FOR SOURCE DATA

Source No./Names SPRING #1/SPRING A

Power Source Electric Motor: Make GE HP 3
(Electric, Gas, Generator)

RPM 3545 Type K Phase 3 Cycles 60
Cinder

Pump Housing: Type Const. Block Mineral Surface 5 x 7 x 7
(Walls) (Roof) (W x L x H)

Control: Automatic B & W level control
(Float, Electrode, Pressure, Time, etc.)

Manual _____

Other _____
(Explain)

History: Driller or Construction Co. National Park Service
(Name) (Address)

Date Drilled: / / Pump Intake Setting 10 ft.
Mo. Da. Yr.

Method Drilled: Dug
(Air, Rot, Bored, Cable, Dug, Hyd. Rot, Jetted,
Air Percussion, Reverse Rotary, Trenching, etc.)

Lift Type: Turbine
(Air, Bucket, Cant, Jet, Nose, Piston, Submerg, Turb, etc.)

Hgt. of Casing above Ground 3 ft. Static Water Level 5 ft.
(From top of casing to water level)

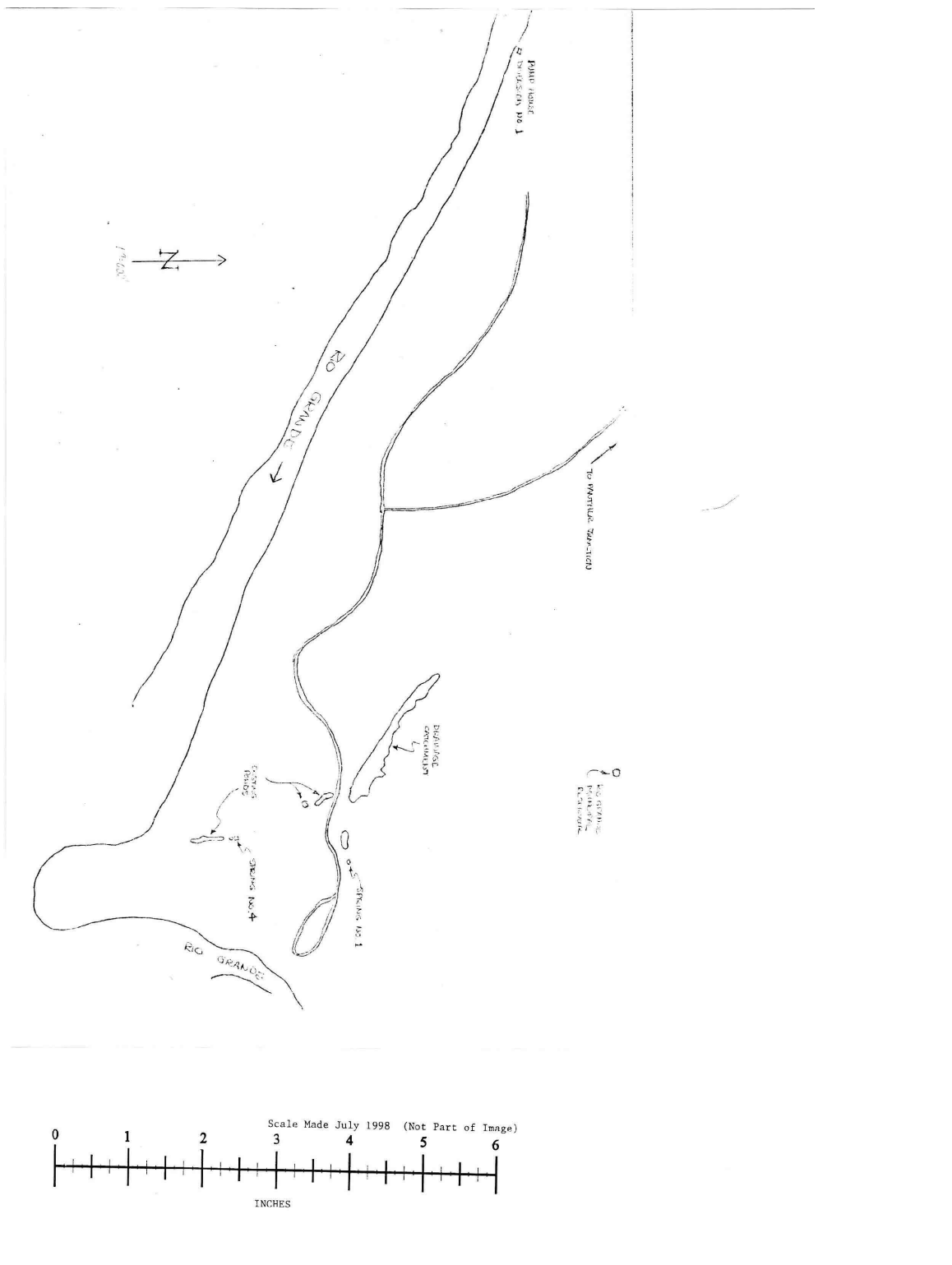
Drawdown 1 ft. Q at Specified Drawdown _____

Method of Measurement:

Static Water Level Steel Tape
(Air Line, Steel Tape, Electric Probe, etc.)

Drawdown Steel Tape
(Air Line, Steel Tape, Electric Probe, etc.)

Remarks: Water temperature - 92°F
(e.g. see addendums for chemical analysis, water usage, etc.)



PHOTOGRAPHIC ADDENDUM FOR BIG BEND NATIONAL PARK



GAMBUSIA FISH POND

This pond is located a few hundred feet away from Spring #1 which feeds it. The 2" line on the left is no longer in use. (see photo #BIBE-RF-1)



BACKGROUND:

Wedin Spring issues into a marshy area approximately one-fourth of a mile from the bank of the Rio Grande. In the past, these waters were used for a bath house (water temp. = 94°F) and for irrigation of farmlands. After this area was acquired by the NPS, these waters were used to irrigate a few trees as well as for supplying the domestic needs of a bunkhouse. In 1954, the NPS developed Wedin Spring and Spring #1, cleaned out the adjoining ponds and constructed small earthen dams at a cost of \$1500.00. By 1959, the waters were no longer used for irrigation, but only for supplying the residences and other facilities in the Rio Grande Village area.

At present, the waters from this spring are transferred to a 400,000 gallon reservoir which is about three-fourths of a mile north of Wedin Spring. This reservoir supplies several residences, trailers, fire hydrants, a store, trailer grounds, etc. The NPS is not using all of the spring's production, and the overflow is permitted to enter the marsh area which feeds into the Rio Grande.

LEGAL CONSIDERATIONS:

Congress authorized the NPS to acquire these lands and all appurtenant rights associated with these lands. It can be argued that no state has the power to interfere with the intent of Congress or to deprive the U. S. of a right by statute or any other means. If such is the case, the NPS can probably use the waters of Wedin Spring at will. However, the NPS should be prepared to protect its water rights in accordance with state laws in case the courts reject this argument sometime in the future. Furthermore, the states are tasked with managing the water resources within their boundaries, and in order to do so properly, they should be supplied with any necessary information by the NPS. Therefore, as a matter of practicality and comity, the NPS attempts to comply with state laws, submit water usage/quality reports, etc.

With this in mind, the following points are worth considering:

- 1) Under Texas law the source of Wedin Spring is presumably percolating ground water. But since the waters feed into the Rio Grande and leave the Park boundaries, riparian and appropriative principles govern the rights to these waters. The NPS does not have any greater claim on the spring waters by virtue of the fact that the spring surfaces within the Park boundaries. Instead, any rights claimed by the NPS would be considered on an equal footing with other riparian claims on the same waters. In future years, the NPS will no doubt expand its use of the waters which issue from Wedin Spring. It is most desirable, therefore, that the overflow from this spring not be appropriated to other users downstream. Instead, the NPS should strengthen its position by planning for the future development of the area, and by maintaining proper usage records.
- 2) Riparian Doctrine aside, the NPS is entitled to any increase in the spring's production which occurred as a result of its development, but it appears that no record was kept as to the spring's natural flow and thus it will be difficult to establish any such increase.
- 3) Since the waters from this spring supply a system for several residences, trailers, etc., this type of use can be properly classified as a municipal use. This is a most desirable classification since it enjoys the highest priority among beneficial uses listed by the Texas Water Rights Commission. No portion of this type of use can be cancelled if any use^{§ 148 (1971)} has been made of the filing within the last ten years. Texas Water Code, §

WATER RIGHTS
~~TEXAS WATER RIGHTS~~

U.S.
 Congress authorized the NPS to acquire these lands and all appurtenant rights associated with these lands. It can be argued that no state has the power to interfere with the intent of Congress or to deprive the U. S. of a right by statute or any other means. If such is the case, the U.S. NPS can probably use the waters of Wedin Spring at will. However, the NPS should be prepared to protect its water rights in accordance with state laws in case the courts reject this argument sometime in the future. Furthermore, the states are tasked with managing the water resources within their boundaries, and in order to do so properly, they should be supplied with any necessary information by the NPS. Therefore, as a matter of practicality and comity, the NPS attempts to comply with state laws, submit water usage/quality reports, etc.

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- 2) Riparian Doctrine aside, the NPS is entitled to any increase in the spring's production which occurred as a result of its development, but it appears that no record was kept as to the spring's natural flow and thus it will be difficult to establish any such increase.
- 3) Since the waters from this spring supply a system for several residences, trailers, etc., this type of use can be properly classified as a municipal use. This is a most desirable classification since it enjoys the highest priority among beneficial uses listed by the Texas Water Rights Commission. No portion of this type of use can be cancelled if any use ^{S. 188 (1971)} has been made of the filing within the last ten years. Texas Water Code, S

W O D C
APR 13 '60

	CHEF
	ADM.
	PERS.
	P & P
	ARCH.
3	EXPENSE
	L.A.
	SEC.
	CONT.
	OFFICE
	STATION TAKEN - DATE

rets ① 5; Big Bend

tendent's letter of trans-
s are probably acceptable,
e communications:

Subject: Water Use Reports, Claims in Dockets 1 - 5, Big Bend

4. The reports on the Oak Spring and Cattail Falls, and Panther Junction systems seem incomplete or incompletely classified as to use. By definition "r" in Sec. 115.1, page 15 of the Rules and Regulations, domestic use is limited to one household, as in most other States. Municipal use under definition "s" is use by a community as well as municipalities and towns. Since the monthly water use in the table

at the bottom of first page is shown under "Municipal and Domestic", it would appear to be proper to fill in the section on "Municipal Users Only", on the second page, on back of the form. I believe it is to our advantage to establish the municipal use wherever possible, because it provides greater flexibility in anticipating future population growth and resulting water demand.

5. "Wedin Spring or Spring B or #4" is a name resulting from conflicting nomenclature of different old maps. The original plan was to assign numbers and letters to all springs and wells, respectively, in each area, but I have not searched the correspondence to see whether the springs were to be numbered or lettered. It does not matter, but a system should be adopted, and the State Board of Water Engineers should be requested to record the name you adopt. If there are a number of springs you should either name all, or assign a series of letters or numbers with the prefix Wedin or Rio Grande to indicate the area. Wells should certainly be numbered or lettered in sequence with a prefix.

6. This particular Wedin Spring was used for domestic purposes at the one bunk house, when I was there, if I recall correctly. The 1959 report suggests campground use. With the combined, or latter use, I think the classification should be changed to municipal hereafter.

7. We do not wish to claim recreational use except where it is absolutely essential, and I am glad to see it is not used in the 1959 reports. In most cases, recreational use should be the use for boating, swimming, and fishing if the latter is not classed under "wildlife and fish culture". However, Texas Rules and Regulations include these uses to a limited extent under the preferred municipal classification.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Big Bend
Chief, WDC (2)

L-54

C
O
P
Y

Region Three
Santa Fe, New Mexico

Feb 10, 1960

Memorandum

To: Superintendent, Big Bend
From: Acting Regional Director
Subject: 1959 Water Use Reports, Big Bend

On January 27 we transmitted to your office forms received from the State Engineer (Board of Water Engineers), Austin, Texas numbered 58250 and 58260 with the request that they be completed with copies to this office and transmitted before the due date of March 31, 1960.

We have now received additional information in response to Mr. Dunn's letter of January 18, and additional water use forms for the year ending December 31, 1959 are attached.

You will note Acting Chief Engineer Beckwith's letter to the Washington Office dated February 2 explains the numbering system. Wedin Spring originally numbered 5825 has now been assigned No. 58250.

We do not believe you will have any difficulty in completion of the forms, but as we previously suggested, if you wish any assistance, please advise this office well in advance of the due date of March 31, 1960.

(Signed)

George W. Miller
Acting Regional Director

Attachments

Copy to: Director (2) w/o attachments
WODC (2) w/o attachments

C O P Y

L-54

C
O
P
Y

Region Three
Santa Fe, New Mexico

Jan 27, 1960

Memorandum

To: Superintendent, Big Bend
From: Assistant Regional Director
Subject: 1959 Water Use Reports, Big Bend

You have received a copy of Chief, Water Resources Section, Dunn's memorandum of January 18 and the attachment (copy of Mr. Dunn's letter to the State Board of Water Engineers also dated January 18).

We have attached the duplicate forms received from the State Engineer numbered 58250 and 58260. These form should be completed by you since the record of usage has been kept at the Park. Upon completion, they should be mailed to the State Board of Water Engineers, P. O. Box 2311, Capitol Station, Austin, Texas. The reports are due before March 31, 1960.

Since there appears to be some confusion regarding the numbering, you might wish to call on a representative of the State Board of Water Engineers and discuss the matter with him before preparing the forms. Upon completion of the forms, this office, the Director's office, and W.O.D.C. will need reproduced copies.

We realize that no water was pumped at Castellan during 1959; however, you should send a negative report to the State Board with a note that we intend to pump and irrigate as soon as practical.

(Signed)

George W. Miller
Assistant Regional Director

Attachments

Copy to: Director (2)
WODC (2)

C O P Y

BOARD OF WATER ENGINEERS

H. A. BECKWITH, CHAIRMAN

JOHN

JOHN

DOONEY, JR.

JOHN

1410 LAVACA STREET
AUSTIN

IN REPLY REFER TO.

Data Processing

February 2, 1960

United States Department of the Interior
National Park Service
Washington 25, D. C.

Re: 154-OEL

Ry 3

Gentlemen:

In response to your letter of January 18, 1960 we are enclosing additional water use forms needed by your office.

The numbering system originally set up for non-appropriative users of water had to be expanded; therefore, Wedin Spring, which originally had been numbered 5825, is now 58250.

Information on the use of well, or ground, water is being gathered for a record of water used for municipal, industrial, and irrigation purposes. The system for reporting is different, and the users are generally more difficult to contact since there is no specific legal requirement. If the Park Service has use it wishes to report, we will be glad to furnish the forms within the next few weeks.

Forms for reporting the other water rights held by the Park Service have been sent to your Santa Fe, New Mexico office.

Yours very truly,

H. A. Beckwith
Acting Chief Engineer

DMS:dl

Copy to Regional Director, Santa Fe, New Mexico

RECEIVED	
NPS REGION THREE OFFICE	
FEB 5 1960	
REG. DIR.	DATE
ASST. R.O.	
ADMIN.	
OPERATIONS	Feb 5
RANGER ACT.	
INTERP.	
RECREATION	
SOLICITOR	
FILES	2/8

L54-CBL

January 18, 1960

State Board of Water Engineers
P. O. Box 2311, Capitol Station
Austin, Texas

Gentlemen:

We have received forms for 1959 water use for Claims Nos. 58250 and 58260, which we assume to be applicable to the following water supplies at Big Bend National Park, and shall appreciate clarifications:

58250, probably 1958 No. 5825, Wedin Spring or Spring B, riparian use

58260, probably numbered after receipt of 1958 report for Basin water supply from Oak Spring and Cattail Falls.

We have not yet received forms for the reports on the Wedin Ditch, Application 978, Permit 827, and Castellan Irrigation Project, Application 129, Permit 125, but assume they will be received in the next few days by this, or one of our field offices. We assume that no reports are required yet, on the use of water from wells.

We are forwarding the forms to our Regional Director, Region Three, National Park Service, Box 1726, Santa Fe, New Mexico. Please send a copy of your reply to this letter to the Regional Director. Also, please change your records to have all future communications and forms concerning Federal water claims at Big Bend National Park sent to the Regional Director.

If possible, it would also be convenient to receive five copies of forms for each report, so that copies can be made for the four Federal offices which maintain records of the water developments and use.

Sincerely yours,

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Regional Director, Region Three
Superintendent Big Bend
Chief, WDC

L54-OBL

January 18, 1960

Memorandum (AIR MAIL)

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: 1959 Water Use Reports, Big Bend

W O D C	JAN 21 '60	CHF.	ADM.	P. & P.	ARCH.	ENG.	LA	COORD. P. & V.	ACTION Taken - Date
									1/20/60

The attached forms, in duplicate, have been received from the Board of Water Engineers, State of Texas, in envelopes bearing Austin postmark of January 14. Also attached is copy of our letter of today to the Board, requesting clarification. The form differs from that for 1958, the water claim numbers are new, and they give no clue to the water supplies to which they apply. We have not yet received forms for two other water supplies on which we reported in 1958. ✓

I believe that the forms for the Wedin Ditch, Docket 1, will bear the application and permit numbers 978 and 927; and the Castellan Irrigation Project, Docket 4, will bear similar numbers 129 and 125. Accordingly, I believe that the attached forms are for the riparian uses, as follows:

No. 58250 is former 5825, Wedin Spring or Spring B, Docket 3 ✓

No. 58260 is - no. 1958 number - Basin Water System, Docket 2

It will be advisable to assemble the data for report of water use on the claims covered by Dockets 1, 2, 3 and 4, with copies for the four assemblies of each docket as well as the original which should be submitted to the Board. There was no accompanying set of instructions or reference to the applicable water laws similar to those received in previous years.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Attachments *Went*

Copy to: Superintendent, Big Bend, w/c letter to Board of Water Engineers
Chief, WODC (2), w/c letter to Board of Water Engineers

W

BOARD OF WATER ENGINEERS

DURWOOD MANFORD, CHAIRMAN
R. M. DIXON
O. F. DENT

BEN F. LOONEY JR.
SECRETARY



1410 LAVACA STREET
AUSTIN

February 9, 1959

154
A. E. Lee
IN REPLY REFER TO

Legal
(DIVISION)

Mr. A. Van V. Dunn
Chief, Water Resources Section
United States Department of the Interior
National Park Service
Washington 25, D. C.

Re: Water Use Reports- permits 125
and 927 and Riparian #5825, Big
Bend National Park.

Dear Mr. Dunn:

Please refer to your letter of February 4, 1959, to Mr. Durwood Manford. Additional forms which you request have previously been mailed.

As you state, both domestic and municipal use are defined in Rule 115.1 of Rules, Regulations and Modes of Procedure of the Board of Water Engineers. For the purpose of reporting under Riparian Report No. 5825 you should classify the use as municipal if the water used is diverted by a common means and such water is distributed through a central water supply system for the consumers and provided compensation is paid for the service. Otherwise the use would be domestic.

Your cooperation is appreciated and if we can be of further assistance, please feel free to call upon us.

Very truly yours,

F. R. Booth
F. R. Booth
Examiner

FRB:ps

L-54-OBL

C
O
P
Y

AIR MAIL

February 4, 1959

Mr. Durwood Manford, Chairman
Board of Water Engineers
Austin, Texas

Re: Water Use Reports - Permits 125
and 927 and Riparian #5825, Big
Bend National Park

Dear Mr. Manford:

We have received the forms for reports on the three subject water uses in duplicate. According to the letter of July 1, 1958, from Mr. G. S. Sawyer, we were also to report on the riparian use of water at the Basin Area from Cottonwood Creek at Cattail Falls, and Oak Springs, for which no water right number was assigned. No forms have been received for the Basin Area water use.

It will also simplify our work if we can have enough copies of the forms to prepare the original and four copies of each report. We should like nine more copies of the form for the subject reports, and five copies of the form for the report on Basin Area water use. Our alternative is to make photostat copies for three of our four interested office.

We should also like to have your confirmation that water use at the Basin Area, and possibly what we have previously classed as domestic use under riparian right 5825, should be classed as municipal rather than domestic. The latter water system was serving the domestic needs of only one bunk house at the time of my last visit, but has probably served more of a community during at least part of this past year. The Basin Area includes a lodge, campground, and a number of employees' residences.

The municipal status appears to apply, under Rule 115.1 of your Rules, Regulations and Modes of Procedure of 1955. The question is raised because other states have classed such use variously as domestic, municipal, and industrial. I might add that although the National Parks and Monuments are largely used for recreational purposes, there are only a few limited cases, including one at Big Bend, where water is appropriated by diversion or impoundment for recreational use. Most of the recreational use of water is made on natural streams and lakes.

Sincerely yours,

A. van V. Dunn
Chief, Water Resources Section

C O P Y

Copu to: Regional Director, Region Three
Superintendent, Big Bend
Chief, WODC

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

In reply refer to:
154 Bibe

February 24, 1956

Memorandum

To: Director
From: Superintendent, Big Bend National Park
Subject: Water Use Reports, Big Bend

Reference is made to Mr. Van Dunn's memorandum of February 13, 1956, commenting on the 1955 water use report for Big Bend and making recommendations for the compilation of that for 1956.

We shall undertake the use of the new form for reporting monthly irrigation, but it is premature to develop the data requested with respect to the Wedin Ditch water right. As you know, the farming arrangements for this area which have been in effect for some time were terminated last fall. Mr. Beckett found the operation unprofitable and to date we have been unsuccessful in interesting anyone else to take over the farming operation. Unless there is an unexpected development our 1956 water use report for this water right will be limited to the irrigation of four acres of trees approximately twice a month. Furthermore, the present pump that is installed for diverting water from the Rio Grande under the Wedin Ditch permit is the property of Mr. Burt Beckett, the horse concessioner. It is unlikely that we or National Park Concessions, Inc. will purchase this pump from him and so we can expect that it will be removed. There are several substitutes that we can make for this pump as long as only a small area is to be irrigated. The desired information will be provided when the substitution is made.

In addition, it is quite likely that the existing ditch system will be modified considerably whenever an active planting program is undertaken. With all of the planning and development that will be devoted to the Rio Grande within the next year or two certain definite results with respect to planting and the design of an irrigation system can be expected. Whenever this is the case you can expect that irrigation will be performed on a regular basis and accurate data can be furnished you, but until that time it is impossible, and that is why we consider that efforts to accumulate definite information are premature.

REG. DIRECTOR
ASST. REG. DIRECTOR
CHIEF DIV. OF ADMIN.
CHIEF DIV. OF OPERATIONS
CHIEF DIV. OF INTERP.
CHIEF DIV. OF COOP. ACT.
FIELD SOLICITOR
ACTION TAKEN
FILE

The other major point of Mr. Van Dunn's memorandum concerned Docket No. 3, the water use report on Hot Springs #4, or "B". We consider that the preparation of a water use report for this source is unnecessary since it is ground water. In his letter of January 24, 1956, Mr. Leftin, the assistant examiner of the Board of Water Engineers, specifically states "no reports.. are required on the use of ground water."

Furthermore, the instructions for filing water use reports state "If you are using underground water exclusively and no surface water, please so state on the form and return it to us so your name can be removed from our mailing list, as no water use reports are required from use of ground water."

At present, the water from Spring #4 is pumped to an open pond which has 8 to 10 cottonwood trees around it. We propose to pipe this water into the small irrigation ditches that will water approximately 30 trees that will surround the campground that is being developed in the Rio Grande Village area.

Data on the capacity of pumps and the flow production of various springs will be accumulated during the year. Also, plans on the various systems of the Rio Grande Village area will be developed as a result of our extensive planning activities. Since it is important that we retain our water rights in the Rio Grande Village area, I feel that it would be wise to invite one of the officials of the Texas Board of Water Engineers to visit this area. He would get a better picture of what we are attempting to do, and past correspondence infers that they will be sympathetic even to an increase in our water right. This would insure their sympathetic cooperation. We could also clarify any confusion that exists with respect to just what sources of water we should make annual water use reports on.

Do you concur in this suggestion?

WODC
GEORGE W. MILLER

George W. Miller
Superintendent

Copy to: Regional Director, Region Three
WODC

154-1

February 9, 1956

State Board of Water Engineers
1410 Lavaca Street
Austin, Texas

App. 978, Permit 927
Big Bend National Park

Dear Sirs:

Enclosed are the annual water use report under Water Right Permit 927 and a report on the use of Spring "B" which is shown on our Drawing NP-HB-6951A of which a print was previously sent to you in connection with reports under Permit 927.

From the explanation of the revised water laws in the letter of January 24 from Mr. Loftin (Reference: Legal), no further reports of water use at Big Bend are now needed because the uses are entirely for domestic and stockwatering purposes or the water is derived from wells. Domestic is construed to include all human consumption and sanitation in residences, lodges and campgrounds, hose irrigation of a few hundred square feet around some residences and other uses made in the normal home. ✓

Both reports are somewhat incomplete. In attempting to obtain more details during 1955 than in previous years, we have learned more about the limitations of records. We will attempt to obtain more complete data during 1956 including check or determination of pump capacity, weir measurements of deliveries to main ditches, and records of where water is applied.

Sincerely yours

A. van V. Dunn
Chief, Water Resources Section

Enclosures 2

Copy to: Regional Director Region Three (detached)
Superintendent, Big Bend (detached)
Western Office of Design and Construction (detached)

M. DIXON, CHAIRMAN
J. W. WITH, MEMBER
P. GENT, MEMBER
B. R. FULLINGIM, SECRETARY

BOARD OF WATER ENGINEERS



1410 LAVACA STREET
AUSTIN

IN REPLY REFER TO

Legal
(DIVISION)

January 24, 1956

Mr. A. van W. Dunn
Chief, Water Resources Section
United States Department of the Interior
National Park Service
Washington 25, D. C.

Re: L54-L

Dear Mr. Dunn:

Your letter of January 17 addressed to Mr. Stout has been referred to me for reply.

No reports are required on water used exclusively for domestic or stock-raising purposes, nor are any required on the use of ground water. On the basis of the information contained in your letter this would seem to eliminate the following systems:

Basin Water System
Border Patrol Camp
K-Bar
Mexican Village (if for domestic use only)
Panther Junction
Rio Grande.

Accordingly I am enclosing sufficient blanks for the remaining systems. However, should these be limited in their purpose to domestic or stock-raising use, then of course no report would be required. You will note that these reports differ in some degree from those sent in connection with Application No. 978, Permit No. 972.

No reports are necessary for each source.

If there is any other information you may require, please feel free to write.

Yours very truly,

R. V. L. Stout
R. V. L. Stout, Jr.
Assistant Engineer
State of Texas

Maps and Miscellaneous Information

0	-	25.92	
1	-	24.12	1.80
2	-	23.10	1.02
3	-	22.38	0.72
4	-	22.02	0.36
5	-	21.83	0.17
6	-	21.70	0.10

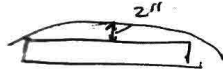
Recovery Data
X

U.S. Motor. Hollowshaft. Pump motor.
 High Thrust.
 HP-20 Ph. 3.
 Frame 256TPH.
 Type RU.
 Design B.
 Code B.
 Inlet. Class B.
 Proj. Upper Thrust. 45BC02XPP.
 AFBMA.
 Lower Guide AB
 AFBMA 55BT03Y.
 1765 RPM.
 Service Factor 1.15.
 NRR - Ser. R 2039330.
 Model R-8557-01-271-C.

1

swc 21.45 BT Concrete

19" X 19 1/2"



25.85

17 min.

25.92

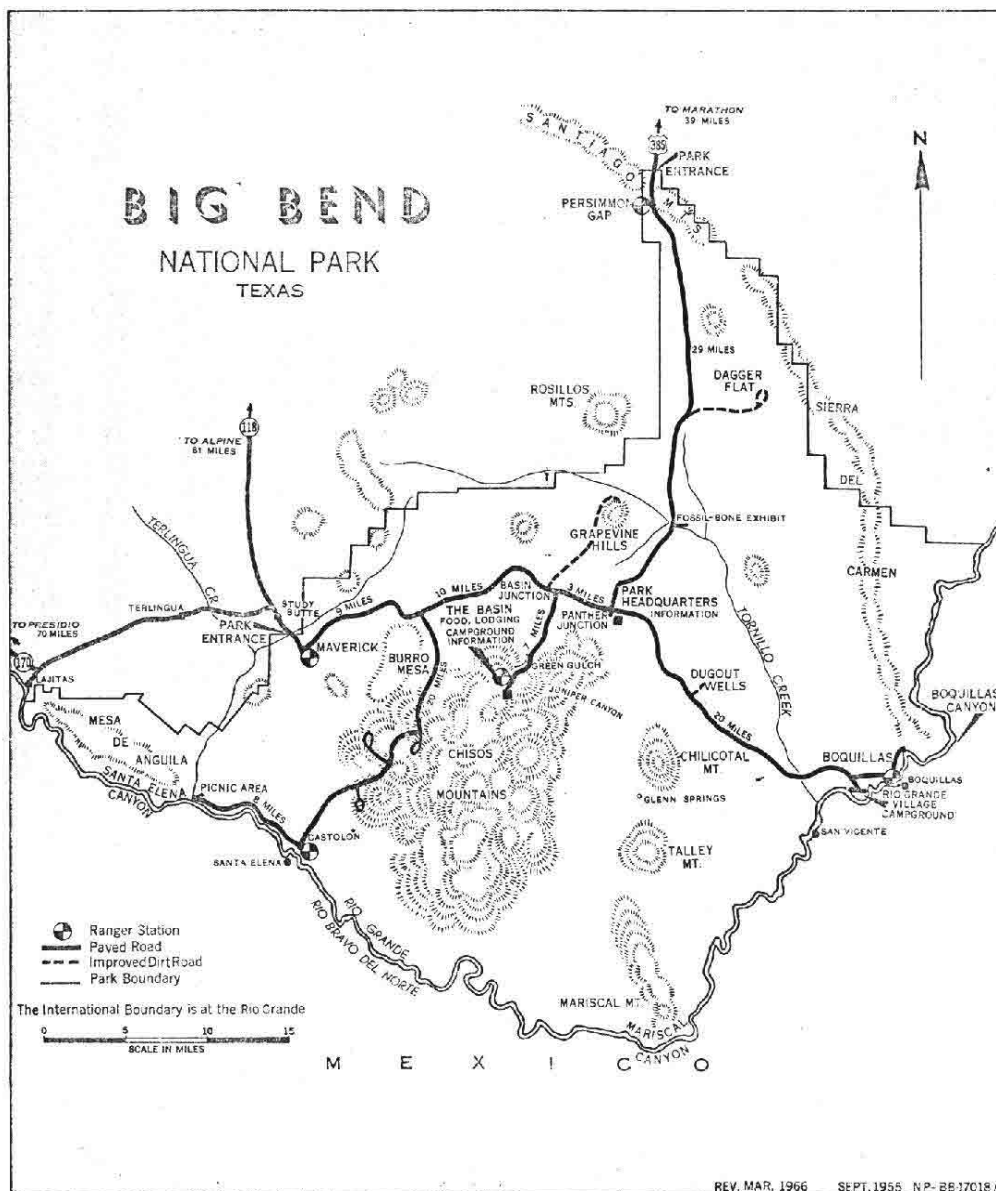
25 min.

$$\begin{array}{r} 271 \\ \times 3 \\ \hline 813 \end{array}$$

$$\begin{array}{r} .17 \\ 12 \overline{) 2.0} \\ \underline{12} \\ 80 \\ \underline{84} \end{array}$$

$$\begin{array}{r} 2 \\ 1.5 \\ 1.5 \\ \hline 7.5 \\ 1.5 \\ \hline 5 \\ 2.2 \end{array}$$





22

23

Docket Information

Number of Documents in Docket 86

Documents Dated from 9/15/1955 to 12/23/1986

Docket Compiled: 1/31/2011