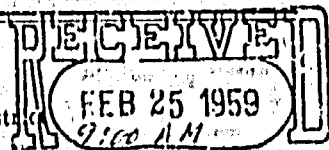


1. Considered April 18, 1959 Appl. No. 522-2
2. Name of Applicant Tecumseh Cave National Monument
3. Post Office Address Hot Springs, South Dakota
4. Amount of water claimed 0.11 cfs
5. Source of water supply Ground water
6. Water to be used for public recreation, wildlife watering, and fire protection  
Acres to be irrigated \_\_\_\_\_
7. Water to be diverted and used in Custer County about  
12-13 miles W.E.S. + of Custer.
8. Proof of Publication  
Received ✓  
Not Received \_\_\_\_\_
9. Application  
Approved ✓  
Subject to \_\_\_\_\_  
Not approved \_\_\_\_\_  
Action deferred \_\_\_\_\_
10. Remarks:

for the same

No. 222-2Water Division No. 2 Fall River District  
(Blanks to be filled by the Engineer for the W. R. C.)STATE WATER RESOURCES COMM.  
PIERRE, SOUTH DAKOTA

## APPLICATION FOR PERMIT

## To Appropriate Water within the State of South Dakota

(NOTE—Draw a line through items not applicable.)

1. Name of applicant United States of America, National Park Service  
Jewel Cave National Monument, Earl M. Semingsen, Superintendent  
 Postoffice address Wind Cave National Park  
Hot Springs, S. Dak., County Custer, State South Dakota

I. If a corporation U. S. Government(a) Name of same National Park Service, Department of Interior(b) Date and place of incorporation Monument established 1908(c) Amount of capital stock Does not apply(d) Amount paid in Does not apply

(e) Names and addresses of directors Conrad L. Wirth, Director, UPS, Washington, D. C.,  
Howard W. Baker, Regional Director, Region Two, Omaha, Nebraska, Earl M. Semingsen,  
Superintendent, Wind Cave National Park, and Superintendent, Jewel Cave National  
Monument.

(NOTE—A certified copy of articles of incorporation must accompany the application.)

## II. Method of accomplishing the work and financial resources of the applicant:

(a) Method of accomplishing work (Whether by contract, employment of others, or by direct labor)  
By contract to lowest and responsible bidder

(b) Cash on hand, \$ ---(c) Treasury stock, \$ ---(d) Bonds to be issued, \$ ---(e) Other resources, \$ ---2. Name of diversion work Jewel Cave National Monument well3. Amount of water claimed 50 G.P.M. or 0.11 cfs. cubic feet per second4. Source of water supply Deep Well

5. Location of point of diversion 1200 feet from the NW Cor. Sec. 2, T. 45, R. 2E at an angle  
of 55° 03' northwesterly from a section line between the NW Cor.  
Monument, Sec. 2, T. 45, R. 2E on bank Custer County

6. Annual period or periods during which water is to be used All year depending on use of National Monument

7. To be used for:

I. Irrigation or domestic use: Gravity, overhead sprinkling or combination system? Domestic and Public  
Primary combination(a) Number of acres to be irrigated less than one acres.(b) Legal subdivisions to be irrigated see map, Headwaters Area

(NOTE—A list of lands to be irrigated, giving each subdivision and fraction with acreage thereof, should be written here, or may be appended as a part of this application. Same must also be shown on accompanying map.)

(c) Statement as to domestic use (giving location, etc.) For public visitor use and domestic  
use for Monument employee staff

## II. Stockwatering, mining, milling, power, fish culture, fire protection and public recreation:

(a) Nature of use Fire Protection, Wildlife watering, Public Visitor use and  
 Name any of the above uses claimed domestic use.(b) Amount of power to be generated None horse power.Amount claimed for engine cooling None(c) Location of plant None(d) Method of developing power Black Hills Electric Cooperative power now at Monument;  
Line will be run to well by Government.(e) Point where water will be returned to stream Sewage disposal system to operate in  
tributary gulch of Hell Canyon.

Map No. 507-2

8. Estimated cost of work:

(a) Head Gates, \$----- (b) Pumping plant, \$-----  
 (c) Fluming, \$----- (d) Canal earth, \$-----  
 (e) Other structures ----- \$-----  
 Total, \$ 2,000. Approx.

9. Description of diversion works:

I. Nature of works: (Reservoir, dam, ditch, flume, pumping plant, etc.)  
 Water well and reservoir planned

II. Dimensions of works:

(a) Dam: Height ----- feet; length at bottom ----- feet; length at top ----- feet; thickness at bottom ----- feet; thickness at top ----- feet; slope at front water face -----; slope at back face -----  
 material used in construction -----  
 (b) Reservoir: Capacity when filled depends on well production ----- acre feet. Surface area at highwater mark ----- acres.

| DEPTH AT OUTLET-Feet | SURFACE AREA AT EACH DEPTH AT OUTLET-ACRES | ACRE-Feet CAPACITY |
|----------------------|--------------------------------------------|--------------------|
|                      | Does not apply                             |                    |
|                      |                                            |                    |
|                      |                                            |                    |
|                      |                                            |                    |
|                      |                                            |                    |
|                      |                                            |                    |
|                      |                                            |                    |
|                      |                                            |                    |

(c)\* Head gate: Width ----- feet; height ----- feet;  
 Material -----  
 (d) Canal: Total length ----- miles.

| LOCATION BELOW HEADGATE | DEPTH          | BOTTOM WIDTH | WIDTH AT WATER-LINE | GRADE PER MILE |
|-------------------------|----------------|--------------|---------------------|----------------|
| At ----- Mile           | ----- feet     | ----- feet   | ----- feet          | ----- feet     |
| At ----- Mile           | Does not apply | ----- feet   | ----- feet          | ----- feet     |
| At ----- Mile           | ----- feet     | ----- feet   | ----- feet          | ----- feet     |
| At ----- Mile           | ----- feet     | ----- feet   | ----- feet          | ----- feet     |
| At ----- Mile           | ----- feet     | ----- feet   | ----- feet          | ----- feet     |
| At ----- Mile           | ----- feet     | ----- feet   | ----- feet          | ----- feet     |

(Give dimensions where reductions in size are made.)

10. Time required for completion of work ----- <sup>days</sup> ~~one year~~ years.  
 11. Time required for complete application of water to the proposed beneficial use ----- one years.  
 12. Choice of newspaper for publication of notice of intention to appropriate Custer County Chronicle

STATE OF SOUTH DAKOTA  
 County of ----- } ss.

I, Earl M. Semingsen, Supt., Wind Cave National Park, being first duly sworn on my oath depose and say: That my relation to the above described undertaking is that of owner, that I have read the above foregoing statement, examined the map accompanying the same, and that I know of my own personal knowledge that the matters therein stated and shown are true.

Signed Earl M. Semingsen, Supt.

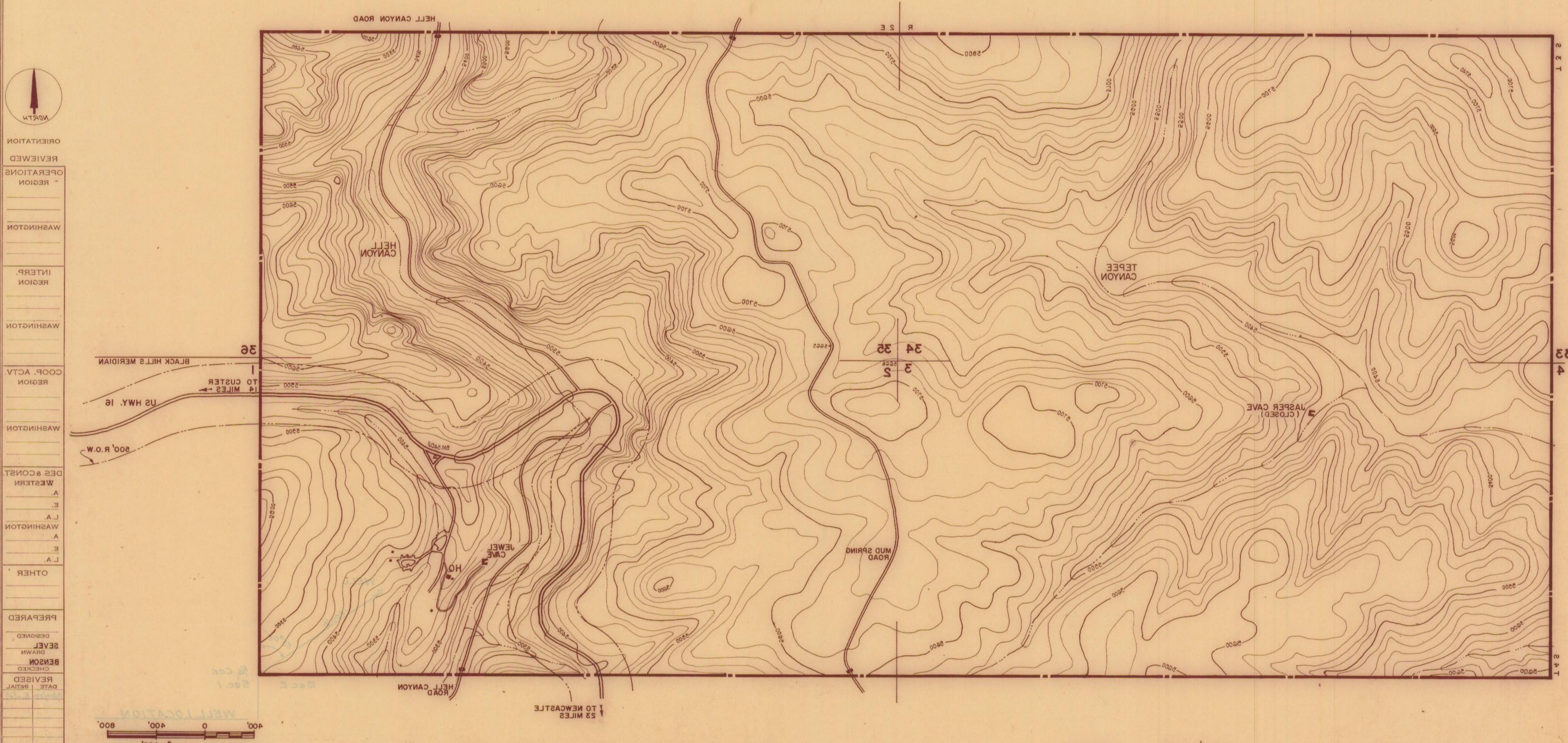
Subscribed and sworn to before me this 20 day of Feb 1957

Legally appointed representative of the  
 Notary Public (or other qualified officer.)  
Department of the Interior

|                        |  |                                |  |                            |  |               |  |                |  |               |  |     |  |     |  |        |  |
|------------------------|--|--------------------------------|--|----------------------------|--|---------------|--|----------------|--|---------------|--|-----|--|-----|--|--------|--|
| JEWEL CAVE N. MONUMENT |  | PART OF THE MASTER PLAN        |  | 5300-C                     |  | DRAWING NO.   |  | NM-7C          |  | SHEET 1 OF 1  |  | PCP |  | TWO |  | REGION |  |
| JEWEL CAVE N. MONUMENT |  | LANDSCAPE ARCHITECTURAL BRANCH |  | DEPARTMENT OF THE INTERIOR |  | UNITED STATES |  |                |  |               |  |     |  |     |  |        |  |
| APPROVED               |  | CHIEF, DIV. OF D. & C.         |  | REGIONAL DIRECTOR          |  | CHIEF, WOOD   |  | SUPERINTENDENT |  | DATE          |  |     |  |     |  |        |  |
| RECOMMENDED            |  | CHIEF, WOOD                    |  | SUPERINTENDENT             |  |               |  |                |  |               |  |     |  |     |  |        |  |
| OBLITERATE             |  | PROPOSED                       |  | EXISTING                   |  | LEGEND        |  |                |  |               |  |     |  |     |  |        |  |
| STREAM                 |  | BUILDING                       |  | TRAIL                      |  | ROAD          |  | SECTION        |  | PARK BOUNDARY |  |     |  |     |  |        |  |



|             |          |            |        |            |         |        |            |             |        |               |         |    |    |      |            |    |    |      |       |          |          |       |        |         |         |      |         |
|-------------|----------|------------|--------|------------|---------|--------|------------|-------------|--------|---------------|---------|----|----|------|------------|----|----|------|-------|----------|----------|-------|--------|---------|---------|------|---------|
| ORIENTATION | REVIEWED | OPERATIONS | REGION | WASHINGTON | INTERP. | REGION | WASHINGTON | COOP. ACTV. | REGION | DES. & CONST. | WESTERN | A. | E. | L.A. | WASHINGTON | A. | E. | L.A. | OTHER | PREPARED | DESIGNED | SEVEL | BENSON | CHECKED | REVISOR | DATE | INITIAL |
|             |          |            |        |            |         |        |            |             |        |               |         |    |    |      |            |    |    |      |       |          |          |       |        |         |         |      |         |



NATIONAL FOREST

NATIONAL FOREST

Remarks by State Water Resources Commission:

STATE OF SOUTH DAKOTA  
County of Hughes ss.

Pierre, South Dakota,

This is to certify that the foregoing application was received by the Commission at 9:00 o'clock  
9 a.m. upon the 25 of February, 1959

State Water Resources Commission

By: Jacob Miner  
Chief Engineer, Executive Officer

Number of permit 522-2

Date of first receipt of application

Date of return to applicant for correction, amendments or changes required as follows: March 3, 1959

Date of receipt of corrected application

Date from which applicant may claim right

Approved April 8, 1959, Recorded in Book 5 Page 148

This is to certify that we have examined the foregoing application for a permit to appropriate water of the State of South Dakota, and we hereby grant the same as stated herein, subject, however, to the following limitations and conditions:

1st. The equivalent of at least one-fifth of the work above specified is to be completed on or before

October 8, 1959

2nd. The whole of said work is to be completed on or before

April 8, 1960

3rd. The limit of time for proof of beneficial use of water appropriated in accordance herewith is

April 8, 1961

4th. The water appropriated shall be used for the purpose of public recreation, fire

protection, wildlife watering, and domestic use

5th. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.

6th. The amount of the appropriation herein granted shall not exceed 0.11 cubic feet per second; neither shall it exceed the capacity of the above described system of diversion works, nor the least amount of water that experience may hereafter indicate as necessary for the production of crops in the exercise of the best husbandry; and further, said appropriation must be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually

and beneficially applied for irrigation on or before April 8, 1961; said water to be used during the following described annual period:

Continuous

Witness my hand this 15 day of May, 1959

State Water Resources Commission

By: Jacob Miner  
Chief Engineer, Executive Officer

Certificate of Construction Issued MARCH 16, 1959

Water License Issued MARCH 16, 1959

ATTACHMENT "A"

- (1) 6" Steel 600 foot well
- (2) WELL:  
Pump- Motor Combination  
Reda 2 H.P. Serial No. 201014  
Model No. RW19D18P201
- (3) Sump:  
Pump- Motor Combination  
Reda 7 H.P. Serial No. 29824  
Model No. 19D18P201
- (4) 1 Wallace and Tiernan Hypochlorinator  
Series A-745

3. (Continue.)

III. Well Specifications

(a) Hole and casing

Size of drill hole or excavation 6-inch, Depth up to 700' max.

Type of casing Black steel pipe  
(wood, concrete, steel, etc.)

Size of casing 6-inch (I.D.), Thickness of casing Nominal 0.280  
12-inch 0.375

Length of casing up to 700' max. If collection gallery, length, size and depth of gallery

(b) Screens

Type of perforated screen None

Size of perforated screen None  
(diameter) (length)

Thickness of gravel pack unknown, length of gravel pack unknown

(c) Water Bearing Materials

Distance to water unknown Character of water bearing materials  
Deadwood Formation

Thickness of water bearing material unknown

(d) Pump and Motor

Type of pump Submersible, planned for installation  
(centrifugal, propeller, mixed flow, etc.)

Name of pump Not Yet purchased, size

Kind of motor Electric  
(gasoline, electric, diesel, etc.)

Horsepower Not known, Name of Motor Not purchased

(e) Complete well

Capacity Not known at drawdown of Estimated cost Not known

(f) Owner of land upon which well is located National Park Service, Jewel Cave National Monument, Supt. Earl M. Jansen, Wind Cave National Park, Hot Springs, South Dakota  
Name Address

(g) Distance to nearest existing wells

On same owner's property No rods. On property owned by others rods

Permit No. 522-2

Water Diversion No. 2 Upper Cheyenne Water District

### CERTIFICATE OF CONSTRUCTION

This is to Certify, That the U.S. National Park Service, Wind Cave National Park,  
Hot Springs, SD

the holder s of  
Permit No. 522-2, issued upon Application No. 522-2, bearing date of priority of February 25,  
1975 authorizing the diversion of .02 cu. ft. per second of the waters of \_\_\_\_\_  
groundwater (one well) County of Custer, State of South Dakota at \_\_\_\_\_  
a point 1200 feet from E $\frac{1}{2}$  Corner, Section 2, T4S, R2E at an angle of 55 $^{\circ}$   
05' northwesterly from the section line between E $\frac{1}{2}$  corner and the NE corner  
of the same Sec 2, for domestic and public recreational

purposes, he ve complied with the provisions of the laws of the State of South Dakota relating to proof of  
completion of the works of diversion set out and described in said Permit; that said works are found in satisfactory  
condition for diverting and conveying to the place of intended use .02 cu. ft. per second of water.

Date March 16, 1981

John Hatch  
JOHN HATCH, Chief Engineer  
Water Rights Division

## STATE OF SOUTH DAKOTA

## WATER LICENSE NO. 522-2

(1) WHEREAS, On the 25th day of February, A. D. 19 59  
the US National Park Service, Wind Cave National Park,  
Hot Springs, SD  
made Water Right Application No. 522-2 for a permit to use .11 cubic feet per second of the waters  
of groundwater (one well)  
County of Custer, State of South Dakota, for domestic and public  
purposes; and  
(2) WHEREAS, On the 8th day of April, A. D. 19 59  
Permit No. 522-2, with a date of priority of February 25, 1959  
was issued to said applicant 9 for the diversion of said water, and provided for the completion of construction of the water  
supply system therein described on or before the 8th day of April, A. D. 19 60 and for the  
application to beneficial use of said water on or before the 8th day of April, A. D. 19 61

and:

(3) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota  
relating to completion of the construction of the water supply system and is entitled to divert .02 cubic feet  
per second of water for beneficial use and,

(4) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota  
relating to the application of water to beneficial use of the following extent,

water supplies for domestic, public recreational, fire protection, wildlife  
watering for use at Jewel Cave National Monument

(5) NOW, THEREFORE, By the virtue of the authority vested in us by the laws of the State of South Dakota, we hereby grant and confirm to U.S. National Park Service, Wind Cave National Park

of Hot Springs  
the holder s and owner s of said permit No. 522-2 a water right, dating from February 25, 1975  
to use of .02 cubic feet per second of the waters  
of groundwater (one well)

in the County of Custer and State of South Dakota, or so much thereof as may be necessary for the  
purposes hereinafter mentioned, to be diverted at a point 1200 feet from Elk corner, Section 2, T4S, R2E,  
at an angle of 55° 05' northwesterly from the section line between Elk corner and  
the NE corner of the same Section 2

and conducted ~~to and upon~~ through the Jewel Cave National Monument's distribution  
system.

for the purpose of domestic and public recreational use

Subject to any limitations listed in Water Right Permit No. 522-2 and subject to the laws of the State of South Dakota.

WITNESS, My hand and seal of our office at Pierre, South Dakota  
this 16th day of March A. D.  
Nineteen Hundred and Eighty-One

WATER MANAGEMENT BOARD

By:

John Hatch  
Chief Engineer, Executive Officer  
JOHN HATCH

## PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA }  
County of Custer } ss.

Carl H. Sundstrom being duly sworn, deposes and says the annexed printed copy of Notice of Intention to Appropriate Water was taken from the CUSTER COUNTY CHRONICLE, a newspaper which during the whole time of publication of said notice herein after stated, has been and is printed and published in the City of Custer County of Custer and State of South Dakota; that the said notice was published in said newspaper on the following dates:

March 12, 1959

March 19, 1959

March 26, 1959

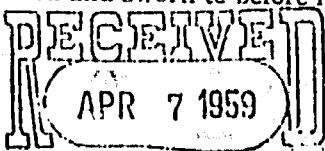
April 2, 1959

in each and every issue of the full number thereof, the first publication being made on the 12 day of March 1959 and the last publication on the 2 day of April 1959, upon which days or times of publication aforesaid the newspaper was regularly published, and that during the whole time of said publication he was the printer and publisher of the said newspaper.

Mr. Freeland, Mrs. Test, Mrs. Cumubell, Mr. Mayhew, et al.  
The following members voted "Nay": None.  
Thereupon the President announced the motion carried and the Resolution adopted.  
RESOLUTION  
NAY.  
office, address is Wind Cave National Park, Hot Springs, S. Dak. has made an application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use 0.11 cubic feet of water per second of time from ground water through the Jewel Cave National Monument Well, the point of diversion of which is to be located in the SE 1/4 of the NE 1/4 of Section 2 Twp. 4 S Range 2 E. Said water to be used for the purpose of public recreation, fire protection, wildlife watering and domestic use at Jewel Cave National Monument.  
This application will be taken up by the State Water Resources Commission at their office at Pierre for consideration upon the 8th day of April, 1959, at 2:00 P.M. All interested persons may appear and be heard.  
Appropriate action will be taken by the Water Resources Com-

Subscribed and sworn to before me this 2 day of April

A. D. 1959



STATE WATER RESOURCES COMMISSION  
PIERRE, SOUTH DAKOTA

Notary Public Custer County, S. D.

(First Publication before March 13, 1959)

## APPROPRIATION OF WATER

Office of State Water Resources Commission,

Pierre, S. Dak., March 7, 1959

Notice is hereby given that Earl M. Samingsen, Supt., Jewell Cave National Monument whose postoffice address is Wind Cave National Park, Hot Springs, S. Dak., has made an application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use 0.11 cubic feet of water per second of time from the ground water through the Jewell Cave National Monument Well, the point of diversion of which is to be located in the SE  $\frac{1}{4}$  of the NE  $\frac{1}{4}$  of Section 2 Twp. 4 S Range 2 E. Said water to be used for the purpose of providing irrigation for the following purposes: public recreation, fire protection, wildlife watering and domestic use at Jewell Cave National Monument.

This application will be taken up by the State Water Resources Commission at their office at Pierre for consideration upon the 8th day of April, 1959, at 2:00 P.M. All interested persons may appear and be heard.

Appropriate action will be taken by the Water Resources Commission after suitable time has elapsed for the consideration of any or all information presented.

State Water Resources Commission

By:

State Engineer, Executive Officer

Les Wyborny, Water Rights Engineer

cc Carl H. Sundstrom, Publisher  
The Custer County Chronicle  
Custer, South Dakota

Permit No. 522-2Water Division 2 Fall River Water DistrictREPORT OF EXAMINATION OF WORKS  
AND/OR APPLICATION OF WATER TO BENEFICIAL USE

TO: Water Resources Commission, State Office Building No. 2, Pierre, South Dakota 57501

I have this day made a thorough examination of the water use system constructed by United States of America, National Park Service, Wind Cave National Park, Hot Springs, SD Holderof Permit No. 522-2, hearing date of priority of February 25, 1975authorizing the diversion of .11 cu. ft. per second of the waters of Ground Water for Domestic & Public purposes, in Custer County.

I have to report on the condition of the same as follows:

The Water Use System consists of,

A. Works used to divert the water:

See Attachment "A"

B. Works used to transport water to place of use,

1703 Linear Feet 6" cast iron pipe  
684 Linear Feet 4" cast iron pipe  
3487 Linear Feet 2" galvanized steel pipe

C. Works used to apply water to beneficial use.

1 100,000 Gallon Concrete Underground ReservoirExcellent

The system is in the following condition:

The point of diversion is located 1200 feet from the E $\frac{1}{2}$  Cor., Sec. 2, T4S., R.2E.  
at an angle of 55° 05' Northwesterly from the Section line between  
the E $\frac{1}{2}$  corner and the NE Corner of the same Sec. 2. .02  
 The works are capable of diverting and conveying to the place of use

cu. ft. per second of water which is to be used for Domestic & Public Use

Water has been put to beneficial use to the maximum extent as follows:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

comprising a total of \_\_\_\_\_ acres of land.

Send to: Lester McClanahan  
Wind Cave National Park, Supt.  
Hot Springs, SD

Date 7-8-75  
John Hatch for Thomas A Gardner  
 (Signature)  
 THOMAS A GARDNER  
 Water Resources Engineer I



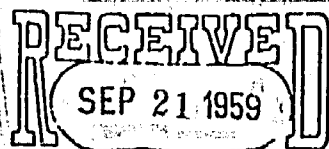
UNITED STATES  
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE  
Wind Cave National Park  
Hot Springs, South Dakota

September 18, 1959

IN REPLY REFER TO:

L 54



STATE WATER RESOURCES COMMISSION  
PIERRE, SOUTH DAKOTA

Mr. J. W. Grimes, Chief Engineer  
State Water Resources Commission  
State Office Building  
Pierre, South Dakota

Subj: Application for Permit to  
Appropriate Water #522-2,  
Jewel Cave National Monument

Dear Mr. Grimes:

Please refer to subject application, which was processed and approved by your office May 15, 1959.

Mr. A. van V. Dunn, Chief, Water Resources Section, National Park Service, Washington, D. C. asked by his memo dated May 21, 1959 that a change be made in subject application. The following paragraphs are quoted from his memo and believed to be self-explanatory.

"From the published notice, I believe that Mr. Semingsen should make an immediate request to the State Water Resources Commission to have the name of the claimant changed to the United States of America, with copies of that letter and the subsequent acknowledgment for all dockets. Any notice of protest should also be referred to this office before any further communications with the State or the protestant."

"We should also have an exact copy of the "Application" or "Notice of Federal Water Withdrawal", which was filed with the State Water Resources Commission. This should include advise as to whether Drawing NMJC 5300 (with Mr. Semingsen's memorandum) or NMJC 5300-C (with Mr. Baggey's memorandum) was submitted."

Please furnish us with four copies of the application changed to show the claimant in the name of the United States of America rather than as shown on the existing permit. Sorry to trouble you with this request. If there is a charge for this service, please advise and we will remit payment promptly.

I was certainly shocked to read about Les Wyborny's disappearance while fishing on the Missouri recently.

Sincerely,

*Earl M. Semingsen*  
Earl M. Semingsen  
Superintendent

cc: Region II, Mott  
WASO, van V. Dunn  
Miller, Jewel Cave

# RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 7975

PIERRE,

February 9, 1981

RECEIVED OF U.S. of America, Nat'l Park Service, Wind Cave Nat'l Park, Hot Springs, SD  
the following amount in fees for services rendered as provided for by law: 577.7

|                                                                                                                    |    |    |
|--------------------------------------------------------------------------------------------------------------------|----|----|
| Fee for Application for Permit to Appropriate Water No. .... (examination, processing, recording and filing) ..... |    |    |
| Fee for inspecting Construction, and issuing Cert. of Construction No. 522-2 .....                                 | 12 | 00 |
| Fee for inspecting Beneficial Use, and issuing Water License No. 522-2 .....                                       |    |    |
| Fee for issuing Location Certificate-Dry Draw, No. ....                                                            |    |    |
| Fee for filling .....                                                                                              |    |    |
| Fee for certified copy of .....                                                                                    |    |    |
| Fee for Print copy of map .....                                                                                    |    |    |
| Fee for Certifying .....                                                                                           |    |    |
| Fee for .....                                                                                                      |    |    |
| (any other work as provided by law)                                                                                |    |    |
| TOTAL                                                                                                              | 12 | 00 |

WATER RIGHTS COMMISSION

By *John Hatch*  
Chief Engineer, Executive Officer  
JOHN HATCH