

Water Right Number 1027-2

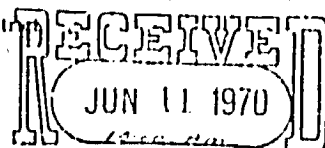
1. Considered July 22, 19 70
2. Name of Applicant Department of Game, Fish and Parks
3. Post Office Address Pierre, South Dakota
4. Amount of Water claimed .10
5. Source of Water supply ground water
6. Water to be used for Blue Bell Lodge recreation
7. Acres to be irrigated none
7. water to be diverted and used in Custer County
At BLUE BELL LODGE miles 101 of
8. Proof of Publication
Received 101
Not Received
9. Application
Approved
Subject to
Not Approved
Action Deferred
10. Remarks:

No. 1027-2

Map No. _____

Water Division No. 2BATTLE CREEK

(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 Department of Game, Fish and Parks
 Postoffice address Pierre, State South Dakota
 If a corporation show date and place of incorporation _____
2. Method of accomplishing work (contract, employment of others, or by direct labor) Contract
3. Name of diversion work Blue Bell Lodge Well
4. Amount of water claimed (cubic feet per second) .10
5. Source of water supply Ground Water
6. Location of point of diversion A point in the SW $\frac{1}{4}$ NE $\frac{1}{4}$, Section 11, T4S, R5E

- County Custer
7. Annual period or periods during which water is to be used continuously
8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) recreation
9. For irrigation use, Total number of acres to be irrigated _____

List below each forty acre subdivision, or lot, or fraction thereof and show number of acres to be irrigated in each.

Land Description	No. Acres Irr.	Land Description	No. Acres Irr.

Attach sheet if more space is needed

10. Time required to complete construction of water supply system One years. Additional time required to complete application of water to the proposed beneficial use One years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Custer County Chronicle
12. Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source.

Well and Pump

B. Works proposed to transport water to place of use.

2" line to existing water system

C. Works proposed to apply water to beneficial use.

Estimated Total Cost \$ Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map.
(See instructions concerning preparation.)

STATE OF SOUTH DAKOTA

County of HughesI, R. A. Hodgins

the applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction.

Signed R. A. HodginsSubscribed and sworn to before me this 11th day of June, 19 70

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Resources Commission hereby approves Water Right Application No. 1027-2
DEPT. OF GAME, FISH & PARKS PIERRE
 (Applicant) (Post Office Address)
SOUTH DAKOTA With the following modifications:
 (State)

Date of first receipt of application JUNE 11 19 70
 Date of return to applicant for correction, amendments or changes required — 19 —
 Date of receipt of corrected application — 19 —
 Approved JULY 22 19 70 Recorded in Book 11 Page 212

WATER RIGHT PERMIT NO. 1027-2

The Water Resources Commission hereby grants and issues this Water Right Permit No. 1027-2 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as modified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is JUNE 11 19 70
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JANUARY 22 19 71
3. The whole of said work is to be completed on or before JULY 22 19 71
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JULY 22 19 72
5. The water appropriated shall be used for the purpose of RECREATION USE IN OPERATION OF BLUE BELL LODGE
6. 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.
7. The amount of the appropriation herein granted shall not exceed .10 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for ~~beneficial use~~ USE FOR RECREATION PURPOSES ~~and must be for the irrigative purpose; said appropriation must be limited to not more than 3 acre-feet per year and the beneficial use of the water must be made in the (1/50) of an acre-foot of water per second of time for each acre of land to which water is~~ actually and beneficially applied on or before JULY 22 19 72; said water to be used during the following described annual period: CONTINUOUSLY

Witness my hand this 5TH day of JANUARY 19 71

WATER RESOURCES COMMISSION

By:

[Signature]
 Chief Engineer, Executive Officer

Certificate of Construction Issued JUNE 24 19 75
 Water License Issued JUNE 24 19 75

12. Principal Features of the Proposed Water Supply System (continued)

D. Well Information or Estimates

- (1) Drill Hole, Diameter 8" and 6", Depth 175'
- (2) Casing, Type steel Diameter 5" Thickness standard
(wood, concrete, steel, etc)
- (3) Perforated Screen.
Type slotter, Diameter 5", Length 20'
- (4) Gravel Pack. Thickness _____, Length of gravel pack _____

E. Dugout Information or Estimates.

- (1) Surface dimensions _____, Depth _____

F. Fill out for Either a Well or a Dugout.

- (1) Water Bearing Materials. (Please attach a copy to test well log if available.)

Character of Water bearing materials _____

Depth to top of water bearing material 155' ? _____

Depth to bottom of water bearing material _____

Thickness of water bearing material _____

Depth to water (ground surface to water level) _____

- (2) Distance to nearest existing household or livestock watering wells.

none in this formation

On same owner's property 7 rds. On property owned by others 3/4 mile rds.

G. Water Storage Dams.

If the proposed water use system contains one or more water storage dams, please show in the space below, the height, maximum water depth, surface area and storage capacity of each storage dam. The location of each water storage dam should be shown on the water right map.

R A Hodgins
Signature of Applicant

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 1027-2

(1) WHEREAS, On the 11th day of June A. D. 19 70
 the Department of Game, Fish and Parks

made Water Right Application No. 1027-2 for a permit to use .1 cubic feet per second of the waters
 of ground water

County of Custer, State of South Dakota, for recreation and operation
of Blue Bill Lodge purposes; and

(2) WHEREAS, On the 5th day of January A. D. 19 71

Permit No. 1027-2, with a date of priority of June 11, 1970

was issued to said applicant _____ for the diversion of said water, and provided for the completion of construction of the water
 supply system therein described on or before the 22nd day of January A. D. 19 71 and for the
 application to beneficial use of said water on or before the 22nd day of January A. D. 19 72

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 .1 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 is used for recreation and operation of Blue Bill Lodge

(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 the Department of Game, Fish and Parks

_____ of Pierre
the holder _____ and owner _____ of said permit No. 1027-2 a water right, dating from June 11, 1970
_____ to use of .1 cubic feet per second of the waters
of ground water

in the County of Custer and State of South Dakota, or so much thereof as may be necessary for the
purposes hereinbelow mentioned, to be diverted at a point in the SE⁴NE⁴, Section 11, T4S, R5E

_____ and conduct to ~~convey~~ ^{ed} through their water distribution system

for the purpose of recreation and operation of Blue Bill Lodge

Subject to any limitations listed in Water Right Permit No. 1027-2 and subject to the laws of the State of South Dakota.

WITNESS, My hand and seal of our office at Pierre, South Dakota
this 24th day of June A. D.
Nineteen Hundred and seventy-five

WATER RESOURCES COMMISSION

By:

Chief Engineer, Executive Officer
Vern W. Butler, Acting

Form 15.

Permit No. 1027-2

Water Diversion No. 2 Battle Creek Water District

CERTIFICATE OF CONSTRUCTION

This is to Certify, That the Department of Game, Fish and Parks

the holder of
Permit No. 1027-2, issued upon Application No. 1027-2, bearing date of priority of June 11,
1970 authorizing the diversion of .1 cu. ft. per second of the waters of
County of Custer State of South Dakota at
a point in the SE⁴NE⁴, Section 11, T4S, R5E

for recreation and operation of Blue Bill
Lodge

purposes, has 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 .1 cu. ft. per second of water.

Date June 24, 1975

By: WATER RIGHTS COMMISSION

Vern W. Butler, Acting
Chief Engineer

BLUE BELL LODGE WELL

2:01 The project will consist of the drilling of a well approximately 175 feet deep. The first 20 feet to be a 8" diameter hole. The next 155 feet to have a hole large enough to place a 5" I.D. casing. The bottom 20 feet of the casing to be perforated or slotted to obtain a flow from the water bearing strata. The placing of an underground discharge coupling 6 feet underground, placing a pitless unit, the placing of a 2" diameter water main from the well to existing water line; the placing of a pump and motor of sufficient size to pump 15 gallons per minute from well to storage tank, underground cable from well to power source; low water cut off, off and on switch in all weather box. It is anticipated that sufficient water will be encountered not to exceed 175 feet in depth. (15 gallons per minute) If sufficient water is not encountered at the specified depth it shall be declared a dry hole and drilling shall cease. The first 20 feet to be grouted.

2A-03 Location

The well is located in Sec. 11, Twp. 4S, Rge. 5E. (see sketch) and is located 7 miles from the game office.

2A-04 Protection of the well site.

The contractor shall protect the well site until well has been accepted or rejected by the owner.

2A-05 Equipment

Drilling equipment shall consist of serviceable well equipment of sufficient size to drill a hole large enough for a 5" I.D. casing for 175 feet. The bottom 20 feet to be perforated or slotted.

2A-06 Alignment

The hole shall be true and plumb. The minimum deviation from the true vertical shall not exceed 6°.

2A-07 Log

A complete log of the materials encountered in the drilling operations shall be recorded by the driller. A copy of the log shall be submitted to the Dept. of Game, Fish and Parks at Pierre, South Dakota.

2A-08 Drilling operations

(a) Drill an 8" diameter hole the first 20 feet.

(b) The next 155 feet to have a hole large enough for a 5" I.D. diameter casing.

(c) It is anticipated that some water be encountered before the 15' depth is reached, the driller shall test pump the well by pumping 15 gallons per minute for a period of 3 hours. When this amount of potable water is obtained, drilling operations shall cease. The well casing with 5" I.D. casing bottom 20 feet to be perforated or slotted to obtain all the flow from the water bearing strata.

3A-01 Casing 5"

The well casing shall be a new 5" I.D. steel pipe with threaded joints. The pipe shall have a minimum wt. of 14.14 lbs. per foot. Couplings shall be screwed to refusal. No loose or crooked or poorly threaded joints will be allowed.

3A-02 Grouting

The top 20 feet between the open hole and the casing shall be filled with a mixture of portland cement and water. Not over 6 gallons of water to 1 cu. foot of cement to be used. Before the grout is placed, spacers shall be placed between open hole and casing to insure complete alignment of the pipe to be grouted.

3A-03 Perforated pipe

The casing extending into the water strata shall be perforated with not less than 10 - 3/8" diameter holes per foot. (can be slotted)

3A-04 Underground discharge couplings may be any approved coupling such as Mortinson or A. J. McDonald.

3A-05 Pitless Unit

The pitless unit shall be large enough to hold all the component parts such as motor control, high and low cut off, etc. The unit shall provide for easy removal of the pump without disturbing the well and be a type approved by the State Board of Health.

3A-06 Submersible pump

The submersible pump shall be a 2 HP, 230 volt, 60 cycle single phase pump capable of producing 15 gallons per minute at the surface with conditions as indicated. The unit together with pipe and cable also fittings shall be capable of being installed in a 5" diameter well casing. Pump setting to be determined in the field by the driller.

3A-07 Galvanized pipe

The 1 1/2" galvanized pipe to be used as a drop pipe shall have a minimum weight of 2.28 lbs. per foot.

3A-08 Underground cable

The underground cable from well to meter shall have REA approval and meet the National Electrical Code.

3A-09 Water Main

From the well approximately 200 feet to the existing water line shall be layed a 2" galvanized water line and a check valve placed to prevent any back flow. A shut off gage shall be placed in the storage tank.

(a) The 2" galvanized pipe shall have a minimum weight of 3.68 lbs. per foot.

(b) It shall be buried 6' deep.

4A-01 Freedom from sand

The contractor shall pump well until the water is free from sand. (Contractor to use his own pump and not the permanent pump for the well.)

4A-02 Test pump

The contractor to furnish the necessary pumping equipment capable of pumping 15 gallons per minute for a period of 8 hours. He shall also furnish equipment to measure the flow.

4A-03 Sterilization

Before putting the water system into service, the entire system shall be sterilized with 50 PPM available chlorine solution. The solution shall remain in the system not less than 8 hours.

4A-04 Measurement of drawdown

The contractor shall measure the drawdown of the well as indicated by the test pumping at a yield of 15 gallons per minute.

4A-05 Clean up

Upon completion of the well and appurtenances, the contractor shall remove from the area all construction debris and restore the area to its normal condition.

4A-06 Change order

If there are any change orders on this project, it will be done in writing by the owner.

4A-07 Guarantee

All work and materials to be guaranteed for a period of one year.

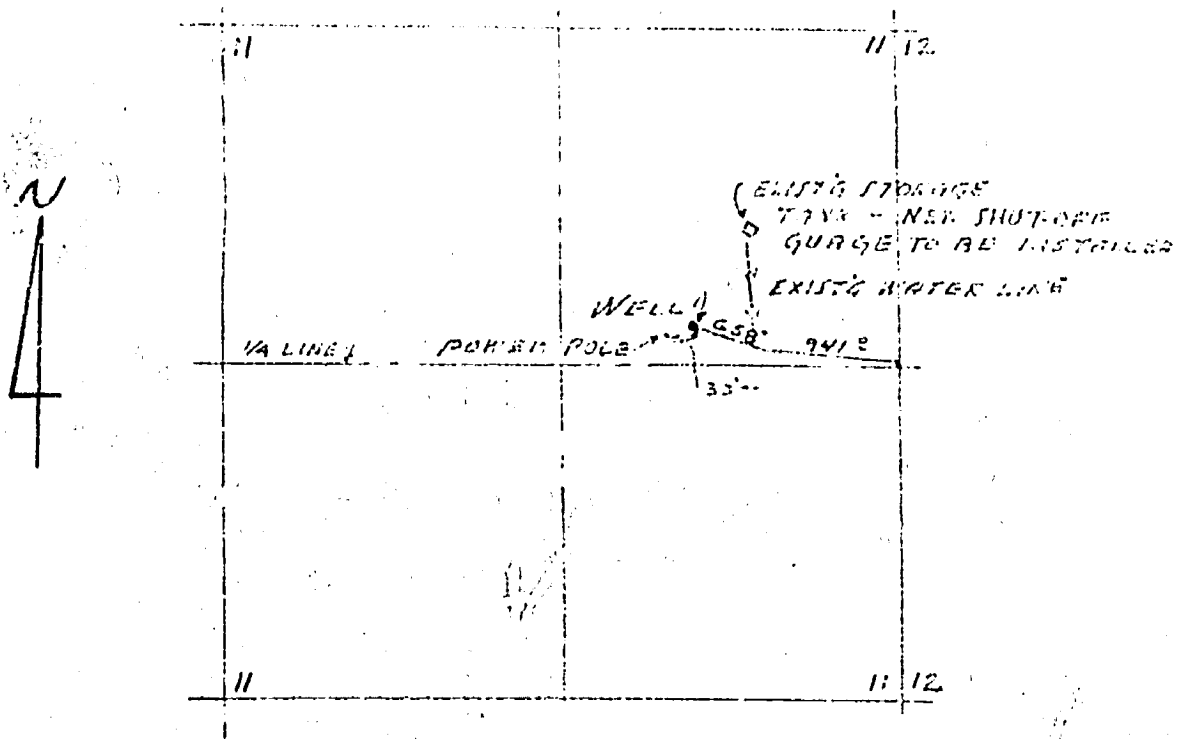
4A-08 General

There will be only one payment on this project; after the project has been completed and accepted.

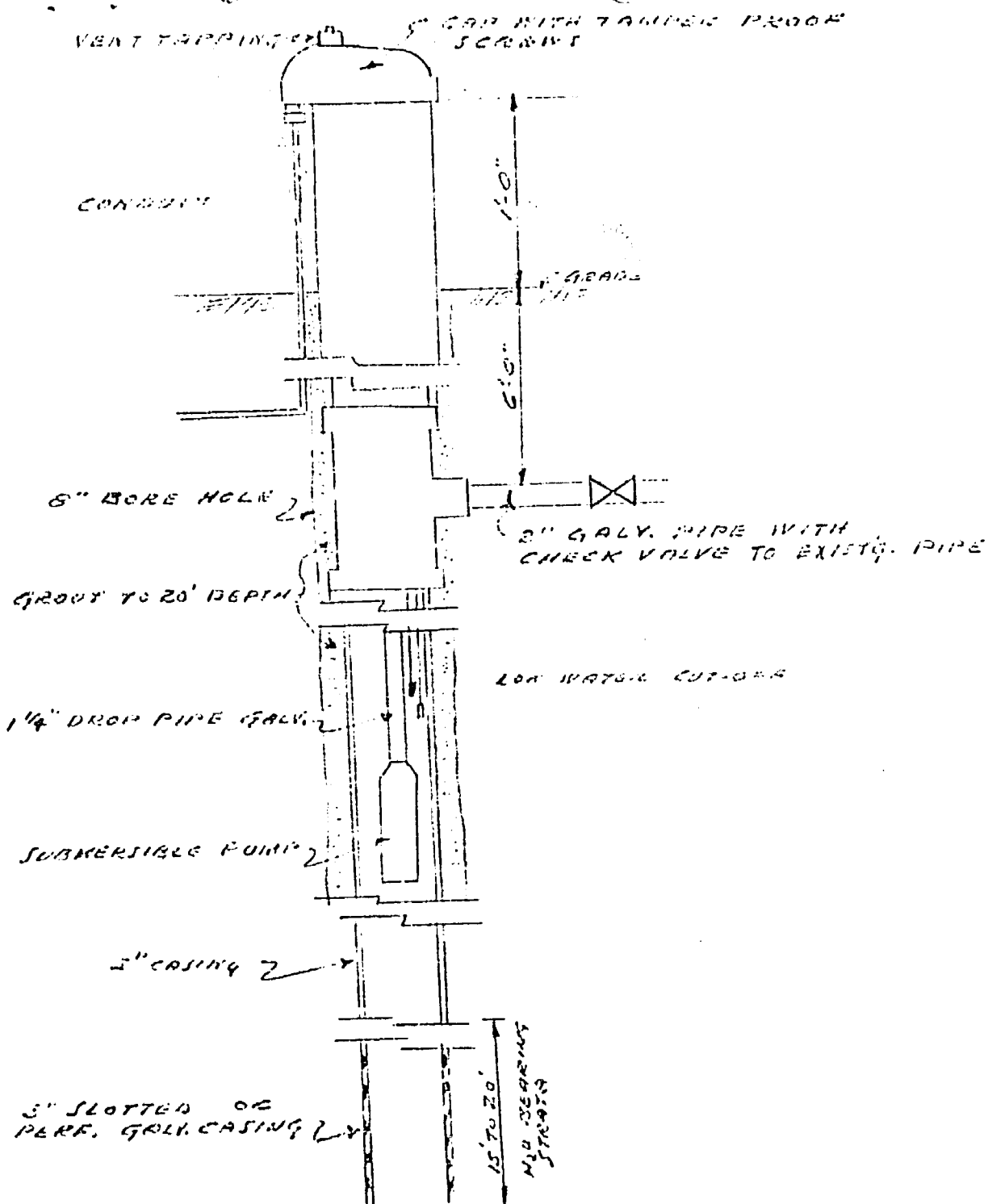
4A-09 The principal bid items are;

1. Drilling 8" hole 20 lin. ft. _____
2. Drilling 5" I.D. hole 155 lin. ft. _____
3. Well casing 5" I.D. hole 155 lin. ft. _____
4. 5" dia. perforated 20 lin. ft. _____
5. 1 $\frac{1}{4}$ " galvanized drop pipe 100 lin. ft. and power
cable 30 lin. ft. _____
6. Grout _____
7. Pump pitless unit low water _____
8. Storage tank cutoff _____
9. Miscellaneous _____
10. Pump _____
11. Water main 200 L.F. _____

FLATS SHOWING LOCATION OF WELL LOCATED NEAR
BLUE BELL LODGE NE 1/4 SEC. 11 T4S R5E CUSTER
CO. S. DAK.



NOTE:
FOR EXACT LOCATION CONTACT
VIRGIL JOHNSON, SUPT. CUSTER STATE PARK



TYPICAL WELL SECTION

1027-2

Publish first publication, on or before June 25, 1970NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

June 11, 1970

Notice is hereby given that the Department of Game, Fish and Parks
whose post office address is Pierre, South Dakota, has made an application in accordance
with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use
.10 cubic feet of water per second of time from ~~the~~ ground water through the
Blue Bell Lodge Well the point of diversion of which is to be located in the _____

SW 1/4 NE 1/4

of Section 11, Twp. 4S, Range 5E. Said water to be used for the purpose

of providing ~~irrigation for the following described lands:~~

~~supplies for operation of _____~~

supplies for operation of Blue Bell Lodge

This application No. 1027-2 will be considered by the Water Resources Commission at their office at
Pierre upon the 22nd day of July, 1970, at 2:00 P. M. All interested
persons may appear and be heard.

WATER RESOURCES COMMISSION

By:

BURTON F. JONES
Water Rights Specialist

cc: Virgil Johnson, Supt.
Custer State Park
Hermosa, S.D.

Form 8 - Proof of Publication - Notice of
Intent to Appropriate Water

No. _____

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Custer) ss.

I, Carl H. Sundstrom hereby
certify that the annexed printed copy of Notice of Intent 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
four dates:

June 11, 1970

June 13, 1970

June 25, 1970

July 2, 1970

(Signature)

(Title)

(Date Signed)

NOTICE INTENT
TO APPROPRIATE WATER

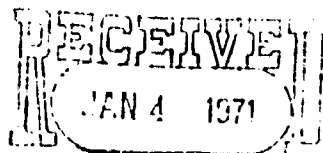
Pierre, South Dakota, 57501
June 11, 1970

Notice is hereby given that the
Department of Game, Fish and
Parks, whose post office address
is Pierre, South Dakota, has made
an application in accordance with
the provisions of the water laws
of South Dakota for a permit to
appropriate for beneficial use .10
cubic feet of water per second of
time from ground water through
the Blue Bell Lodge Well, the
point of diversion of which is to
be located in the SW 1/4 NE 1/4 of
Section 11, Twp. 4S, Range 5E.
Said water to be used for the pur-
pose of providing supplies for op-
eration of Blue Bell Lodge.

This application No. 1627-2 will
be considered by the Water Re-
sources Commission at their of-
fice at Pierre upon the 22nd day
of July, 1970, at 2:00 P.M. All
interested persons may appear
and be heard.

WATER RESOURCES COMMI-
SSION

By: BURTON F. JONES
Water Rights Specialist



WATER RESOURCES

Permit No. 1027-2Water Division 2 BATTLE CREEK Water District

**REPORT 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 DEPARTMENT OF
GAME, FISH, & PARKS of PIERRE, SOUTH DAKOTA holder
(BLUE BELL LODGE WELL)
of Permit No. 1072-2, bearing date of priority of JUNE 11, 1970
authorizing the diversion of 1 cu. ft. per second of the waters of GROUND WATER
for RECREATION 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:

175 FOOT DEEP WELL WITH 6 INCH STEEL CASING
SUBMERGIBLE 2 H.P. PUMP

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

CAST IRON AND PLASTIC PIPELINES

C. Works used to apply water to beneficial use.

CONCRETE RESERVOIR (ELEVATED) 10,000 GALLONS
23 SERVICE CONNECTIONS

The system is in the following condition: EXCELLENT

The point of diversion is located A POINT IN THE SE 1/4 NE 1/4, SECTION 11
T. 4 S., R. 5 E., B. H. M.

The works are capable of diverting and conveying to the place of use 1cu. ft. per second of water which is to be used for RECREATION

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

comprising a total of _____ acres of land:

Date 5-6-75

Thomas Gardner
(Signature)

THOMAS GARDNER
WATER RESOURCE ENGINEER



December 13, 2006

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

Custer State Park
Richard Miller, Supt.
13329 US Hwy 16A
Custer SD 57730

Dear Mr. Miller:

I am writing in regard to a well driller's report filed by Alexander Drilling Co. The report shows a new well was completed for Blue Bell Lodge on May 25, 2006. A review of our files indicates the Dept. of Game, Fish and Parks holds Water Right No. 1027-2 for 45 gallons per minute (gpm) from one well, approximately 175 feet deep located in the SE ¼ NE ¼ Section 11-T4S-R5E for use at the lodge.

South Dakota Codified Law 46-5-13.1 provides that a point of diversion (well) may be changed or additional points of diversion may be approved without application or publication of a notice of hearing if the additional point of diversion is from the same source of water, no additional water is appropriated and the Chief Engineer makes a finding that the change does not increase the potential for interference with existing diversions.

Is this a replacement well or an additional well for the lodge? If this is an additional well, does the total diversion from the two wells exceed the 45 gpm authorized by the existing permit? Once these questions have been answered, we can determine if an additional permit is required for water use at the lodge.

If you have any questions, please contact Eric Gronlund or me. We will be happy to assist you in any way possible.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
605 773-3352
email - karen.schlaak@state.sd.us

*Replacement well located
same quarter-quarter*

COPY

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

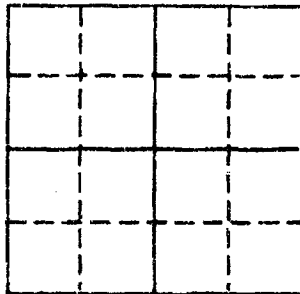
Location SW 1/4 NW 1/4 Sec 12 Twp 4S Rg 5E

County

Custer

North

Please mark well location with an "X"



Well Completion Date

5/26/06

Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

? 200 ft. from Septic (identify source)

PROPOSED USE:

☒ Domestic/Stock Irrigation
 ☐ Municipal Industrial
 ☐ Business Institutional
 ☐ Test Holes Monitoring well

METHOD OF DRILLING:

Rotary Downhole Hammer

CASING DATA:

☐ Steel
 ☒ Plastic
 ☐ Other
If other describe 30' by 6" 160 PVC

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN
		0	700	6

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
		Lb/gal	FT	FT
<u>Portland II</u>	<u>3</u>		<u>28</u>	<u>4</u>

Describe grouting procedure

thru 1" brim pipe

SCREEN:

☒ None
 ☐ Perforated pipe
 ☐ Manufactured

Diameter _____ Inches Length _____ Feet

Material _____

Slot Size _____ Set From _____ Feet to _____ Feet

Other information _____

WAS A PACKER OR SEAL USED?

☐ Yes
 ☒ No

If so, what material? _____

Describe packer(s) and location

open hole

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How? W/ chlorine
☐ No, Why Not? solution

Lab sample sent to for water quality analysis

Well Owner:

Custer State Park

Business Name:

Blue Bell Lodge

Address:

133 29 45 Hwy 16 A

City, State, Zip:

Custer SD 57730

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Drift gravel	0	18
Gravel schist pegmatite	18	62
Gravel 2-3 gpm	62	63
Schist pegmatite	63	139
Gravel 3 gpm	139	141
Schist	141	275
Brown brack. 10 gpm	275	318
Gravel schist 1 gpm	318	645
Gravel 15 gpm	645	648
Schist	648	658
Gravel 20 gpm	658	660
Gravel schist	660	665
Schist gravel 60+ gpm	665	670
Gravel schist	670	700

STATIC WATER LEVEL

35'

FEET

If flowing: closed in pressure _____

PSI

GPM flow 60+ through _____

Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe: W/air
☐ Bailed
☐ Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

Pump set @ 160'This well was drilled under license # 324

And this report is true and accurate.

Drilling firm: Alexander Drilling Co.

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: _____

RECEIVED

NOV 21 2006

WATER RIGHTS PROGRAM