

WATER PERMIT NO. 1680-1

Name of Applicant: Ivan Shonley

Address: 31068 Shonley Place, Sturgis SD 57785

Phone: 605 347-5006

Amount of Water Claimed: 0.156 cfs (70 gpm)

Total Acres: NA

Source of Water Supply: groundwater (Madison Formation)

Water to be used for: suburban housing development

County: Lawrence

Type of Waste Disposal System: individual septic tanks

Location: 6 miles east of Deadwood

PRIORITY Date Received: 2-10-1999

Fee: \$150.00

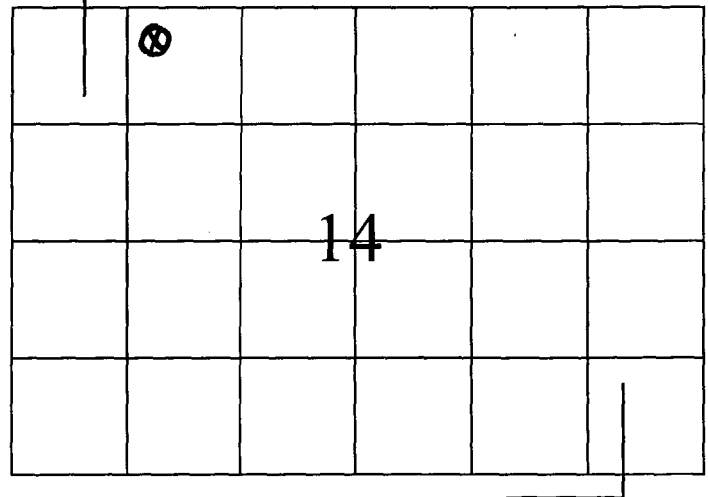
Corrected Application Received: 2-16-1999

Period of Annual Use: January 1 – December 31

Remarks: Increases the diversion rate authorized by Water Right No. 1100-1.

Diversion Point: NW ¼ NW ¼ Sec 14-T5N-R4E

Land to be Irrigated: NA



Depth of Well: 870 feet deep

Well Driller: Taylor Drilling Co.

Remarks:

Type of Map: topo

Prepared by:

Reviewed and the Number Assigned on: 2-16-1999

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

SOUTH DAKOTA
WATER PERMIT NO. 1680-1

Date of first receipt of application February 10, 1999.

Date of return to applicant for corrections, amendments or changes February 10, 1999.

Date of receipt of corrected application February 16, 1999.

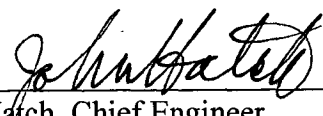
The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 1680-1 to Ivan Shonley, 31068 Shonley Place, Sturgis SD 57785 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 1680-1 appropriates 0.156 cubic feet of water per second (cfs) [70 gallons per minute (gpm)] by increasing the diversion rate authorized by Water Right No. 1100-1. Water Right No. 1100-1 appropriates 0.07 cfs (30 gpm) from one well (Madison Formation) 870 feet deep located in the NW ¼ NW ¼ Section 14-T5N-R4E. This permit increases the water appropriation from the well from 0.07 cfs (30 gpm) to 0.226 cfs (100 gpm).
2. The water appropriated shall be used for the purpose of supplying water for a suburban housing development and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 1680-1 is May 17, 1999.
5. The date from which applicant may claim right is February 10, 1999.
6. One-fifth of the construction is to be completed on or before November 17, 2001.
7. All construction is to be completed on or before May 17, 2004.
8. Water is to be put to beneficial use on or before May 17, 2008.
9. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well requested by Permit No. 1680-1 has been in use since 1983 as authorized by Water Right No. 1100-1 and the amount of water requested is a 70 gallons per minute additional appropriation to allow better service during periods of peak demand. Since no significant adverse hydrologic effects on the supply of water in the Madison Formation will result and issuance of this permit will not have a significant adverse effect on nearby Madison Formation wells or springs, Permit No. 1680-1 is issued as a permanent permit will not be in violation of SDCL 46-2A-20.

WATER MANAGEMENT BOARD

By: 
John Hatch, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

AUG 6 1999

date



FORM 2: Application for uses other than irrigation
(type or print)

Mail to:
Water Rights Program
Joe Foss Building
523 E. Capitol
Pierre, SD 57501-3181
(605) 773-3352

(office use only)
No. 1680-1 Hydrologic Unit 10120202
Basin Belle Fourche River
Newspaper Lawrence Co. Centennial, Deadwood, SD



Application For Permit To Appropriate Water Within The State Of South Dakota

Check use(s) of water:

☐ Municipal ☒ Suburban Housing ☐ Recreational ☐ Institutional
☐ Rural Water System ☐ Commercial ☐ Fish & Wildlife ☐ Geothermal Heat
☐ Domestic (over 18 gpm) ☐ Industrial ☐ Other

Type of Application: ☐ New ☐ Vested Right (Use predates Mar 2, 1955) ☐ Future Use Reservation
(check one) ☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____
☐ Amendment/Correction to Permit No. _____

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.) Additional Diversion of
water authorized
Under water rights 100-1

1. Name of Applicant Ivan Shonley Phone 605-347-5006
(check one) ☐ Owner ☐ Tenant/lessee
Mailing Address 31068 Shonley Place Sturgis, S.D. 57785 State S.D.
(Street, RR, or Box and City) (Zip Code)
2. Amount of water claimed 0.156 *CFS or 70 additional **GPM ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (**Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply Madison formation well
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)
N.W. 1/4 of the n.w. 1/4 Section 14 T5N R4E
County Lawrence
5. County or counties where water will be used Lawrence
6. Annual period during which water is to be used Jan. 1 --- Dec. 31

7. Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

Applying to increase water for better service during peak demands.
Adequate maps & information on well available in file W.R. 1100-1
Individuate septic system.

STATE OF SOUTH DAKOTA)
County of Lawrence) SS

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Attach map and any other technical information. (see instructions)

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

Applicant's signature Ivan Shonley

Subscribed and sworn to before me this 8th day of February 19 99

Dorothy U Shonley
Notary Public signature

my Commission Expires 10-31-99

Supplemental Information

(type or print in ink)



1. Well Information - Proposed Construction

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type _____ Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well: _____

On applicants property _____ On property owned by others _____

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) _____
- b) System Capacity (gallons) _____ Year Constructed _____
- c) Connected to the City of _____ Sanitary System _____

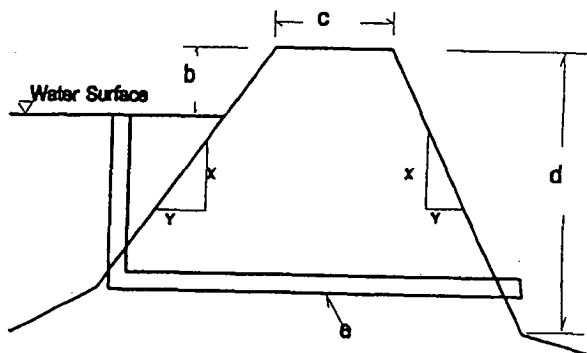
3. Dugout Information

- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

4. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

- a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:



- b) Freeboard _____
- c) Crest Width _____
Crest Length _____
- d) Height _____
- e) Primary Outlet Capacity _____
If pipe, diameter _____
- f) Secondary Spillway Capacity _____
Spillway Width _____
- g) X & Y Slope _____
Upstream _____
Downstream _____
- h) Surface Area of Impoundment _____
- i) Storage _____ Acre Feet
- j) Drainage Area Above Dam _____ Acres

*Mailed 3 Copies
to John Shonley
10/21/83
Ant*

JOHN PAUL GRIES

Consulting Geologist

238 ST. CHARLES STREET
RAPID CITY, SOUTH DAKOTA

Shonley Water Well #2

NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 14, T. 5 N., R. 4 E, Lawrence County, SD
Sample cuttings described by J. P. Gries Sept. 1983

Sample set #661 SDSM

Total depth 870 feet

Surface 0 - 16 feet

0- 16 redbeds and gravel

Minnekahta formation 14 - 70 feet

16- 60 limestone, finely crystalline, red brown to cream

60- 80 limestone, same, and into top of Opeche lavender shale

Opeche formation 70 - 180 feet

80-180 redbeds, more micaceous at base

Minnelusa formation 180 - 680 feet

180-200 no sample

220 sandstone, fine to medium, poorly sorted, cemented

280 sandstone, poorly sorted, somewhat cemented, yellow to white

340 sandstone, fine to medium, white, friable to tight

360 sandstone, same, 2/3; dolomite, finely crystalline, cream to pink, 1/3

380 sandstone, fine, white, 80%; dolomite as above, 20%

400 sandstone, same, 1/2; dolomite, same, 1/2

420 dolomite, very finely crystalline, earthy, pink to cream

440 clay, red, 2/3; dolomite and fine white sandstone, 1/3

500 dolomite, very finely crystalline, flesh pink

510 dolomite, same, cream to pink

520 dolomite, same, 2/3; sandstone, fine, white, 1/3

530 dolomite, earthy, pale green, pink and white

540 dolomite, same, 1/2; sandstone, same, 1/2

570 dolomite, same, 1/3; sandstone, same, 2/3

580 dolomite, finely crystalline, gray to pink; some sandy

590 dolomite, very finely crystalline, earthy, cream

600 dolomite, same but more pink

630 dolomite, very finely crystalline, pale pink; sand streak at 620

650 dolomite, same 1/2; clay, dark red, 1/2

660 shale, dolomite, and sand, probably some is caved

670 clay, maroon to deep red

680 no sample

Madison formation 675 feet to total depth

680-690 dolomite, very finely crystalline, pale pink to white

-720 limestone, dolomitic finely crystalline, white to pale pink 7 Cream

740 dolomite, medium crystalline, rhombic, white, good porosity

760 dolomite, medium crystalline, rhombic, white

780 dolomite, same but light tan to pale pink and yellow

800 dolomite, calcareous, finely crystalline, dense, pink, yellow, white

820 dolomite, calcareous, earthy, tight, pink, cream, white

840 dolomite, medium crystalline, rhombic, cream to pale yellow, porous

860 dolomite, same, very porous, yellow to pink

870 dolomite, total depth

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

Nº 416039

Pierre, February 10, 19 99

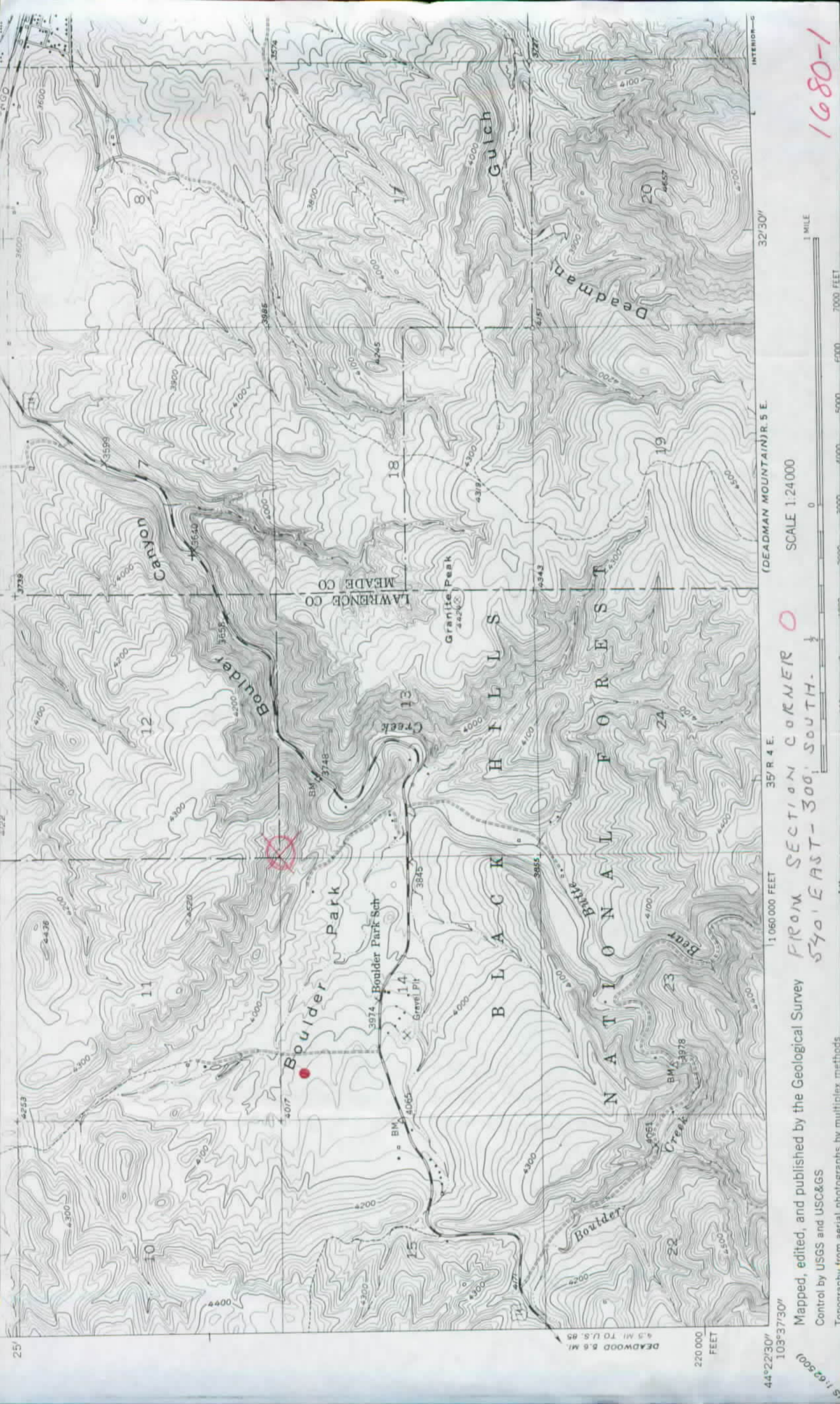
RECEIVED OF I & D Shonley, 31068 Shonley Place, Sturgis, SD 57785
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. <u>1680-1</u> to Appropriate Water, to construct and to put water to beneficial use _____	150	00
Fee for Application for Permit No. _____ to Appropriate Water, for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>1680-1</u> _____	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	200 00

By _____
Chief Engineer

John Hatch



1680-1

44°22'30" 103°37'30" 106000 FEET 35°R 4 E 32'30" (DEADMAN MOUNTAIN) R. 5 E

DEADWOOD 8.6 MI. 9.3 MI. TO U.S. 85 1 MILE 7000 FEET

Maped, edited, and published by the Geological Survey Control by USGS and USC&GS

FROM SECTION CORNER O 540' EAST-300' SOUTH. SCALE 1:24000

Topography from aerial photographs by multiplex methods

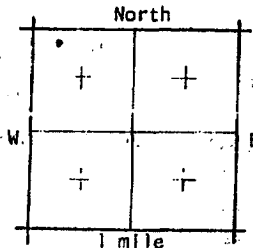
STATE OF SOUTH DAKOTA WELL DRILLERS REPORT

Location NW 1/4 NW 1/4 Sec 14 Twp 5N Rg 4E

County Deade

Lawrence

Please mark well location with an "X"



Well Completion Date 9/2/83

PROPOSED USE:

☒ Domestic ☐ Municipal ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Stock

Method of Drilling:

Rotary

WELL CONSTRUCTION:

Diameter of hole 8 1/2 inches to 690' Depth 486 feet

Casing: ☒ Steel ☐ Plastic ☐ Other
Specify 693' 8 5/8"

Pipe Weight Diameter From To
34 lb/ft 8 5/8 inches 0 feet 693 feet
 lb/ft inches feet feet

Was a well screen used? ☐ Yes ☒ No

If Not Specify open hole completion

Screen Type Slot Size

Length Diameter

Was Casing left open end? ☒ Yes ☐ No

Was a Packer or seal used? ☐ Yes; ☒ No

If so what material?

Was well gravel packed? ☐ Yes ☒ No

Was well grouted? ☒ Yes ☐ No

Describe grouting procedure pressure grouted from bottom to top

To what depth? 693 Feet

What was grouting material? cement

If cement, how many sacks? 225

Location of packer(s) and screen or perforated pipe

WAS WELL PLUGGED OR ABANDONED ☐ Yes ☒ No
If so how and with what material?

WNR-836 4/82

Well Owner:

Name Ivan Shanley

Address Boulder Park Subdivision, Sturgis

Well Log: Depth

Formation	From	To
red shale	0	16
limestone	16	55
red siltstone	55	58
brown siltstone	58	68
red siltstone	68	80
red shale	80	91
siltstone broken	91	93
shale	93	101
siltstone	101	103
shale	103	117

STATIC WATER LEVEL 400 (over) Feet

If flowing: closed in pressure PSI

GPM flow through inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other; specify

Can well be completely shut off?

WELL TEST DATA:

☐ Pumped

☐ Balled

☒ Other

Describe: air test

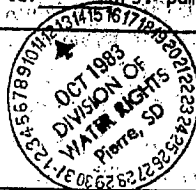
Pumping Level Below Land Surface

680 ft. After Hrs. pumped 175-200 GPM

730 ft. After Hrs. pumped 200-250 GPM

860 ft. After Hrs. pumped 250-300 GPM

Remarks:



This well was drilled under license # 331

and this report is true and accurate.

Drilling Firm Taylor Drilling Co. Rick Taylor

Date 9/19/83 PRINT BACK SIDE

(Signature)

Siltstone	117-120
red shale & siltstone	120-165
red sandstone	165-190
shale	190-210
yellow sandstone	210-260
white sandstone	260-315
yellow sandstone	315-340
red sandstone & limestone	340-352
yellow sandstone	352-388
pink sandstone broken	388-394
yellow sandstone	394-400
red sandstone	400-420
sandstone	420-440
limestone	440-446
sandstone	446-452
limestone	452-466
sandstone	466-470
pink limestone	470-482
sandstone	482-490
limestone	490-503
sandstone	503-510
limestone	510-511
sandstone	511-533
limestone	533-536
sandstone	536-570
limestone	570-595
pink limestone	595-598
white limestone	598-604
yellow limestone	604-606
clay	606-608
pink & white sandstone	608-611
limestone	611-618
pink sandstone	618-625
white & brown limestone	625-636
red & brown shale	636-642
sandstone	642-662
red shale	662-668
sandstone	668-671
limestone	671-675
white & brown limestone	675-690

pink & yellow limestone 690-710
 white & brown limestone 710-863
 void 863-867
 loose limestone 867-870

Ivan Shonley
 Boulder Park Subdivision
 Sturgis, So. Dak.

Meade Co. NW NW Sec. 14 Twp. 5N Rg. 4E



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

February 10, 1998

Ivan Shonley
31068 Shonley Place
Sturgis SD 57785

Dear Mr. Shonley:

Thank you for submitting the *Application for a Permit to Appropriate Water* requesting to increase the diversion rate authorized by Water Right No. 1100-1.

In a previous phone conversation with Eric Gronlund of this office, Eric indicated the map for Water Right No. 1100-1 could be used with this application. We have reviewed our files and can not locate this map. Enclosed is a copy of a topographic map showing Section 14-T5N-R4E. Please mark the location of the well with an "X" and return the map to us.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak
Water Rights Program
605 773-3352

enclosure

WATER PERMIT APPLICATION NO. 1680-1
IVAN SHONLEY
MARCH 11, 1999

Water Permit Application No. 1680-1 proposes to appropriate 0.156 cubic feet of water per second (cfs) [70 gallons per minute (gpm)] by increasing the diversion rate authorized by Water Right No. 1100-1. Water Right No. 1100-1 appropriates 0.07 cfs (30 gpm) from one well (Madison Limestone), 870 feet deep, located in the NW¼ NW¼ Section 14, T5N-R4E. This application proposes to increase the water appropriation from the well from 0.07 cfs (30 gpm) to 0.226 cfs (100 gpm).

AQUIFER: Madison Aquifer (MDSN)

GENERAL:

The Madison Aquifer is a massive, carbonate (limestone and dolomite) aquifer that underlies most of western South Dakota. It is estimated that the aquifer contains at least 640 million acre-feet of recoverable water in storage in the State (Allen, 1984). The importance of the Madison as an aquifer is largely due to randomly distributed zones of secondary porosity and permeability formed by weathering of exposed surfaces, groundwater solution, and fracturing. These zones also play an important role in determining the hydraulic behavior of the Madison aquifer and the response of the system to stress. Recharge to the Madison aquifer occurs through streamflow losses and direct infiltration of precipitation at the outcrop area. Recharge for the entire Madison Aquifer in South Dakota has been estimated to range from 140,000 to 400,000 acre-feet per year (Woodward Clyde, 1981). The Madison is generally considered an excellent aquifer both in terms of quality and quantity, especially near the outcrop (recharge area). The Madison outcrop is located within one mile of this well site (Darton, 1925). The top of the Madison is reported to be around 670 feet below ground surface at this well site. The static water level of this well was reported to be 400 feet below grade in 1983.

WATER AVAILABILITY:

The high cost of Madison wells, except very near the outcrop, and the availability of groundwater from shallower aquifers, has limited domestic development and generally restricted usage from the Madison to those uses which require Water Rights. There are 106 permits/rights which appropriate water from the Madison aquifer in South Dakota. The majority of the water rights/permits from the aquifer are from Butte (17), Lawrence (20), Meade (17), Pennington (30) and Fall River (10) Counties. The Madison supplies water for irrigation, geothermal, industrial, commercial, recreational, and commercial use. However, by far the major use of the aquifer is for common distribution systems (suburban housing development and municipal use). The cities of Spearfish, Belle Fourche, Whitewood, Sturgis, Rapid City, Box Elder and Edgemont all depend on water from the Madison Aquifer.

If the worst case assumptions are made that (1) permits/rights with an annual withdrawal limitation (ac-ft/yr.) will use the maximum allowable; and (2) permits/rights that are limited by a diversion rate only, will use 60% of the maximum allowable (considered reasonable for water distribution systems); the total water use from the Madison would be approximately 50,000 acre-feet per year. The actual amount of water used from the Madison is considerably less than this estimate. Three Future Use Permits (2086-2, 1833-2, and 369-1) reserve another 6,455 acre-feet annually from the Madison Aquifer for future use. Comparison of the estimated annual recharge to the Madison with the water use estimated from the aquifer indicates unappropriated water is available from the Madison aquifer.

This application proposes an additional appropriation of, theoretically up to 113 ac-ft/yr. from the Madison Aquifer (continuous pumping at permitted discharge rate). Realistic usage from this well should be less

than 65 ac-ft/yr. This amount of water will not significantly upset the balance of withdrawals to recharge for the system.

The Water Rights Program monitors three observation wells completed into the Madison Aquifer within approximately 4.5 miles of this well. Observation well LA-96D was completed into the unconfined portion of the Madison Aquifer about 1.5 miles southwest of this well site. The hydrograph of the well (figure 1) represents less than one year of record, but the continuous recorder data clearly shows the aquifer's response to recharge. The aquifer is replenished fairly rapidly and water is withdrawn from storage more gradually.

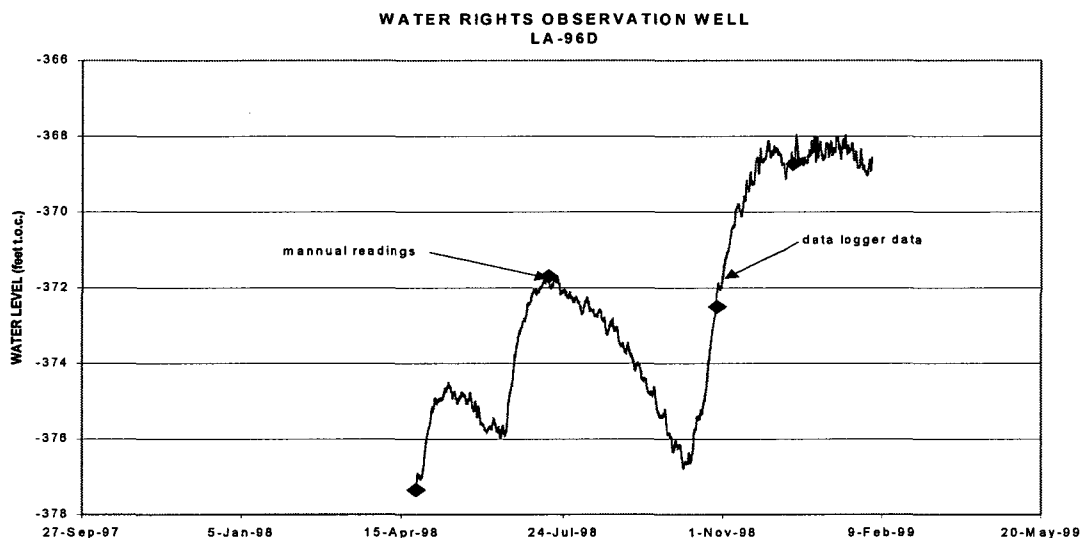


Figure 1, Madison Aquifer Observation Well LA-96D Hydrograph

The hydrograph for Observation Well LA-90A, which is located approximately 2.5 miles north of this well (figure 2) and the hydrograph for Observation Well MD-86A, which is located approximately 4.5 miles east of this well (figure 3) also show the aquifer's response to recharge. The hydrographs also illustrate the magnitude of fluctuation of the water levels at the two sites, (78.4' and 54.2' respectively) between the relatively wetter period from 1995 to present and the dryer early 1990's.

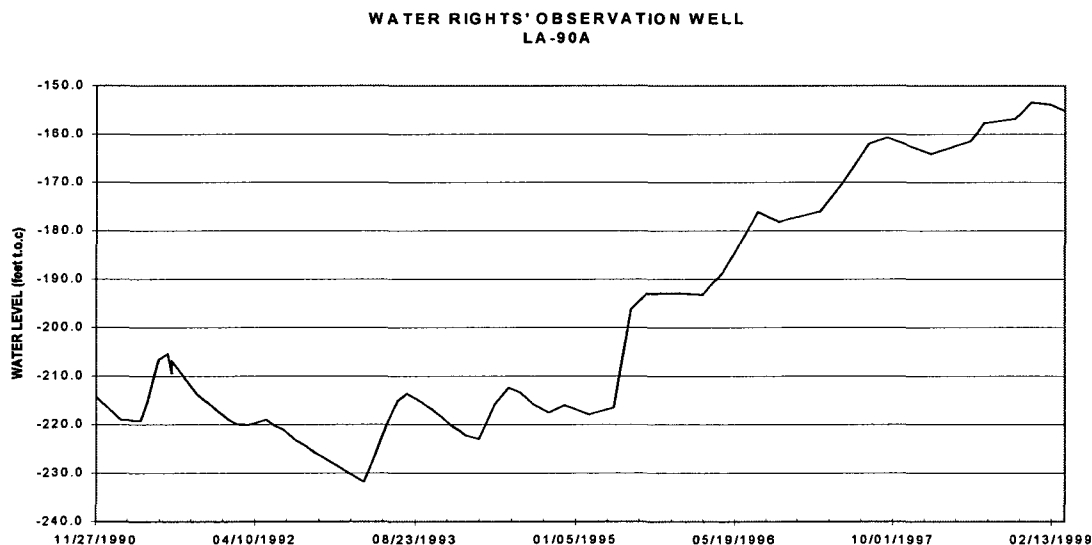


Figure 2, Madison Aquifer Observation Well LA-90A Hydrograph

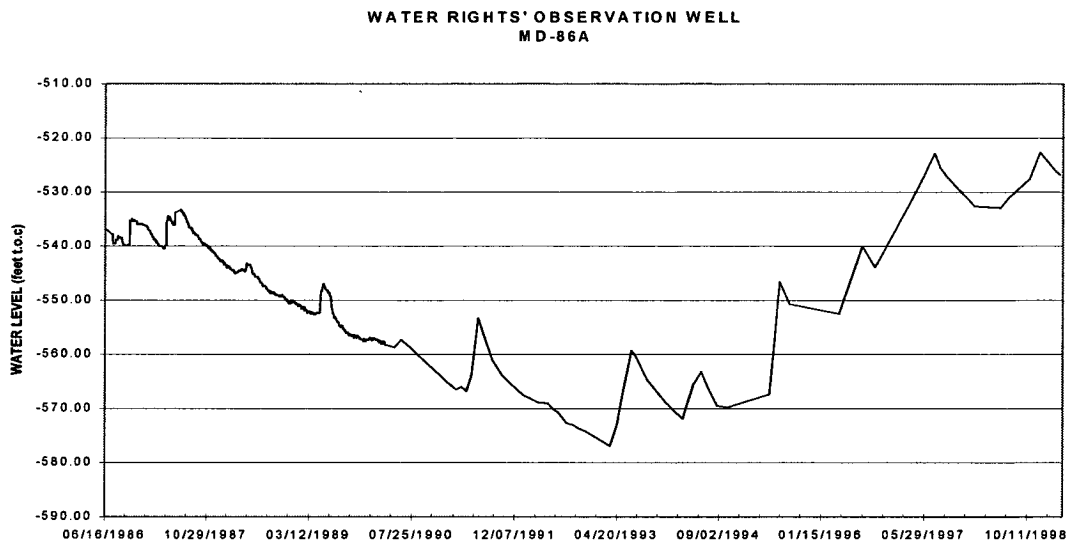


Figure 3, Madison Aquifer Observation Well LA-86A Hydrograph

The Water Rights Program monitors 26 observation wells completed into the Madison aquifer in the Black Hills Area. Records from the observation wells indicate the potentiometric surface of the Madison Aquifer fluctuates 30-40 feet per year near the recharge area in response to seasonal and climatic variations. Long term water-level declines are not apparent from any of the hydrographs. Observation well data suggest that at the existing level of development, natural influences dominate the water level of the aquifer and the effects of pumping as yet are not obvious.

AFFECTS ON EXISTING RIGHTS:

There are a number of domestic wells on file with the Water Rights Program in this area. They are supplied six general zones, listed in descending order: alluvium, Spearfish Formation, Minnekahta Limestone, Opeche Shale, Minnelusa Formation and the Madison Limestone. Most of the wells in the area obtain water from the Spearfish, Minnekahta or Opeche aquifers.

There are four Water Rights/Permits belonging to others that appropriate groundwater within approximately one mile of this well site. Wells supplying these permits are all completed into the Minnelusa Aquifer. The nearest Water Rights/Permits appropriating water from the Madison aquifer are over four miles from this well site. Any well interference this proposed appropriation would have on area wells is not expected to be adverse due to the distance between wells, and the apparent hydrologic separation between the Madison and shallower aquifers in the area.

Historical Note:

In 1961, area property owners became concerned that pumping a well completed into the Minnelusa Aquifer for golf course irrigation (Water Right No. 661-1, Boulder Canyon Country Club) might lower the water levels in the domestic wells. An observation well was completed 1962 to monitor the Minnelusa aquifer in this area. The 35 years of data from the observation well have shown the Minnelusa water levels have not been adversely by development in the area. In 1976, Ivan Shonley applied for Water Permits No.1099-1 and No.1100-1, from two wells, Madison and Minnelusa respectively. The Water Rights Commission deferred action upon receiving objections that the proposed project would affect domestic water supplies. The permits were eventually approved and there has been no report of controversy. In 1991, Water Rights received the latest phone call expressing concern about proposed additions to the Shonley Subdivision. Observation well data indicates well interference concerns in this area are basically

unfounded. The increasing the diversion rate of 70 gpm proposed for this well is not likely to adversely impact existing water rights.

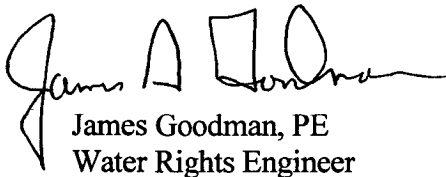
CONCLUSIONS:

1. A signed map showing the location of this well is not available for this application as required by ARSD 74:02:01:07.
2. There is a history of objections to ground water development in this area. The original application from this well (#1100-1) was deferred pending a staff investigation.
3. This appropriation will not adversely impair existing ground water rights due to the distance between wells, and the apparent hydraulic separation between the Madison and shallower aquifers in this area.
4. Data indicates that unappropriated water is available from the Madison Aquifer in this area.



Ken Buhler
Water Rights Engineer

Approved by



James Goodman, PE
Water Rights Engineer

REFERENCES:

- Allen, J.C., D.Iles, A.Petres, 1984, Analysis of Groundwater and Streamflow Data, Western Dakotas Region of South Dakota, Task 3 & 4: Groundwater Resources Inventory, US Army Corps of Engineers Contract DAWC 45-82-C-015, SD DENR- Geological Survey, Vermillion SD
- Darton, N.H., Paige, S., 1925, Geologic Atlas of the United States, Central Black Hills Folio, U.S. Geologic Survey Folio No. 219.
- Water Rights Program, 1999, "Unpublished Observation Well Records", South Dakota DENR-Water Rights Program, Joe Foss Building, Pierre, SD
- Water Rights Program, 1999, "Domestic Well Log Files", South Dakota DENR-Water Rights Program, Joe Foss Building, Pierre, SD
- Water Rights Program, 1999, "Water Permit/Right Files", South Dakota DENR-Water Rights Program, Joe Foss Building, Pierre, SD
- Woodward Clyde Consultants, 1981, Well Field Hydrology Technical Report, for the ETSI Coal Slurry Pipeline Project, U.S. Dept. of Interior, Bureau of Land Management

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 1680-1, Ivan Shonley**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 1680-1, Ivan Shonley, 31068 Shonley Place, Sturgis SD 57785.

The Chief Engineer is recommending APPROVAL of Application No. 1680-1 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well requested by Permit No. 1680-1 has been in use since 1983 as authorized by Water Right No. 1100-1 and the amount of water requested is a 70 gallons per minute additional appropriation to allow better service during periods of peak demand. Since no significant adverse hydrologic effects on the supply of water in the Madison Formation will result and issuance of this permit will not have a significant adverse effect on nearby Madison Formation wells or springs, Permit No. 1680-1 is issued as a permanent permit will not be in violation of SDCL 46-2A-20.

See report on application for additional information.


JOHN HATCH, Chief Engineer
April 5, 1999



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

**NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATES, CONTACT
THE NEWSPAPER RIGHT AWAY.**

April 22, 1999

Ivan Shonley
31068 Shonley Place
Sturgis, SD 57785

Dear Mr. Shonley:

Water Permit Application No. 1680-1 for suburban housing development has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Lawrence Co. Centennial printed at Deadwood, SD (Ph # (605) 578-3305). For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice of Hearing and to arrange for payment. Early contact with the paper can eliminate delays. The publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. The newspaper has been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

NOTE: If you plan to contest any part of the Chief Engineer's recommendation, you must file a petition pursuant to the procedures outlined in the attached notice of hearing. The Water Management Board will then consider your concerns during a hearing on the application.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

April 22, 1999

Lawrence Co. Centennial
Box 512
Deadwood, SD 57732-0512

ATTENTION: Legal Public Notice

Enclosed is a Notice of Hearing on Application No. 1680-1 to Appropriate Water to be published twice. Please publish the first notice on April 29, 1999, with the second publication 7 days later.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Ivan Shonley, 31068 Shonley Place, Sturgis, SD 57785 (Ph # (605) 347-5006).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,

Eric Gronlund
Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CU T HERE-----

No. 1681-3

TO: Eric Gronlund
Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

Date _____

We are in receipt of your letter of April 22, 1999, enclosing Notice of Hearing to Appropriate Water by Application No. 1680-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper

Instruction to Newspaper - Publish first Notice on April 29, 1999, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 1680-1 to Appropriate Water

Notice is given that Ivan Shonley, 31068 Shonley Place, Sturgis SD 57785 has filed an application for a water permit to appropriate 0.156 cubic feet of water per second (cfs) [70 gallons per minute (gpm)] by increasing the diversion rate authorized by Water Right No. 1100-1. Water Right No. 1100-1 appropriates 0.07 cfs (30 gpm) from one well (Madison Formation) 870 feet deep located in the NW ¼ NW ¼ Section 14-T5N-R4E. This application proposes to increase the water appropriation from the well from 0.07 cfs (30 gpm) to 0.226 cfs (100 gpm). Water is used for a suburban housing development.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1680-1 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by May 17, 1999.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Nettie H. Myers, Secretary, Department of Environment and Natural Resources.

AFFIDAVIT OF PUBLICATION



STATE OF SOUTH DAKOTA COUNTY OF LAWRENCE

Joan M. Lewis, being duly sworn, says: That the **Lawrence County Centennial**, is and, during all the times hereinafter mentioned, was a legal newspaper as defined in SDCL 17-2-2, as amended, published at Deadwood, Lawrence County, South Dakota, by Dickson Media, Inc.; that affiant is and, during all of said times, was employed as an accountant by the publisher of such newspaper and has personal knowledge of the facts stated in the affidavit; that the notice, order or advertisement, a printed copy of which is attached, was published in said newspaper for successive issues, bearing the following dates:

April 29, 199 9 _____ 199 _____
May 6, 199 9 _____ 199 _____
_____ 199 _____ 199 _____
_____ 199 _____ 199 _____
_____ 199 _____ 199 _____

that the full amount of the fee charged for publishing the same, to-wit, the sum of \$37.33, insures solely to the benefit of the publisher of said newspaper; that no agreement or understanding for the division of the fee has been made with any person, and that no part of the fee has been agreed to be paid to any other person.

Joan M. Lewis
Bookkeeper

Subscribed and sworn to before me this

14th day of May, 1999

Shanita Brunner
Notary Public, South Dakota

My Commission Expires
February 1, 2001



Water rights

NOTICE OF APPLICATION NO. 1680-1 to Appropriate Water

Notice is given that Ivan Shonley, 31068 Shonley Place, Sturgis SD 57785 has filed an application for a water permit to appropriate 0.156 cubic feet of water per second (cfs) [70 gallons per minute (gpm)] by increasing the diversion rate authorized by Water Right No. 1100-4. Water Right No. 1100-1 appropriates 0.07 cfs (30 gpm) from one well (Madison Formation) 870 feet deep located in the NW1/4 NW1/4 Section 14-T5N-R4E. This application proposes to increase the water appropriation from the well from 0.07 cfs (30 gpm) to 0.226 cfs (100 gpm). Water is used for a suburban housing development.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1680-1 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building,

523 E. Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by May 17, 1999.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Nettie H. Myers, Secretary, Department of Environment and Natural Resources.

**Publ: April 29 & May 6, 1999
Lawrence County Centennial**



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

AUG 6 1999

Ivan Shonley
31068 Shonley Place
Sturgis, SD 57785

Dear Mr. Shonley:

Enclosed is Water Permit No. 1680-1 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Form 10, *Notice of Completion of Works and Application of Water to Beneficial Use*, is enclosed. Please return this completed form after you have finished the system and have put the water to beneficial use. An investigation can then be scheduled so the water license may be issued, thus completing the acquisition of a water right.

An informational sheet *Common Water Right Questions?* is also enclosed. This sheet is intended to answer some of the questions associated with obtaining and keeping a water right.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

NOTICE OF COMPLETION OF WORKS AND APPLICATION OF WATER TO BENEFICIAL USE

Date AUG-18-1999

TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181



FROM: IVAN SHONLEY
(name)
31068 SHONLEY PLACE
(address)
STURGIS - S.D. - 57785
(city, state, zip)

(phone)

I have completed the construction of the water use system and I have put the water to beneficial use to the maximum extent it is going to be used.

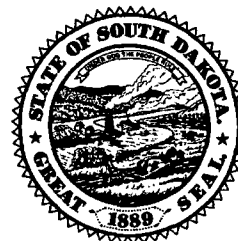
Water Permit No. 1680-1 states that the water use system is to be constructed by MAY 17-1999, and water is to be put to beneficial use by MAY 17-1999.
(date) (date)

The water use system was completed on MAY 17-1999.
(date)

Applying the water to beneficial use was completed on MAY 17-1999.
(date)

You may schedule an investigation so that the water license may be issued.

Ivan Shonley
(signature)





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

August 20, 1999

1680-1

Ivan & Dorothy Shonley
31068 Shonley Place
Sturgis, SD 57785

Dear Mr. & Mrs. Shonley:

I am writing to acknowledge receipt of your "Notice of Completion of Works" form and the \$50.00 check you submitted for licensing purposes.

I reviewed your water permit file and found that you have already paid the fee for the inspection and issuance of the water license. The fee was paid at the same time you paid the application fee back in February 1999. Additional fees are not required. Enclosed is your check # 1589 in the amount of \$50.00.

The "Notice of Completion of Works" form you submitted allows us to schedule an investigation of your water use system. Investigations are done on a county-by-county basis. As soon as one of our staff gets to your area, they will contact you in order to set up a time to look at your water use system.

You have complied with all of the requirements for obtaining a water permit. If you have any questions, please get in touch with me.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352

enclosure: check # 1589

RECEIVED

AUG - 9 2011

WATER RIGHTS
PROGRAM

NOTICE OF TRANSFER OF OWNERSHIP

To: Chief Engineer
Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

No. 1680-1Date: 7/28/11I/We request that Water Permit No. 1680-1formerly owned by: Ivan T Shonley

be transferred to: (name & address) Boulder Park Water Users Association, Inc
12204 US Hwy 14A
Sturgis SD 57785 Telephone No. 605-347-3588

Title to the following described land(s)/property has been transferred as described above:

Madison well located: NW ¼ NW ¼ Section 14, T5N, R4E

I/We understand that the validity of Water Permit No. 1680-1 has not been determined by this transfer action. If I/We have any questions on validity, I/We understand that only the Water Management Board has the authority to determine if a water permit/right is valid (see note).

You are requested to file this "Notice of Transfer" in the appropriate file with the Water Rights Program, as evidence of the change of ownership.

A fee of Fifty Dollars (\$50.00) is required to cover the filing fees as required under SDCL 46-2-13. This form must be signed by the new owner.

I/We BPWUA, Inc, the new owner, certify that the above information is true and correct.

Quay L. Lewis, sec/treas
(Signed by new owner) BPWUA
Board of Directors

NOTE: Water permits may be cancelled for nonconstruction after the five year construction period has expired. Once a water permit is developed and the water used, the permit becomes a right. A water right may be lost for three reasons:

1. Abandonment - no intent to use water and use is abandoned.
2. Forfeiture - no use of water for three year period without legal excuse.
3. For a third violation of a condition of a water permit/right.

RECEIPT
WATER RIGHTS PROGRAM
South Dakota Department of Environment and Natural Resources

Date 8/9, 2011

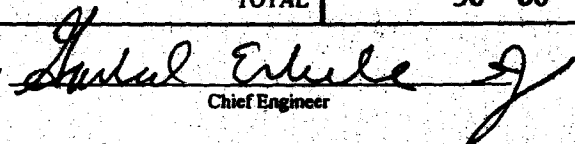
RECEIVED OF Boulder Park Water Users Assn 12204 US Hwy 14A Sturgis SD 57785

The following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use.	50	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
Fee for Filing Transfer Form <u>1680-1</u>		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	50 00

No. **05014**

By


Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.state.sd.gov

August 9, 2011

1099-1
1100-1
1680-1

Judy L Lewis, Sec/Treasurer
Boulder Park Water Users Association
12204 US Hwy 14A
Sturgis SD 57785

Dear Ms. Lewis:

I am writing to acknowledge receipt of the transfer forms and filing fees you submitted for changing ownership on Water Right Nos. 1099-1 and 1100-1 and Water Permit No. 1680-1. The ownership changes have been completed.

Water Right Nos. 1099-1 and 1100-1 and Water Permit No. 1680-1 formerly listed in Ivan and Dorothy Shonley's names are now listed in the name of "Boulder Park Water User's Association". Enclosed, for your records, are Receipt Nos. 05012, 05013 and 05014.

If you have any questions, please contact me.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

enclosures



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.state.sd.gov

July 13, 2011

1099-1
1100-1
1680-1

Judy Louis
20722 76 Loop
Sturgis SD 57785

Dear Ms. Louis:

Thank you for taking the time to visit with me about the ownership changes needed for Water Right Nos. 1099-1 and 1100-1 and Water Permit No. 1680-1.

Enclosed as we discussed are partially completed "Notice of Transfer of Ownership" forms for filing the ownership changes. Upon completion, please sign the forms (on behalf of the association) and return them to our office with a required filing fee of \$50.00 each (total of \$150.00). The check or money order for the fee can be made payable to the Water Rights Program.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in cursive script that reads 'Genny McMath'.

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

enclosures

Permit No. 1680-1
Belle Fourche River - Water District

Report of Examination of Works and/or Application of Water to Beneficial Use

TO: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, June 29, 2010, made a thorough examination of the water use system constructed by Ivan Shonley of 20745 Shonley Place, Sturgis, SD 57785 holder of Permit No. 1680-1, bearing the priority of February 10, 1999 authorizing the diversion of 0.156 cu. ft. per second of the waters of the Madison Formation for Suburban Housing purposes, in Lawrence County.

Inspection contact & relationship to permit holder, if applicable: Lewis
Judy Lewis

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Taylor Drilling Co.
- 2) No. of Wells 1
- 3) Depth(s) 870 feet
- 4) Well log is available Y

Casing:

- 1) Diameter 8 inches
- 2) Length 693 feet
- 3) Type Steel
- 4) Static water level 400 feet

B. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Y
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period NA
- 3) Exceptions to compliance are: None

The system is in Good condition with the point(s) of diversion located as follows:

Approximately 275 feet south and 370 feet east of the NW corner of Section 14-T5N-R4E
(N 44.40103, W -103.60727) (NW ¼ NW ¼)

The works are capable of diverting and conveying to the place of use 0.20 cu. ft. per second of water which is to be used for a Suburban Housing Development.

The license should be issued for 0.20 cfs.

All structures, wells and lands on map Y

Comments or other permit(s) associated with the project:

There is no pump information available for this system. Ivan Shonley, the permit holder, or his son are able to produce records of the pumps. Judy Louis is now in charge of the development and recalls that at some point in time that she remembers hearing the pump is capable of producing 90 gpm. Since there is limited information available and Permit No. 1680-1 and Water Right No. 1100-1 combined are authorized to appropriate 100 gpm and should be incorporated, the permit should be licensed for 0.20 cfs (90 gpm).

Also, Judy Louis needs to transfer the ownership into her name. She has the necessary paperwork and is aware this should be done as soon as possible.



Mike DeFea

Natural Resources Engineer
DENR, Water Rights Program

Date report completed: July 11, 2011

Water Permit No. 1680-1

Ivan Shonley



0 800 1,600 3,200 Feet

Mike DeFea

Mike DeFea
Natural Resources Engineer
DENR, Water Rights Program
January 6, 2011



South Dakota
Department of Environment
& Natural Resources
Protecting SD's Tomorrow... Today



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

APR 25 2012

1100-1
1680-1

Judy L Lewis, Secretary-Treasurer
Boulder Park Water Users Association Inc.
12204 US Hwy 14A
Sturgis SD 57785

Dear Ms. Lewis:

Enclosed is Water License No. 1680-1. This is the final water right document completing the process of obtaining a Water Right. Included with the license is a map prepared by the staff engineer who conducted the field investigation.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 1680-1, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

As long as you use the water beneficially, as stated in the Water License, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

Note: The applicable portions of Water Right No. 1100-1 were incorporated into Water License No. 1680-1.

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 1680-1**

(1) Ivan Shonley made Application No. 1680-1, February 10, 1999 for a water permit to divert 0.156 cubic feet of water per second from an existing well – Madison Formation, Lawrence County, South Dakota for suburban housing development purposes. Permit No. 1680-1, with a priority date of February 10, 1999 was approved May 17, 1999 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before May 17, 2004 and for the application to beneficial use of water on or before May 17, 2008.

Water Permit No. 1680-1 was obtained to increase the diversion rate from an existing well authorized under Water Right No. 1100-1. No. 1100-1 appropriated 0.07 (30 gallons per minute). No. 1680-1 increased the appropriation from 30 gallons per minute to 100 gallons per minute. An investigation of the water use system found the well capable of 0.20 cubic feet per second or 90 gallons per minute. **The applicable portions of Water Right No. 1100-1 are incorporated into this water license.**

On August 9, 2011 ownership of Water Right No. 1100-1 and Water Permit 1680-1 was transferred to Boulder Park Water Users Association Inc.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 0.20 cubic feet of water per second for beneficial use.

The location of the diversion point is 275 feet south and 370 feet east of the NW corner of Section 14, T5N, R4E (NW ¼ NW ¼).

(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use.

(4) Pursuant to South Dakota Water Law 46-5-30.1 the Boulder Park Water Users Association Inc., 12204 US Hwy 14A, Sturgis SD 57785 the holder and/or owner of Incorporated Water Right No. 1680-1 is issued a license to appropriate water, the right to use 0.20 cubic feet of water per second from ground water (one well – Madison Formation) with priority dates of May 25, 1976 (0.07 cfs) and February 10, 1999 (0.13 cfs) from the location specified in (2) of this license for suburban housing development purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Incorporated Water Right No. 1680-1 and subject to these qualifications:

- The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- The well requested by Permit No. 1680-1 has been in use since 1983 as authorized by Water Right No. 1100-1 and the amount of water requested is a 70 gallon per minute additional appropriation to allow better service during periods of peak demand. Since no significant adverse hydrologic effects on the supply of water in the Madison Formation will result and issuance of this permit will not have a significant adverse effect on nearby Madison Formation wells or springs, Permit No. 1680-1 is issued as a permanent permit will not be in violation of SDCL 46-2A-20.



Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

APR 25 2012

date

