

WATER PERMIT NO. 2496-2

Name of Applicant: Spring Canyon Water Company

Address: PO Box 862, Rapid City SD 57702 Phone: 605 787-5261

Amount of Water Claimed: 0.17 cfs Total Acres: XX

Source of Water Supply: groundwater (one well)

Water to be used for: suburban housing County: Pennington

Type of Waste Disposal System: individual drain fields and septic tanks

Location: 3 miles south of Rapid City

PRIORITY Date Received: 12-9-02 Application/License Fee: \$200

Corrected Application Received: Period of Annual Use: January 1 – December 31

Remarks: Water Right Nos. 2053-3 and 2305-2 also supply Spring Canyon Water Company

Diversion Point: Gov't Lot 1, Sec t-T1S-R7E

Land to be Irrigated: NA

Depth of Well: 600 feet deep

Well Driller: : Cimarron Drilling

Remarks:

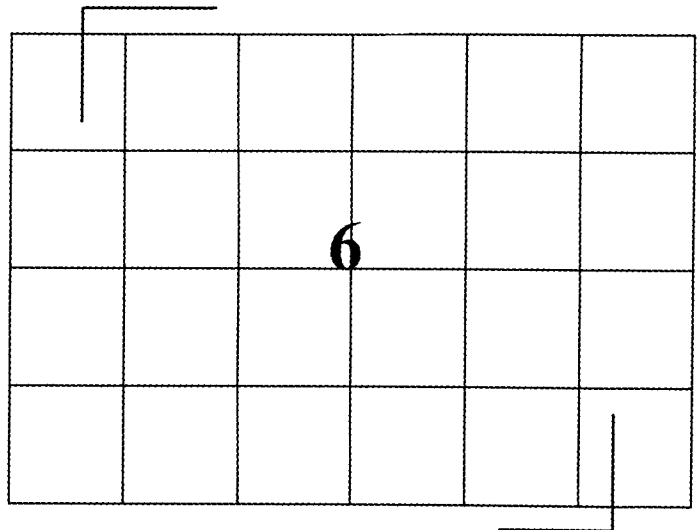
Type of Map: plat

Prepared by: Hani'f Shafai, PE

Reviewed and the Number Assigned on: 12-9-02

By: Karen Schlaak

Notice of Hearing - date to intervene: _____



**SOUTH DAKOTA
WATER PERMIT NO. 2496-2**

Date of first receipt of application December 9, 2002.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 2496-2 to Spring Canyon Water Company, PO Box 862, Rapid City SD 57702 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. 2496-2 appropriates 0.17 cubic feet per second from one well (Madison aquifer) 600 feet deep located in Gov't Lot 1, (NE 1/4) Section 6-T1S-R7E.
2. The water appropriated shall be used for the purpose of 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. 2496-2 is March 31, 2003.
5. The date from which applicant may claim right is December 9, 2002.
6. One-fifth of the construction is to be completed on or before September 30, 2005.
7. All construction is to be completed on or before March 31, 2008.
8. Water is to be put to beneficial use on or before March 31, 2012.
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. In accordance with SDCL 46-1-14 and 46-2A-20, Permit No. 2496-2 is issued for a twenty year term. Pursuant to SDCL 46-2A-21, the twenty year term may be deleted at any time during the twenty year period or following its expiration. If the twenty year term is not deleted at the end of the term, the permit may either be cancelled or amended with a new term limitation of up to twenty years. Permit No. 2496-2 may also be cancelled for nonconstruction, forfeiture, abandonment or three permit violations pursuant to SDCL 46-1-12, 46-5-37, 46-5-37.1, and ARSD 74:02:01:37.
2. 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.
3. The well authorized by Permit No. 2496-2 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:28.

WATER MANAGEMENT BOARD

By: Garland Erbele

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

APR 21 2003

date



SOUTH DAKOTA

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>2496-2</u>	(office use only) Hydrologic Unit <u>10120109</u>
	Basin <u>Upper Cheyenne</u>	
	Newspaper <u>Rapid City Journal</u>	

RECEIVED
DEC 09 2002
WATER RIGHTS
PROGRAM

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.) _____

- Name of Applicant SPRING CANYON WATER COMPANY Phone 605-787-5261
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address PO BOX 862 RAPID CITY State SD 57702
(Street, RR. or Box) (Zip Code)
- Amount of water claimed 0.17 *CFS or 75 **GPM ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (**Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply MADISON
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)
GOVT LOT 1 SECTION 6, T15, R7E, BHM County PENNINGTON
- County or counties where water will be used PENNINGTON
- Annual period during which water is to be used YEAR AROUND JAN. 1-DEC 31
- 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)

STATE OF SOUTH DAKOTA)
County of MEADE) 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, ROBERT W. POWLES, 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.

Signed Robert W. Powles

Subscribed and sworn to before me this 5 day of DEC. 12 2002

TAMRA BACKES
MY COMMISSION EXPIRES
AUGUST 29 2007

Tamra Backes
Notary Public

Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 8 3/4 Depth 447
- b) Casing Type STEEL Diameter 7" Thickness _____
- c) Screen Type NONE Diameter _____ Thickness _____
- d) Gravel Pack NONE Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material 560
- f) Depth to Water (ground surface to water level) STATIC WATER LEVEL 330
- g) Distance to nearest existing domestic well:
On applicants property 3000 On property owned by others _____

2. Wastewater Disposal System PRIMARY WELL Information

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

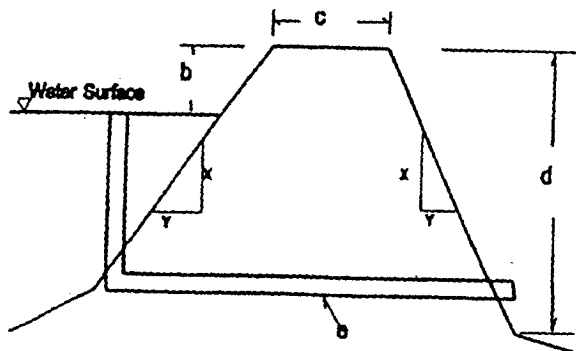
3. Dugout Information

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

4. Water Storage Dams

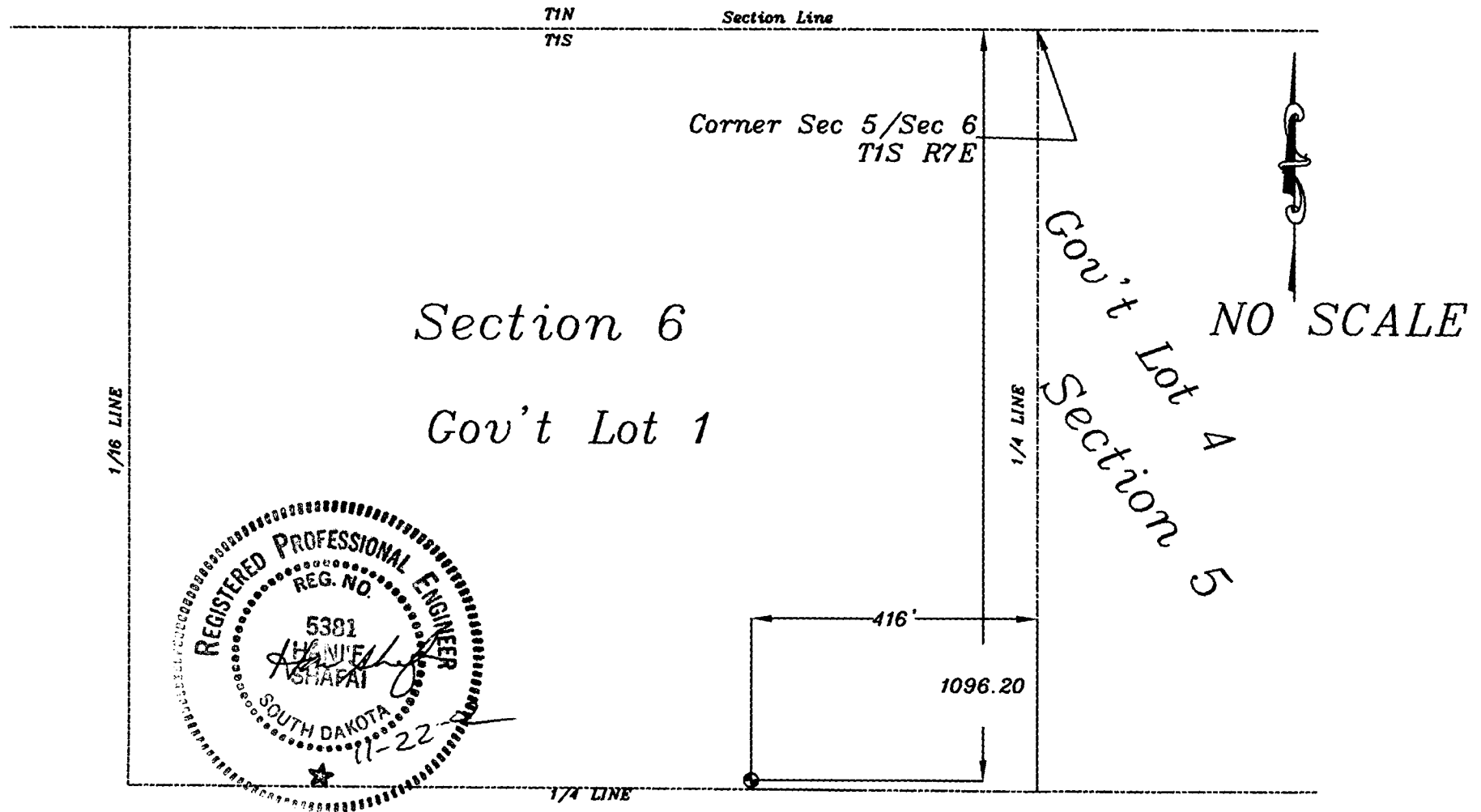
If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

- 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

*Exhibit "A" Showing Location of Well in Section 6
T1S, R7E, BHM*



PREPARED BY:



DREAM DESIGN INTERNATIONAL, INC.
PROFESSIONAL STRUCTURAL & CIVIL ENGINEERING CONSULTANTS
3202 MAIN ST., SUITE D, RAPID CITY, SD 57702
PH. 605-348-0538 FAX. 605-348-0545 EMAIL: engineer@dreamdesigninc.com

2496-2

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date December 9, 20 02

RECEIVED OF Spring Canyon Water Company, PO Box 862, Rapid City SD 57709

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

Fee for Application for Permit No. <u>2496-2</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>2496-2</u>	50	00
Fee for Filing Transfer Form _____		
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	200.00

No.

000423

By

Darland Ebeli
Chief Engineer *gms*

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

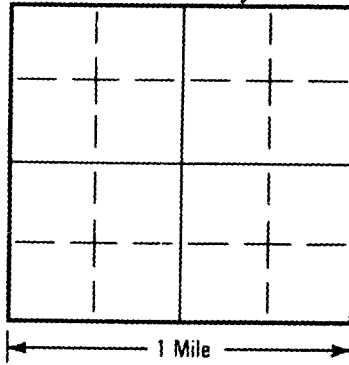
Location $\frac{1}{4}$ Sec 6 Twp 1-S Rg 7E
 County Blk 1 Hot SP 5 North Gayle Estates
Pennington

Please mark well location with an "X"

W

E

Well Completion Date

6-01-01

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 400 ft. from Septic (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary - Air - Water

CASING DATA:

☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT DIAMETER FROM TO HOLE DIAMETER
20.5 LB/FT 7 IN 0 FT 447 FT 8 3/4 IN
 _____ LB/FT _____ IN _____ FT _____ FT _____ IN
 _____ LB/FT _____ IN _____ FT _____ FT _____ IN

GROUTING DATA

Grout Type No. of Sacks Grout Weight From To
Portland Cement 30 94 1/2 lb./gal 240 ft. 440 ft.
North 40 94 1/2 lb./gal 0 ft. 200 ft.
 Describe grouting procedure Pressure grout thru casing
& Teevie Pipe Top Half

SCREEN: ☐ Perforated pipe ☐ Manufactured

Diameter _____ IN 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? _____

DISINFECTION: Was well disinfected upon completion?

YES, How: ChlorineLaboratory sent to for water Pellets

quality analysis

Bob Pawles to Complete

Well Owner: Bill Colson
 Business Name: Spring Canyon Estates
 Address: HC 80 Box 483
Piedmont S.D. 57769

WELL LOG:

DEPTH

FORMATION	FROM	TO
Red Shale & Sstave	0'	45'
(Mankato) Limestone	45'	105'
Red Shale & Sstave	105'	220'
(Opeche)		
White S. Stone	220'	240'
(Blind) Mankato	240'	450'
Limestone	450'	560'
Fractured weathered limestone	560'	600'
(Madison)		

STATIC WATER LEVEL 330' Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☐ Pumped Describe: Air developed.☐ Bailed☒ Other

Pumping Level Below Land Surface

600 ft. After 2 Hrs. blow 50+ GPM400 ft. After 1 Hrs. blow 15+ GPMIf pump installed, pump rate 2 1/2 HP @ 500' 40 GPM

REMARKS

RECEIVED

FEB 12 2002

WATER RIGHTS PROGRAM

This well was drilled under license # 568

And this report is true and accurate

Drilling firm Common Drilling Inc.Signature of License Representative: Michael P. Dietrich

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

CIMARRON DRILLING

WATER WELLS - TEST HOLES - CATHODIC - PUMPS
PUMP SERVICE - SHALLOW PRODUCTION
9017 S. RIDGE TRAIL
STURGIS, SD 57785
605-347-3071



Gentlemen:

I AM Requesting permission
To drill a Test well until Permits
CAN be obtained.

The well will be Approximately
700' deep into the Deadwood F.M.
and located in BLK 1 Lot 5R of
Spring Canyon Estates S.-b - R.-1-S
T.-7E. Pennington County S.D.

It will be A Backup well
for Spring Canyon Estates Water Assn.
% Bill Colson.

I would like To start drilling
5-19-2001

Respectfully,
Michael Deuter
Cimarron Drilling



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

May 21, 2001

Michael Deutsch
Cimarron Drilling
9017 S. Ridge Trail
Sturgis, SD 57785

Dear Mr. Deutsch:

This is verification of the verbal authorization granted via telephone with Ken Buhler on May 18, 2001. As requested, pursuant to South Dakota Well Construction Standard 74:02:04:21, you are authorized to construct a test well for Spring Canyon Estates (Bill Colson) prior to approval of a water permit. The test well is to be completed into the Deadwood aquifer in the Blk 1, Lot SR of Spring Canyon Estates Sec. 6, T1S-R7E, Pennington County. The test well must be constructed in accordance with the SD Well Construction Standards. Any test holes that are abandoned must be plugged pursuant to the SD Well Construction Standards.

Very truly yours,

JAMES A. GOODMAN, P.E.
Natural Resources Engineer
for GARLAND ERBELE, Chief Engineer
Water Rights Program
(605) 773-3352



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

February 21, 2002

Bob Powles
HC 80 Box 483
Piedmont SD 57769

Dear Mr. Powles:

After sending my February 20, 2002 letter I received another well completion report filed by Cimarron Drilling Inc. for Spring Canyon Estates. A review of our files indicates that Spring Canyon Water Company holds two water rights. Water Right No. 2053-2 authorizes 25 gallons per minute (gpm) from one well (Madison Aquifer) and Water Right No. 2305-2 authorizes 20 gpm from one well (Deadwood Formation) both located in Gov't Lot 3 Section 5-T1S-R7E. The well completion report indicates the new well is a Madison Aquifer well. Is this well a replacement well or an additional well?

South Dakota Codified Law 46-5-13.1 provides that a point of diversion 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.

Your assistance is appreciated. 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
Water Rights Program
605 773-3352

enclosures

Water Rights Program - File Documentation

NAME: Bob Powles

ADDRESS: Piedmont SD

DATE: 2-25-2002 **COUNTY:** MD **TELEPHONE:**

RE: Well completion reports

COMMENTS:

On February 20 & 21, 2002, I sent letters to Mr. Powles regarding well completion reports. Mr. Powles called 2-25-02 and stated he had talked with Ken Buhler about all of the wells.

Regarding the **Countryside North well**, they received authorization for a temporary permit for one year. At the end of a year they will determine if an additional permit will be necessary.

Regarding the **Cobble Stone Mobile Home well**, he stated this well serve Cobble Stone and also be a back up supply for Northdale Subdivision. They would be making application in the near future.

Regarding the **Spring Canyon Estates well**, they have received permission to drill test hole into Deadwood Formation. This well may fall under SDCL 46-5-13.1 as an additional diversion point with no additional water appropriated. Mr. Powles understood that they would need to file an application so this determination could be made.


Karen Schlaak
Environmental Scientist

WATER PERMIT APPLICATION NO. 2496-2
SPRING CANYON WATER COMPANY
JANUARY 23, 2003

Water Permit No. 2496-2 proposes to appropriate 0.17 cubic feet of water per second (75 gallons per minute) from one well (Madison aquifer) 600 feet deep located in the Gov't Lot 1, Section 6, T1S-R7E, Pennington County. The water is for a suburban housing development.

AQUIFER: Madison aquifer (MDSN)

The Madison (Pahasapa) Limestone is a massive limestone and dolomite that underlies much of the Western United States. The top portion of the Madison Limestone contains randomly distributed zones of secondary porosity and permeability formed by weathering of exposed surfaces, groundwater solution and fracturing, and is considered the Madison aquifer. The Madison is generally considered an excellent aquifer both in terms of quality and quantity, especially near the outcrop (recharge area). The aquifer underlies approximately 30,000 square miles of western South Dakota and contains at least 640 million acre-feet of recoverable water in storage in the State (Allen and others, 1984).

This is an existing well and the completion report indicates it was constructed in accordance with the SD Well Construction Standards. However, the geologic information provided on the report appears to be erroneous. The driller reports Minnekahta Limestone from 45-105 feet below grade and Opeche Shale from 105-220 feet below grade. Review of the areal geology (Lester and Rahn, 2001) indicates this well site is actually situated on a terrace deposit overlying the Minnelusa Formation. The site is less than a mile of the Madison outcrop and is within 1,000 feet of exposed Madison where it has been incised by Spring Creek. The top of the Madison Limestone at this site is expected to be between 140 feet below grade, based on the structure contour map (Carter and Redden, 1999) and 180 feet below grade, based on the geologic map (Lester and Rahn 2001). In this area the Madison Limestone is estimated to have a maximum thickness of 420 feet (Lester and Rahn, 2001). The Madison is under unconfined conditions at this well site and the static water level of this well was reported to be 330 feet below grade which is approximately the elevation of Spring Creek.

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). Average annual recharge from 1931-1998 is estimated to be approximately 137,000 ac-ft/yr (Carter and others, 2001a).

The Water Rights Program monitors 26 observation wells completed into the Madison aquifer in the Black Hills area. This well site is located within five miles of three Water Rights' Observation wells that are completed into the Madison aquifer, (PE-86A, PE-96A and PE-89A). Hydrographs for the wells show the aquifer's response to climatic conditions and clearly demonstrate the system is recharged, (see figures 1-3).

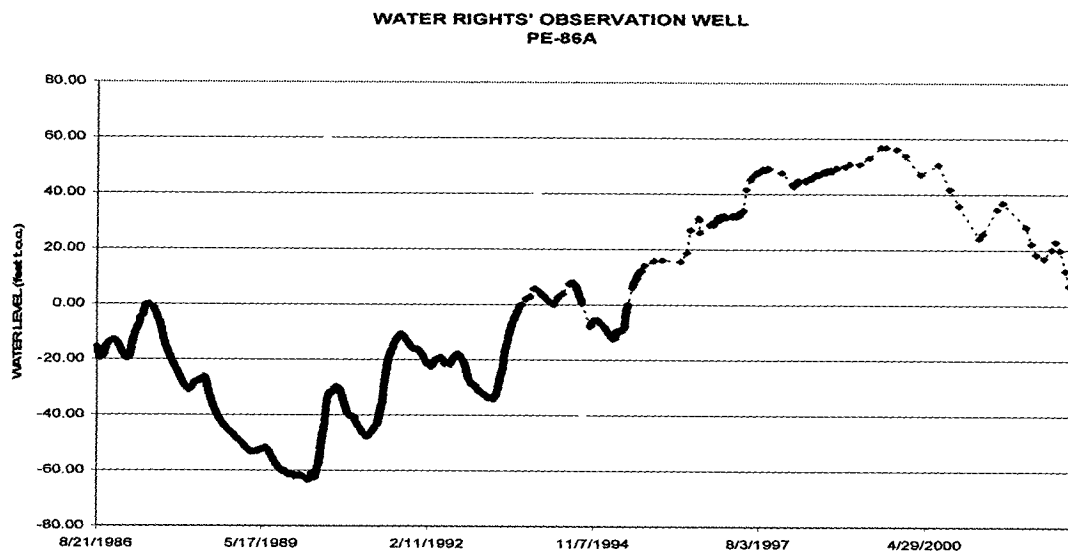


Figure 1. Hydrograph of Water Rights' Observation Well PE-86A, located approximately two and one-half miles east-southeast of 2496-2

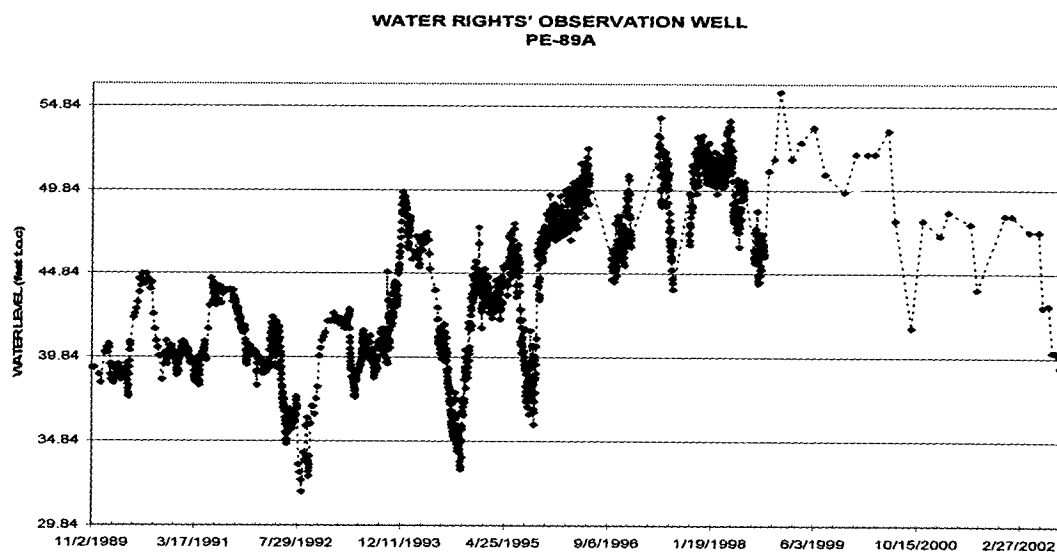


Figure 2. Hydrograph of Water Rights' Observation Well PE-89A, located approximately five miles north-northeast of 2496-2

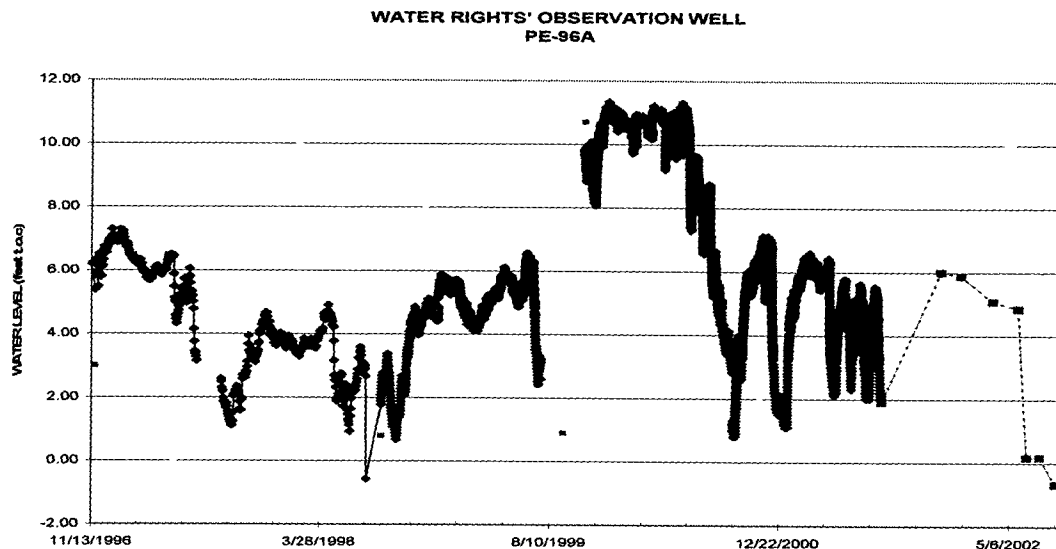


Figure 3. Hydrograph of Water Rights' Observation Well PE-96A, located approximately four miles north of 2496-2

Records from the observation wells indicated the potentiometric surface of the Madison aquifer fluctuates 15-25 feet per year near the recharge area in response to seasonal and climatic variations. Long-term trends show the potentiometric surface fluctuates by nearly 120 feet in PE-86A but 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 levels of the aquifer and the effects of pumping as yet are not obvious.

The majority of the water used from the Madison aquifer is from appropriative right users. There are a total of 123 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(24), Meade(24), Pennington(33) and Fall River(11) Counties. The Madison supplies water for irrigation, geothermal, industrial, 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, 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 less than 50,000 acre-feet per year. The actual amount of water used from the Madison is considerably less than this estimate. Withdrawals from wells completed into the Madison aquifer were estimated to be 10,990.2 acre-feet annually from 1987-1996 (Carter and others, 2001b). 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.

Affects on Existing Rights:

In general, wells to the west of this site are completed into aquifers deeper than the Madison (Deadwood and Precambrian), wells from this site to about two miles east are Deadwood or Madison wells, and wells more than two miles east of this site are completed into shallower aquifers.

Most residents in this area are supplied water from common distribution systems and there are a limited number of domestic wells in this area (Water Rights, 2003a).

There are 18 Water Rights/Permits appropriating groundwater within approximately two miles of this well site, see table 1.

PERMIT NO	NAME	AQUIFER	USE	CFS
1450-2	BEAR COUNTRY USA INC	DDWD	DOM	0.20
1628-2	COPPER OAKS WATER ASSN	MDSN	SHD	0.05
1726-2	COLONIAL PINE HILLS	MDSN	SHD	0.38
1748-2	WARREN WATER CO INC	MDSN	SHD	0.03
1819-2	STRATO-RIM ESTATES INC	DDWD	SHD	0.50
1925-2	PONDEROSA PARK DEV ASSOC	MDSN	SHD	0.03
1965-2	HIGHLAND HILLS WATER ASS.	MDSN	SHD	0.06
2045-2	WHISPERING PINES WATER	DDWD	SHD	0.08
2053-2	SPRING CANYON WATER CO	MDSN	SHD	0.05
2056-2	COUNTRYSIDE HOMEOWNERS	DDWD	SHD	0.30
2108-2	COLONIAL PINE HILLS	MDSN	SHD	0.04
2288-2	BLACK HILLS RESORTS, INC.	DDWD	COM	0.03
2295-2	COLONIAL PINE HILLS	DDWD	SHD	0.29
2305-2	SPRING CANYON WATER CO	DDWD	SHD	0.04
2449-2	OAKS WATER USERS ASSOC	DDWD	SHD	0.39
2461-2	COLONIAL PINE HILLS	MDSN	SHD	0.33
2473-2	CREGUT, INC.	MDSN	COM	0.04
608-2	UNITED NATIONAL BANK	DDWD	COM	0.02

Table 1. Water Rights/Permits appropriating groundwater within two miles of 2496-2

Wells supplied from aquifers other than the Madison are not expected to be affected by withdrawals from the this well because the Madison is hydraulically separated from shallower aquifers by the lower Minnelusa Formation and hydraulically separated from deeper aquifers by the Englewood and Whitewood Formations.

The Water Rights/Permits appropriating water from the Madison aquifer within two miles of 2496-2 and their distance from the well include:

PERMIT NO	NAME	DISTANCE TO 2496-2
1628-2	COPPER OAKS WATER ASSN	2000'
1726-2	COLONIAL PINE HILLS	9000'
1748-2	WARREN WATER CO INC	5500'
1925-2	PONDEROSA PARK DEV ASSOC	4700'
1965-2	HIGHLAND HILLS WATER ASS.	7700'
2053-2	SPRING CANYON WATER CO	2200'
2108-2	COLONIAL PINE HILLS	7000'
2461-2	COLONIAL PINE HILLS	6200'
2473-2	CREGUT, INC.	8600'

Table 2. Water Rights/Permits appropriating from the Madison aquifer within two miles of 2496-2

At this time it is not practical to attempt to quantify the specific affect pumping this well will have on area wells since aquifer characteristics have not been determined for this area, and the variability of the hydraulic characteristics has been well documented (Greene, 1993). In addition, Greene concluded that the transmissivity of the Madison is not equal in all directions (anisotropic), therefore the drawdown cone will extend farther in one direction than another.

Although the impact of this appropriation cannot be quantified precisely, it is still possible to address whether this appropriation can be made without adversely affecting water rights, including domestic wells. At the proposed pumping rate of 75 gallons per minute, with the possible exception of the well for Copper Oaks Water Assn. (Water Right No. 1628-2), the distance between this well and other Madison wells should be sufficient to negate interference between wells. It is possible that drawdown from this well will be measurable in the Copper Oaks' well (Water Right No. 1628-2), which is located approximately 2,000 feet away.

The Copper Oaks well has a pumping capacity of 22 gallons per minute, is purportedly 450 feet deep and is located about 350 feet higher than Spring Creek. It is interesting to note that the Copper Oaks well has been determined to be under the direct influence of surface water (Barbara Freideman, South Dakota Department of Environment and Natural Resources-Drinking Water Program, oral commun., 2003). Since the Madison aquifer is under unconfined conditions in this area, the static water level of the well is probably about the same level as Spring Creek. Therefore, there is probably only around 100 feet of water in the well.

ARSD 74:02:04:20(6) defines an adequate well as a well constructed to allow the inlet to the pump to be placed not less than 20 feet into the saturated aquifer. An adversely impacted domestic well is defined by ARSD 74:02:04:20(7) as a well in which the pump intake was set at least 20 feet below the top of the aquifer and the water level of the aquifer has declined to a level that the pump will no longer deliver sufficient water for the well owner's needs.

It is probable that a pump setting 20 feet below the top of the aquifer (static water level) is insufficient, and possible that even with the Copper Oaks pump inlet set at the bottom of

their well, the well does not deliver sufficient water to completely fulfill the Water Right (0.05 cfs continuously), or even peak demand under prolonged dry conditions. In other words, in this hydrogeologic setting, wells that are "adequate" by definition may not be reliable water supplies. Under these circumstances it can be argued that, any measurable interference (drawdown), from a competing well is actually an adverse impact. However, considering the natural water level fluctuations, even in the unconfined portions of this aquifer well interference of a few feet could be considered insignificant

Term Limitation:

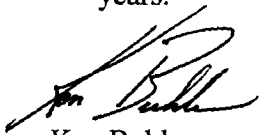
SDCL 46-2A-20 requires that "... no water permit for construction of works to withdraw water from the Madison formation in Butte, Fall River, Custer, Lawrence, Meade and Pennington counties may be issued for a term of more than twenty years, unless the water management board determines, based upon the evidence presented at the hearing that:

- (1) Sufficient information is available to determine whether any significant adverse hydrologic effects on the supply of water in the Madison formation would result if the proposed withdrawal were approved; and
- (2) The information, whether provided by the applicant or by other means, show that there is a reasonable probability that issuance of the proposed permit would not have a significant adverse effect on nearby Madison formation wells and springs."

Evidence is not available to justify issuing this permit without a term limitation of 20 years.

Conclusions:

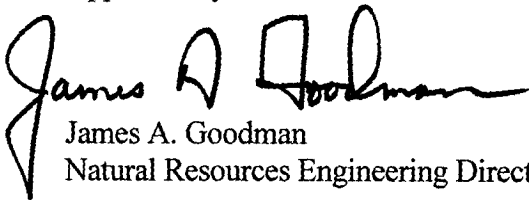
1. The Madison aquifer is a viable aquifer in this area.
2. This diversion will not adversely impair existing water rights.
3. Information is not available to justify issuing this permit without a term limitation of 20 years.



Ken Buhler

Natural Resources Engineering Specialist

Approved by



James A. Goodman

Natural Resources Engineering Director

References:

Allen, J.C., Iles, D.L., and Petres, A.K., 1984, Analysis of Groundwater and Streamflow Data Western Dakotas Region of South Dakota, Task 3 and 4: Groundwater Resource Inventory: South Dakota Department of Water and Natural Resources,

- Carter, J.M., and Redden J.A., 1999b, Altitude of the Top of the Madison Limestone in the Black Hills Area, South Dakota: U.S. Geological Survey: Hydrologic Investigations Atlas HA-744-D, 2 sheets, scale 1:100,000
- Carter, J.M., Driscoll, D.G., Hamade, G.R., and Jarrell, G.J., 2001, Hydrologic Budgets for the Madison and Minnelusa Aquifers, Black Hills of South Dakota and Wyoming, Water Years 1987-96: U.S. Geological Survey Water-Resources Investigations Report 01-4119, 53 p.
- Carter, J.M., Driscoll, D.G., and Hamade, G.R., 2001, Estimated Recharge to the Madison and Minnelusa Aquifers in the Black Hills Area, South Dakota and Wyoming, Water Years, 1931-98: U.S. Geological Survey Water Resources Investigations Report 00-4278, 66 p.
- Greene, E.A., 1993, Hydraulic Properties of the Madison Aquifer System in the Western Rapid City Area, South Dakota: U.S. Geological Survey Water-Resources Investigations Report 93-4008, 56 p.
- Lester, J.L., and Rahn, P.H., 2001, Geologic Map of the Rockerville Quadrangle: SD Department of Environment and Natural Resources: 7.5 Minute Series Geologic Quadrangle Map 3, scale 1:24000,
- Water Rights Program, 2003a, "Domestic Well Log Files", South Dakota DENR-Water Rights Program, Joe Foss Building, Pierre, SD
- Water Rights Program, 2003b, "Unpublished Observation Well Records", South Dakota DENR-Water Rights Program, Joe Foss Building, Pierre, SD
- Water Rights Program, 2003c, "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 the Interior, Bureau of Land Management



**DEPARTMENT of ENVIRONMENT
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**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 2496-2, Spring Canyon Water Company**

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. 2496-2, Spring Canyon Water Company, PO Box 862, Rapid City SD 57702.

The Chief Engineer is recommending APPROVAL of Application No. 2496-2 for a 20 year term pursuant to SDCL 46-1-14 and 46-2A-20 because 1) although evidence is not available to justify issuing this permit without a 20 year term limitation, 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. In accordance with SDCL 46-1-14 and 46-2A-20, Permit No. 2496-2 is issued for a twenty year term. Pursuant to SDCL 46-2A-21, the twenty year term may be deleted at any time during the twenty year period or following its expiration. If the twenty year term is not deleted at the end of the term, the permit may either be cancelled or amended with a new term limitation of up to twenty years. Permit No. 2496-2 may also be cancelled for nonconstruction, forfeiture, abandonment or three permit violations pursuant to SDCL 46-1-12, 46-5-37, 46-5-37.1, and ARSD 74:02:01:37.
2. 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.
3. The wells authorized by Permit No. 2496-2 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:28.

See report on application for additional information.

Garland Erbele, Chief Engineer
February 24, 2003



DEPARTMENT of ENVIRONMENT
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February 25, 2003

Rapid City Journal
PO Box 450
Rapid City SD 57709-0450

ATTENTION: Legal Public Notice

Enclosed is a Notice of Hearing on Application No. 2496-2 to Appropriate Water to be published twice. Please publish the first notice on March 5, 2003 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 Spring Canyon Water Company, % Robert Powles, PO Box 862, Rapid City SD 57702 (Ph # 605-787-5261).

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
Natural Resources Engineer
605 773-3352

enclosures

CUT HERE

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

No. 2496-2

Date _____

We are in receipt of your letter of February 25, 2003 enclosing Notice of Hearing to Appropriate Water by Application No. 2496-2 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name _____

Newspaper _____



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

www.state.sd.us/denr

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

February 25, 2003

Spring Canyon Water Company
% Robert W. Powles
PO Box 862
Rapid City SD 57702

Dear Mr. Powles:

Water Permit Application No. 2496-2 for suburban housing use 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 Rapid City Journal printed at Rapid City, SD (Ph # 605-394-8300). You will need to contact the newspaper and authorize publication of this notice. 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. Upon receiving authorization, 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 also 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.

Water Rights Program - File Documentation

NAME: Patti with Rapid City Journal

DATE: 3-6-03 TELEPHONE: 605 394-8445

RE: Publication notices for 2496-2, 2498-2

COMMENTS:

Called Patti who stated that Bob Powles had finally called and authorized publication of these two notices.

I told Patti to have both notices published on March 12 and 19th and change the date to receive petitions (date at end of 3rd paragraph) to March 31, 2003.



Karen Schlaak
Environmental Scientist

Instruction to Newspaper - Publish first Notice on March ¹²~~5~~ 2003 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 2496-2 to Appropriate Water

Notice is given that Spring Canyon Water Company, PO Box 862, Rapid City SD 57702 has filed an application for a water permit to appropriate 0.17 cubic feet per second from one well (Madison aquifer) 600 feet deep located in Gov't Lot 1, (NE ¼) Section 6-T1S-R7E. The water is for a suburban housing development.

Pursuant to SDCL 46-2A-2, the Chief Engineer is recommending APPROVAL of Application No. 2496-2 for a 20 year term pursuant to SDCL 46-1-14 and 46-2A-20 because 1) although evidence is not available to justify issuing this permit without a 20 year term limitation, 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. 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 March ³¹~~24~~, 2003.

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. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS
 County of Pennington)

I, Patricia K. Van Patten

certify that the attached printed Notice was taken

from the Rapid City Journal

printed and published in Rapid City

County of Pennington and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

March 12, 2003

March 19, 2003

Cost of Printing Ninety - one dollars

and fifty - two cents (\$91.52)

Patricia K. Van Patten
 (Signature)

Legal Advertising Representative
 (Title)

3/19/03
 (Date Signed)

RECEIVED
 MAR 20 2003
 WATER RIGHTS
 PROGRAM

March 12, 19 L1337649

NOTICE OF APPLICATION NO. 2494-2 TO APPROPRIATE WATER

Notice is given that Spring Canyon Water Company, P.O. Box 862, Rapid City, SD 57709, has filed an application for a water permit to appropriate 0.17 cubic feet of water per second from one well (Madison Aquifer) 600 feet deep located in Gov't Lot 1 (NE¼), Section 6-T1S-R7E. The water is for a suburban housing development.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2494-2 for a 20-year term pursuant to SDCL 46-1-14 and 46-2A-20 because: 1) although evidence is not available to justify issuing this permit without a 20 year term limitation, 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. 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 also 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 March 31, 2003.

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.

Steven M. Pirner, Secretary
 Department of Environment
 and Natural Resources



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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www.state.sd.us/denr

February 25, 2003

Robert Borgmeyer
Selador Ranches, Inc.
6770 North Longfellow Drive
Tucson, AZ 85718-2420

Dear Mr. Borgmeyer:

I am writing regarding Water Permit Application Nos. 2496-2 and 2498-2, filed by Spring Canyon Water Company and Countryside Homeowner's Association. These applications are for suburban housing developments.

Enclosed is a copy of the recommendation, report and notice of hearing for each application. The notices are to be published in the Rapid City Journal on March 5 and 12, 2003. If you are opposed to either application and want to cause a hearing to be scheduled before the Water Management Board, you must file a petition by March 24, 2003.

This information is being sent to you because of the interest you have expressed in keeping informed on water issues in this area

Sincerely,

Eric Gronlund
Water Rights Program
(605) 773-3352

enclosures



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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www.state.sd.us/denr

APR 21 2003

Spring Canyon Water Company
% Robert W Powles
PO Box 862
Rapid City SD 57702

Dear Mr. Powles:

Enclosed is Water Permit No. 2496-2 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.

Sincerely,

A handwritten signature in cursive script that reads "Garland Erbele".

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

enclosures

Permit No. 2496-2
Upper Cheyenne 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 on this day, 3/26/2012, made a thorough examination of the water use system constructed by **Spring Canyon Water Company, PO Box 862, Rapid City, SD 57702** holder of Permit No. 2496-2, bearing the priority date of December 9, 2002. Permit No. 2496-2 is authorized to appropriate a total of 0.17 cfs (75 gpm) from one well (**Madison Aquifer**) for **suburban housing purposes**, in **Pennington County**.

Inspection contact and relationship to
permit holder, if applicable:

Robert Powles,
Manager

A. Works used to divert the water:

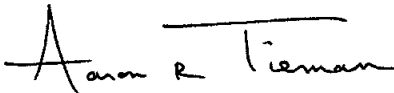
Grundfos submersible pump with 75 gpm capacity.

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

Suburban housing distribution lines.

The system is in the following condition **good**. The point of diversion (well) is located specifically at **Lat/Lon – N43.991995/W-103.320850 which is the approximately 1095 feet south and 415 feet west of the NE corner of Section 6, T1S-R7E.** The works are capable of diverting 0.17 cfs which is to be used for **suburban housing purposes**. The license should be issued for 0.17 cfs.

All structures, wells and lands on map **Y**
Exceptions to compliance are: **none**.



Aaron Tieman
Natural Resources Engineer II
DENR, Water Rights Program

Date report completed: **June 30, 2015**

FIELD INVESTIGATION REPORT FOR PERMIT NO. 2496-2

DATE OF INVESTIGATION:	March 26, 2012
NAME & ADDRESS OF PERMIT HOLDER	Spring Canyon Water Company PO Box 862 Rapid City, SD 57702
INVESTIGATION CONTACT/ RELATIONSHIP TO PERMIT HOLDER, IF APPLICABLE	Robert Powles (Manager)
DIVERSION POINT LEGAL LOCATION	NE¼ Section 6, T1S-R7E
WATER SUPPLY SOURCE	Groundwater, Madison Aquifer

Other permit(s) associated with the project:

WELL INFORMATION:

- 1) Well Drilling Firm: **Cimarron Drilling**
- 2) Number of Wells: **One**
- 3) Depth(s): **600** feet
- 4) Well log available: **yes**

Casing:

- 1) Diameter: **7** inches
- 2) Length: **447** feet
- 3) Type: **Steel**

Screen:

- 1) Type: **Open hole**
- 2) Length: **N/A** feet
- 3) Static water level: **330** feet

Pump:

- 1) Make: **Grundfos**
- 2) Model: **75S85-07**
- 3) Capacity: **75** GPM

Motor:

- 1) Make: **Franklin**
- 2) Model: **2184573219**
- 3) Horsepower rating: **10** hp

DISTRIBUTION LINES OR CANALS:

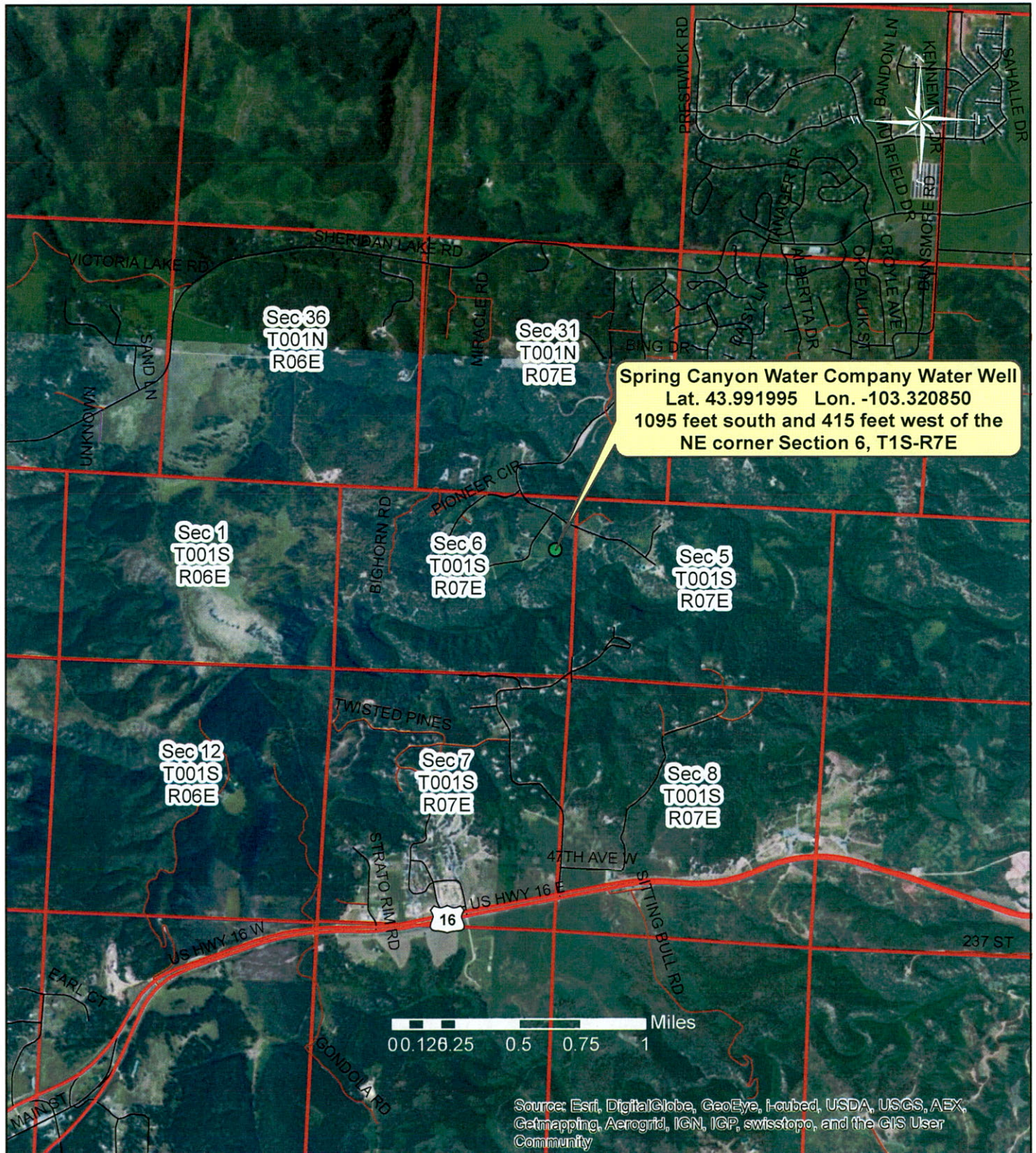
- 1) Type: **Suburban housing distribution lines.**

PERMIT QUALIFICATIONS:

- 1) Special qualifications to permit being abided by **Yes**
- 2) All structures, wells and lands on map **Yes**

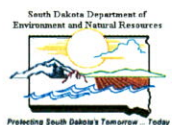
COMMENTS:

Water Right 2496-2
Spring Canyon Water Company
March 26, 2012



Aaron R. Tieman

Aaron Tieman
Natural Resources Engineer II
DNR Water Rights Program





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

AUG 27 2015

2496-2

Spring Canyon Water Company
PO Box 862
Rapid City SD 57702

Dear Sir:

Enclosed is Water License No. 2496-2. This is the final water right document completing your process of obtaining a Water Right. Included with your 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. 2496-2, 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,

Jeanne Goodman, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 2496-2**

(1) Spring Canyon Water Company, PO Box 862, Rapid City SD 57702 made Application No. 2496-2, December 8, 2002 for a water permit to divert 0.17 cubic feet of water per second from ground water, one well (Madison Aquifer), Pennington County, South Dakota for suburban housing development purposes. Permit No. 2496-2, with a priority date of December 9, 2002 was approved March 31, 2003 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before March 31, 2008 and the application to beneficial use of water on or before March 31, 2012.

(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 0.17 cubic feet of water per second for beneficial use. The location of the diversion point is approximately 1,095 feet south and 415 feet west of the NE corner of Section 6, T1S, R7E (Gov't Lot 1 of the NE 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 Spring Canyon Water Company, PO Box 862, Rapid City SD 57702 the holder and/or owner of Water Right No. 2496-2 is issued a license to appropriate water, the right to use 0.17 cubic feet of water per second from ground water, one well (Madison Aquifer) with a priority date of December 9, 2002 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 Water Right No. 2496-2 and subject to the following qualifications:

- In accordance with SDCL 46-1-14 and 46-2A-20, Permit No. 2496-2 is issued for a twenty year term. Pursuant to SDCL 46-2A-21, the twenty year term may be deleted at any time during the twenty year period or following its expiration. If the twenty year term is not deleted at the end of the term, the Permit may either be cancelled or amended with a new term limitation of up to twenty years. Permit No. 2496-2 may also be cancelled for nonconstruction, forfeiture, abandonment or three permit violations pursuant to SDCL 46-1-12, 46-5-37, 46-5-37.1, and Board Rule ARSD 74:02:01:37.
- 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 authorized by Permit No. 2496-2 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:28. *The well was drilled by Cimmaron Drilling Inc., in June, 2001. A copy of the log is on file with the Water Rights Program.*



Jeanne Goodman, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

AUG 27 2015

date

