

WATER PERMIT NO. 2562-2

Name of Applicant: **Custer State Park**

Address: **HCR 83 Box 70, Custer SD 57730**

Phone: **605 255-4515**

Amount of Water Claimed: **0.12 cfs**

Total Acres: **NA**

Source of Water Supply: **groundwater (3 existing wells)**

Water to be used for: **recreational use**

County: **Custer**

Type of Waste Disposal System:

Location:

PRIORITY

Date Received: **7-8-05**

Application/License Fee: **\$NA**

Corrected Application Received:

Period of Annual Use: **January 1 – December 31**

Remarks: **increases the diversion rate authorized by Water Permit No. 2027-2**

Diversion Point: **SE ¼ SE ¼ Sec 30 and SW ¼ SW**

¼ Sec 29; all T2S-R5E

Land to be Irrigated: **NA**

Depth of Well: **232, 250 and 200 feet deep**

Well Driller: **Alexander Drilling and Hamm**

Drilling

Remarks:

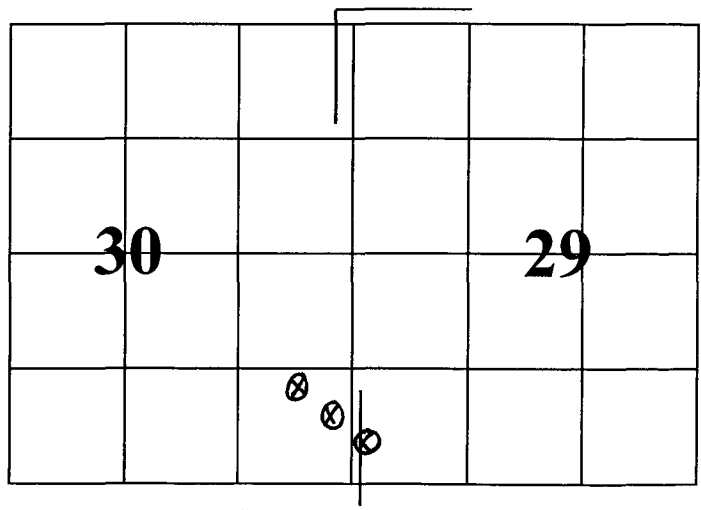
Type of Map: **topo**

Prepared by: **Donald Stroup**

Reviewed and the Number Assigned on: **7-8-05**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



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. <u>2562-2</u>	Hydrologic Unit <u>10120109</u>
	Basin <u>Upper Cheyenne</u>	
	Newspaper <u>Custer & Chronicle</u>	

RECEIVED
JUL - 8 2005
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 Custer State Park Phone 605 255 4515
(check one) ☐ Owner ☐ Tenant/lessee
Mailing Address HCR 83 Box 70, Custer State SD 57730
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 0.12 *CFS or 52 Additional **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 Ground Water
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)
3 Wells. #1 - SE1/4 SE1/4 Section 30, #2 - SE1/4 SE1/4 Section 30, #3 - SW1/4 SW1/4 Section 29 All T2S
R5E County Custer
- County or counties where water will be used Custer
- Annual period during which water is to be used January 1 - December 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)

Water is from 3 wells already drilled and on line for the Sylvan Lake facilities. Well logs and rates of diversion for each well are on file. Total allocation for this application and Permit No. 2027-2 is 122 gpm.

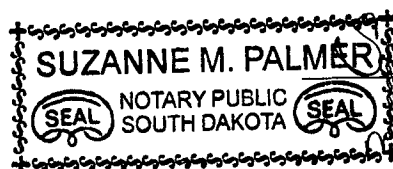
STATE OF SOUTH DAKOTA)
County of Custer SS

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, Richard W. Miller, 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 Richard W. Miller

Subscribed and sworn to before me this 30th day of June 2005



Notary Public signature Suzanne M. Palmer

Commission Expires
NOV. 6, 2007

**SOUTH DAKOTA
WATER PERMIT NO. 2562-2**

Date of first receipt of application July 8, 2005.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 2562-2 to Custer State Park, HCR 83 Box 70, Custer SD 57730 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. 2562-2 appropriates an additional 0.12 cubic feet per second (cfs) from three existing wells authorized by Water Permit No. 2027-2. Water Permit No. 2027-2 appropriates 0.16 cfs from up to six wells. An investigation of the permit found the system capable of diverting an additional 0.12 cfs from three wells completed into the Precambrian aged Crystalline Rock Aquifer (232, 250 and 200 feet deep) located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 30 and SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 29; all in T2S-R5E . This permit increases the water appropriation from the three wells from 0.16 cfs (70 gallons per minute) to 0.28 cfs (122 gallons per minute).
2. The water appropriated shall be used for the purpose of commercial and recreational use through the water distribution system at the Sylvan Lake area facilities 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. 2562-2 is September 12, 2005.
5. The date from which applicant may claim right is July 8, 2005.
6. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATION

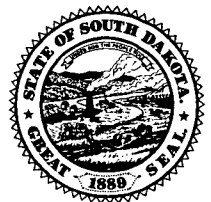
The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights

WATER MANAGEMENT BOARD

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

SEP 30 2005

date



#2027-2

Custer State Park

Sylvan Lake



53' E

634' N

Not to Scale

Donald F. Stroup

Donald E. Stroup
Natural Resources Project Engineer
DENR Water Rights Program

2562-2

NOTICE OF WELL CONSTRUCTION

Sylvan Lodge Well #1
Closest to Lake

(1) WELL CONSTRUCTION

Location of well: _____ 1/4 _____ 1/4 _____ Section 30 Township 25 Range 5E
Well owner Custer State Park - Sylvan Lake
(Name) (Address)
Date well drilling completed Dec. 18, 1975 Purpose of well domestic
(domestic, irrigation, municipal, industrial, other)

WELL LOG

Layers, top to top in feet	Description of layer	Depth to top of water producing aquifer
0-11	topsoil, Boulders	<u>51,202,220</u> ft.
11-21	GRANIT, h.d.	Depth to static water level <u>410</u> ft.
Surface water, set 8" casing 22'		Name of producing aquifer (if known) <u>Fractures</u>
21-42	Schist, grey	Total depth of drill hole <u>232</u> ft.
42-51	granit, Fractured	Depth to bottom of casing <u>100</u> ft.
water - could not bail down		Casing information: In the space below show kind, size, weight, lengths per diameter, etc., for production casing and surface casing, if used.
51-65	Schist Brown	<u>5" 258 wall, 14.62 lb/ft</u>
65-101	Schist, some granit.	Screen information: In the space below show length of screen below bottom of casing, diameter and kind of screen or casing perforations.
101-107	Schist, brown	<u>20 ft perforated casing</u>
107-187	Granit, grey, 6 gpm	<u>from 80 ft to 100 ft,</u>
187-202	granit, water 9 gpm	
202-217	granit, Fractures, 12 gpm	
217-223	Quartz, Fractured, 30 gpm	(pump)
223-232	Quartz GRANIT, mica.	Flow of completed well <u>25</u> G.P.M.

Attach sheet if more space is needed

Name of Drilling Contractor Alexander Drilling Co.
Roy Alexander Jr.

(2) PUMP INSTALLATION

Company name and size of pump Reda HP 3
Type of pump Submersible Capacity of installed pump 21 G.P.M.
Depth of pump placement 200 ft., Date of pump installation Dec 30, 1975
Intake, Bottom 202 ft.

(3) WATER SURFACE MEASURING TUBE

On some wells an air-tight water surface measuring tube is required: See Section 46.408 of Chapter 46.4, MINIMUM WELL CONSTRUCTION STANDARDS.

Show exact vertical length of water surface measuring tube, when installed _____ ft., tube diameter _____, tube material _____.

Pump test: Dec. 30, 1975
Start pump - 11:50 AM - Static
410 ft.

12:10 AM - 42 ft. - 30.3 gpm.
1:10 PM - 82 ft. 30.3 gpm.

1:45 PM - 162 ft. 30.3 gpm. Shut pump down to 26 gpm.
1:50 PM - 148 ft. 26 gpm. - Static Rising

2:05 PM - 142 ft. 25 gpm.
Shut off pump - 2:40 PM - 136 ft. 25 gpm.

Alexander Drilling, Roy Alexander Jr.
Name of Pump Installation Contractor

ALEXANDER DRILLING CO.
Box 615 Ph. 574-2594
Hill City, S. Dak. 57745

WELL DRILLERS REPORT

SOUTH DAKOTA WATER RIGHTS COMMISSION

ALEXANDER

4-78

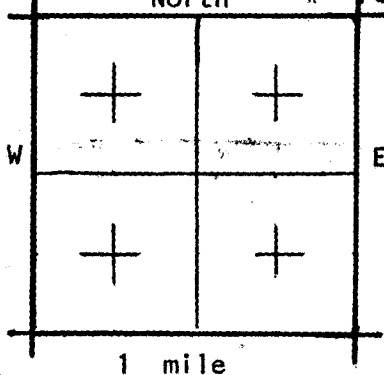
Well Owner:

Name Custer State ParkAddress Sylvan Lake Well
1-4-86: Serves Sylvan Lodge Area

Well Location:

North

Not Camp Ground

Mark location
with an "X"Sylvan
LakeCounty Custer1/4 Sec. 1 Twp. 1 Rg. 1

Proposed Use:

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

Method of Drilling:

☒ Forward Rotary ☐ Bored ☐ Jetted
☐ Reverse Rotary ☐ Cable ☐ Other
6" Hammer Drill

Well Construction:

Diameter of Hole 6"Depth 332Casing ☐ Steel ☐ Concrete☐ Plastic ☐ Other

If other, specify _____

Was casing end left open _____

Was a well screen installed _____

Describe Well Screen _____

Diameter _____ Material _____

Slot size _____

Was well gravel packed _____

Was well grouted _____

Was water sample taken _____

Remarks:

Deepened well. Water
to 100' depleted in
December.

Water Level Information:

Static water level _____ below land surface

If flowing: closed in pressure _____ PSI
rate of flow _____ GPM

Controlled by:

☐ Valve ☐ Reducers ☐ Other

If other; specify _____

Well Test Data:

☒ Pumped test pump 22 gpm.☐ Bailed Describe: _____☐ Other _____

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GPM

_____ " " _____ " " _____ " "

_____ " " _____ " " _____ " "

Well Log:

Formation	Depth	
	From	To
Schist BRN.	100	107
Granit dk. grey	107	198
Granit BRN.	178	180
Granit grey	180	187
Water 6gpm		
Granit grey "	187	192
Granit grey to	192	202
white, 9gpm water.		
Granit w/ mica	202	218
Water - 12gpm.		
Quartz	218	223
Quartz, Feldspar	223	232
Mica		
Water w/air	3	1gpm

(Use Back if Necessary)

Date Completed:

Dec 1, 1975

Driller:

Driller's or Firm's Name _____

License N _____

Address _____

Signed By _____

Date _____

NOTICE OF WELL CONSTRUCTION

Sylvan Lodge well

(1) WELL CONSTRUCTION

Location of well: _____ 1/4 _____ 1/4 _____ Section 25 Township 25 Range 5E
 Well owner Custer State Park - Sylvan Lake
 (Name) (Address)
 Date well drilling completed July 11, 1975 Purpose of well Domestic (serves lodge)
 (domestic, irrigation, municipal, industrial, other)

WELL LOG

Layers, top to top in feet	Description of layer	Depth to top of water producing aquifer	
0-11	top soil Boulders	51.0	ft.
11-21	Granit, hd. 3gpm	41.0	ft.
	Set 8" casing.	Name of producing aquifer (if known)	Fractures
21-42	Schist, grey	Total depth of drill hole	100
42-51	Granite, hd.	Depth to bottom of casing	100
51	water could not Bail down 20gpm.	Casing information: In the space below show kind, size, weight, lengths per diameter, etc., for production casing and surface casing, if used. 5"-258 wall, 14.62 lb/ft.	
51-65	Schist, Brown-20gpm.		
65-101	Schist, Brown, hd.		
	Final Bailing 20gpm.		
		Screen information: In the space below show length of screen below bottom of casing, diameter and kind of screen or casing perforations. 20 ft. perforated casing From 80' to 100'	
		If a flowing well, flow of completed well _____ 20 _____ G.P.M.	

Attach sheet if more space is needed

Alexander Drilling Co.
Name of Drilling Contractor

(2) PUMP INSTALLATION

Company name and size of pump Reda Pump No. 52190 Motor No. 52280 HP. 1 1/2
 Type of pump Submersible Capacity of installed pump 20 G.P.M.
 Depth of pump placement 68.0 ft. (3-21.0' p.c.s.) Date of pump installation 8-29-75

(3) WATER SURFACE MEASURING TUBE

On some wells an air-tight water surface measuring tube is required: See Section 46.408 of Chapter 46.4, MINIMUM WELL CONSTRUCTION STANDARDS.

Show exact vertical length of water surface measuring tube, when installed _____ ft., tube diameter _____, tube material _____

Pump test - static 4.0 ft.

Alexander Drilling Co.
Name of Pump Installation Contractor

ALEXANDER DRILLING CO.
Box 615 Ph. 574-259
Hill City, S. Dak. 57745

SOUTH DAKOTA WATER WELL COMPLETION REPORT

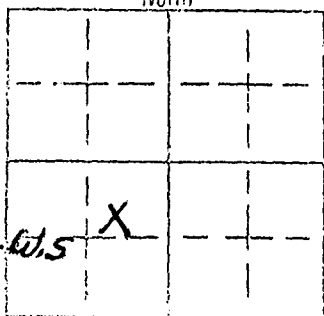
10-85

Location: NE 1/4 SW 1/4 Sec 29 Twp 2S Rg 5E

County

Custer

North



1 mile

Base mark well
Location withProject I.D.
EGCR86POOLI-W.S.
Sylvan Lake WellCompletion Date 11-10-87

PROPOSED USE:

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

Method of Drilling:

Downhole Hammer

SING DATA:

☒ Steel 42' ☐ Plastic ☐ Other
 Other describe 280 Wall 6" I.D; 6 5/8" O.D.

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUT:

Was the well grouted? ☒ YES ☐ NOTo what depth? 7' to 40' FEETWhat is grouting material? type III Portlandcement, number of sacks? 10Describe grouting procedure Tremie pipe - groutPumped from 40' to 7'What was grout weight? 14± LB/GALSCREEN: ☐ Perforated pipe ☐ ManufacturedDiameter IN Length FEETMaterial Net Size Set From Feet To FeetNet Size Set From Feet To FeetNet Size Set From Feet To FeetOther information Was a packer or seal used? ☐ YES ☒ NOSo, what material? Steel Casing Drive intoDescribe packer(s) and location? Hard RockWas well disinfected upon completion? ☐ YES ☐ NOExplain Microbiological analysis ☐ YES ☐ NOLaboratory sent to Well Owner: State of So. DakotaName Custer State ParkAddress Hermosa, So. Dakota

Well Log: Depth

Formation	From	To
DRIFT (top soil etc.)	0	15
GRANIT-Pegmatite	15	35
GRANIT FRACT. H ₂ O-1 1/2 gpm	35	36
GRANIT-Peg.	36	90
GRANIT FRACT. H ₂ O-6 gpm	90	100
GRANIT-Peg.	100	140
GRANIT-Peg H ₂ O-36 gpm	140	160
GRANIT w/schist	160	170
GRANIT-Peg. H ₂ O-60 gpm	170	180
GRANIT w/schist	180	185
Pegmatite w/schist	185	225
Pegmatite-GRANIT Hard	225	250

STATIC WATER LEVEL 25.0 Feet 5-11-88If flowing: closed in pressure PSIGPM flow through inch pipeControlled by ☐ Valve ☐ Reducers ☐ OtherIf other; specify Can well be completely shut in?

WELL TEST DATA:

☒ Pumped w/pump - END of 14 hrs, water level stabilized at 158.5 at 7:10 p.m.☐ BailedDescribe: ☐ Other

Pumping Level Below Land Surface

158± ft. After 14 Hrs. pumped 77± GPM ft. After Hrs. pumped GPM ft. After Hrs. pumped GPM

REMARKS:

This well was drilled under license # 324

And this report is true and accurate.

Drilling firm Alexander Drilling Co.

Signature of License Representative:

R. J. Alexander Jr.

Signature of Well Owner:

Date

cc: Building maintenance shop & Dr. Grios, SDSMT

FY 86-025

Sylvan Lake Well - Test Pumping

Date: 5-11-88

Static - 25.0'

Time	Pumping Level ft.	meter Read	GPM
8:15	25.0'	85,550	110
8:20	110.0'	86,100	110
8:25	118.0'	86,600	100
8:30	123.0'	87,100	100
8:35	124.0'	87,562	100
8:40	127.0'	87,925	100
8:45	130.0'	88,450	90
8:50	130.0'	88,875	90
8:55	130.0'	89,325	90
9:00	130.25'	89,775	90
9:05	130.25'	90,125	90
9:10	130.25'	90,550	90
9:15	130.25'	90,975	90
9:35	130.25'	92,625	90
9:55	131.25'	94,425	90
10:15	131.50'	96,225	90
10:35	131.50'	97,975	85
10:55	131.75'	96,625	85
11:15	131.75'	98,325	85
11:35	132.00'	100,025	85
11:55	132.50'	101,725	85
12:15	132.75'	103,425	85
12:35	133.25'	105,125	85
12:55	133.75'	106,825	85
1:15	133.75'	108,525	85
1:35	135.00'	110,225	85
1:55	135.50'	111,925	85
2:15	138.0'	113,625	85
2:35	139.0'	115,325	85
2:55	140.0'	117,025	85
3:15	145.0'	118,635	83
3:35	145.0'	120,235	80
3:55	147.0'	121,885	80
4:15 - 8 Hr.	149.0'	123,485	80

Building
CC: Maintenance Shop

Sylvan Lake Well - test pumping
Date: 5-11-88

2

CONTINUE:

Time	Pumping Level Ft.	Meter Read.	G.P.M.
4:35	151.0		80
4:55	150.0		80
5:15	150.0		80
5:35	150.0		80
5:50	157.0		80
6:15	159.0		80
6:35	158.5		80
6:55	159.0		80
7:15	159.0		80
7:35	159.5		80
7:55	160.0		80
8:15	160.0	(12 Hr. Test)	80
8:35	160.5		80
8:55	160.75		80
9:15	161.0	(cut pump rate to 77.0 gpm)	80
9:35	158.5	(After conference w/Scott)	77
9:55	158.5		77
10:15	14.0 HR. 158.5		77
10:30	158.5	(shut Pump off)	77
10:40	Recovered to:	69.0 Ft.	
10:50	"	60.0 Ft.	
11:00	"	56.0 Ft.	
11:10	"	53.0 Ft.	
11:20	"	50.0 Ft.	
11:30	"	48.0 Ft.	
12:30	"	46.0 Ft.	
1:30	"	45.5 Ft.	
2:30	"	44.0 Ft.	
8:30	"	40.6 Ft.	
12:30	"	34.0 Ft.	

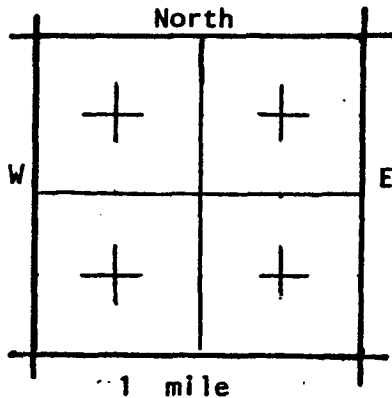
Well Owner:

Name Dept. Game Fish & Parks

Address Pierre, SD

Well Location:

Mark location
with an "X"



County Custer

1 1 1 Sec. 29 Twp. 25 Rg. 5E

Proposed Use: Campground

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

Method of Drilling:

☒ Forward Rotary ☐ Bored ☐ Jetted
☐ Reverse Rotary ☐ Cable ☐ Other

Well Construction:

Diameter of Hole 6"
Depth 200'
Casing ☒ Steel ☐ Concrete
☐ Plastic ☐ Other
If other, specify _____

Was casing end left open Yes
Was a well screen installed No

Describe Well Screen

Diameter _____ Material _____

Slot size _____

Was well gravel packed NO
Was well grouted Yes
Was water sample taken _____

Remarks:

Water Level Information:

Static water level 23 below land surface

If flowing: closed in pressure _____ PSI

rate of low _____ GPM

Controlled by:

☐ Valve ☐ Reducers ☐ Other

If other; specify _____

Well Test Data:

☒ Pumped

☐ Bailed

☐ Other

FILE

1 1/2 hp. Submers

Describe:

Pumping Level Below Land Surface

50 ft. After	2 Hrs. pumped	20 GP
<u>56</u>	<u>4</u>	<u>20</u>
<u>56</u>	<u>6</u>	<u>20</u>

Well Log:

Formation	Depth	
	From	To
Top Soil	0	3
Gravel	3	13
Granite	13	80
Fractured	80	90
Granite	90	180
Fractured	180	187
Granite	187	200

(Use Back if Necessary)

Date Completed: _____

Driller:

Hamm Drilling 171
Driller's or Firm's Name License #

Box 127 Hill City, SD 57745
Address

Gene Hamm 5/28/81
Signed By Date

11/5/75

9:35 start
10:03 stop

about 15 gpm 28

36 gph

10:39 start
10:52 stop

15 gpm 13 on

39 gph

11:31 start
11:53 stop

11 gpm 22 on

Shenk & Walker

September
11/3/75 L.M.

10:07 ST
10:13 Stop
6 min.

10:34 ST

10:35 Stop
4 min 10 S.

10:56 ST
4 min 10 S.

11:00 stop

11:26 + start } 5 min.

11:31 - stop

11:57 + start } 5 min.

12:02 + stop

First Test.

20 gal. 45 sec.

2nd

20 gal. 45 sec.

Walter Black.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

September 13, 2001

Greg Goebel
Custer State Park
HCR 83 Box 70
Custer, SD 57730

Dear Mr. Goebel:

A June 2001 examination of water use at the Sylvan Lake facilities in conjunction with Permit No. 2027-2 showed that there are three (3) wells in use with the total diversion capacity of 122 gallons per minute (gpm). Permit No. 2027-2 only authorizes an allocation of 70 gpm. The additional allocation of 52 gpm will need to be permitted through a new application.

Enclosed are a partially completed application form (Form 2) and a map showing the location of the wells. Carefully review the application form and the map. Have the application form signed before a notary public and returned to this office along with any corrections you may have to the map. After the application is processed, Custer State Park will be responsible for the cost of the public notice in the local newspaper.

Upon approval of the permit for the allocation of 52 gpm, Permit No. 2027-2 and the new permit will be incorporated into one license. The priority date of July 9, 1987 will be retained for 70 gpm and a new priority date will be assigned to new allocation of 52 gpm.

If you should have any questions, please contact me at 605 773 3352.

Sincerely,

Donald E. Stroup
Natural Resources Project Engineer
DENR Water Rights Program



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

November 20, 2001

Greg Goebel
Custer State Park
HCR 83 Box 70
Custer SD 57730

Dear Mr. Goebel:

On September 13, 2001, you were sent forms for an *Application for Permit to Appropriate Water* based on an investigation of Water Permit No. 2027-2, by Don Stroup, an engineer with this office. Enclosed is a copy of that letter. The investigation showed the system at the Sylvan Lake facilities was not developed as originally permitted. This application is necessary to obtain a permit which reflects accurate water use. To date, we have not received the application from you.

Enclosed is another application form. Please complete the application, have it signed and notarized and return it to this office.

Obtaining a water permit that accurately reflects water use ultimately benefits the park by protecting it's right to use water. Except for domestic use, any water user without a water right is not entitled to receive protection in the event of interference by a new or future user who has a water right.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
Phone: (605) 773-3352

enclosures

WATER PERMIT APPLICATION NO. 2562-2
CUSTER STATE PARK
AUGUST 8, 2005

Water Permit Application No. 2562-2 proposes to appropriate an additional 0.12 cubic feet of water per second (cfs) from three existing wells authorized by Water Permit No. 2027-2. Water Permit No. 2027-2 appropriates 0.16 cfs from up to six wells. An inspection of the permit found the system capable of diverting an additional 0.12 cfs from three wells completed into the Precambrian Crystalline Rock aquifer, (232, 250 and 200 feet deep), located in the SE¼ SE¼ Sec. 30 and the SW¼ SW¼ Sec. 29; all in T2S-R5E, Custer County. The water is for recreational and water distribution use at the Sylvan Lake area facilities.

AQUIFER: Precambrian aged Crystalline Rock (CRSL)

Geology and Aquifer Characteristics:

The crystalline rock, which is exposed at the surface throughout this area, is mapped as Harney Peak Granite (Strobel and others, 1999). The aquifer is under unconfined conditions and the static water levels of wells in this area are probably at about the same elevation as Sylvan Lake. Groundwater is derived primarily through joints, fractures and foliation within the rock. The distribution, orientation and interconnection of these zones of secondary porosity and permeability are unpredictable, and the aquifer characteristics are site specific and highly variable. Recharge to the crystalline rock occurs through infiltration of precipitation and steamflow losses.

The Water Rights Program does not monitor any observation wells completed into the Crystalline aquifer in this immediate area. The nearest observation well completed into this aquifer is located in Custer, about five miles south of this site (Water Rights, 2005b). Water levels in the observation well fluctuate over 50 feet in response to varying climatic conditions, rising during wet years and gradually declining water levels during dry years, see figure 1. The aquifer in this area should behave similarly to the aquifer in the Custer area.

WATER RIGHTS' OBSERVATION WELL
CU-86A

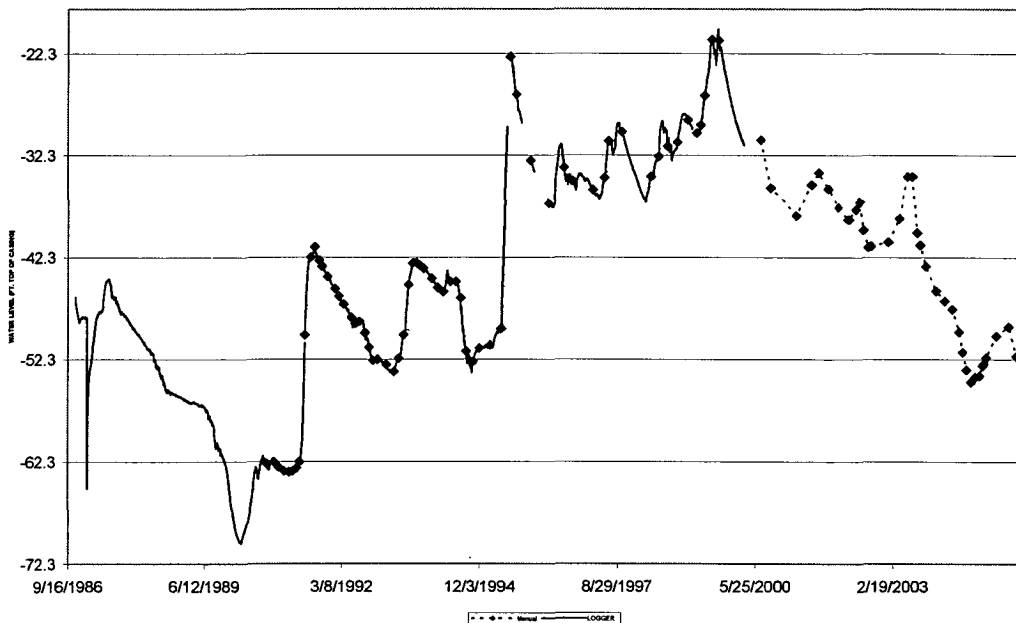


Figure1. Hydrograph of Crystalline aquifer observation well located approximately five miles south of 2562-2.

Review of Existing Water Rights:

The Water Rights Program only has record of a number of domestic wells with depths ranging from under 50 feet to over 400 feet, completed into the crystalline rock in this area (Water Rights, 2005a).

There are seven groundwater rights/permits belonging to others within four miles of the wells that are to be used for this appropriation, they are shown in table 1. The nearest appropriation is (Water Permit No. 2128-2, Horse Thief Campground) is approximately two miles northwest of 2562-2.

PERMIT NO	NAME	USE	CFS
1113-2	RAFTER BAR J RANCH	COM	0.22
2128-2	HORSE THIEF CAMPGROUND	COM	0.22
2227-2	RUTH ZIOLKOWSKI	COM	0.16
2228-2	RUTH ZIOLKOWSKI	COM	0.04
2229-2	BLUE SPRUCE VALLEY CABINS & CAMPGROUND	COM	0.07
607-2	HARNEY CAMP CABINS	COM	0.22
854-2	HICOW CO INC	COM	0.13

Table 1. Water Rights/Permits within four miles of 2562-2

Since the porosity of the Crystalline aquifer is small, 0.03-0.10, (Driscoll and others, 2002) drawdown from a pumped well or wells, may extend over a fairly widespread area. However, any drawdown associated with the 0.12 cfs pumping rate proposed by this application should be insignificant to existing users since the distance between wells and the relatively low pump rate of involved with this appropriation should minimize well interference. Although the diversion rate proposed by this application is relatively small (54 gpm), it is possible that drawdown from this well could be measurable in nearby domestic wells.

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. Since the porosity of the crystalline aquifer is low, 20 feet of saturated thickness may not be sufficient for a well to be a reliable water supply. 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, with natural water level fluctuations in this aquifer measured in excess of 50' at the Water Rights' Observation well; drawdown of a few feet could be considered insignificant.

Conclusions:

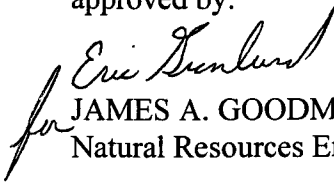
1. This application is the result of a Water Rights Staff inspection of Water Permit No. 2027-2.

2. The wells that are to be used to supply this permit are existing wells presumably pumped at the rate requested by this application for a number of years.
3. The Precambrian aged Crystalline Rock is a viable aquifer in this area.
4. The aquifer is unconfined and interference is not expected to be a concern.
5. This is an application to divert water from existing wells. The completion report on file for the well indicates it was constructed in accordance with the SD Well Construction Standards.



KEN BUHLER
Natural Resource Engineer

approved by:



JAMES A. GOODMAN, P.E.
Natural Resources Engineer

REFERENCES:

Driscoll, D.G., Carter J.M., Williamson, J.E., and Putnam, L.D., 2002, Hydrology of the Black Hills Area, South Dakota: U.S. Geological Survey Water-Resources Investigations Report 02-4094, 1503 p.

Strobel, M.L., Jarrell, G.J., Sawyer, J.F., Schleicher, J.R., Fahrenbach, M.D., 1999, Distribution of Hydrogeologic Units in the Black Hills Area, South Dakota: U.S. Geological Survey Hydrologic Investigations Atlas HA-743, 3 sheets, scale 1:100,000

Water Rights, 2005a, Domestic Well Logs, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Water Rights, 2005b, Observation Well Files, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Water Rights, 2005c, Water Permit/Right Files, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 2562-2, Custer State Park**

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. 2562-2, Custer State Park, c/o Richard W. Miller, HCR 83, Box 70, Custer SD 57730.

The Chief Engineer is recommending APPROVAL of Application No. 2562-2 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 qualification:

The wells 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.

See report on application for additional information.

Garland Erbele, Chief Engineer
August 12, 2005



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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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.**

August 15, 2005

Custer State Park
% Greg Goebel
HC 83 Box 70
Custer SD 57730

Dear Mr. Goebel:

Water Permit Application Nos. 2561-2 & 2562-2 for recreational use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Publisher of the Custer Co. Chronicle printed at Custer, SD (Ph # 605-673-2217). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendations of the Chief Engineer and the reports 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 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. 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 applications.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

NOTE: If you plan to contest any part of the Chief Engineer's recommendations, 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 applications.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

August 15, 2005

Custer Co Chronicle
PO Box 551
Custer SD 57730-0551

ATTENTION: Legal Public Notice

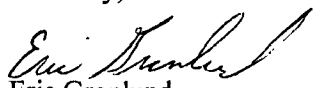
Enclosed is a Notice on Application Nos. 2561-2 & 2562-2 to Appropriate Water to be published twice. Please publish the first notice on August 24, 2005 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

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 Custer State Park, % Greg Goebel, HC 83 Box 70, Custer SD (Ph # 605-255-4515).

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-----

No. 2561-2 & 2562-2

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

Date _____

We are in receipt of your letter of August 15, 2005 enclosing Notice to Appropriate Water by Application No. 2561-2 & 2562-2 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 August 24, 2005 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NOS. 2561-2 and 2562-2 to Appropriate Water

Notice is given that Custer State Park, c/o Greg Goebel, HC 83, Box 70, Custer SD 57730 has filed the following applications for a water permit.

Application No. 2561-2 proposes to appropriate 0.11 cubic feet of water per second (cfs) (50 gallons per minute) from one existing well completed into the Precambrian aged Crystalline Rock Aquifer (150 feet deep) located in the NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 21-T3S-R6E. The water is for commercial and recreational use through the water distribution system at the State Game Lodge area.

Application No. 2562-2 proposes to appropriate an additional 0.12 cfs from three existing wells authorized by Water Permit No. 2027-2. Water Permit No. 2027-2 appropriates 0.16 cfs from up to six wells. An investigation of the permit found the system capable of diverting an additional 0.12 cfs from three wells completed into the Precambrian aged Crystalline Rock Aquifer (232, 250 and 200 feet deep) located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 30 and SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 29; all in T2S-R5E. This permit increased the water appropriation from the three wells from 0.16 cfs (70 gallons per minute) to 0.28 cfs (122 gallons per minute). The water is for commercial and recreational use through the water distribution system at the Sylvan Lake area facilities.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 2561-2 and 2562-3 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 September 12, 2005.

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.

**NOTICE OF
APPLICATION NOS.
2561-2 AND 2562-2
TO APPROPRIATE WATER**

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#299, 8/24; 8/31

Affidavit of Publication

State of South Dakota)
)ss.

County of Custer)

Charles W. Najacht of said county, being duly sworn, on oath says that he is publisher of the Custer County Chronicle, a weekly newspaper printed and published in Custer City, said County of Custer and has full and personal knowledge of all the facts herein stated; that said newspaper is a legal newspaper and has a bona-fide circulation of at least two hundred copies weekly, and has been published within said County for fifty-two successive weeks next prior to the publication of the notice herein, mentioned, and was and is printed wholly or in part in an office maintained at said place of publication: that the

Custer State Park
Application to Appropriate Water

a printed copy of which, taken from the paper in which the same was published, is attached to this sheet, and is made a part of this Affidavit, was published in said newspaper at least once each week for 2 successive week(s), on which said newspaper was regularly published, to wit:

Aug. 24, 2005 ; Aug. 31, 2005 ;

_____, _____; _____, _____;

_____, _____; _____, _____;

_____, _____; _____, _____;

the full amount of the fees for the publication of the annexed notice is \$ 53.22.

Charles W. Najacht

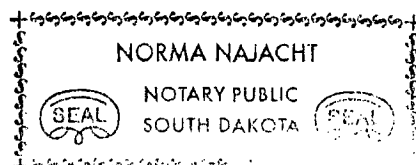
Subscribed and sworn to me before this 31

of August, 2005;

Norma Najacht

NOTARY PUBLIC

MY COMMISSION EXPIRES: May 5, 2006



RECEIVED
SEP 22 2005
WATER RIGHTS
PROGRAM

Permit No. 2027-2 (and 2562-2)
Custer County

To: Chief Engineer, Water Rights Program, DENR Foss Bldg., Pierre, SD 57501
Other permit/license(s) associated with project: **1847-2, 2028-2, & 2172-2**
Contact Person & Address:

Report Of Examination of Works

On **June 4, 2001**, I made a thorough examination of the water use system authorizing the appropriation of 0.16 cubic feet per second (cfs) of water from up to six (6) wells for **commercial and recreational** purposes by the **Custer State Park Sylvan Lake Area Facilities** and bearing a priority date of July 9, 1987.

The application for Permit No. 2027-2 was submitted for consideration in July 1987 and approved in February 1988. Wells were to be drilled and developed sequentially until a total of **70 gallons per minute (gpm) (0.16 cfs)** was attained. At the time of the application's submission, two (2) wells had already been drilled and completed in the area, Well #1 in December 1975 and Well #3 in April 1981. Well #2 was completed in November 1987.

The wells and system are in **good condition**. Well locations and diversion rate capabilities are:

Well # 1: SE¼ SE¼ Section 30 T2S R5E, 4594 feet East and 1531 feet North of the SW Corner Section 30 (N43° 50.617' W103° 33.657') **25 gpm**

Well #2: SE¼ SE¼ Section 30 T2S R5E, 5227 feet East and 1003 feet North of the SW Corner Section 30 (N43° 50.534' W103° 33.505') **77 gpm**

Well #3: SW¼ SW¼ Section 29 T2S R5E, 53 feet East and 634 feet North of the SW Corner of Section 29 (N43° 50.479' W103° 33.469') **20 gpm**

The peak use period for these wells is during the summer months and the records for these wells show that the average gallons per day (gpd) used during the months of July and August are:

Well #1: 8,000 gpd (5.55 gpm)

Well #2: 16,000 gpd (11.11 gpm)

Well #3: 8,000 gpd (5.55 gpm)

Review of Permit Qualifications and Regulations:

- 1) Special qualifications to permit being abided by: **Yes**
- 2) All structures, wells and lands on map: **Yes**
- 3) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period: **NA**
- 4) Exceptions to compliance are: **Wells are capable of diverting more water than is permitted.**

Report on the Specifics of the System

Diversion Point Information for Well #1:

- 1) Well Drilling Firm: **Alexander Drilling Co.**
- 3) Depth(s): **232 feet**

- 2) No. of Wells: **1**
- 4) Well logs available: **Yes**

Casing:

- 1) Diameter: **5 inch**
- 2) Length: **100 feet**
- 3) Type: **Steel**

Screen:

- | | |
|--------------------------------------|---------------------------|
| 1) Type: Perforated Casing | 2) Length: 20 feet |
| 3) Static water level: 4 foot | |

Pump\ Motor:

- | | |
|---|------------------------------------|
| 1) Pump Make: Unknown, Submersible, Electric | 2) Pump Model: NA |
| 3) Capacity: 25 gpm | 4) Motor Make: NA |
| 5) Motor Model No.: Unknown | 6) Horsepower rating: NA hp |

Distribution System:

- 1) Type: **6 inch line**
- 2) Length: **Approximately 3000 feet**

Diversion Point Information for Well #2:

- | | |
|--|------------------------------------|
| 1) Well Drilling Firm: Alexander Drilling Co. | 2) No. of Wells: 1 |
| 3) Depth(s): 250 feet | 4) Well logs available: Yes |

Casing:

- 1) Diameter: **6 5/8 inch OD**
- 2) Length: **42 feet**
- 4) Type: **Steel**

Screen:

- | | |
|---------------------------------------|----------------------|
| 1) Type: None | 2) Length: NA |
| 3) Static water level: 25 foot | |

Pump\ Motor:

- | | |
|---|------------------------------------|
| 1) Pump Make: Unknown, Submersible, Electric | 2) Pump Model: NA |
| 3) Capacity: 77 gpm | 4) Motor Make: NA |
| 5) Motor Model No.: Unknown | 6) Horsepower rating: NA hp |

Distribution System:

- 3) Type: **6 inch line**
- Length: **Approximately 3000 feet**

Diversion Point Information for Well #3:

- | | |
|---|------------------------------------|
| 1) Well Drilling Firm: Hamm Drilling | 2) No. of Wells: 1 |
| 3) Depth(s): 200 feet | 4) Well logs available: Yes |

Casing:

- 1) Diameter: **6 inch**
- 2) Length: **200 feet**
- 5) Type: **Steel**

Screen:

- | | |
|---------------------------------------|----------------------|
| 1) Type: None | 2) Length: NA |
| 3) Static water level: 23 foot | |

Pump\ Motor:

- | | |
|---|------------------------------------|
| 1) Pump Make: Unknown, Submersible, Electric | 2) Pump Model: NA |
| 3) Capacity: 20 gpm | 4) Motor Make: NA |
| 5) Motor Model No.: Unknown | 6) Horsepower rating: NA hp |

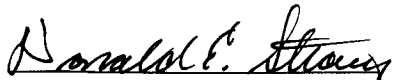
Distribution System:

4) Type: 6 inch line

Length: Approximately 3000 feet

COMMENTS:

Custer State Park should submit a new application for the combined total amount of water that can be withdrawn from these three (3) wells. Permit No. 2027-2 and the new application should be incorporated into one license with a priority date of July 9, 1987 for the 70 gpm authorized by No. 2027-2. A new priority date will need to be assigned for the allocation exceeding 70 gpm.



Donald E. Stroup

Natural Resources Project Engineer

DENR, Water Rights Program

9/13/01
Date

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 2562-2

(1) Custer State Park, HCR 83 Box 70, Custer SD 57730 made Application No. 2562-2, July 8, 2005 for a water permit to divert an additional 0.12 cubic feet of water per second (cfs) from groundwater (three wells), Custer County, South Dakota for commercial and recreational purposes. Permit No. 2562-2, with a priority date of July 8, 2005 was approved September 12, 2005 and issued to the applicant for diversion of water with construction of the described water supply system completed and the application to beneficial use of water completed.

Water Permit No. 2027-2, with a priority date of July 9, 1987 authorized 0.16 cfs from 3 wells. The applicable portions of No. 2027-2 are incorporated into No. 2562-2.

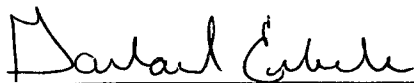
(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Incorporated Water Right No. 2562-2 is issued a license, bearing priority dates of July 9, 1987 (0.16 cfs) and July 8, 2005 (0.12 cfs) to appropriate 0.28 cfs from groundwater (three wells) for commercial and recreational use through the water distribution system at the Sylvan Lake area facilities.

The diversion points are located:

Well #1 – 4,594 feet east and 1,531 feet north of the southwest corner Section 30 (SE ¼ SE ¼);
Well #2 – 5,227 feet east and 1,003 feet north of the southwest corner Section 30 (SE ¼ SE ¼);
Well #3 – 53 feet east and 634 feet north of the southwest corner of Section 29 (SW ¼ SW ¼);
all T2S-R5E

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Incorporated Water Permit No. 2562-2 including the following now applicable qualification:

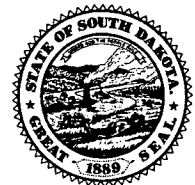
The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.



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

SEP 30 2005

date





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

SEP 30 2005

2561-2
2562-2

Custer State Park
c/o Greg Goebel
HCR 83 Box 70
Custer SD 57730

Dear Mr. Goebel:

Enclosed are Water Permit and License Nos. 2561-2 and 2562-2. These are the final water right documents completing your process of obtaining a Water Right.

As long as you use the water beneficially, as stated in the Water Licenses, State Water Laws provide that you have a continuing right to use the water.

Sincerely,

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

enclosures