

WATER PERMIT NO. 2492-2

Name of Applicant: Rushmore Forest Products

Address: PO Box 619, Hill City SD 57745

Phone: 605 574-2512

Amount of Water Claimed: 0.56 cfs (250 gpm)

Total Acres: NA

Source of Water Supply: groundwater (7 wells)

Water to be used for: industrial

County: Pennington

Type of Waste Disposal System:

Location: 3 miles northeast of Hill City

PRIORITY

Date Received: 10-31-02

Application/License Fee: \$325

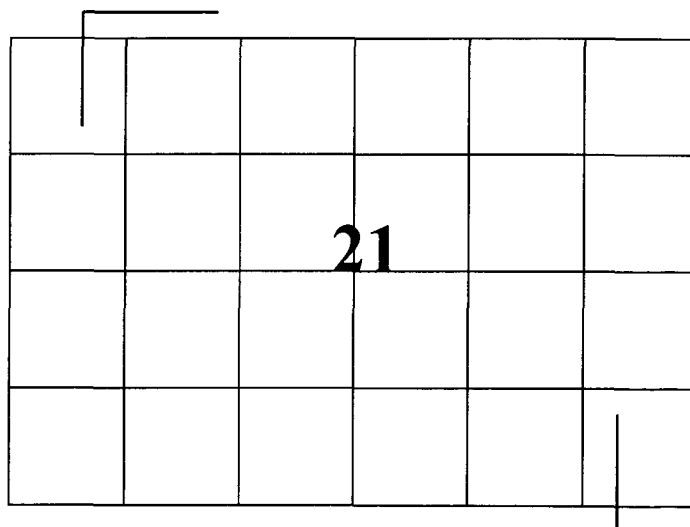
Corrected Application Received:

Period of Annual Use: January 1 – December 31

Remarks:

Diversion Point: SE ¼ Sec 21-T1S-R5E

Land to be Irrigated: NA



Depth of Well:

Well Driller: : Alexander Drilling

Remarks:

Type of Map: plat

Prepared by: James P Heald, RLS

Reviewed and the Number Assigned on: 10-31-02

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

**SOUTH DAKOTA
WATER PERMIT NO. 2492-2**

Date of first receipt of application October 31, 2002.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 2492-2 to Rushmore Forest Products, PO Box 619, Hill City SD 57745 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. 2492-2 appropriates 0.56 cubic feet of water per second from 6 existing wells and 1 proposed well (Precambrian aged Crystalline Rock) between 166 feet to 309 feet deep located in the NE ¼ SE ¼ Section 21-T1S-R5E.
2. The water appropriated shall be used for the purpose of industrial use and for domestic use in homes on the property 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. 2492-2 is February 18, 2003.
5. The date from which applicant may claim right is October 31, 2002.
6. One-fifth of the construction is to be completed on or before August 18, 2005.
7. All construction is to be completed on or before February 18, 2008.
8. Water is to be put to beneficial use on or before February 18, 2012.
9. 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

APR 21 2003

date



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

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	(office use only)	
	No. <u>2492-2</u>	Hydrologic Unit <u>10120109</u>
	Basin <u>Upper Cheyenne</u>	
	Newspaper <u>Hill City Revereer News</u>	

RECEIVED
OCT 31 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 RUSHMORE FOREST PRODUCTS Phone 605-574-2512
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address P.O. Box 619 23848 Hwy 385 Hill City State SD 57745
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 0.56 *CFS or 250 **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 6 existing wells + 1 proposed well
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) 6 existing wells plus 1
proposed well in the E 1/2 of Section 21, T15, R5E, BHM Pennington County SD
NE 1/4 SE 1/4 County Pennington
- County or counties where water will be used Pennington
- Annual period during which water is to be used year-round-continuous 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)

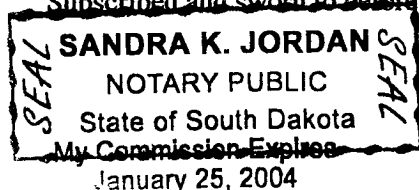
County of Pennington) SS

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, Thomas G. Shaffer, 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 Thomas G. Shaffer

Subscribed and sworn to before me this 28th day of October 20 02



Sandra K. Jordan

Notary Public signature

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 6" Depth 166'
- b) Casing Type Steel Diameter 6" Thickness .280
- c) Screen Type NONE Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
- On applicants property 750' On property owned by others 1000'

2. Wastewater Disposal System Information

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

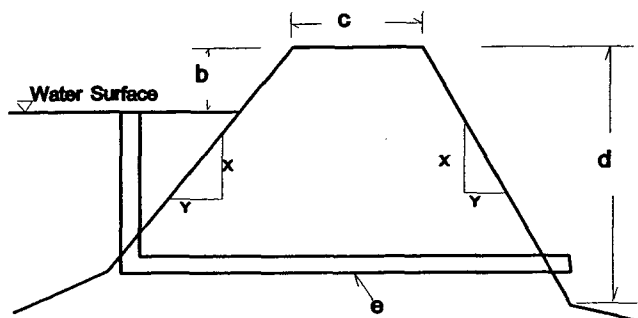
3. Dugout Information

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

4. Water Storage Dams

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

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



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

WELL DRILLERS REPORT

SOUTH DAKOTA WATER RIGHTS COMMISSION

4-78

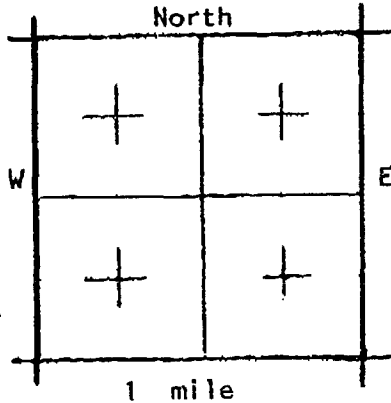
Well Owner:

Name Hines SawmillAddress Hill City S.D.

Well Location:

Mark location
with an "X"

Sawmill
#1
West End old
Sawmill.

County PENNASec. 21 Twp. 15 Rg. SE

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 166'Casing ☒ Steel ☐ Concrete☐ Plastic ☐ OtherIf other, specify 52' of 280 wallWas casing end left open yesWas a well screen installed no

Describe Well Screen

Diameter — Material XSlot size —Was well gravel packed —Was well grouted —Was water sample taken —

Remarks:

casing 52' - Drive into
Hd. Rock
1 well cap.
well water clean - w/air.

Water Level Information:

Static water level — below land surfaceIf flowing: closed in pressure — PSI
rate of flow 30 GPM

Controlled by:

☐ Valve ☐ Reducers ☐ OtherIf other; specify —

Well Test Data:

☒ Pumped w/AIR for 1 Hr.
30 g.p.m.

☐ BailedDescribe: —☐ Other —

Pumping Level Below Land Surface

ft. After	Hrs. pumped	GPM
<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>

Well Log:

Formation	Depth	
	From	To
DRIFT - clay gravel, etc.	0	42
Schist grey med to Hd.	42	55
Schist med. to Hd. black.	55	102
Schist fractured water 20 gpm.	102	103
Schist some gtd. water 24 gpm.	103	125
Schist Hd fractured water 30 gpm.	125	145
Schist Hd. blk.	145	166

(Use Back if Necessary)

Date Completed:

7-24-79

Driller:

ALEXANDER DRILLING 324
Driller's or Firm's Name License NO

Box 615 Hill City
Address

Roy Alexander
Signed By

7-25-79
Date

(type or print in ink)

Well #2 Boiler Fuel House (east)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 6" Depth 186' original deepened to 390'
- b) Casing Type Steel Diameter 6" Thickness .280
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack Surface grouted Type III Cement
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) 17' static water level
- g) Distance to nearest existing domestic well:
- On applicants property 700' On property owned by others 1100'

2. Wastewater Disposal System Information

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

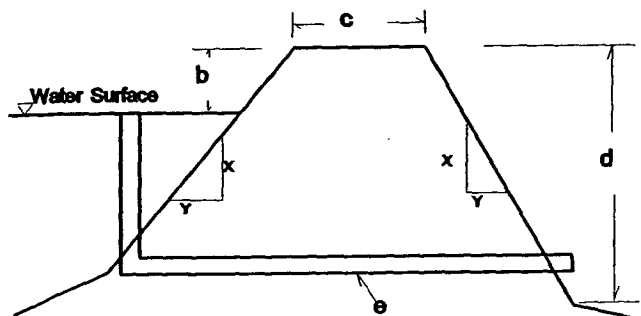
3. Dugout Information

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

4. Water Storage Dams

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

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



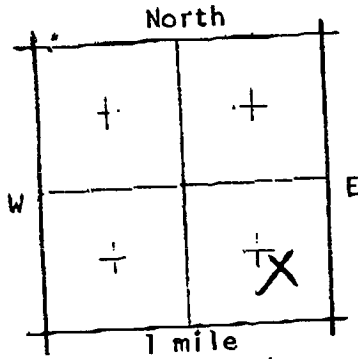
- b) Freeboard _____
- c) Crest Width _____
Crest Length _____
- d) Height _____
- e) Primary Outlet Capacity _____
If pipe, diameter _____
- f) Secondary Spillway Capacity _____
Spillway Width _____
- g) X & Y Slope _____
Upstream _____
Downstream _____
- h) Surface Area of Impoundment _____
- i) Storage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

Location ± ± Sec 21 Twp 1 S. Rg 5 E

County Penn

Please mark well location with an "X"

Boiler #2



Well Completion Date 9-14-84

PROPOSED USE:
☒ Domestic ☐ Municipal ☐ Test Holes
☐ Irrigation ☒ Industrial ☐ Stock

Method of Drilling:
Down hole Hammer

WELL CONSTRUCTION:
 Diameter of hole 6 inches Depth 186 feet

Casing: ☒ Steel ☐ Plastic ☐ Other
 Specify 50' - 6" x 280 steel

Pipe Weight Diameter From To
lb/ft inches feet feet
lb/ft inches feet feet

Was a well screen used? ☐ Yes ☐ No

If Not Specify _____

Screen Type _____ Slot Size _____

Length _____ Diameter _____

Was Casing left open end? ☒ Yes ☐ No

Was a Packer or seal used? ☐ Yes ☐ No

If so what material? _____

Was well gravel packed? ☐ Yes ☐ No

Was well grouted? ☒ Yes ☐ No

Describe grouting procedure Surface Seal

Drove casing

To what depth? 20' Feet

What was grouting material? Type III cement

If cement, how many sacks? _____

Location of packer(s) and screen or perforated pipe _____

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

Well Owner:

Name Continental Lumber Co.

Address Hill City, S.D. 57745

Well Log:

Formation	From	To
Drift (Gravel Broken shell)	0	45
Schist Hd. grey med BRN.	45	94
Schist Brown Fract. 5 gpm	94	96
Schist Hd. grey	96	135
Schist Fract. 20 gpm	135	138
Schist Hd. grey	138	150
Schist Fractured 25 gpm	150	153
Schist Hd. grey	153	168
Schist Brown Fract 50 gpm	168	170
Schist Hd. grey	170	186

STATIC WATER LEVEL 17' Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☒ Other

If other; specify _____

Can well be completely shut off? _____

WELL TEST DATA:

☒ Pumped w/air 50 ± gpm.

☐ Bailed Describe: _____

☐ Other _____

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

Remarks:

Pump 5 H.P.

This well was drilled under license # 324

and this report is true and accurate.

Alexander Delg. Reg. 06/24/84

Drilling Firm

10-8-84

Date

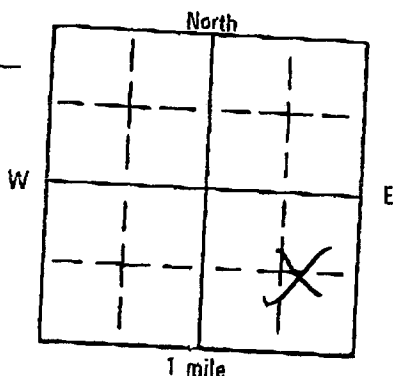
Signed by

Rg# 2 orig Drilled for
after well deepened.
10-85

County Penn.

Please mark well
location with
an "X"

Boiler #2
Deepened



Well Completion Date 9-23-90

PROPOSED USE:

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

Method of Drilling:

Rotary Down hole Hammer

CASING DATA:

☒ Steel ☐ Plastic ☐ Other
If other describe Deepened w/ 5 7/8" BIT

PIPEWEIGHT	DIA	FROM	TO	HOLE DIA
280 LB/FT	6 IN	0 FT	50 FT	8 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 ☐ NO 9-14-84
To what depth? Surface grout - FEET
What is grouting material? Drone casing to bed rock

Well Owner:

Name Continental Lumber Co.

Address Hotel City, S. D 57745
Well Log:

Depth

Formation

[illegible]

STATIC WATER LEVEL 12 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other; specify _____

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped w/ Air _____ 30% mm

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 5 7/8" Depth 309'
- b) Casing Type Steel Diameter 6" Thickness .280
- c) Screen Type NONE Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack Grouted from 12' - 44' Type III Cement - 4 bags
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) 17' static water level
- g) Distance to nearest existing domestic well:

On applicants property 650'On property owned by others 500'**2. Wastewater Disposal System Information**

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

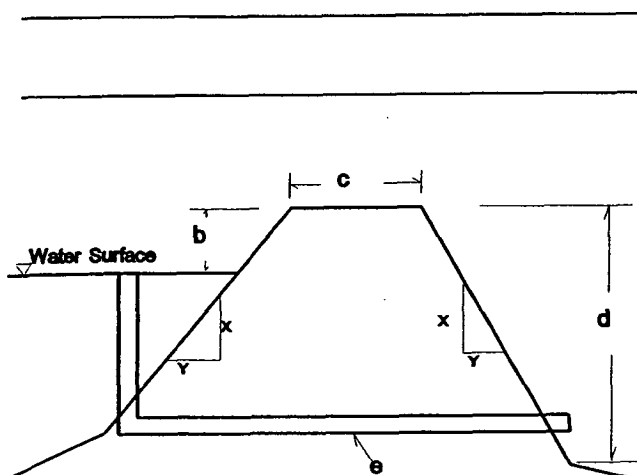
3. Dugout Information

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

4. Water Storage Dams

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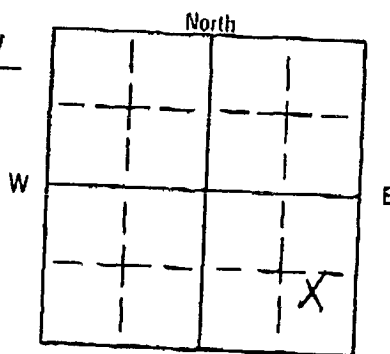
- a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:



- 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

SOUTH DAKOTA WATER WELL COMPLETION REPORT

10-85

Location SE $\frac{1}{4}$ Sec 21 Twp 15 Rg SECounty
PenningtonPlease mark well
location with
an "X"Well # 3
East End
New mill.Well Completion Date 1-12-89

PROPOSED USE:

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

Method of Drilling:

Downhole Hammer

CASING DATA:

- ☒ Steel ☐ Plastic ☐ Other

If other describe 44' - 6" - 280 wall

PIPEWEIGHT DIAMETER FROM TO HOLE DIAMETER

_____ LB/FT _____ IN _____ FT _____ FT BIT 5 7/8 IN
 _____ LB/FT 60 IN 0 FT 44 FT _____ IN
 _____ LB/FT _____ IN _____ FT _____ FT _____ IN
 _____ LB/FT _____ IN _____ FT _____ FT _____ IN

GROUT:

Was the well grouted? ☒ YES ☐ NOTo what depth? 12' - 44'What is grouting material? fine TIT

FEET

Well Owner:

Name Continental LumberAddress Hill City, S.D. 57245

Well Log:

Depth

Formation

From

To

<u>DRIFT</u>	<u>0</u>	<u>30</u>
<u>Schist Mod. Hd. grey</u>	<u>30</u>	<u>60</u>
<u>Schist BAN. Fractured</u>	<u>60</u>	<u>62</u>
<u>Schist Hd. grey</u>	<u>62</u>	<u>78</u>
<u>Schist BAN. Fract. H₂O-39ppm</u>	<u>78</u>	<u>83</u>
<u>Schist Hd. grey</u>	<u>83</u>	<u>98</u>
<u>Schist w/ gtz - BAN. H₂O-12ppm</u>	<u>98</u>	<u>101</u>
<u>Schist Hd. grey</u>	<u>101</u>	<u>140</u>
<u>Quartz - Fract. H₂O-15ppm</u>	<u>140</u>	<u>145</u>
<u>Schist Hd. grey</u>	<u>145</u>	<u>195</u>
<u>Schist Fract. BAN. H₂O-20ppm</u>	<u>195</u>	<u>205</u>
<u>Schist grey BAN. mod Hd.</u>	<u>205</u>	<u>225</u>
<u>Schist Hd. grey</u>	<u>225</u>	<u>260</u>
<u>Quartz - Fractured H₂O-95ppm</u>	<u>260</u>	<u>265</u>

STATIC WATER LEVEL 17 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch p.u.

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other, specify _____

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped 1.1 gpm

(type or print in ink)

Well #5 Top of Hill

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 6" to 120'
5" to Depth 207'
- b) Casing Type Steel Diameter 6" and 5" Thickness _____
- c) Screen Type NONE Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) 50' static water level
- g) Distance to nearest existing domestic well:
On applicants property 200' On property owned by others 400'

2. Wastewater Disposal System Information

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

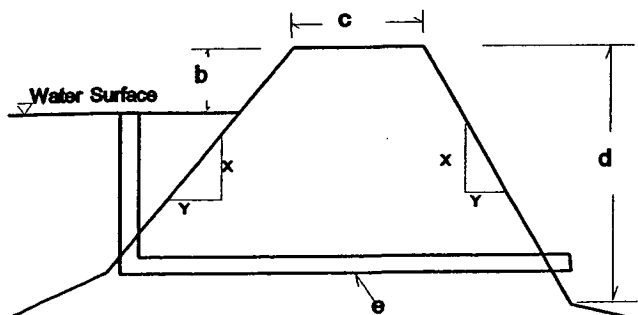
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- b) Freeboard _____
- c) Crest Width _____
Crest Length _____
- d) Height _____
- e) Primary Outlet Capacity _____
If pipe, diameter _____
- f) Secondary Spillway Capacity _____
Spillway Width _____
- g) X & Y Slope _____
Upstream _____
Downstream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

WELL DRILLER REPORT

SOUTH DAKOTA WATER RIGHTS COMMISSION

4-78

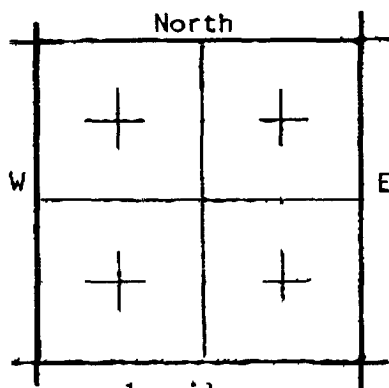
Well Owner:

Name Hines Lumber Co.Address Hill City, S.D. 57745

Well Location:

Mark location
with an "X"

Mobil Home
across from
"G. Bob's."



County Pennington
 1/4 1/4 1/4 Sec. 21 Twp. 15 Rg. 5E

Proposed Use:

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

Method of Drilling:

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

Well Construction:

Diameter of Hole 6" to 20", 5" to 20"

Depth

Casing ☒ Steel 146'-6" steel☐ Plastic ☐ Other

If other, specify

Was casing end left open yes.

Was a well screen installed

Describe Well Screen

Diameter _____ Material _____

Slot size _____

Was well gravel packed

Was well grouted

Was water sample taken

Remarks:

Perforated 30' of 5" steel.
 160' to 190"

Complete Hole cased. very
 unstable formation, necessary
 to case complete Hole.

Water Level Information:

Static water level 50 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 10 gpm☐ Bailed Describe: _____☐ Other _____

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GPM
 _____ " " _____ " " _____ "
 _____ " " _____ " " _____ "

Well Log:

Formation	Depth	
	From	To
DRIFT	0	7
Schist, grey Broken	7	20
Schist, grey Soft Broken	20	40
Schist w/ quartz med.	40	45
Schist med. Hd. Brn.	45	80
Schist med. Hd to	80	130
Broken, grey unstable		
Schist, med. Hd. grey	130	157
Schist, quartz	157	174
Brown Broken - water	174	9 gpm
Schist med. grey	174	207
to Broken		

(Use Back if Necessary)

Date Completed: Oct. 9, 1978

Driller:

Alexander Drilling 324
 Driller's or Firm's Name License NO.

Box 615 - Hill City, S.D.
 Address

Reg. Alexander 10-15-78
 Signed By Date

1 H.P. Aeromotor Pump 230 V.
 set at 186' (180' sched. 80 pipe)

(type or print in ink)

WELL #6 UPPER HOUSE

1. Well Information - Proposed Construction

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type Steel Diameter 6" Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well: _____
- On applicants property 200'

This well supplies one of the houses that we have on sight. We have absolutely no information on this well and it was not drilled by Alexander Drilling, so we were unable to get information on it. There is no one working for us that remembers who drilled it.

00'

2. Wastewater Disposal System Information

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

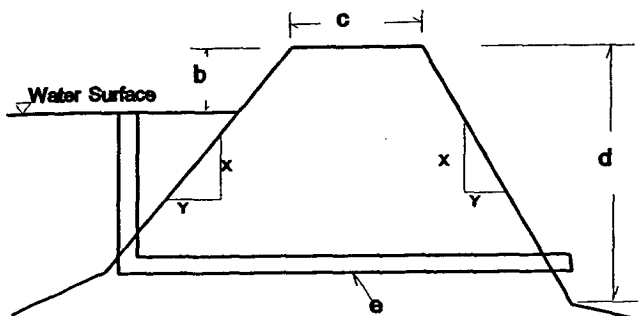
3. Dugout Information

- a) Surface Dimensions _____
- 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

(type or print in ink)

Well #7 Lower House

1. Well Information - Proposed Construction

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type Steel Diameter 6" Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
On applicants property 300' On _____

This well supplies one of the houses that we have on sight. We have absolutely no information of this well and it was not drilled by Alexander Drilling, so we were unable to get information on it. There is no one working for us that remembers who drilled it.

2. Wastewater Disposal System Information

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

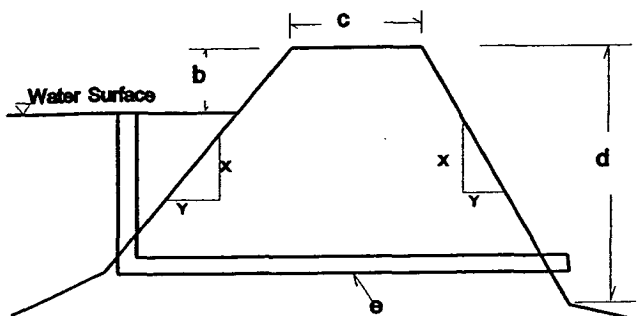
3. Dugout Information

- a) Surface Dimensions _____
- 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:

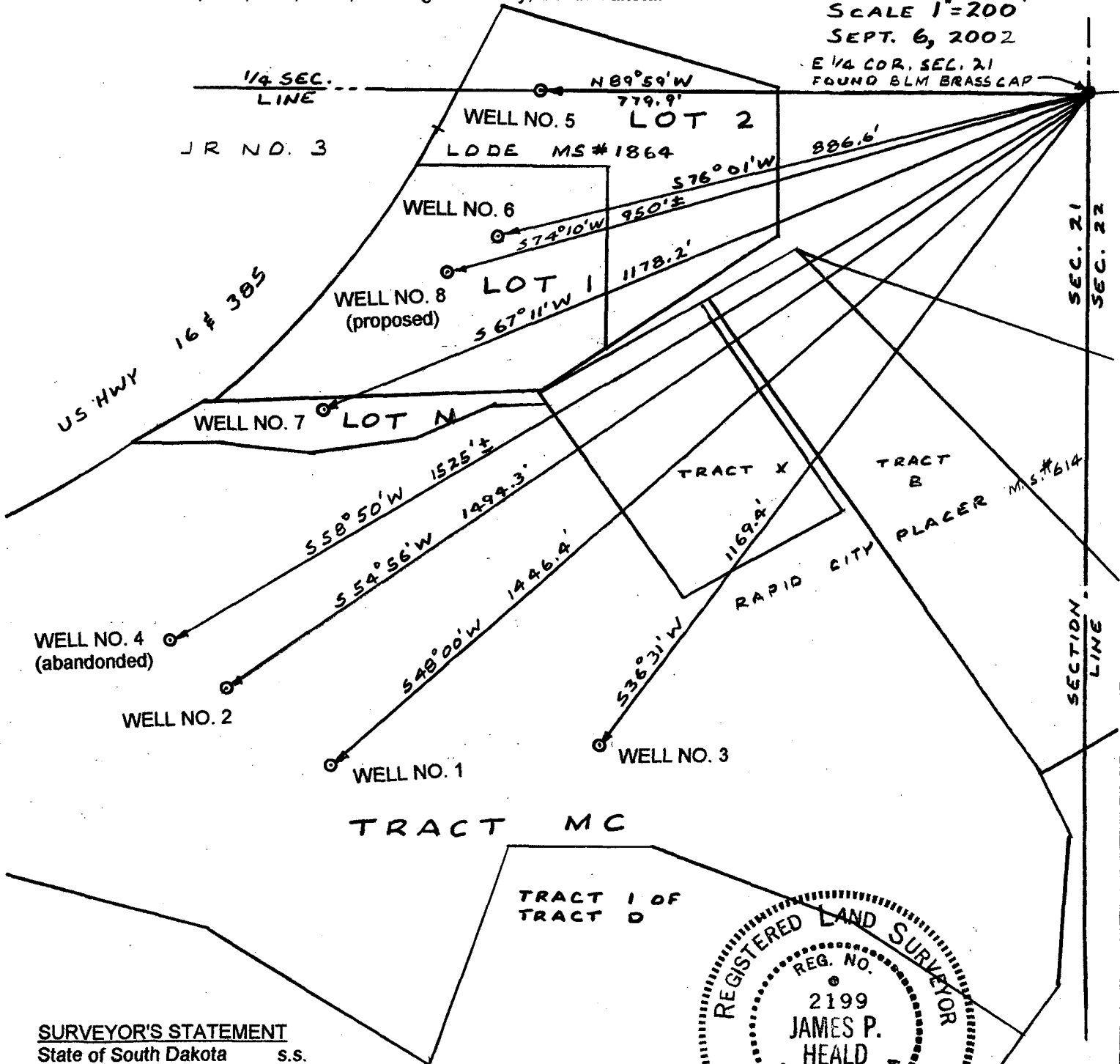


- b) Freeboard _____
- c) Crest Width _____
Crest Length _____
- d) Height _____
- e) Primary Outlet Capacity _____
If pipe, diameter _____
- f) Secondary Spillway Capacity _____
Spillway Width _____
- g) X & Y Slope _____
Upstream _____
Downstream _____
- h) Surface Area of Impoundment _____
- i) Storage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

WATER RIGHT MAP FOR WELLS LOCATED IN

LOTS 1 AND 2 OF LOT E OF JR NO. 3 LODGE MS NO. 1864 AND IN LOT N
OF RAPID CITY PLACER NO. 614 AND IN TRACT MC OF RAPID CITY
PLACER SUBDIVISION (Located in Rapid City Placer MS No. 614)

in E½ of Section 21, T1S, R5E, BHM, Pennington County, South Dakota.



SCALE 1"=200'
SEPT. 6, 2002

E 1/4 COR. SEC. 21
FOUND BLM BRASS CAP

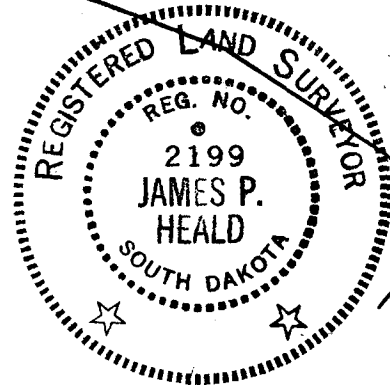
SURVEYOR'S STATEMENT

State of South Dakota s.s.
County of Pennington

I, James P. Heald, Registered Land Surveyor No. 2199
of the State of South Dakota, do hereby state that being so
authorized, I made the survey and within map of the wells shown
and described hereon and that the same is correct to the best of
my knowledge and belief.

Dated: Sept. 9, 2002

Registered Land Surveyor: James P. Heald



HEALD LAND SURVEYING
2218 Lockwood Drive
Rapid City, SD 57702-4266
(605) 343-1820 Fax 721-1336
Toll Free (866) 654-4527

2492-2

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date October 31, 20 02

RECEIVED OF Rushmore Forest Products Inc, PO Box 619, Hill City SD 57743

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

Fee for Application for Permit No. <u>2492-2</u> to Appropriate Water, to construct and to put water to beneficial use	275	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>2492-2</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	325.00

No.

000834

By

Darland White
Chief Engineer *gm*

WATER PERMIT APPLICATION NO. 2492-2
RUSHMORE FOREST PRODUCTS
DECEMBER 27, 2002

Water Permit Application No. 2492-2 proposes to appropriate 0.56 cubic feet of water per second (cfs) from six existing wells and one proposed well (Precambrian Crystalline Rock aquifer) between 166 feet and 309 feet deep located in the NE¼ SE¼ Sec. 21, T1S-R5E. The water is for industrial use.

AQUIFER: Precambrian aged Crystalline Rock (CRSL)

Geology and Aquifer Characteristics:

Well Completion Reports were provided for four of the six existing wells the applicant proposes to utilize for this appropriation. The reports indicate the wells were constructed in the 1970s and 1980s. It can be assumed the wells have been used for this institutional use without water rights since their construction. The crystalline rock in this area consists of metagraywacke, quartzite and quartz-mica schist (Redden and Norton, 1975). The aquifer (crystalline rock) is exposed at the surface throughout this area, except where it is covered by alluvium along Spring Creek and its tributaries (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 Spring Creek. 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. Average annual recharge to the aquifer has not been quantified.

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 12 miles south-southwest of this site. 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. The aquifer in this area should behave similarly to the aquifer in the Custer area.

Review of Existing Water Rights:

There are a number of domestic wells completed into the crystalline rock in this area and there are six Water Rights appropriating water from the aquifer within approximately one mile of this site. The water rights include:

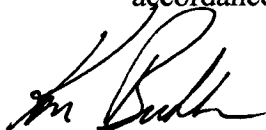
Water Right No.	Name	Diversion Rate (cfs)
2004-2	Gustave Orloske	0.02
2159-2	Three Forks Campground	0.07
2207-2	Robins Roost Cabins	0.02
2232-2	Mountain View Lodge	0.03
2238-2	Larry & Karen Moore	0.02
2246-2	Gordon Collins	0.02

The nearest appropriation, No. 2246-2 is located within 400 feet of the applicant's "well No. 5". 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. It is possible that drawdown from the Rushmore Forest Products wells is measurable in the Collins' 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. 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

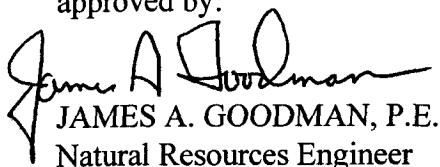
Conclusions:

1. The Precambrian aged Crystalline Rock is a viable aquifer in this area.
2. The aquifer is unconfined and interference is not expected to be a concern.
3. "Well No. 4" on the applicant's map is identified as abandoned and should be plugged 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.
- Redden, J.A., and Norton, J.J., 1975, Precambrian Geology of the Black Hills in Mineral And Water Resources of South Dakota: U.S. Geological Survey report to Committee on Interior and Insular Affairs, United States Senate. P. 21-32

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, 2002a, Domestic Well Logs, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Water Rights, 2002b, Observation Well Files, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

Water Rights, 2002c, Water Permit/Right Files, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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. 2492-2, Rushmore Forest Products**

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. 2492-2, Rushmore Forest Products, c/o Thomas G. Shaffer, PO Box 619, Hill City SD 57745.

The Chief Engineer is recommending APPROVAL of Application No. 2492-2 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.

for Eric Garland
Garland Erbele, Chief Engineer
January 16, 2003

NOTE: The map submitted with the application states that Well No. 4 is abandoned. If this is the case, the well must be plugged in accordance with SD Well Construction Standards.

Affidavit of Publication

State of South Dakota)

)ss.

County of Pennington)

Charles W. Najacht of said county, being duly sworn, on oath says that he is publisher of the Hill City Prevalier-News, a weekly newspaper printed and published in Hill City, said County of Pennington, 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

Rushmore Forest Products
Notice of Application

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:

Jan. 29, 2003; Feb. 5, 2003;

_____, _____; _____, _____;
_____, _____; _____, _____;
_____, _____; _____, _____;

as stipulated in SDCL 17-2-2.1 through 17-2-2.4 inclusive; the full amount of the fees for the publication of the annexed notice is \$ 35.40.

Charles W. Najacht

Subscribed and sworn to me before this 5

of February, 2003;

Norma Najacht

NOTARY PUBLIC

MY COMMISSION EXPIRES: May 5, 2004

NOTICE OF APPLICATION

NE 2492-2 APPROPRIATE WATER

Notice is given that Rushmore Forest Products, PO Box 619, Hill City SD 57745 has filed an application for a water permit to appropriate 0.56 cubic feet of water per second from 6 existing wells and 1 proposed well (Precambrian aged Crystalline Rock) between 160 feet to 309 feet deep located in the NE 1/4 SE 1/4 Section 24T1S-R1E. The water is for industrial use and for domestic use in homes on the property.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2492-2 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, Fore 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 February 18, 2003.

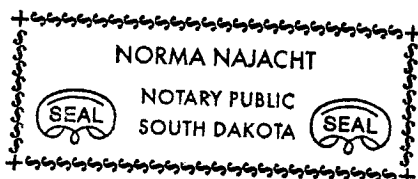
The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.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

#418, 1/29, 2/5

RECEIVED

MAR 14 2003

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

March 7, 2003

Hill City Prevalier News
PO Box 266
Hill City SD 57745-0266

ATTENTION: Legal Public Notice

On January 29 and February 5, 2003 your paper published a Notice of Application No. 2492-2 to Appropriate Water. The applicant, Rushmore Forest Products, is responsible for payment of the notice.

As stated in our January 21, 2003 letter, the Water Right Program records require an affidavit or Proof of Publication prior to issuance of the permit. I have been unsuccessful in reaching your over the phone to request the affidavit. Upon receipt of the affidavit, we can proceed with issuing Rushmore Forest Products water permit.

Enclosed is a Proof of Publication form for your use. Your prompt attention would be appreciated. If you have any questions, please contact me.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
605 773-3352

enclosure

c: Rushmore Forest Products

Instruction to Newspaper - Publish first Notice on January 29, 2003 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 2492-2 to Appropriate Water

Notice is given that Rushmore Forest Products, PO Box 619, Hill City SD 57745 has filed an application for a water permit to appropriate 0.56 cubic feet of water per second from 6 existing wells and 1 proposed well (Precambrian aged Crystalline Rock) between 166 feet to 309 feet deep located in the NE ¼ SE ¼ Section 21-T1S-R5E. The water is for industrial use and for domestic use in homes on the property.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2492-2 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 February 18, 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

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

January 21, 2003

Hill City Prevailer News
PO Box 266
Hill City SD 57745-0266

ATTENTION: Legal Public Notice

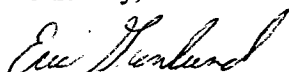
Enclosed is a Notice of Hearing on Application No. 2492-2 to Appropriate Water to be published twice. Please publish the first notice on January 29, 2003 with the second publication 7 days later.

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 Rushmore Forest Products, % Thomas Shaffer, PO Box 619, Hill City SD 57745 (Ph # 605-574-2512).

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. 2492-2

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

Date _____

We are in receipt of your letter of January 21, 2003 enclosing Notice of Hearing to Appropriate Water by Application No. 2492-2 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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.

January 21, 2003

Rushmore Forest Products
% Thomas Shaffer
PO Box 619
Hill City SD 57745

Dear Mr. Shaffer:

Water Permit Application No. 2492-2 for industrial 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 Hill City Prevalier News printed at Hill City, SD (Ph # 605-574-2538). 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.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

APR 21 2003

Rushmore Forest Products
% Thomas Shaffer
PO Box 619
Hill City SD 57745

Dear Mr. Shaffer :

Enclosed is Water Permit No. 2492-2 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,

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

enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

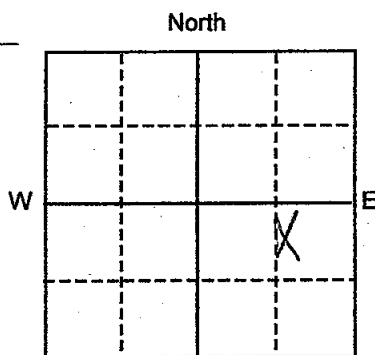
2492-2 SD FORM - 10-1-12 V1

11-02

Location NE 1/4 E 1/4 Sec 21 Twp 15 Rg 5E

County Pennington

Please mark well location with an "X"



Well Completion Date

October 22, 2012

← 1 Mile →

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

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary Downhole Hammer

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe 30' of 6" 160 PVC

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	0.0 FT	28.0 FT	8.75 IN
LB/FT	IN	28.0 FT	440.0 FT	6.00 IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Portland II	3	Lb/gal	28.0 Ft	4.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure through trim pipe

SCREEN:

☐ Perforated pipe ☐ Manufactured
 Diameter _____ Inches Length _____ Feet
 Material _____
 Slot Size _____ Set From _____ Feet to _____ Feet
 Other information _____

WAS A PACKER OR SEAL USED?

☐ Yes ☒ No
 If so, what material? _____
 Describe packer(s) and location _____

DISINFECTION:

Was well disinfected upon completion?
☒ Yes, How? w/chlorine solution
☐ No, Why Not?
 Lab to which water quality sample sent for analysis _____

Well Owner: Rushmore Forest Products

Business Name: _____

Address: PO Box 619

City, State, Zip: Hill City SD 57745

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Drift	0	20
Med Grey Schist	20	160
Soft brown schist	160	175
Med grey schist	175	230
Schist fracture 5 gpm	230	235
Med Grey Schist	235	250
Schist fracture 10gpm	250	255
Med/hard grey schist	255	330
brown schist fracture 20gpm	330	335

STATIC WATER LEVEL 70.0 FEET

If flowing: closed in pressure _____ PSI

GPM flow 100.0 through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe: w/air
☐ Bailed
☐ Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

log formation cont: med hard grey schist 335-370; brown schist fracture 40gpm 370-375; med hard grey schist 375-395; grey schist fracture 100+ gpm 395-400; hard grey schist 400-440

This well was drilled under license # 324 and this report is true and accurate.

Drilling firm: Alexander Drilling Inc.

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: 11/13/12

RECEIVED

NOV 19 2012

WATER RIGHTS PROGRAM

**Permit No. 2492-2
The Black Hills**

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

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

I have this day, December 11, 2013 made a thorough examination of the water system used by Rushmore Forest products, PO Box 619, Hill City, SD 57745, holder of Water Permit No. 2492-2, bearing the priority date of October 31, 2002 and authorizing the diversion of 0.56 cubic feet per second (cfs) or 250 gallons per minute (gpm) from seven wells completed into the Crystalline Rock aquifer at approximately 166-309 feet deep for the purposes of supplying water industrial and domestic use in the SE ¼ of Section 21, T1S-R5E in Pennington County.

I have the following conditions to report for the system in question:

- 1) Works used to divert water:
Seven Grundfos pumps placed in seven separate wells.
- 2) Works used to transport water to a place of use:
Underground pipes connected to housing units and industrial facilities, size unknown.
- 3) Works used to apply water to beneficial use:
N/A

The system is in the following condition: well maintained. The wells associated with Water Permit No. 2492-2 has been broken into three categories: Main, Domestic, and Backup. All seven wells are located in the NE ¼ SE ¼ of Section 21, T1S-R5E. The exact location of each well is as follows:

Main Well

- 1) 2,250 feet north and 1,100 feet west of the southeast corner of Section 21. Lat 43.94665N Lon 103.52271W.

Domestic Wells

- 2) 2,150 feet north and 1,200 feet west of the southeast corner of Section 21. Lat 43.94665N Lon 103.52302W.
- 3) 2,300 feet north and 900 feet west of the southeast corner of Section 21. Lat 43.94701N Lon 103.52191W.
- 4) 2,550 feet north and 950 feet west of the southeast corner of Section 21. Lat 43.94785N Lon 103.52208W.

Backup Wells

- 5) 1,730 feet north and 850 feet west of the southeast corner of Section 21. Lat 43.94548N Lon 103.52177W.
- 6) 1,700 feet north and 1,100 feet west of the southeast corner of Section 21. Lat 43.94532N Lon 103.52276W.
- 7) 1,800 feet north and 1,300 feet west of the southeast corner of Section 21. Lat 43.94564N Lon 103.52342W.

License should be issued for the permitted diversion rate of **0.52 cfs** or **235 gpm**.

Applicable permit qualifications have been complied with: **Yes**

Exceptions to compliance are: **None** Date Report Completed: **April 15, 2014**

A handwritten signature in black ink, appearing to read 'Bracken Capen', with a stylized, sweeping underline.

Bracken Capen
Natural Resources Engineer
DENR, Water Rights Program

FIELD INVESTIGATION REPORT FOR WATER PERMIT NO. 2492-2

DATE OF INVESTIGATION:	December 11, 2013
NAME & ADDRESS OF PERMIT HOLDER	Rushmore Forest Products PO Box 619 Hill City, SD 57745
NAME & ADDRESS OF INVESTIGATION CONTACT/ RELATIONSHIP TO PERMIT HOLDER, IF APPLICABLE	Thomas Schaffer Operations Overseer
DIVERSION POINT LEGAL LOCATIONS	Main Well 1) 2,250 feet north and 1,100 feet west of the southeast corner of Section 21. Lat 43.94665N Lon 103.52271W. Domestic Wells 2) 2,150 feet north and 1,200 feet west of the southeast corner of Section 21. Lat 43.94665N Lon 103.52302W. 3) 2,300 feet north and 900 feet west of the southeast corner of Section 21. Lat 43.94701N Lon 103.52191W. 4) 2,550 feet north and 950 feet west of the southeast corner of Section 21. Lat 43.94785N Lon 103.52208W. Backup Wells 5) 1,730 feet north and 850 feet west of the southeast corner of Section 21. Lat 43.94548N Lon 103.52177W. 6) 1,700 feet north and 1,100 feet west of the southeast corner of Section 21. Lat 43.94532N Lon 103.52276W. 7) 1,800 feet north and 1,300 feet west of the southeast corner of Section 21. Lat 43.94564N Lon 103.52342W.

WELL INFORMATION:

- 1) Well Drilling Firm:
Alexander Drilling Co.
- 2) Number of Wells: **7**
- 3) Depth: **166-309 feet**
- 4) Well Logs Available: **Six of seven logs available.**
- 5) Comment:

Pumps

- 1) Make: **Grundfos**
- 2) Model:
- 3) Size:
- 4) Capacity: **100 gpm, 30 gpm (x3), 15 gpm (x3)**

Casing

- 1) Diameter: **6 inches**
- 2) Length:
- 3) Type: **Steel**

Screen

- 1) Type: **None**
- 2) Length:
- 3) Static Water Level: **17 - 70 feet**

Motor

- 1) Make:
- 2) Model No:
- 3) Power: **15 hp (main), 7.5 hp (backup), 5 hp (x2, backup), 0.75 hp (x3, domestic)**

System Type

- 1) Make: **No Irrigation System**
- 2) Overall length:
- 3) Number of Towers:
- 4) Distance Between Towers:
- 5) End Gun:
- 6) Pressure:
- 7) Capacity:

CHEMIGATION EQUIPMENT: N/A

PERMIT QUALIFICATIONS:

- 1) Special qualifications to permit being abided by: **N/A**
- 2) All structures, wells, and lands on map: **Yes**
- 3) Irrigation Questionnaires checked to determine if permit owner started irrigation by end of construction period: **No Irrigation Occurring.**

COMMENTS:

- 1) Although the back-up wells are not in regular use, it was made clear that they are maintained primarily for the risk of fire on site. In addition, the back-up wells serve as a redundancy in case another well fails.



Legend

- Main Well
- Domestic Wells
- Backup Wells
- Section Boundaries



Prepared by Bracken Capen
Natural Resources Engineer
DENR, Water Rights Program





DEPARTMENT OF ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov



APR 25 2014

2492-2

Thomas Shaffer
Rushmore Forest Products
PO Box 619
Hill City SD 57745 0619

Dear Mr. Shaffer:

Enclosed is Water License No. 2492-2. This is the final water right document completing the process of obtaining a Water Right. Included with the license is a map prepared by the staff engineer who conducted the field investigation.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the wells authorized by Water Right No. 2492-2, 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. 2492-2

(1) Rushmore Forest Products, PO Box 619, Hill City SD 57745 made Application No. 2492-2, October 31, 2002 for a water permit to divert 0.56 cubic feet of water per second from ground water – 7 wells (Precambrian aged Crystalline Rock), Pennington County, South Dakota for industrial and domestic use purposes. Permit No. 2492-2, with a priority date of October 31, 2002 was approved February 18, 2003 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before February 18, 2008 and for the application to beneficial use of said water on or before February 18, 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 0.52 cubic feet of water per second for beneficial use. The wells are located:

Main Well

1) 2,250 feet north and 1,100 feet west of the southeast corner of Section 21, T1S, R5E (NE ¼ SE ¼);

Domestic Wells

2) 2,150 feet north and 1,200 feet west of the southeast corner of Section 21, T1S, R5E (NE ¼ SE ¼);

3) 2,300 feet north and 900 feet west of the southeast corner of Section 21, T1S, R5E (NE ¼ SE ¼);

4) 2,550 feet north and 950 feet west of the southeast corner of Section 21, T1S, R5E (NE ¼ SE ¼);

Backup Wells

5) 1,730 feet north and 850 feet west of the southeast corner of Section 21, T1S, R5E (NE ¼ SE ¼);

6) 1,700 feet north and 1,100 feet west of the southeast corner of Section 21, T1S, R5E (NE ¼ SE ¼);

7) 1,800 feet north and 1,300 feet west of the southeast corner of Section 21, T1S, R5E (NE ¼ SE 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 Rushmore Forest Products, PO Box 619, Hill City SD 57745 the holder and/or owner of Water Right No. 2492-2 is issued a license to appropriate water, the right to use 0.52 cubic feet of water per second from ground water – 7 wells (Precambrian aged Crystalline Rock) with a priority date of October 31, 2002 from the locations specified in (2) of this license for industrial and domestic use purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 2492-2 and subject to 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.



Jeanne Goodman, Chief Engineer
Water Rights Program

Department of Environment and Natural Resources

APR 25 2014

date



WATER RIGHTS PROGRAM -- FILE DOCUMENTATION

DATE: 09/16/2025

NAME & TELEPHONE: Carmen Ronish (605) 642-77741 (ext 7741)

RE: Water use by Rushmore Forest Products Inc (Hill City SD)

COMMENTS:

On September 16, 2025, I called the phone number listed online for Rushmore Forest Products Inc, located in Hill City, SD. My call was directed to Ms. Carmen Ronish, who was able to give details as to the current status of water use at the facility. While she did confirm that the sawmill/lumberyard was closed, she also confirmed that:

- 1) The front office of the property was still utilized by a small number of staff. Toilets and sinks in the front office are supplied by one or two of the "industrial" wells.
- 2) There are a few cabins on the northeast part of the property that are inhabited by staff. The cabins are fed by the "domestic" wells.
- 3) All wells not currently in use have been regularly maintained. While the business is not currently active, fires, and therefore fire prevention are of the highest concern.



Amanda Dewell
Water Rights Program