

45

HAP No. same 673-4824

assigned on December 12, 1989

By

Ken Lussell

No. 2107-2 Hydrologic Unit 10120109
 Map No. same Basin upper Cheyenne
 Newspaper Custer Co. Chronicle, Box 551 (Wed)
5-7-80

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

Check use of water: Industrial ☐ Commercial ☐ Municipal ☒ Other Common Distribution System ☐
 Rural Water System ☐ Suburban Housing ☐ Geothermal Heat ☐ Institutional ☐ Recreational ☐
 Domestic ☐ (above 18gpm) Other ☐

Type of Application: Check one or more of the following



New ☒ Vested Right ☐ Future Use ☐ Change Use ☐

☐ Amend Permit No. _____ with old priority date retained

Change diversion point(s) ☐ Add diversion point(s) ☐ Other ☐ _____

☐ Application to: Change diversion point(s) ☐ Add diversion point(s) ☐ on Permit No. _____

☒ Construction to use water reserved by Future Use Permit No. 1407-2

1. Name of Applicant City of Custer Phone No. (605)673-4824

Post Office Address 622 CROOK STREET, CUSTER State So. Dak. Zip Code 57730
 (Street, RR or Box)

2. Amount of water claimed (c.f.s) 0.78 (#15), 1.03(#14), 0.12(#13), 0.05(#12) & 0.50(#10)

3. Source of water supply Precambrian-schists, quartzite and pegmatite 5 wells

4. Location of point of diversion is S 06°32'W a distance of 2126 feet from E1/4 corner of

SE1/4SE1/4 Section 23, T3S, R4E, BHM (#15); SW1/4SW1/4 Sec 24 (#14); NW1/4NW1/4 Sec 25 (#13);

NW1/4SW1/4 Sec 24 (#12); NW1/4SE1/4 Sec 28 (#10); all in 3S-4E County CUSTER

5. Counties where water will be used Custer

6. Annual period during which water is to be used All year Jan 1 - Dec 31

7. Give a brief description of proposed 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)

CONSTRUCTION OF A 400-FOOT WATER WELL WITH PUMP HOUSE AND TIE INTO EXISTING

DISTRIBUTION SYSTEM IN CUSTER.

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map (see instruction)

STATE OF SOUTH DAKOTA)
 County of CUSTER)^{ss}

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

Signed Bruce Shugh MAYOR

Subscribed and sworn to before me this 29 day of August 1989

Sue C. Bennett
 Notary Public (or other qualified officer)

Supplemental Information

(type or print in ink)



1. Well Information - Proposed construction

- a) Drill Hole Diameter 15" 12-3/4" Depth 0-148' 148'-400'
- b) Casing Type STEEL Diameter 12.75" Thickness 0.365" 0.377"
- c) Screen Type ----- Diameter ----- Thickness -----
- d) Gravel Pack Thickness ----- Length of Gravel Pack -----
- e) Depth to Top of Water Bearing Material 180 ft/
- f) Depth of Water (ground surface to water level) 18 ft. ±
- g) Distance to nearest existing domestic well:
 On applicants property 1250 ft. On property owned by others 3130 ft. ± in Homestead Addn.

2. Dugout Information Estimates

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

3. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below. The locations of each dam should 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) Outlet Dimensions:

Pipe diameter -----

Spillway width -----

f) X & Y Slope

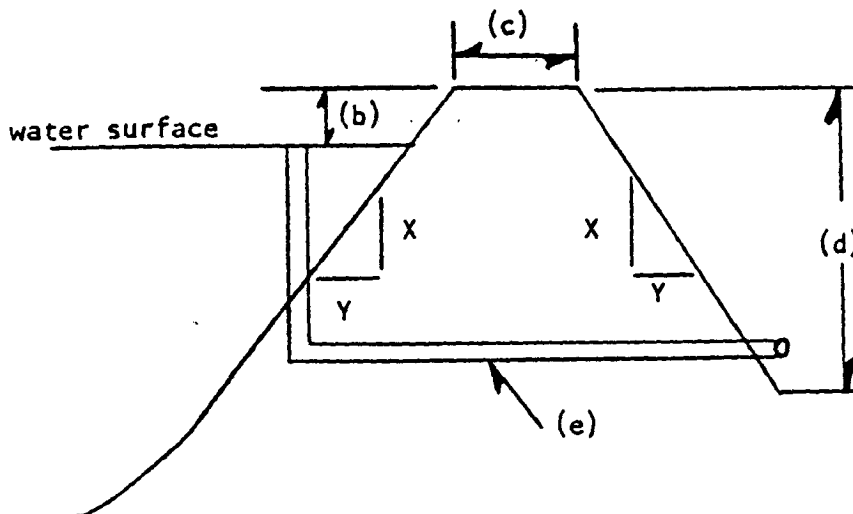
Upstream -----

Downstream -----

Surface Area of Impoundment -----

Storage ----- acre feet

Drainage area above dam -----



Theresa Shugart MAYOR
 Signature of Applicant

**SOUTH DAKOTA
WATER PERMIT No. 2107-2**

Date of first receipt of application May 10, 1989.

Date of return to applicant for corrections, amendments or changes
May 19, 1989.

Date of receipt of corrected application October 26, 1990.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 2107-2 to the City of Custer, 622 Crook Street, 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. 2107-2 appropriates a total of 1.98 cubic feet of water per second (cfs) from 4 wells (well No. 12 - 0.05 cfs, well No. 13 - .12 cfs, well No. 14 - 1.03 cfs, and well No. 15 - 0.78 cfs) and to place to beneficial use 0.50 cfs (well No. 10) of groundwater reserved by Future Use Permit No. 1407-2. Well Nos. 10, 12, 13, 14, and 15 are 360, 1100, 400, 360, and 400 feet deep, respectively, and the wells are located in the NW1/4 SE1/4 Section 28 (No. 10); NW1/4 SW1/4 Section 24 (No. 12); NW1/4 NW1/4 Section 25 (No. 13); SW1/4 SW1/4 Section 24 (No. 14); SE1/4 SE1/4 Section 23 (No. 15); all in T3S-R4E. The combined diversion from all 5 wells is 2.48 cfs.
2. The water appropriated shall be used for the purpose of supplying city water needs and may not exceed the amount of water needed for beneficial use for municipal purposes.
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. 2107-2 is February 7, 1991.
5. The date from which applicant may claim right is October 26, 1990 for 1.98 cfs from well No. 12, 13, 14 and 15 and January 10, 1977 for 0.50 cfs from well No. 10 (established by Future Use Permit No. 1407-2).
6. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. Any new wells authorized by Permit No. 2107-2 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted with cement (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:30.

(continued)

2. 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: _____

Chief Engineer, Water Rights Division
Department of Water and Natural Resources

MAR 27 1991

(date)

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

411945

Pierre, October 23, 1989

RECEIVED OF City of Custer, Custer, SD 57730

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

Fee for Application for Permit No. <u>2107-2</u> to Appropriate Water, to construct works and to put water to beneficial use _____	575	00
Fee for Application for Permit No. _____ to Appropriate Water for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for Certified Copy of _____		
Fee for Print Copy of Map _____		
Fee for Certifying _____		
Fee for _____		
(Any Other Work Provided by Law)	Total	575 00

By John Hatch
Chief Engineer John Hatch

CITY OF CUSTER CITY

CUSTER, SOUTH DAKOTA

57730



May 8, 1989

SD Dept. of Water & Natural Resources
Attn: Ms. Susan Bowar
Division of Water Rights
523 East Capitol
Pierre, South Dakota 57501

re: Municipal Wells
General Information

Dear Ms. Bowar:

My office has been requested to supply you with the following information regarding the Custer City Municipal Wells.

Well #1:

Location: East portion of Tract Well, NE1/2, NW1/4, Sec 26,
T35, R4E.
Depth: 354'
Construction Date: 1955
Status: Produces 200 gpm, pumped 15 hours every 3rd day.
Casing: 8"

Well #2:

Location: West portion of Tract Well, NE1/2, NW1/4, Sec 26,
T35, R4E.
Depth: 142'
Construction Date: unknown
Status: Produces 150 gpm, pumped 5 hours every 3rd day.
Casing: 10"

Well #3:

Location: Block 85, Lot 1 and the W1/2 Lot 2, City of Custer
Depth: 236'
Construction Date: 1947
Status: Produces 200 gpm, pump schedule to be determined upon
completion of construction of iron removal plant.
Casing: 10"

Well #4 - Water Permit #298-2:

Location: Sec 27, T35, R4E, on east side of West Dam
Depth: 242'
Construction Date: 1952
Status: Produces 190 gpm, pumped 15 hours every 3rd day.
Casing: unknown

Well #5 - Water Permit #470-2:

Location: Block 50, N50' Lot 12, City of Custer
Depth: unknown-probably less than 100'
Construction Date: possible 1-15-58
Status: Produces 40 gpm, pumped 15 hours every 3rd day.

Well #5 Cont.

Casing: unknown

Well #9 - Water Permit #1251-2:

Location: 2440' from the SE corner, Sec 28, T35, R4E.

Depth: 249'

Construction Date: 1974

Status: Produces 275 gpm, pumped up to 10 hours daily.

Casing: 10"

If you require more information than is provided, please contact my office at 673-4824. Thank you.

Sincerely,



John L. Evans

Public Works Director

JLE/scb



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

March 9, 1989

Annella Wright, Mayor
City of Custer
622 Crook Street
Custer SD 57730

Dear Mayor Wright:

I am writing in response to an article in the March 8, 1989, edition of the Rapid City Journal regarding construction of a municipal well for the City of Custer. The city needs to obtain a water permit before water from the well may be used pursuant to SDCL 46-1-15, 46-5-8.2, 46-5-9 and 46-5-10.

Enclosed are application forms to apply for a water permit. Water from the well may not be used by the city until the Water Management Board approves the water permit application. Please contact Ron Duvall (605 773-3352) if you have any questions.

Very truly yours,

A handwritten signature in black ink, appearing to read "John Hatch". The signature is written in a cursive, flowing style.

John Hatch, Chief Engineer
Water Rights Division

cc: Alvis Walker, Finance Officer

 **Department of
Water & Natural Resources**

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

May 19, 1989

City of Custer
Anella Wright, Mayor
622 Crook Street
Custer, SD 57730

Dear Ms. Wright:

This letter is in response to the water permit applications received from you on March 31, 1989 and May 10, 1989, and the letter dated May 8, 1989 received from John Evans outlining the wells currently in use by the City of Custer.

The three water permit applications that have been received from you will be combined into one application. In order to complete the application, I need the following information from you:

- 1) Well logs or test hole logs for each of the three wells (wells #10, #12, and #13) need to be submitted.
- 2) The enclosed map for well #13 needs to make reference to a government section corner or quarter corner. Lot descriptions within city limits are **not** sufficient.
- 3) The correct application fee for the wells needs to be submitted. The fee is based on the diversion rates from the wells. The combined diversion rate for the three wells is 0.9 cubic feet of water per second (cfs). The correct fee for appropriating 0.9 cfs is \$325 (see enclosed instruction sheet).

Please submit these items to complete the processing of your water permit application.

According to our files, the City of Custer has the following Water Rights/Permits:

Water Right No. 257-2 : appropriates 0.23 cfs from French Creek Drainage Basin at a point located in the NE1/4 NW1/4 Section 26-T3S-R4E. The priority date for this right November 11, 1930.

Water Right No. 298-2: appropriates 30 acre-feet of storage in French Creek located in the SE1/4 NW1/4 Section 27-T3S-R4E. The priority date for this right is April 23, 1943.



- Water Right No. 470-2: appropriates 0.10 cfs from 1 well, 200 feet deep, located in the SE1/4 SE1/4 Section 23-T3S-R4E. This right has a priority date of February 11, 1958.
- Water Right No. 1251-2: appropriates 0.56 cfs from 1 well, 240 feet deep, located in the NW1/4 SE1/4 Section 28-T3S-R4E. This right has a priority date of March 17, 1975.
- Water Permit No. 1924-2: appropriates 0.10 cfs from 1 well, 50 feet deep, located in the SW1/4 SE1/4 Section 19-T3S-R4E. This permit has a priority date of March 5, 1985.
- Water Permit No. 1963-2: appropriates 1.11 cfs from 1 well, 870 feet deep, located in the NW1/4 SW1/4 Section 21-T3S-R4E. This permit has a priority date of April 29, 1986.
- Water Permit No. 1407-2: appropriates for FUTURE USE, 1.5 cfs from groundwater or French Creek from points located in Section 28, S1/2 Section 27; all in T3S-R4E.

I am enclosing copies of each of these. Please note that well #10 is located within the future use area reserved by Water Permit No. 1407-2. If approved, the 0.5 cfs from this well will be subtracted from the 1.5 cfs reserved by Future Use Permit No. 1407-2.

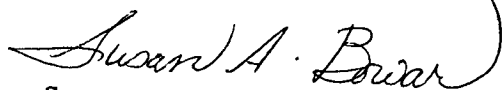
When comparing these Water Rights/Permits that we have on file for the City of Custer with the wells outlined in Mr. Evans' letter, a copy of which is also enclosed, it looks like in addition to the three applications we have received from you, it will be necessary to apply for Water Rights for those wells not covered by your existing Water Rights/Permits.

It appears that wells #1, #2, #3, and #4 are not covered by the City of Custer's existing Water Rights/Permits. Please carefully compare your existing wells with the copies of your Water Rights that have been included with this letter. For those wells not authorized, please submit an application at your **earliest convenience**. I am enclosing water permit application forms and an instruction sheet for you. Please note that wells constructed or in use on or before February 28, 1955 may qualify for a Vested Water Right. I am also enclosing forms for filing a Vested Water Right Claim. If any of the wells covered by existing Water Rights/Permits have been plugged and/or are no longer in use, please include that information so the corresponding Water Right/Permit can be cancelled.

May 19, 1989
City of Custer
page 3

Please feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in cursive script, reading "Susan A. Bowar". The signature is written in dark ink and is positioned above the typed name and title.

Susan A. Bowar
Natural Resources Engineer
Water Rights Division
(605) 773-3352

enclosures

cc: John L. Evans, Public Works Director



THE ALLIANCE OF ARCHITECTS & ENGINEERS
RAPID CITY • WATERTOWN

1107 Mt. Rushmore Road, Suite #3, Rapid City, SD 57701
605/342-9470



CUSTER WATER WELLS
CUSTER, SOUTH DAKOTA

NO. OR NAME	DATE BUILT	DEPTH	DIA.
1-Sby	1937	375'	8"
2-Trade Winds	1943	142'	10"
3-Sby	1949	254'	12"
4-West Dam	1948	242'	8"
5-Laughing Water	1952	200'	9"
9-French Creek	1975	249'	10"
10-Upper French Creek	1989	500'	8"
11-Homestead/Gruenwaldt Field East	1989 (KPT)	500'	8"
12-Athletic Field Gruenwaldt Field West	1989	1120' no pump	7"
13-Harbach Park	1989	400'	5"
14-Custer Lumber	1989	400'	12"
15-Berean Church	1989	400'	12"



TRANSMITTAL LETTER

DATE: May 3, 1989

OUR PROJECT #: R89-264

TO: Water Rights Div.
DWR. Joe Foss Building
Pierre, SD 57501

ATTENTION: Mr. John Hatch
DWR Water Rights

RE: New WELL #12 Gruenwaldt Field
Custer, South Dakota



WE TRANSMIT:

☒ herewith ☐ in accordance with your request ☐
☐ hand delivered ☐ under separate cover via ☐

FOR YOUR:

☒ approval ☐ review and comment ☐ distribution to parties
☐ use ☐ information ☐ record
☐ signature ☐

THE FOLLOWING:

☐ drawings ☐ specifications ☐ payment request
☐ report ☐ shop drawings ☐ Water Application permit

REMARKS:

ALLIANCE OF ARCHITECTS AND ENGINEERS

Daniel Bjerke PE/LS

COPIES TO:

cc City of Custer

CITY OF CUSTER CITY

CUSTER, SOUTH DAKOTA

57730

September 13, 1989

Water Rights Division
SD Dept. of Water & Natural Resources
Joe Foss Building - Suite 425
523 E. Capitol
Pierre, South Dakota 57501



re: Application for Water Rights &
Amendment for Water Rights

Dear Sirs:

Enclosed are applications and filing fees for water right permits for the following:

Well #13 - Harbach Park - 55 gpm \$150.00
Well #14 - Custer Lumber - 460 gpm \$350.00
Well #15 - Berean Church - 350 gpm \$300.00

Also enclosed is an application to change the diversion point for water rights permit #1963-2, along with a copy of the original water rights permit.

We are enclosing a copy of a data sheet we have received from our driller, Taylor Drilling of Rapid City, for your information. If you have any questions regarding the enclosed material, please contact the firm of The Alliance of Architects and Engineers, 342-9470; or Public Works Director John Evans, 673-4824. Thank you.

Sincerely,

A handwritten signature in cursive script that reads "Sue C. Bennett".

Sue C. Bennett
Finance Officer

enc.

pc: The Alliance of Architects & Engineers

Conversation or File Documentation

NAME OF PERSON OR FILE: John L Evans, Public Works DirectorADDRESS: City of Custer, 622 Creek St., Custer SD COUNTY CusterDATE: Oct 5, 1989 TELEPHONE 673-4824RE: permit applications for City of Custer

COMMENTS:

Contacted John Evans regarding several water permit applications received in May & in September 1989. I questioned Mr. Evans regarding the location and diversion rate of well No. 13. Mr Evans indicated the correct location is the NW 1/4 section 25 and the diversion rate is 0.12 cfs.

Mr. Evans also indicated that the applications could be combined into one application rather than separate applications for each well.

November 20, 1989

Contacted John Evans regarding well logs for Well Nos. 11 & 12. Mr Evans indicated that a monitoring well is to be used for a production well in place of the well authorized by No. 1963-2. Well No. 11 will be 100 - 200 feet from the well described on No. 1963-2. I informed Mr Evans that no permit was needed to change the location of a well less than 660 feet with no change in source or increase in pump rate unless the move interfered with other users.

- continued -

File in Permit or other file as necessary. Use to document conversations and what the other party was told; why action or decision was made.

Conversation or File Documentation

NAME OF PERSON OR FILE: John L Evans, Public Works Director

ADDRESS: City of Custer COUNTY Custer

DATE: Nov. 20, 1989 TELEPHONE _____

RE: _____

COMMENTS:

Mr Evans also stated that Raby Drilling completed Well No. 11 and drilled No. 12 nearby but the well was cased by Taylor Drilling. Well log information in the immediate area of Nos. 11 & 12 has been filed with Permit No. 1963-2.

Mr. Evans also noted that well No. 12 is not currently being used but may be used in the future. The diversion rate specified on the application for well No. 12 should be reduced to 20 gpm. The well does not produce as anticipated.

December 12, 1989

Ken Buhler contacted Randy with Taylor drilling and requested a completion report from Taylor drilling for well No. 12.

File in Permit or other file as necessary. Use to document conversations and what the other party was told; why action or decision was made.



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

October 6, 1989

Sue Bennett, Finance Officer
City of Custer
Custer SD 57730

Dear Ms. Bennett:

This letter is in response to the water permit applications received from the City of Custer on September 14, 1989 and in response to a phone conversation with John Evans on October 5, 1989.

I contacted John Evans regarding the correct well location of well No. 13 and about combining the applications into one application. Based on Mr. Evans description of the location of well No. 13, the well appears to be located in the NW1/4 section 25. Mr. Evans also indicated that the applications could be combined into a single application which will cause a change in the application fee. The application fee is now \$575.00 based on a diversion rate of 2.63 cfs which excludes well No. 11 which is for a change in location of the diversion point authorized by Permit No. 1963-2. Enclosed is the City's check for 800.00; please remit the revised application fee.

The Division of Water Rights has also received a well completion report for well Nos. 10, 13, 14, and 15; however, no completion reports have been received for well Nos. 11 and 12. Please submit the completion reports or inform me that the wells have not yet been constructed. The city should also be aware that construction of the production wells prior to obtaining a water permit is a violation of state law.

Please contact me if you have any questions.

Sincerely,

Ron Duvall
Natural Resources Engineer
605 773-3352

enc.





Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

September 28, 1990

Anella Wright, Mayor
City of Custer
622 Crook Street
Custer SD 57730

Dear Mayor Wright:

I am writing to follow-up on a letter dated May 19, 1989, written by Susan Bowar (copy enclosed).

On page 2, last paragraph of the letter, a reference was made that well Nos. 1, 2, 3, and 4 do not appear to be covered by any water right held by the city. No response was received from the city regarding these 4 wells.

The location of the 4 wells is described on a letter sent by John L Evans, dated May 8, 1989 (copy enclosed). The letter sent by Mr. Evans makes reference to Water Permit No. 298-2 being associated with well No. 4. However, Water Permit No. 298-2 is a storage right for surface water and does not include well No. 4.

These 4 wells may qualify as vested rights if the wells were constructed prior to February 28, 1955. Enclosed is another set of application forms which may be used to claim a vested water right for these 4 wells. All four of the wells may be included on one application if all of the wells qualify for vested right status. Any of the wells that do not qualify for vested right status should be placed on a separate application.

No action has been taken on the city's application for well Nos. 10, 12, 13, 14, and 15 pending a response to the May 19, 1990, letter from Susan Bowar. Please respond to this letter by October 12, 1990, to begin processing the application for well Nos. 10, 12, 13, 14, and 15. The response should include completion of the enclosed application forms for well Nos. 1, 2, 3, and 4 unless the city has information that these 4 wells are already covered by a water permit.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Ron Duvall". The signature is written in a cursive, flowing style.

Ron Duvall
Natural Resources Engineer
605 773-3352

enc.

COUNTY, SOUTH DAKOTA

TOWNSHIP No. RANGE No.

(With surrounding tier of sections of adjacent townships)

36	31	32	33	34	35	36	31
1	6	5	4	3	2	1	6
12	7	8	9	10	11	12	7
13	18	17	16	15	14	13	18
24	19	20	21	22	23	24	19
25	30	29	28	27	26	25	30
36	31	32	33	34	35	36	31
1	6	5	4	3	2	1	6

Legal Description of Well No. 3 not given
Well No. 4 is located in sec 27-3S-4E (no permit)

new dpts May 1989
new dpts Sept 1989

TAYLOR DRILLING CO.
 2310-12 Commerce Road
 RAPID CITY, SOUTH DAKOTA 57702-8062

RALPH L. TAYLOR, SR.
RALPH L. TAYLOR, JR. (Randy)
KIM E. TAYLOR



TELEPHONE:
 Office 605—348-3600
 After Hours 605—341-5417
 or 605—787-4989

City of Custer-

Test Hole No. 16.....Plugging Data

6/13/89.....Went to 220' with Drill pipe and pumped 40 sacks cement with return to surfacel

6/14/89.....Finished filling hole with 3 sacks of cement.

6/15/89.....WELL #6...Went in hole to 260' with Drill pipe and pumped 50 sacks cement with return to surface.

6/16/89.....WELL #7...Went in with Drill pipe to 160'. Something in hole and couldn't get past it. Jim Goodman approved to plug at 160'. Pumped 65 sacks cement with return to surface.

6/18/89.....Test Well on Bradean property...Went in with Drill pipe to 360' and pumped 80 sacks cement with return to surface. Mixed 3 sacks cement on 6/19/89 to fill hole.

TAYLOR DRILLING CO.

2310-12 Commerce Road
RAPID CITY, SOUTH DAKOTA 57702-8062

RALPH L. TAYLOR, SR.
RALPH L. TAYLOR, JR. (Randy)
KIM E. TAYLOR

TELEPHONE:
Office 605—348-3600
After Hours 605—341-5417
or 605—787-4989

City of Custer
List of Submersible Pumps:

WELL #3

30 HP Hitachi 460 Volt 3 Phase Motor Berkley Pump En
Pump setting 210' with 4" Drop Pipe

WELL #5 Laughing Water

7½ HP Franklin 230 Volt 3 Phase Motor 40S75-21 Grundfos Pump
Pump setting 190' on 3" Drop pipe

WELL #10 French Creek Well

25 HP Hitachi 460 Volt 3 Phase Motor 135S250-15 Grundfos Pump
Pump setting 416' with 4" Drop Pipe

WELL #13 Harbach Park

7½ HP Franklin 230 Volt 3 Phase Motor 60S75-13 Grundfos Pump
Pump setting 216' with 2" Drop Pipe

WELL #14 Custer Lumber Yard

60 HP 460 Volt 3 Phase Motor 375S600-10DS Grundfos Pump
Pump Setting 310' with 4" Drop pipe



TAYLOR DRILLING CO.

2310-12 Commerce Road
RAPID CITY, SOUTH DAKOTA 57702-8062



RALPH L. TAYLOR, SR.
RALPH L. TAYLOR, JR. (Randy)
KIM E. TAYLOR

TELEPHONE:
Office 605—348-3600
After Hours 605—341-5417
or 605—787-4989

City of Custer...cont'd

WELL #15

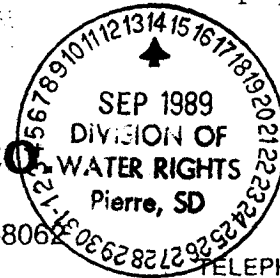
148'	15" Bore hole
150'	12 3/4" Casing .365 wall
252'	11" Bore hole
280'	9 5/8" Casing .377 wall
180'	First water zone
	Bottom of 12 3/4" Casing 148'
	Top of 9 5/8" Casing 120'
	Bottom of 9 5/8" Casing 400'

SEP 01 1989

page -1-

TAYLOR DRILLING CO.

2310-12 Commerce Road
RAPID CITY, SOUTH DAKOTA 57702-8062



RALPH L. TAYLOR, SR.
RALPH L. TAYLOR, JR. (Randy)
KIM E. TAYLOR

TELEPHONE:
Office 605-348-3600
After Hours 605-341-5417
or 605-787-4989

City of Custer
622 Crook St.
Custer, SD 57730

WELL #10

154' 14 3/4" Bore hole
154' 10 3/4" Casing .495 wall
221' 9 7/8" Bore hole
232' 8 5/8" Casing .377 wall
7 7/8" Bore hole to 502'
Bottom of 10 3/4" 154'
Top of 8 5/8" 143'
Bottom of 8 5/8" 375'
185' First water zone

WELL #12

147' 8 3/4" Bore hole
147' 7" Casing .317 wall
5" Bore hole to 1100'
165' first water zone

WELL #13

140' 6 1/2" Bore hole
140' 5 1/2" Casing .275 wall
260' 6 1/2" Bore hole-open
First water zone 165'

WELL # 14

135' 15" Bore hole
135' 12 3/4" Casing .365 wall
225' 11 7/8" Bore hole
240' 9 5/8" Casing .377 wall
135' Bottom of 12 3/4" Casing
120' Top of 9 5/8" Casing
360' Bottom of 9 5/8" Casing
First Water zone 150'

TAYLOR DRILLING CO.

2310-12 Commerce Road
RAPID CITY, SOUTH DAKOTA 57702-8062

RALPH L. TAYLOR, SR.
RALPH L. TAYLOR, JR. (Randy)
KIME E. TAYLOR



TELEPHONE:
Office 605—348-3600
After Hours 605—341-5417
or 605—787-4989

City of Custer.....

Test Well at Bradeen Property.....February 1989

0- 8	Weathered Schist
8- 22	Granite and Schist
22- 45	Weathered Granite
45-104	Schist & Mica
104-115	Schist-soft 20 GPM
115-145	Schist & Mica (hole caving)
145-312	Schist--mostly hard
312-320	Schist--soft 17 GPM
320-365	Schist

WELL #13 HARBAUGH PARKFebruary 1989

0- 38	Gravel & Boulders
38- 65	Schist & Mica
65- 75	Rust colored schist
75-110	Schist...some pyrite
110-125	Yellow Schist--7 GPM
125-150	Schist Gray
150-165	Schist & Mica 30 GPM
165-185	Gray schist---some yellow
185-210	Schist--some quartz (29 GPM)
210-305	Schist--fairly hard & smooth
305-360	Schist--hard
360-367	Soft Schist
367-400	Schist--hard

WELL #14.....Custer Lumber

0- 38	Gravel & Clay
32-105	Gray Schist
105-120	Broken Schist
120-155	Gray Schist & Mica
155-165	Soft Schist & Mica (100-125 GPM)
165-235	Schist--hard
235-245	Broken Schist (100 GPM)
245-298	Schist--hard
298-320	Broken Schist--soft (225 GPM)
320-325	Schist (1.2-1.3 PPM Iron)
325-338	Schist--some fractures
338-347	Fractured Schist (150 GPM)
347-360	Hard Schist (1.2-1.3 PPM Iron)

TAYLOR DRILLING CO.

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or 605—787-4989

City of Custer.....WELL #10....FRENCH CREEK

April 1989

0- 12	Boulders
12- 20	Schist & Quartz
20- 48	Schist
48- 64	Schist...some Brown & weathered
64- 88	Schist--hard
88-105	Soft Schist (25 GPM)
105-145	Schist--hard
145-180	Schist--softer
180-185	Schist--some fractures (25 GPM)
185-212	Schist & Mica
212-221	Fractured Schist (25 GPM)
221-234	Schist & Mica
234-244	Fractured Schist (25 GPM)
244-288	Schist & Mica
288-302	Fractured Schist (50 GPM)
302-351	Schist--hard
351-360	Fractured Schist (50 GPM)
360-500	Hard Schist & Mica

BEREAN CHURCH YARD.....

0- 15	Gravel		
15- 28	Brown Schist		
28- 30	Gray & Brown Schist		
30- 40	Gray Schist--some Quartz (6 GPM)		
40- 55	Gray Schist		
55- 60	Softer Schist (30 GPM)		
60-105	Gray Schist		
105-110	Gray Schist--semi fractured (5 GPM)		
110-125	Harder Schist		
125-135	Softer Schist Gray (10 GPM)		
135-180	Gray Schist		
180-185	Semi-fractured (25 GPM)		
185-195	Gray Schist		
195-215	Gray Schist w/layer of Quartz		
215-245	Gray Schist		
245-255	Gray Schist--broken (65-70 GPM)		
255-275	Gray Schist w/Quartz		
275-280	Schist (5 GPM)		
280-300	Hard Gray Schist		
300-307	Fractured Schist (65 GPM)		
307-314	Hard Gray Schist		
314-320	Soft Schist	338-346	Hard Gray Schist
320-332	Harder	346-357	Fractured
332-338	Soft	357-400	Hard Gray Schist

TAYLOR DRILLING CO.

2310-12 Commerce Road
RAPID CITY, SOUTH DAKOTA 57702-8062

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KIM E. TAYLOR



TELEPHONE:
Office 605—348-3600
After Hours 605—341-5417
or 605—787-4989

City of Custer.....Cal Gas Test Well

0- 14 Fill Dirt & Concrete
14- 37 Black to Gray Schist
37-100 Gray Schist & Fine Mica
150-160 Rusty Colored Schist
160-200 Gray Schist
200-250 Gray Schist (still hard & smooth)
250-260 Rusty Schist
260-280 Gray Schist
280-295 Dark Schist
295-300 Schist & Mica
300-512 Dark Gray Schist
512-520 Schist...some pyrite
520-535 Schist
535-545 Gray graphitic Schist

TOTAL OF 5 GALLONS PER MINUTE MEASURED AT BOTTOM. WELL WAS PRESSURE GROUTED
FROM BOTTOM TO TOP WITH CEMENT TO PLUG WELL.

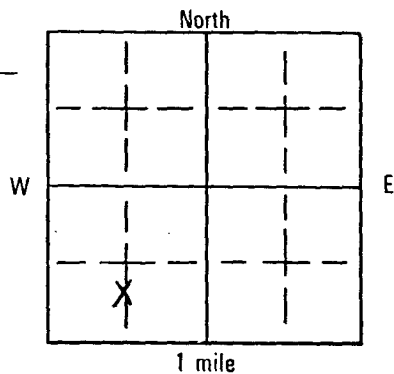
GRADE SCHOOL YARD TEST WELL.....

0- 5 Gravel
5- 10 Pegmatite
10- 40 Brown weathered Mica Schist
40- 85 Gray Mica Schist
85-100 Harder Schist (2 GPM)
100-110 Soft Schist
110-129 Schist w/Quartz
129-131 Soft Schist (18 GPM)
131-147 Hard Schist Gray
147-152 Softer Schist w/some Quartz
152-154 Broken (105 GPM)
154-167 Soft & Broken Gray Schist
167-194 Gray Schist (not very hard)
194-220 Broken very bad w/caving Schist & H₂O estimated flow @300+ GPM

Testing Iron levels @ 10 PPM Iron

SOUTH DAKOTA WATER WELL COMPLETION REPORT

10-85

Location SW 1/4 SW 1/4 Sec 24 Twp 35 Rg 4ECounty
CusterPlease mark well
location with
an "X"Custer Lumber Yard
Well #14Well Completion Date 6-15-89

PROPOSED USE:

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

Method of Drilling:

Air Rotary

CASING DATA:

☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>48</u> LB/FT	<u>12 3/4</u> IN	<u>0</u> FT	<u>135</u> FT	<u>22</u> IN
<u>36</u> LB/FT	<u>9 5/8</u> IN	<u>120</u> FT	<u>360</u> FT	<u>11</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUT:

Was the well grouted? ☒ YES ☐ NOTo what depth? 135 FEETWhat is grouting material? CementIf cement, number of sacks? 190Describe grouting procedure pressure grouted
through casingWhat was grout weight? 15 LB/GALSCREEN: ☒ Perforated pipe ☐ ManufacturedDiameter 9 5/8 IN Length 240 FEETMaterial steelSlot Size 3/8" Set From 140 Feet To 170 FeetSlot Size 3/8" Set From 235 Feet To 360 Feet

Slot Size _____ Set From _____ Feet To _____ Feet

Other information Torch cut slots in 9 5/8" linerWas a packer or seal used? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

Was well disinfected upon completion? ☒ YES ☐ NOExplain Chlorine solution circulated in wellBacteriological analysis ☒ YES ☐ NOLaboratory sent to Travis Labs

Well Owner:

Name City of CusterAddress 622 Crook St. Custer, SD 57730

Well Log:

Depth

Formation	From	To
Gravel + Clay	0	38
Gray Schist	38	105
Broken Schist	105	120
Gray Schist + Mica	120	165
Hard Schist	165	298
Broken area	235	245
Soft Broken Schist	298	320
fractured Schist	320	347
Hard Schist	347	360

STATIC WATER LEVEL 7 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☐ BailedDescribe: air tested @ 600+ gpm☐ Other

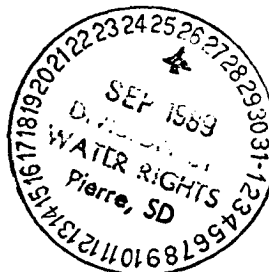
Pumping Level Below Land Surface

192 ft. After 12 Hrs. pumped 450 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

REMARKS:

This well was drilled under license # 331

And this report is true and accurate.

Drilling firm TAYLOR DRILLING COMPANY

Signature of License Representative:

Ralph Taylor

Signature of Well Owner:

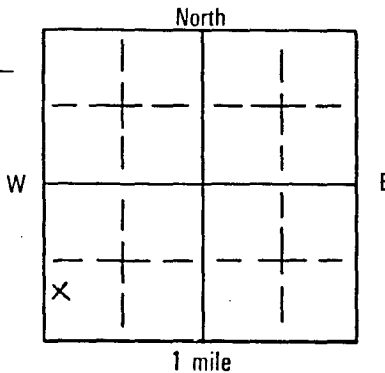
Date 9-20-89

SOUTH DAKOTA WATER WELL COMPLETION REPORT

10-85

Location SW 1/4 SW 1/4 Sec 24 Twp 35 Rg 4E

County

CusterPlease mark well
location with
an "X"Well #15 Berean
Church yard

1 mile

Well Completion Date 7-7-89

PROPOSED USE:

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

Method of Drilling:

Air Rotary

CASING DATA:

☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>48</u> LB/FT	<u>12 3/4</u> IN	<u>0</u> FT	<u>148</u> FT	<u>15</u> IN
<u>36</u> LB/FT	<u>9 5/8</u> IN	<u>120</u> FT	<u>400</u> FT	<u>11</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUT:

Was the well grouted? ☒ YES ☐ NOTo what depth? 148 FEETWhat is grouting material? cementIf cement, number of sacks? 45Describe grouting procedure pressure grouted
through casingWhat was grout weight? 15 LB/GALSCREEN: ☒ Perforated pipe ☐ ManufacturedDiameter 9 5/8 IN Length 280 FEETMaterial SteelSlot Size 3/8" Set From 175 Feet To 190 FeetSlot Size 3/8" Set From 235 Feet To 260 FeetSlot Size 3/8" Set From 290 Feet To 390 FeetOther information 9 5/8" liner is torch perforated at
the above intervalsWas a packer or seal used? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

Was well disinfected upon completion? ☒ YES ☐ NOExplain chlorine solution circulated in wellBacteriological analysis ☒ YES ☐ NOLaboratory sent to Travis Labs

Well Owner:

Name City of CusterAddress 622 Crook St. Custer, SD 57730

Well Log:

Depth

Formation	From	To
Gravel	0	15
Brown Schist	15	28
Gray Schist	28	55
Soft Gray Schist	55	60
Gray Schist	60	110
Hard Gray Schist	110	125
Soft Gray Schist	125	135
Gray Schist	135	195
Gray Schist w/ Quartz layers	195	215
Schist w/ some fractures & Quartz layers	215	280
Hard w/ some fracturing	280	314
Gray Schist (Hard & Soft layers)	314	338
Hard Gray Schist	338	400
fractured	346	357

STATIC WATER LEVEL 14 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:

☒ Pumpedair tested at 280 gpm☐ Bailed

Describe: _____

☐ Other _____

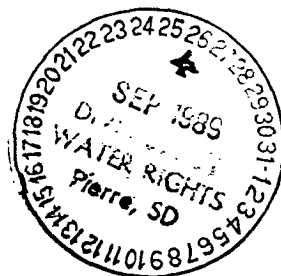
Pumping Level Below Land Surface

100 ft. After 11 Hrs. pumped 220 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

REMARKS:

This well was drilled under license # 331

And this report is true and accurate.

Drilling firm TAYLOR DRILLING COMPANY

Signature of License Representative:

Ralph Taylor

Signature of Well Owner:

Date 9-20-89

10-85

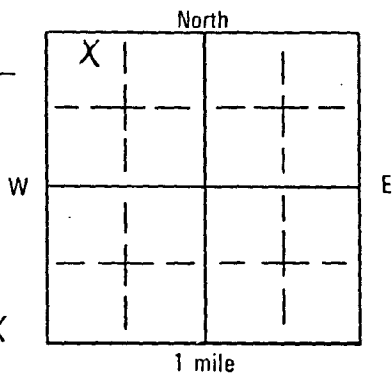
Date 9-20-89

SOUTH DAKOTA WATER WELL COMPLETION REPORT

10-85

Location NW 1/4 NW 1/4 Sec 25 Twp 35 Rg 4E

County

CusterPlease mark well
location with
an "X"Well #13Harbach ParkWell Completion Date June 18, 1989

PROPOSED USE:

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

Method of Drilling:

Air Rotary

CASING DATA:

☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>15</u> LB/FT	<u>5 1/2</u> IN	<u>0</u> FT	<u>140</u> FT	<u>6 3/4</u> 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? 140 FEETWhat is grouting material? CementIf cement, number of sacks? 10Describe grouting procedure pressure groutedthrough casingWhat was grout weight? 15 LB/GALSCREEN: ☐ Perforated pipe ☐ Manufactured

Diameter _____ IN Length _____ FEET

Material _____

Slot Size _____ Set From _____ Feet To _____ Feet

Slot Size _____ Set From _____ Feet To _____ Feet

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? _____

Was well disinfected upon completion? ☒ YES ☐ NOExplain chlorine solution circulated through holeBacteriological analysis ☒ YES ☐ NOLaboratory sent to Travis Lab

Well Owner:

Name City of CusterAddress 622 Crook St. Custer, SD 57730

Well Log:

Depth

Formation	From	To
gravel + boulders	0	38
quartz-mica schist	38	75
schist w/ much pyrite	75	110
mica schist	110	185
Schist w/ quartz layers	185	305
Hard Schist	305	360
Softer	360	367
Hard Schist	367	400

STATIC WATER LEVEL 29 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☐ Bailed

Describe: _____

☐ Other _____

Pumping Level Below Land Surface

1 ft. After _____ Hrs. pumped _____ GPM130 ft. After 10 Hrs. pumped 70 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

REMARKS:

This well was drilled under license # 331

And this report is true and accurate.

Drilling firm Taylor Drilling

Signature of License Representative:

Ralph Taylor

Signature of Well Owner:

Date

9-20-89

SOUTH DAKOTA WATER WELL COMPLETION REPORT

10-85

Location NW 1/4 SW 1/4 Sec 24 Twp 35 Rg 4E

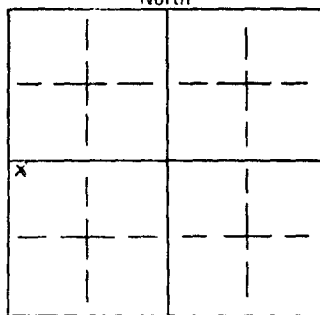
County

Custer

North

Please mark well location with an "X"

W



E

1 mile

Well # 12Well Completion Date 5-23-89

PROPOSED USE:

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

Method of Drilling:

AIR-ROTARY

CASING DATA:

☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>24</u> LB/FT	<u>7</u> IN	<u>0</u> FT	<u>147</u> FT	<u>8 3/4</u> 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? 147 FEETWhat is grouting material? NEAT CEMENTIf cement, number of sacks? 20Describe grouting procedure PRESSURE GROUTWhat was grout weight? 15 LB/GALSCREEN: ☐ Perforated pipe ☐ Manufactured

Diameter _____ IN Length _____ FEET

Material _____

Slot Size _____ Set From _____ Feet To _____ Feet

Slot Size _____ Set From _____ Feet To _____ Feet

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? _____

Was well disinfected upon completion? ☒ YES ☐ NOExplain CIRCULATED CHLORINE SOLUTIONBacteriological analysis ☐ YES ☒ NOLaboratory sent to DID NOT SET PUMP

Well Owner:

Name City of CusterAddress 622 Crook Street Custer, SD 57730

Well Log:

Depth

Formation

From

To

STATIC WATER LEVEL 0 Feet

If flowing: closed in pressure _____ PSI

GPM flow 0.5 through 7 inch pipeControlled by ☒ Valve ☐ Reducers ☐ Other

If other, specify _____

Can well be completely shut in? YES

WELL TEST DATA:

☒ Pumped☐ Bailed

Describe: _____

☐ Other

Pumping Level Below Land Surface

360 ft. After 12 Hrs. pumped 15-20 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

REMARKS: BORE HOLE WAS REAMED TO 8 3/4" AND 7" CASING WAS SET TO 147' IN THE EXISTING WELL ATTACHED IS THE LITHOLOGIC LOG PREPARED BY R&B DRILLING CO. WHEN THE WELL WAS FIRST DRILLED

This well was drilled under license # 331

And this report is true and accurate.

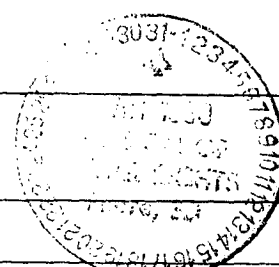
Drilling firm TAYLOR DRILLING COMPANY

Signature of License Representative:

Ralph Taylor

Signature of Well Owner:

Date

6/20/89

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
 County Custer) ss.

I, Terri Tuggle

certify that the attached printed Notice was taken
 from the Custer County Chronicle

A newspaper which during the whole time of publication of
 said notice herein after stated, has been and is printed and
 published in the _____

City of Custer

County of Custer and State of South Dakota;
 that the said notice was published in said newspaper on the
 following two dates:

1-9-91

1-16-91

Terri Tuggle
 (Signature)

Publisher
 (Title)

1-17-91
 (Date Signed)

Cost of Printing:

1-9-91 = 27.79

1-16-91 = 22.23

Total \$50.02



on Application No. 2107-2 to
 Appropriate Water and to Develop Water
 Reserved by Future Use Permit No. 1407-2
 Notice is given that the City of Custer,
 622 Crook Street, Custer, SD 57730 has filed
 an application for a water permit to
 appropriate a total of 1.98 cubic feet of water
 per second (cfs) from 4 wells (well No. 12 -
 0.05 cfs, well No. 13 - 0.12 cfs, well No. 14 -
 1.03 cfs, and well No. 15 - 0.78 cfs) and to
 place to beneficial use 0.50 cfs (well No. 10)
 of ground water reserved by Future Use
 Permit No. 1407-2. Well Nos. 10, 12, 13, 14,
 and 15 are 360, 1100, 400, 360, and 400 feet
 deep, respectively, and the wells are located
 in the NW 1/4 SE 1/4 section 28 (No. 10);
 NW 1/4 SW 1/4 section 24 (No. 12); NW 1/4
 NW 1/4 section 25 (No. 13); SW 1/4 SW 1/4
 section 24 (No. 14); SE 1/4 SE 1/4 section
 23 (No. 15); all in T3S-R4E. Water is to be
 used for municipal purposes by the City of
 Custer.

Pursuant to SDCL 46-2A-2, the Chief
 Engineer recommends APPROVAL of
 Application No. 2107-2 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. Unless a petition is filed
 opposing the application or the applicant
 files a petition contesting the chief
 engineer's recommendation, the Water
 Management Board will NOT CONDUCT A
 HEARING to consider this application and
 the chief engineer will issue the permit as
 recommended. Petitions filed in support of
 the application will NOT require the Board
 to hear the application.

Any person interested in opposing or
 supporting this application must file a
 written petition with BOTH the applicant
 and Chief Engineer. The applicant must also
 file a petition if opposed to the Chief
 Engineer's recommendation. The Chief
 Engineer's address is "Water Rights
 Division, 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 January 28,
 1991. 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.

For purposes of publishing 1) the notice
 of hearing on Application No. 2107-2 and 2)
 the chief engineer's recommendation, a
 special Board meeting is scheduled for
 February 7, 1991, at 9:00 am in Room 413,
 Joe Foss Building, 523 E Capitol, Pierre SD.
 If this application is opposed or the
 recommendation is contested, the February
 7, 1991, hearing date may be rescheduled for
 another Board meeting. If the hearing is
 rescheduled, notice of the time and place will
 be given by First Class Mail to the applicant
 and persons filing petitions. Anyone not
 filing a petition, but interested in attending
 the hearing, may contact the Division of
 Water Rights to confirm a hearing date and
 location. The February 7, 1991, hearing date
 will be automatically delayed for at least 20
 days upon written request to the Chief
 Engineer from the applicant or any interested
 person opposing the application. The request
 for an automatic delay must be filed by
 January 28, 1991.

If a hearing is held, the Chief Engineer's
 recommendation is not final or binding upon
 the Board. The Board is authorized to 1)
 approve, 2) approve with qualifications, 3)
 defer, or 4) deny this application based on
 the facts presented at the public hearing. Any
 hearing will be an adversary proceeding.
 Any person filing a petition and/or the
 applicant have the right to be represented by
 a lawyer and may present evidence or cross-
 examine witnesses according to SDCL 1-26.
 These and other due process rights will be
 forfeited if not exercised. Decisions of the
 Board may be appealed to the Circuit Court
 and State Supreme Court as provided by law.
 Contact the Water Rights Division to request
 copies of information pertaining to this

South Dakota

GREAT FACES. GREAT PLACES.

DEPARTMENT OF WATER & NATURAL RESOURCES

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

MAR 27 1991

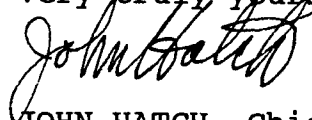
Anella Wright, Mayor
City of Custer
622 Crook Street
Custer, SD 57730

Dear Ms. Wright:

Enclosed is Water Permit No. 2107-2 authorizing construction of the water system and the application of water beneficial use, not exceeding the limits as specified in the Water Permit.

We will schedule an inspection so that the Water License may be issued to you, thus completing your acquisition of a Water Right.

Very truly yours,



JOHN HATCH, Chief Engineer
Water Rights Division
605 773-3352

enclosures



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

August 1, 2001

2107-2

Sue C Bennett, Finance Officer
City of Custer
622 Crook St
Custer SD 57730-1698

Dear Ms. Bennett:

On June 7, 2001 the investigation of the City of Custer's water use system, including the extent of application of water to beneficial use, as developed under Water Permit No. 2107-2, was completed by Donald E Stroup, a staff engineer with our program. The final water right document, the water license, can now be issued.

State law requires that we charge a \$50.00 fee for the investigation and issuance of the water license. Upon receipt of the \$50.00 fee, we will complete processing the water license. The check or money order for the fee should be made payable to the "Water Rights Program".

A licensed water right will be similar to a property right that can not be lost as long as the water use continues and the city abides by the permit requirements.

If you have any questions regarding the water permit, investigation of the water use system or payment of the fee, please contact Genny McMath with our program at (605) 773-3352.

Sincerely,

Karen Schlaak

Karen Schlaak
Environmental Scientist
Water Rights Program

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

ND 416882

Pierre, August 9, 2001

RECEIVED OF City of Custer, 622 Crook Street, Custer, SD 57730
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct
and to put water to beneficial use _____

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. 2107-2

50 00

Fee for Filing Transfer Form _____

Fee for Filing Extension Request _____

Fee for _____

(Any Other Work Provided by Law)

Total

50 00

By

Darland Erbe

Chief Engineer

gm

**Permit No. 2107-2
Custer County**

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

Other permit/license(s) associated with project: **257-2, 298-2, 470-2, 1251-2, 1924-2, 1963-2, 2143-2, 2144-2, 2145-2, & 2146-2**

Contact Person & Address: **John Kelly, Superintendent, City of Custer, SD**

Report Of Examination Of Works

On **June 7, 2001**, I made a thorough examination of the water use system constructed by the **City of Custer, SD** holder of Permit No. **2107-2**, bearing priorities of **January 10, 1977 for Well #10 and October 26, 1990 for Wells #12, #13, #14, and #15** authorizing the total combined diversion of **2.48** cubic feet per second (cfs) of **ground water** for **municipal** purposes, in **Custer County**.

Water Permit No. 2107-2 authorized the total withdrawal of 1.98 cfs from wells #12, #13, #14, and #15, and 0.50 cfs from well #10. Following is the status of these wells:

#	Date Drilled	Depth (ft)	Authorized Rate (cfs)	Status
12	1989	1120	0.05	Not Completed
13	1989	400	0.12	Not Pumped, High Iron Content
14	1989	400	1.03	Active – 420 gpm (0.936 cfs)
15	1989	400	0.78	Active – 340 gpm (0.758 cfs)
10	1989	500	0.50	Standby – 150 gpm (0.334 cfs)

The active and standby wells are in **good** condition. The points of diversions, **all in T3S R4E**, for the active and standby wells are:

- Well #14: SW¼ SW¼ 1214 feet East and 4488 feet South of the NW corner Section 24, Latitude W103.5926° Longitude N43.7698°
- Well #15: SE¼ SE¼ 4910 feet East and 4699 feet South of the NW corner Section 23, Latitude W103.5984° Longitude N43.7688°
- Well #10: NW¼ SE¼ 3220 feet East and 2904 feet South of the NW corner Section 28 Latitude W103.6454° Longitude N43.7595°

The active and standby wells are capable of withdrawing and conveying to the place of use **2.028 cfs combined total** of groundwater for **municipal use**. Water has been put to beneficial use to the maximum extent. **Wells #12 and #13** should be **considered abandoned and/or forfeited** and plugged in accordance with state statutes.

Review of Permit Qualifications And Regulations:

- 1) Special qualifications to permit being abided by: **Yes**
- 2) All structures, wells and lands on map: **Active (#14 & #15) and Standby (#10) wells shown on map.**
- 3) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period: **NA**
- 4) Exceptions to compliance are: **None**

Report On the Specifics of the System

Diversion Point Information:

- 1) Well Drilling Firm: **Taylor Drilling Co.**
- 2) No. of Wells: **3**
- 3) Depth(s): **Noted Above**
- 4) Well logs available: **Yes**

Casing:**Well #14:**

- 1) Diameter: **12.75** inches 0-135' 9.625 inches 120-360'
- 2) Length: **360** feet
- 3) Type: **Steel**

Well #15:

- 1) Diameter: **12.75** inches 0-148' 9.625 inches 1120-400'
- 2) Length: **400** feet
- 3) Type: **Steel**

Well #10

- 1) Diameter: **10.75** inches 0-154' 8.625 inches 143-375'
- 2) Length: **375** feet
- 3) Type: **Steel**

Screen:**Well #14**

- 1) Type: **Perforated Pipe**
- 2) Length: **240** feet
- 3) Static water level: **7** feet

Well #15

- 1) Type: **Perforated Pipe**
- 2) Length: **280** feet
- 3) Static water level: **14** feet

Well #10

- 1) Type: **Perforated Pipe**
- 2) Length: **232** feet
- 3) Static water level: **25** feet

Pump\ Motor:

- 1) Pump Make: **Unk**
- 2) Pump Model: **Unk**
- 3) Capacity: **Unk**
- 4) Motor Make: **Unk**
- 5) Motor Model No.: **Unk**
- 6) Horsepower rating: **Unk** hp

Distribution System:

- 1) Type: **Unk**
- 2) Size: **Unk** inches
- 3) Length: **Unk** feet

System Type:**Center pivot:**

- 1) Make: **NA**
- 2) Overall length: **NA** feet
- 3) Number of towers: **NA**
- 4) End gun: **NA**
- 5) High or low pressure: **NA**
- 6) Capacity: **NA** GPM

Gun:

- 1) Make: **NA**
- 2) Nozzle size: **NA** inches
- 3) Capacity: **NA** GPM
- 4) Hose size: **NA** inches

Towline:

- 1) Length: **NA** feet
- 2) Diameter: **NA** inches
- 3) Spacing of sprinklers: **NA** feet

Solid Set:

- 1) Length: **NA** feet
- 2) Diameter of pipe: **NA** inches
- 3) Sprinkler spacing: **NA** feet

Sideroll:

- 1) Length: **NA** feet
- 2) Diameter of pipe: **NA** inches
- 3) Sprinkler spacing: **NA** feet

Siphons:

- 1) Size: **NA** inches
- 2) Number: **NA**

Dam Information

- | | |
|--|--|
| 1) Height to crest: NA feet | 2) Height to primary spillway or outlet: NA feet |
| 3) Height to secondary spillway: NA ft | 4) Crest width: NA feet |
| 5) Crest length: NA feet | 6) Spillway length: NA feet |
| 7) Spillway width: NA feet | 8) Approx. storage: NA ac-ft |
| 9) Outlet tubes: | |
| a) diameter: NA inches | b) type: NA |
| c) valved: NA | d) valve type: NA |

Chemigation:

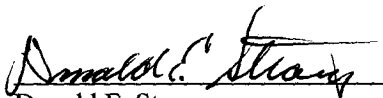
- | | |
|--|------------------------------|
| 1) Does chemigate: NA | 2) Main line check valve: NA |
| 3) Inspection port/air relief: NA | 4) Low pressure drain: NA |
| 5) Discharge is 20' from source: NA | 6) Interlock type: NA |
| 7) Injection pump type: NA | 8) Injection check valve: NA |
| 9) Injection line check valve or positive displacement pump: NA | |
| 10) All chemigation equipment appears to be installed in the proper position and complies with chemigation laws and rules: | |
| NA | |

COMMENTS:

Applicable permit requirements are being complied with and the license should be issued for the as built system as follows:

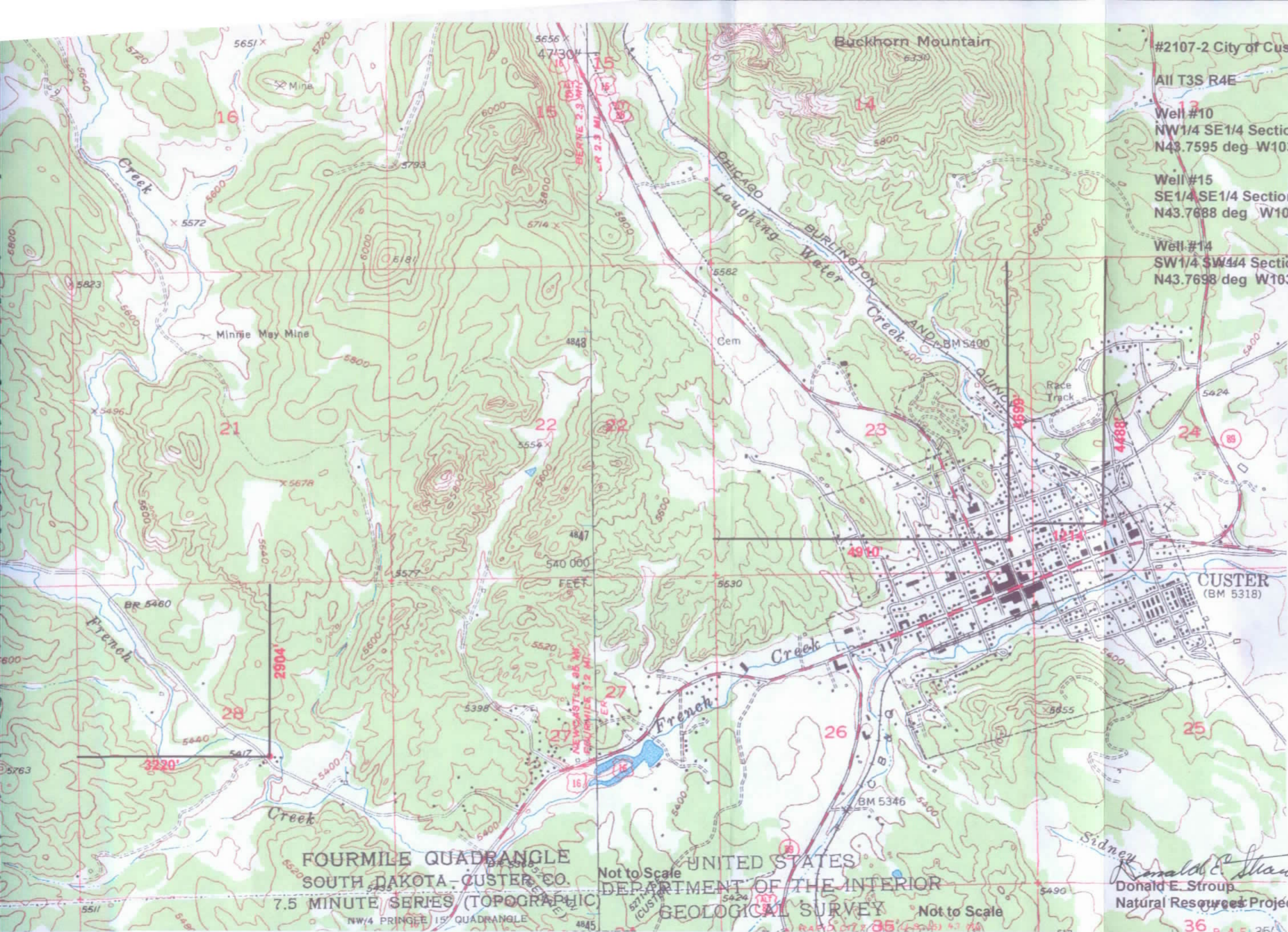
- #14 Well Active – 420 gpm (0.936 cfs)
- #15 Well Active – 340 gpm (0.758 cfs)
- #10 Well Standby – 150 gpm (0.334 cfs)

Wells #12 and #13 should be considered abandoned and/or forfeited and plugged in accordance with state statutes.


Donald E. Stroup

Natural Resources Project Engineer
DENR, Water Rights Program

8/10/01
Date



#2107-2 City of Custer, SD

All T3S R4E

Well #10
NW1/4 SE1/4 Section 28
N43.7595 deg W103.6454 deg

Well #15
SE1/4 SE1/4 Section 23
N43.7688 deg W103.5984 deg

Well #14
SW1/4 SW1/4 Section 24
N43.7698 deg W103.5926 deg

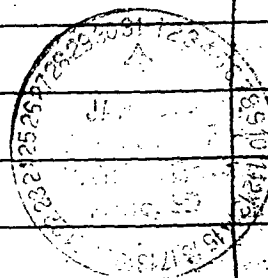
FOURMILE QUADRANGLE
SOUTH DAKOTA - CUSTER CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 PRINGEE 15' QUADRANGLE

Not to Scale
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Not to Scale

Donald E. Stroup
Donald E. Stroup
Natural Resources Project Engineer

WATER WELL TEST for CITY OF CUSTER West End of FOOT BALL FIELD

FOOT BALL FIELD				WATER MEASURE GPM AIR LIFTING
0-5	BROWN SILTY SHIST			
5-10	GRAY SHIST	LIGHT	} SOFT DRILLING SET 20 FT SURFACE	
10-15	GRAY SHIST	LIGHT		
15-20	GRAY SHIST	LIGHT		
20-25	LIGHT GRAY SHIST.			
25-30	"	"	"	
30-35	"	"	"	
35-40	LIGHT GRAY SHIST w/THIN GRANITE LENS			
40-45	DARK GRAY SHIST + TOP OF GRANITE			
45-50	GRANITE + MICA			
50-55	GRANITE + MICA			DAMP SPOT (SS TRACE)
55-60	DARK GRAY SHIST			
60-65	LIGHT GRAY SHIST			65 FT DAMP SPOT
65-70	"	"	"	
70-75	"	"	"	
75-80	"	"	"	
80-85	BROWN SHIST w 3 FT LENS MICA			TRACE OF MOISTURE 25 FT
85-90	GRAY + BROWNISH SHIST			
90-95	"	"	"	
95-100	"	"	"	
100-105	REDISH BROWN SHIST			
105-110	BROWNISH SHIST to MICA + QUARTZ			
110-115	MOSTLY QUARTZ w/ MICA			1/15 1 GPM measure
115-120	BROWNISH QUARTZITE SAND			1.5 ft
120-125	DARK + WHITE QUARTZITE SAND w/ MICA			
125-130	"	"	"	



130-135 BROWNISH QUANTZITE /w MICA

135-140 BROWN to GREY SHIST

140-145 DARK GREY SHIST

145-150 DARK GREY SHIST

150-155 DARK GREY SHIST

155-160 DARK GREY SHIST

160-165 DARK GREY SHIST

165-170 MICA-QUANTZITE SAND (WHITE to BLACK)

170

5 GPM
MEASURED

170-175 BROWNISH + BLACK SHIST

175-180 DARK GRAY SHIST THIN QUANTZITE LAYERS

180

ADD 2 GPM
17 GPM AT SURFACE

180-185 DARK GRAY SHIST

185-190 DARK GREY SHIST

190-195 WHITE QUANTZ + MICA

195-200 LIGHT GREY QUANTZ SAND w/MICA

200-205 LIGHT GREY QUANTZ SAND w/MICA

205-210 LIGHT GREY QUANTZ SAND to BLACK SHIST some MICA

210-215 BLACK SHIST

215-220 BLACK SHIST

220-225 BLACK SHIST

225-230 BLACK SHIST

230-235 BLACK SHIST

235-240 BLACK SHIST

240-245 BUTTER to DK GREY SHIST

245-250 BLACK SHIST

250-255 " "

255-260 " "

260-265 BLACK SHIST w THIN GRANITE LENS

265-270 BLACK SHIST " " "

270-275 BLACK SHIST " " "

275-280 BLACK SHIST " " "

280-285 BLACK SHIST

285-290 BLACK SHIST

290-295 BLACK SHIST

295-300 BLACK SHIST

300-305 BLACK SHIST

305-310 BLACK SHIST

310-315 BLACK SHIST

315-320 DARK GREY SHIST

320-325 DARK GREY SHIST w MICA BED

325-330 MICA + GRANITE WHITE

330-335 GRANITE WHITE

335-340 SALT & PEPPER SHIST + MICA

340-345 DARK GREY SHIST w QUARTZITE SAND SET

345-350 " " " " " SET

350-355 " " " " " SET

355-360 " " " " " SET

360-365 " " " " " MOM

365-370 LIGHT GREY SHIST QUARTZITE SAND MICA MOM

370-375 " " " " " MOM

375-380 " " " " " HANA

380-385 " " " " " HANA

385-390 QUARTZITE SAND / MICA / LIGHT GREY to WHITE HANA

ZONE INTERBEDDED
WITH THIN
GRANITE LENS

ADD 5 GPM
MEASURE 12

ADD 3 GPM
MEASURE 15

ADD 15 GPM

ADD 15 GPM
MEASURE 30

390-395 MICA GRANITE + QUANTZITE SAND

395-400 GREY GNEISS + QUANTZITE SAND

400-405 LIGHT GREY QUANTZITE SAND

405-410 " " " "

410-415 " " " "

415-420 " " " "

420-425 LIGHT GREY/WHITE QUANTZITE SAND

425-430 WHITE QUANTZITE SAND /W MICA

430-435 WHITE QUANTZITE SAND

435-440 GREY " "

440-445 LIGHT GRAY QUANTZITE SAND

445-450 " " " "

450-455 " " " "

455-460 LIGHT GREY to WHITE QUANTZITE SAND /MICA

460-465 LIGHT GREY GNEISS + QUANTZITE SAND

465-470 DARK GREY GNEISS SOME Q SAND

470-475 " " " " "

475-480 " " " " " /MICA GNEISS

480-485 DARK GREY GNEISS /W QUANTZITE SAND /MICA

485-490 WHITE QUANTZITE SAND + MICA

490-495 WHITE QUANTZITE SAND /MICA /SOME GNEISS

495-500 GREY GNEISS / QUANTZITE SAND

500-505 GREY GNEISS TO QUANTZITE SAND /MICA

505-510 QUANTZITE /MICA to GNEISS

510-515 GREY GNEISS

515-520 GREY GNEISS

APP. 10 GPM
MEASURED TO

520-525 Grey SHIST w/ QUANTZITE SAND
 525-530 Grey SHIST w/ thin layer QUANTZITE
 530-535 Grey SHIST
 535-540 Grey SHIST to QUANTZITE SAND (WHITE)
 540-545 QUANTZITE SAND WHITE
 545-550 QUANTZITE SAND WHITE
 550-555 QUANTZITE SAND WHITE
 555-560 QUANTZITE SAND WHITE
 560-565 QUANTZITE SAND to Grey SHIST
 565-570 " " " "
 570-575 " " " "
 575-580 " " " "
 580-585 " " " "
 585-590 " " " "
 590-595 " " " "
 595-600 " " " "
 600-605 Grey SHIST
 605-610 Grey SHIST
 610-615 Grey SHIST
 615-620 Grey SHIST to QUANTZ SAND
 620-625 Grey QUANTZ SAND
 625-630 Grey QUANTZ SAND
 630-635 Grey QUANTZ SAND
 635-640 Grey QUANTZ SAND w/ mica + Black Pieces
 640-645 Light Grey QUANTZ SAND / mica
 645-650 Light Grey QUANTZ SAND / mica

Soft zone

(22)

650-655 LIGHT GREY to WHITE QUANTZ SAND / mica

655-660 LIGHT GREY QUANTZ SAND

660-665 LIGHT GREY to WHITE QUANTZ SAND

665-670 DARK GREY QUANTZ SAND / SLIST

670-675 DARK GREY QUANTZ SAND / SLIST

675-680 GREY QUANTZITE SAND / SLIST

680-685 GREY QUANTZITE SAND / SLIST

685-690 GREY QUANTZITE SAND / SLIST

690-695 GREY QUANTZITE SAND / SLIST

695-700 GREY QUANTZ SAND + SLIST

700-705 GREY QUANTZ SAND + SLIST

705-710 GREY QUANTZ SAND + SLIST

710-715 GREY QUANTZ SAND + mica SLIST

715-720 GREY QUANTZ SAND + mica SLIST

720-725 GREY SLIST + QUANTS SAND

725-730 DARK GREY SLIST

730-735 DARK GREY SLIST

735-740 DARK GREY SLIST

740-745 DARK GREY SLIST

745-750 DARK GREY SLIST / QUANTZ SAND

750-755 DARK GREY SLIST / QUANTZ SAND

755-760 DARK GREY SLIST

760-765 DARK GREY SLIST

765-770 DARK GREY SLIST thin layer QUANTZITE

770-775 DARK GREY SLIST to LIGHT GREY QUANTZITE

775-780 LIGHT GREY QUANTZITE to BLACK SLIST

780-785 LIGHT GREY QUANTZITE/MICA / GREY to BROWNISH SHIST

785-790 LIGHT GREY QUANTZITE SAND/MICA

790-795 LIGHT GREY QUANTZITE /MICA

795-800 LIGHT GREY QUANTZITE + MICA

800-805 LIGHT GREY QUANTZITE/MICA

805-810 LIGHT GREY QUANTZITE/MICA/GRANITE

810-815 GRANITE

815-820 GRANITE/MICA to SHIST DARK GREY

820-825 DARK GREY SHIST / LIGHT GREY QUANTZITE

825-830 GREY QUANTZITE to WHITE QUANTZITE

830-835 GRANITE

835-840 GRANITE to GREY SHIST

840-845 DARK GREY SHIST

845-850 GREY SHIST to LIGHT GREY QUANTZITE

850-855 LIGHT GREY QUANTZITE SAND

855-860 DARK GREY QUANTZITE SAND

860-865 LIGHT GREY QUANTZITE SAND

865-870 LIGHT GREY QUANTZITE SAND/MICA

870-875 DARK GREY SHIST

875-880 GREY SHIST

880-885 GREY SHIST

885-890 GREY QUANTZITE SAND/MICA

890-895 GREY QUANTZITE SAND/MICA

895-900 GREY QUANTZITE SAND/MICA

900-905 GREY QUANTZITE SAND

905-910 GREY QUANTZITE SAND/MICA

STILL

40 GPM

STILL

40 GPM

910-915 GRANITE / QUANTZ SAND / MICA
915-920 LIGHT GREY QUANTZITE SAND
920-925 LIGHT GREY QUANTZITE SAND
925-930 GRANITE / QUANTZ SAND / MICA
930-935 GRANITE / QUANTZ SAND / MICA
935-940 GRANITE / MICA
940-945 GRANITE to QUANTZITE SAND
945-950 QUANTZITE SAND / MICA
950-955 DARK GREY SCHIST
955-960 GREY SCHIST
960-965 GREY SCHIST
965-970 GREY SCHIST
970-975 GREY SCHIST
975-980 GREY SCHIST
980-985 GREY SCHIST to GRANITE
985-990 GRANITE
990-995 GRANITE to SCHIST
995-1000 GREY SCHIST / MICA
1000-1005 GREY SCHIST
1005-1010 GREY SCHIST
1010-1015 GREY SCHIST
1015-1020 GREY SCHIST
1020-1025 GREY SCHIST
1025-1030 GREY SCHIST
1030-1035 GREY SCHIST
1035-1040 LIGHT GREY SCHIST / QUANTZ SAND

STILL
40 6 PM

1040-1045 LIGHT GRAY GNEISS / BROWNISH SLIST

1045-1050 GRANITE / MICA

1050-1055 GRANITE / MICA

1055-1060 GRANITE / MICA

1060-1065 GRAY SLIST

1065-1070 GRAY GNEISS

1070-1075 GRAY SLIST

1075-1080 GRAY SLIST / GRANITE / MICA

1080-1085 GRAY SLIST / GRANITE / MICA

1085-1090 GRANITE / MICA

1090-1095 GRANITE / MICA

1095-1100 GRANITE / MICA - GRAY SLIST

1100-1105 GRAY SLIST

1105-1110 GRANITE / MICA

1110-1115 GRANITE / MICA

1115-1120 GRAY SLIST TO

470 GPM

NO INCREASE

SINCE 485

Drilling Log on Custer Test

OCT-17-1988 MOVED EQUIPMENT to JOB SITE + SET UP
DRILLED 0-20 FT SET 20 FT 6" PVC WELL CASING
FOR SURFACE PIPE

POT ON 5 1/8 NEW BUTTON BIT + STARTED DRILLING
20 FT to 100 FT TO FOR THE DAY SOME DAMP
AREAS IN TOP 100 FT BUT NO MEASURABLE WATER

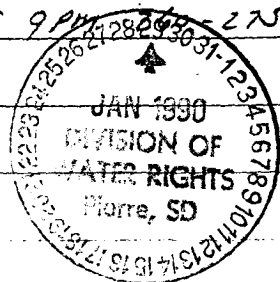
OCT-18-1988 DRILLED 100 FT to 175 FT DRILL STEM BROKE
4 PM DID NOT HAVE PROPER FISHING TOOL FINISHED FOR
DAY, PICKED UP 5 GPM FLOW 170-175 FT HAD A
1 GPM FLOW FROM 115 FT

OCT-19-1988 FISHED OUT BROKEN STEM FROM HOLE AND NEEDED
MACHINE SHOP REPAIR NO DRILLING

OCT-20-1988 TRIPPED IN BIT to 175 AND STARTED DRILLING
DRILLED TO 240 FT NO INCREASE IN WATER FLOW
STILL 7 GPM DRILLING MOM to HARD.

OCT-21-1988 COULD NOT DRILL to DAY. JURY DUTY

OCT-22-1988 TRIPPED NEW 5 1/8 BUTTON BIT to BOTTOM 240
STARTED DRILLING, PICKED UP APPROX 8 9 PM
TO FOR THE DAY AT 300



OCT-24-88 STARTED DRILLING AT 300 DRILLING THROUGH GRANITE & QUARTZITE
SAND SOME SHIST PICKED UP NO MORE WATER
TO FOR DAY AT 340

OCT-24-88 STARTED DRILLING 340 DRILLING SOME WHAT EASIER
SOME SOFT SPOTS / 385 to 395 HARD AREA SEEMED
FRACTURED PICKED UP 15 GPM MEASURED 30 GPM TOTAL
TO AT 400 FT FOR DAY

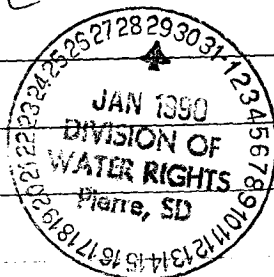
OCT-25-88 STARTED DRILLING 400 FT MOSTLY QUARTZITE SAND
CEMENTED & HARD DRILLING, BIT QUIT AT
455 TRIPED OUT FOR BIT CHANGE AND TO WELD
UP REAMERS

OCT 26 TRIPED BIT TO 455 FT CHANGED TO 5"
FROM 5 1/8 DRILLING STILL SLOW IN QUARTZITE
SAND AND SHIST TO FOR THE DAY AT 470.
MADE TRIP TO GILLETTE FOR GLASS

OCT 27 STARTED DRILLING 470 PICKED UP (10 GPM
BETWEEN 485-495 MICHA & QUARTZ LENS) TO 500 DAY

OCT 28 STARTED 500 FT DRILLED 530 FT (HARD)

OCT 29 } off
OCT 30 }



OCT 31 88 DRILLED 530-555 HAND MOSTLY QUANTITE
PULLED BIT #3 BEARINGS OUT

NOV 1-88 TRIPPED NEW 5" BIT TO BOTTOM STARTED DRILLING
555 TO FOR DAY 580 HAND DRILLING

NOV 2 STARTED 580 DRILLED TO 605 HAND DRILLING

NOV 3 TRIPPED BIT AND PUT ON NEW 5"
BOTTOM STARTED DRILLING 605' TO FOR DAY
AT 620

NOV-4 SWITCHED TO DRILLING WITH WATER STARTED
AT 620 TO 650 FOR DAY DRILLING A LITTLE EASIER

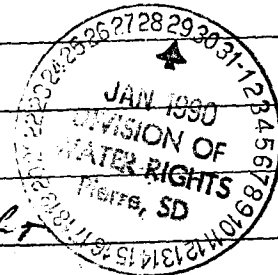
NOV-5 } OFF
NOV 6 }

NOV 7-88 STARTED AT 650 DRILLED TO 700 FT
PULLED BIT OUT

NOV 8-88 TRIPPED NEW BIT IN TO 700 AIR LIFT
STILL AT 40 GPM STARTED DRILLING 700 TO
740 MOSTLY JUST EASIER.

NOV 9-88 STAND PIPE WASHED OUT ON RIG DOWN FOR REPAIRS

NOV-10 88 STARTED DRILLING 740 TO 780 FOR DAY
MOSTLY JUST



NOV 11 STARTED DRILLING 780 TO 800 DRILLING
HANDS MOSTLY QUANTZITE

NOV-12 OFF.

NOV-13 STARTED DRILLING 780 TO FOR DAY 815
DRILLING QUANTZITE & GRANITE HAND

NOV-14 OFF WEATHER

NOV-15 OFF WEATHER

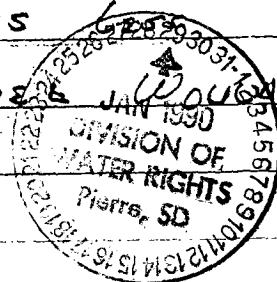
NOV-16 BRITTED FOR NEW BIT #7 STARTED
DRILLING 815. TO FOR DAY 905
DRILLING EASER AIR LIFTED HOLE STILL 40 GPM

NOV-17 STARTED 905 DRILLED TO 1015 DRILLING EASER
BIT CHANGE AT 1015 AIR LIFTED HOLE STILL
40 GPM

NOV-18 STARTED DRILLING 1015 DRILLED TO 1120
DRILLING EASER MOSTLY SLIST, AIR LIFT
HOLE MEASURED 40 GPM.

NOV-19 TESTED WELL AGAIN STILL MEASURED
40 GPM TEST HOLE TO AT 1120
MOVED OFF HOLE

NOTE STATIC LEVEL RECOVERS TO 240 FT
IN MINUTES BUT IS SLOW TO COME
TO SURFACE HOLE FREE FLOWS
THAN QT MIN. PUMPING LEVEL
B2 400-500 FT.

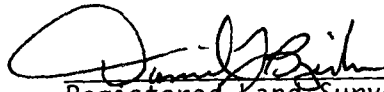


MAP TO ACCOMPANY WATER RIGHT PERMIT APPLICATION

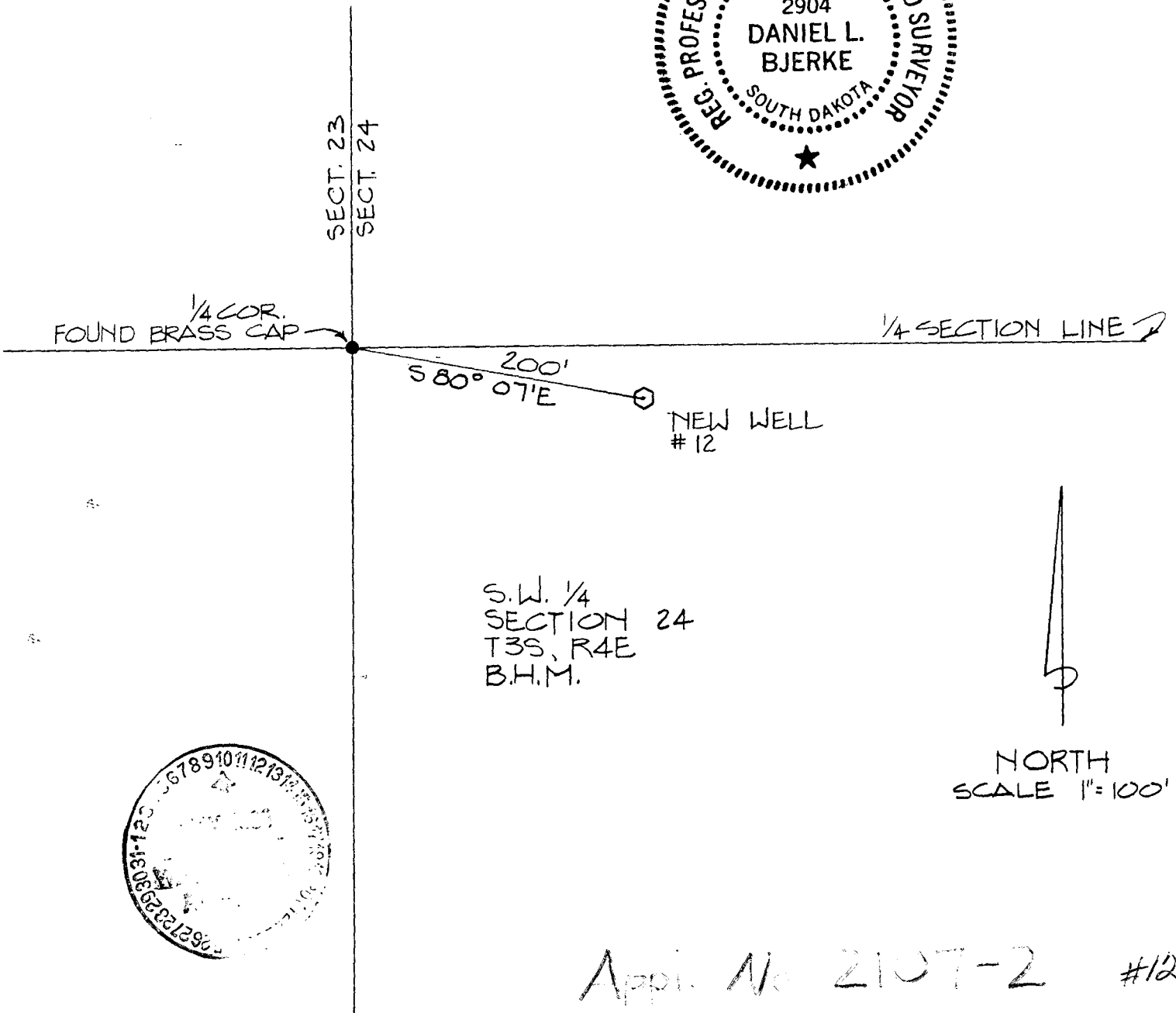
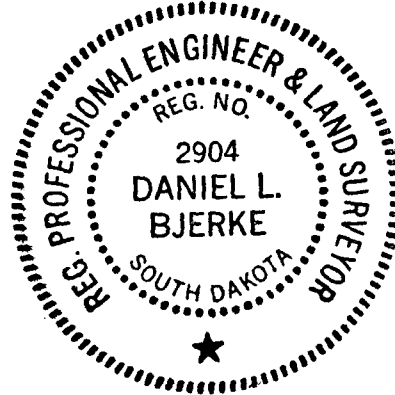
WELL IS LOCATED IN THE SW $\frac{1}{4}$, SECTION 24, T3S, R4E, BHM, CUSTER COUNTY, SOUTH DAKOTA.

CERTIFICATE OF SURVEYOR

I, Daniel Bjerke, Registered Land Surveyor in the State of South Dakota, hereby certify that at the request of the City of Custer, I have surveyed the well location as shown on the map below and that this map is a true and correct representation of the survey.



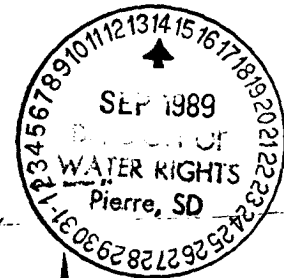
Registered Land Surveyor No. 2904



Appl. No. 2107-2 #12

PROPOSED WELL IS LOCATED IN THE SE CORNER OF LOT 7, BLOCK 107 OF THE CUSTER TOWNSITE
IN NW $\frac{1}{4}$ SECTION 25, T3S, R4E BHM CUSTER COUNTY, SOUTH DAKOTA

PROPOSED WELL IS LOCATED IN THE SE CORNER OF LOT 7, BLOCK 107 OF THE CUSTER TOWNSITE
IN NW $\frac{1}{4}$ SECTION 25, T3S, R4E BHM CUSTER COUNTY, SOUTH DAKOTA

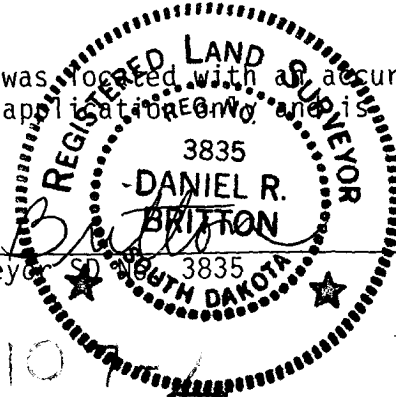


NO SCALE

PROPOSED WELL LOCATION

The location of the proposed well, as shown on this map, was located with an accuracy sufficient to meet the requirements of this water permit application and is intended for no other use.

Daniel R.
Registered Land Surveyor



Appl 11 210

-1115

13

JOHN PAUL GRIES

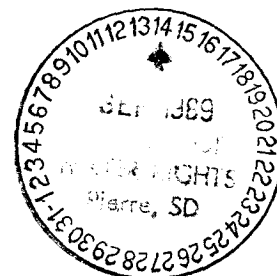
Consulting Geologist

238 ST. CHARLES STREET

RAPID CITY, SOUTH DAKOTA

March 2, 1989

City of Custer, Test well in Harbach Park
Drilled February 1989 by Taylor Drilling Co.
Samples studied and described by J. P. Gries



- 0 - 40 surface and bedrock, no samples retained
45 quartz-mica schist, pyritic, firm, unweathered
60 schist, same, drills to coarse chunks, still some pyrite
70 schist, same and some yellow ochrous clay
75 schist, same with some coarse quartz
85 schist, same, much pyrite
95 schist, same with coarse quartz and some clay
100 schist, same, drills to coarse chunks
125 schist, some yellow ochrous material
130 schist, similar, mica in thin blades, gives fibrous appearance
185 schist, still some pyrite; mica is golden yellow in part
195 schist, same, more coarse quartz
205 schist, coarse, platy, drills to fragments
210 schist, same, much coarse quartz
290 schist, same, platy, with mica blades; traces pyrite
305 schist, finer grained, pyritic. Total depth

Note: No pegmatite veins encountered; the schist rock is all fresh and unweathered. I cannot tell from the cuttings where the water is coming in. The traces of yellow ochrous clay may be washing in from fractures which serve as water courses.

The driller made measurements of water yield every time he added drill pipe. He determined the number of seconds to fill a 5-gallon bucket. His records, below, suggest that the majority of the water is entering between 145 and 205 feet. The driller early determined that about 15 gpm of surface water was still entering the well. Thus 15 gpm should be subtracted from the yields below to give true production after the surface water is cemented off.

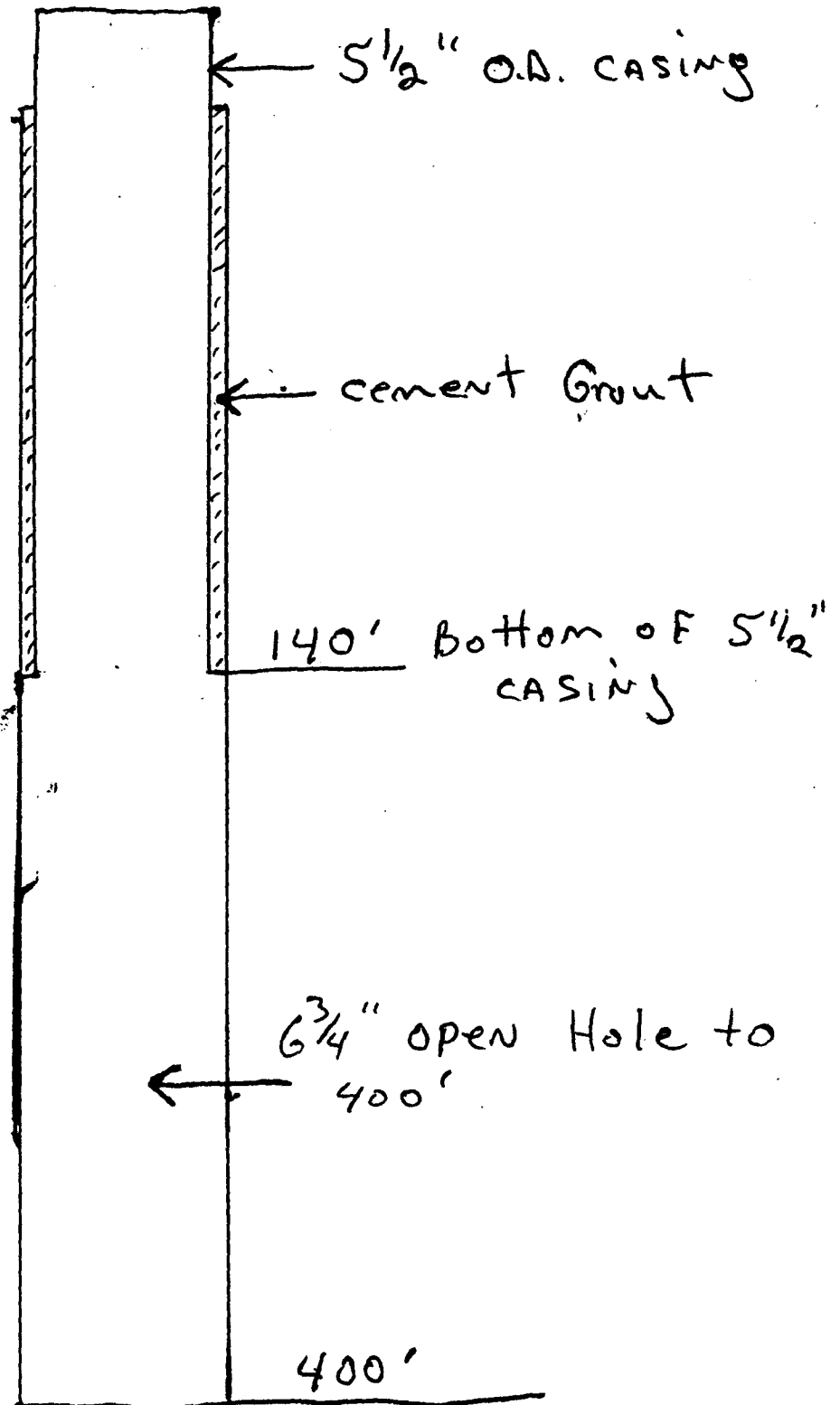
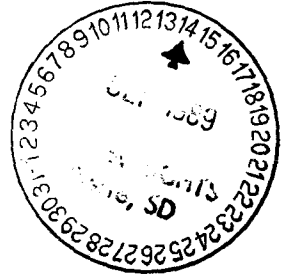
Depth feet	Seconds to fill bucket	Total yield	corrected yield
125	16.5	22 gpm	7 gpm
145	18.3	20	5
165	8.0	45	30
185	7.0	51	32
205	5.5	66	51

to 305 no increase in water.

#13

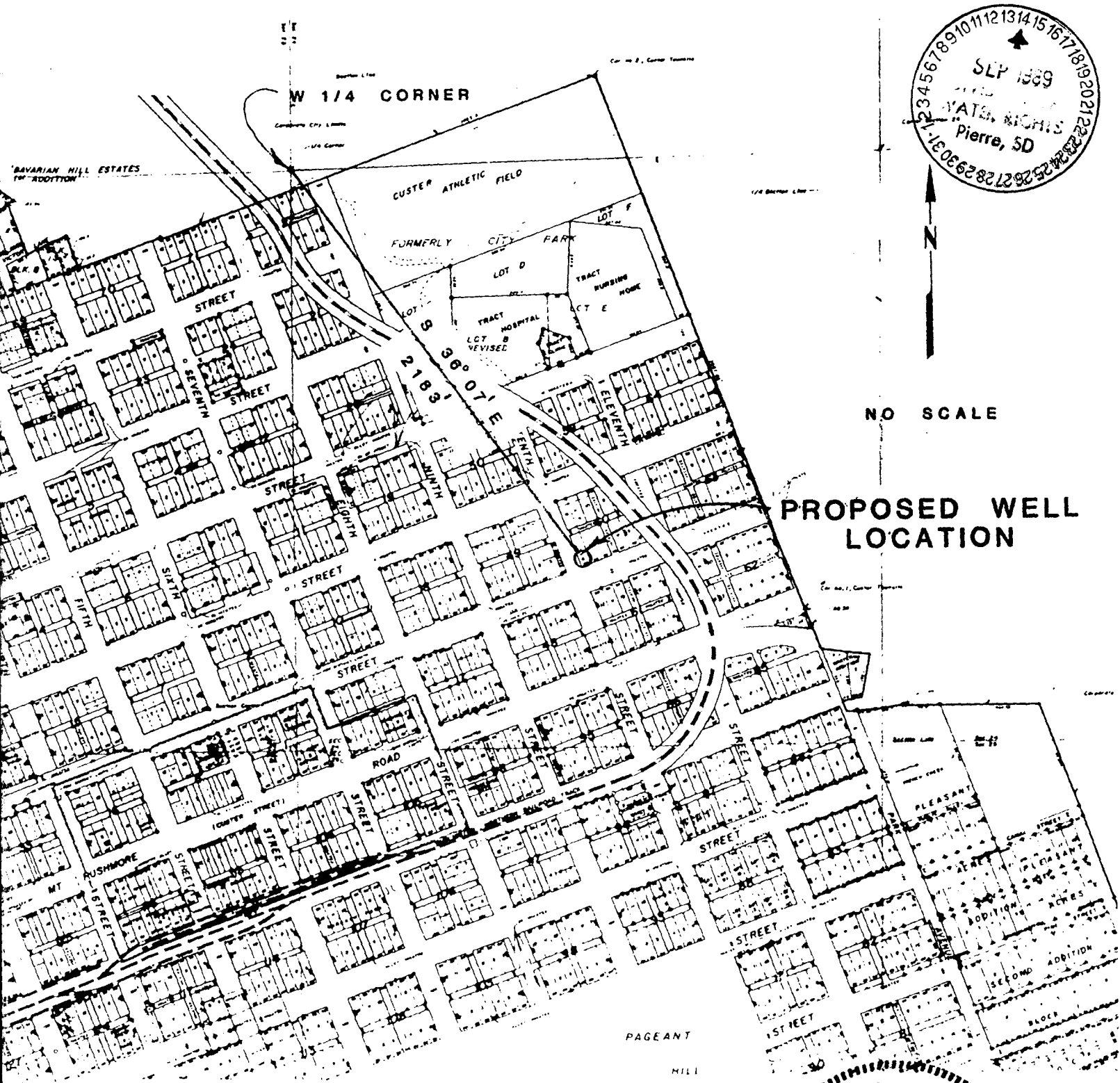
City of Custer

Harbach Park



MAP TO ACCOMPANY WATER RIGHT APPLICATION

PROPOSED WELL IS LOCATED IN THE SOUTHWEST CORNER OF LOT 1, BLOCK 60 OF CUSTER TOWNSITE IN THE SOUTHWEST 1/4 OF SECTION 24, T3S, R4E, BHM CUSTER COUNTY, SD.



The location of the proposed well, as shown on this map, was located with an accuracy sufficient to meet the requirements of this water permit application and is intended for no other use.

Daniel R. Britton
 Registered Land Surveyor SD No. 3835



Appl No 2107-2 #14

JOHN PAUL GRIES

Consulting Geologist

238 ST. CHARLES STREET

RAPID CITY, SOUTH DAKOTA



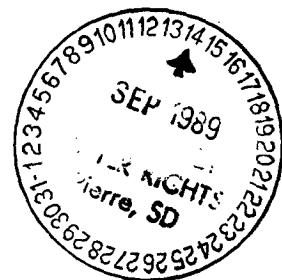
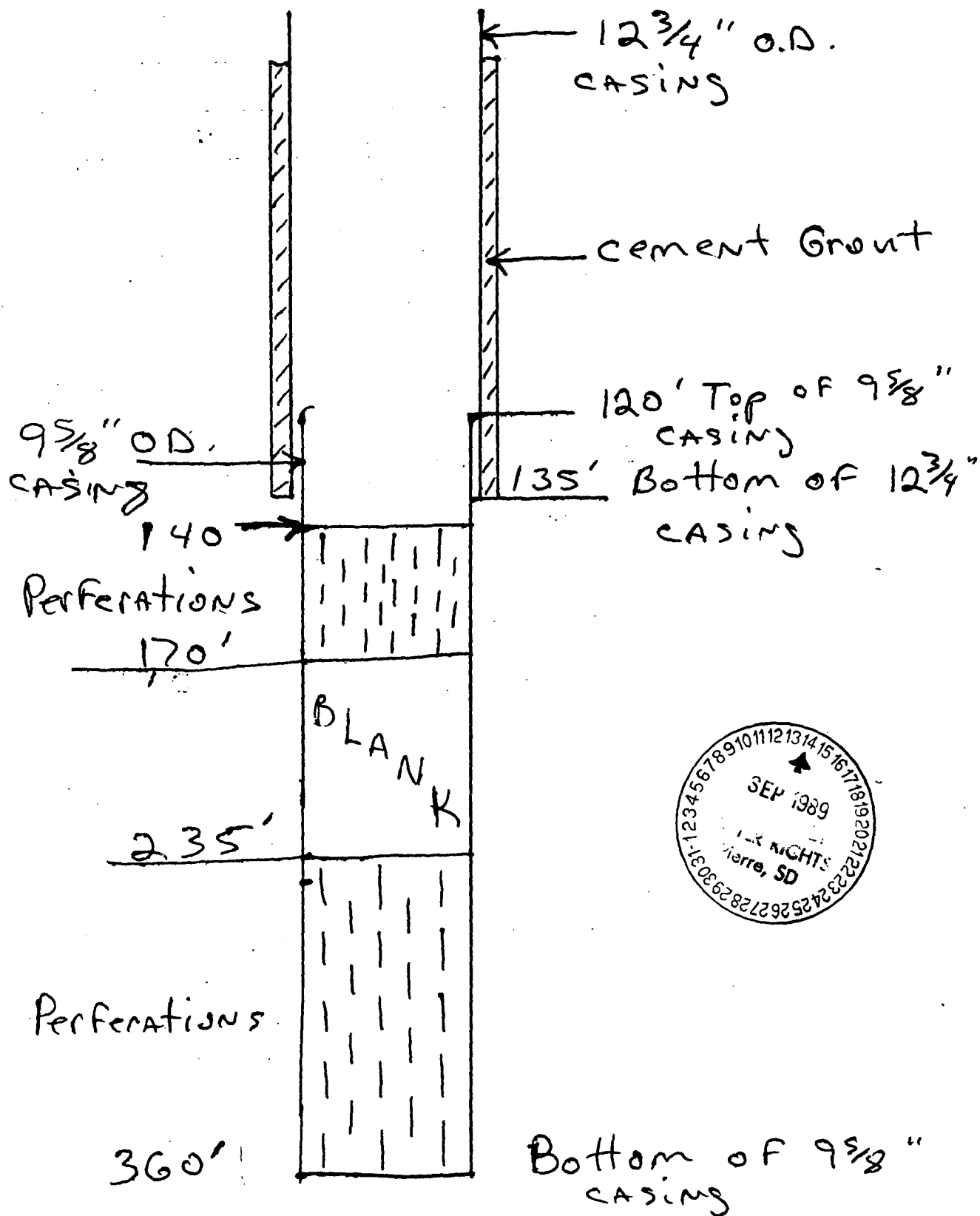
City of Custer Well #14. Sawmill property
850 FSL, 1250 FWL sec. 24, T. 3 S., R. 4 E
Drilled May 1989 by Taylor Drilling Co., Rapid City
Cuttings described by J. P. Gries

- 0 - 42 top soil and gravel
- 100 schist, samples not examined
- 110 schist consisting of quartz, muscovite and biotite mica. Cuttings range from light gray where mica is mostly muscovite, to dark gray where the black biotite is dominant.
- 115 schist, same, medium gray, slightly iron stained
- 125 schist, same but relatively fresh and unweathered
- 130 schist, same with traces of pyrite; drills to small rock fragments
- 135 schist like 125
- 140 schist, same, slightly iron stained; drills to discrete mineral grains
- 150 schist, same, but some rocky fragments in cuttings
- 165 schist, same but much iron staining
- 170 schist, very little iron staining; some drills to fragments
- 180 schist, medium gray, fresh; some drills to chips
- 185 schist, medium gray, drills to discrete grains
- 190 schist, fresh to slightly stained along fractures, drills to broken chunks
- 195 schist, fresh, drills to broken chunks
- 200 schist, more biotite, fresh, drills to discrete grains
- 205 schist, fresh, much pyrite; drills to free grains
- 210 schist, same, and some very fine grained schist, fresh, drills to fragments
- 215 schist, fine grained, trace of pyrite; drills to fragments
- 220 schist, same plus some coarse quartz grains
- 225 schist, same, much pyrite; drills to fragments
- 230 schist, fine to coarse grained, some iron staining
- 235 schist, fine grained, iron stained, drills to fragments
- 240 schist, coarse grained, mostly fresh; trace coarse quartz
- 245 schist, same, trace pyrite. Driller reports that the material is broken and flows into hole. Blows about 200 gpm, but with much detrital material. Doesn't appear to clear up. (Later, driller thought perhaps this material was coming from up the hole, perhaps around 145 feet)
- 255 schist, mostly quartz and muscovite mica. Fresh but broken, drills to chunks to 1". Sample taken before setting casing @ 13'
- 265 schist, fresh, drills to discrete particles. No chunks since reaming and setting casing
- 270 schist, fresh, less biotite
- 285 schist, both muscovite and biotite, drills to fine discrete grains
- 290 schist, same but slightly iron stained
- 295 schist same but no stain
- 315 schist, same but with slight staining
- 320 schist, same but darker, more biotite
- 330 schist same but less biotite
- 340 schist, same but drills to small chips
- 350 schist, same, but drills to discrete mineral grains
- 355 schist, same, but drills to chips
- 360 schist, broken, probably carries water

#14

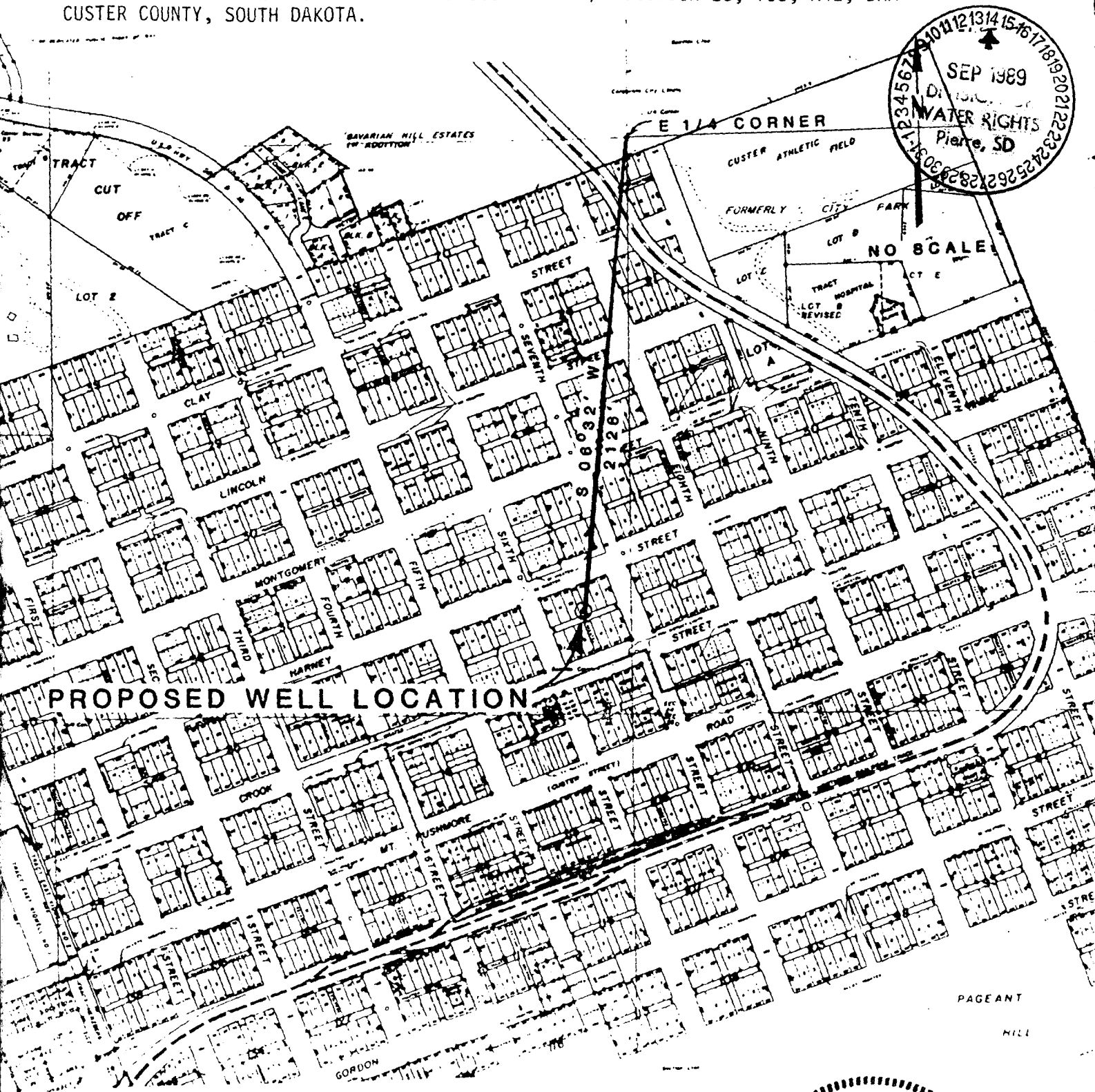
City of Custer

Crook ST.



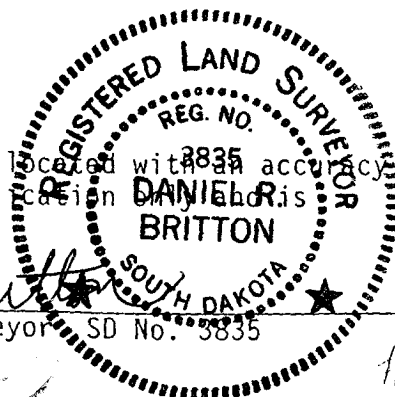
MAP TO ACCOMPANY WATER RIGHT APPLICATION

PROPOSED WELL IS LOCATED IN THE SOUTH END OF THE NORTH HALF OF THE NORTH-SOUTH ALLEY IN BLOCK 2 OF CUSTER TOWNSITE IN THE SOUTHEAST 1/4 SECTION 23, T3S, R4E, BHM CUSTER COUNTY, SOUTH DAKOTA.



The location of the proposed well, as shown on this map, was located with an accuracy sufficient to meet the requirements of this water permit application intended for no other use.

Daniel R Britton
Registered Land Surveyor SD No. 3835



Appl. 11/2107-2

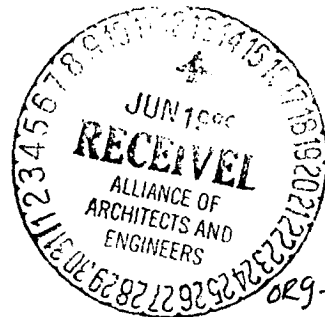
11/15



JOHN PAUL GRIES

Consulting Geologist
238 ST. CHARLES STREET
RAPID CITY, SOUTH DAKOTA

June 6, 1989



PC-DW

City of Custer

Berean Church test well 4th street just S of Harney
Drilled early June 1989 by Taylor Drilling Co.

- 0 - 15 gravel and clay, brown. Gravel is mostly quartz, some schist
20 schist, decomposed, brown, mostly quartz grains
25 gravel, fine, brown, mostly quartz pebbles
35 schist, weathered, dark gray. This schist is unlike that in
other recent testholes in that it is mostly quartz grains
with little mica (biotite)
40 schist, same; some coarse quartz; some chunks from above
55 schist, light gray, very little mica
60 schist, same but drills to fragments to one inch
75 schist, same but darker gray; more biotite
80 schist, light gray, almost all quartz
145 schist, medium gray, drills to fine powder
155 schist, same, drills to small chips
160 schist, same, drills to flakes to one inch
180 schist, drills to fine sand
195 schist, mostly quartz, light gray
225 schist, same more mica, darker
235 schist, same but still darker
260 schist, light to medium gray, mostly quartz
265 schist, very light gray, mostly quartz with some seams of
white, claylike material
275 schist, medium gray, more biotite
285 schist, light gray, but still a bit of biotite
310 schist, medium gray, some biotite
315 schist, same but drills to larger chips
320 schist, light gray, only a trace of biotite
325 schist, very light gray, mostly quartz, some very coarse frags
335 schist, medium gray, some biotite
345 schist, much like above samples
350 schist, same but some slight iron staining
360 schist, light gray, with coarse quartz fragments and very little
biotite

Comment. The source of the high iron is a puzzle.
I saw no pyrite, and since there is much less iron
mica (biotite) than in the other wells, I can't blame
the iron on the mica. I didn't see any staining
suggesting water courses, except in the next-to-bottom
sample. Kim Taylor noted water zones as indicated
in the tabulation to the right.

yield (driller)

6 gpm @ 30 - 40
30 gpm @ 55 - 60
5 gpm @ 105 - 110
10 gpm @ 125 = 135
25 gpm @ 180 - 185
60 gpm @ 245 - 250
5 gpm @ 275 - 280
65 gpm @ 300 - 307
245 total 314 - 320
280 total 332 - 340

Case 145
to 150

City of Custer Well #15

1/4" steel
Lid
welded on.

12 3/4" casing



cement Grout

120' Top of 9 5/8"

148' Bottom of
12 3/4" casing

BLANK

175'

190'

Perforation's

235

BLANK

Perforation's

260

290'

BLANK

9 5/8" O.D. casing

Perforation's

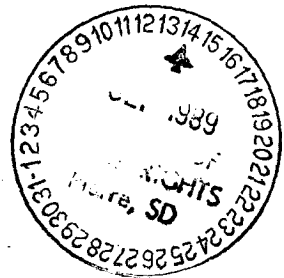
390'

BLANK

400' T.D.

Custer

Berean church Yard



0-15	gravel
15-28	Brown shist
28-30	Gray + Brown shist
30-40	Gray shist some Quartz (6 gpm)
40-55	Gray shist
55-60	Softer shist (30 gpm)
60-105	Gray shist
105-110	Gray shist - Semi-Frac. (5 gpm)
110-125	Harder shist
125-135	Softer shist Gray (10 gpm)
135-180	Gray shist
180-185	Semi-Frac (25 gpm)
185-195	Gray shist
195-215	Gray shist with Layer of Quartz
215-245	Gray shist
245-255	Gray shist - Broken (65-70 gpm)
255-275	Gray shist with Quartz
275-280	Shist (5 gpm)
280-300	Hard Gray shist
300-307	FRAC. shist (65 gpm)
307-314	Hard Gray shist
314-320	Soft shist
320-332	Harder
332-338	Soft
338-346	Hard Gray shist
346-357	FRAC.
357-400	Hard Gray shist

MAP TO ACCOMPANY WATER RIGHT PERMIT APPLICATION

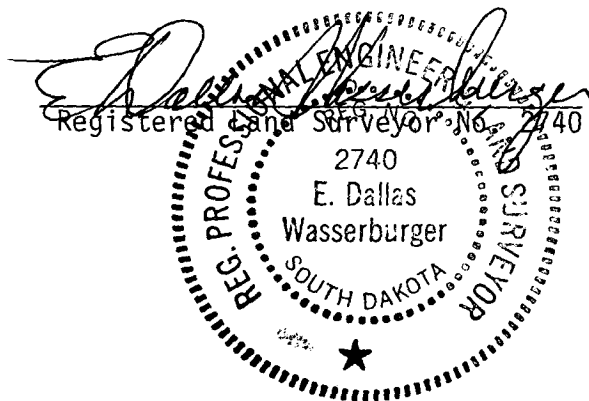
WELL IS LOCATED IN THE SE 1/4, SECTION 28, T3S, R4E, BHM,
CUSTER COUNTY, SOUTH DAKOTA.

CERTIFICATE OF SURVEYOR

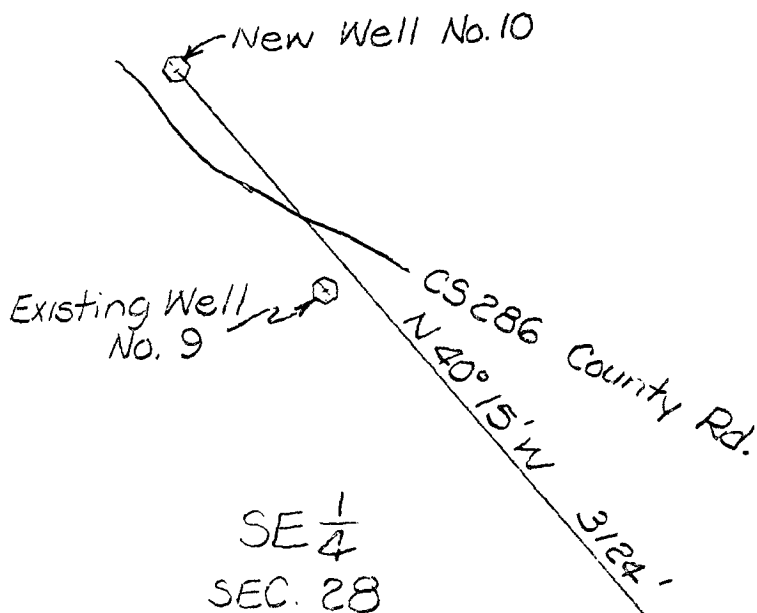
I, E. Dallas Wasserburger, Registered Land Surveyor in the
State of South Dakota, hereby certify that at the request
of the City of Custer, I have surveyed the well location
as shown on the map below and that this map is a true and
correct representation of the survey.



SCALE: 1" = 500'



28



N 0° 04' E SECTION LINE 2

SE CORNER
SEC. 28 - T3S - R4E BHM

Appl No 21072

REPORT ON APPLICATION NO. 2107-2
CITY OF CUSTER
JANUARY 15, 1990

Permit Application No. 2107-2 proposes to appropriate a total of 1.98 cubic feet of water per second (cfs) from 4 wells, (Well No. 12 - 0.05 cfs, Well No. 13 - 0.12 cfs, Well No. 14 - 1.03 cfs, and Well No. 15 - 0.78 cfs) and to place to beneficial use 0.50 cfs (Well No. 10) of ground water reserved by Future Use Permit No. 1407-2. Well Nos. 10, 12, 13, 14, 15 are 360, 1100, 400, 360 and 400 feet deep, respectively, and the wells are located in the NW 1/4 SE 1/4 Sec.28, Well No. 10; NW 1/4 SW 1/4 Sec.24, No. 12; NW 1/4 NW 1/4 Sec.25, No. 13; SW 1/4 SW 1/4 Sec.24, No. 14; SE 1/4 SE 1/4 Sec.23, No. 15; all in T3S-R4E. Water is to be used for municipal purposes by the City of Custer.

Aquifer: Precambrian Rock

Geology and Aquifer Characteristics:

The Precambrian Complex in this area consists primarily of thin bedded mica schists intruded with numerous granite and pegmatite sills and dikes of all sizes. The Precambrian rock is exposed at the surface except where mantled with Quaternary aged alluvium along French Creek and its tributaries. The beds in this area dip steeply and are vertical in places (Redden, 1987). The areal geology of the area identifies two faults in the vicinity of the City of Custer (Redden, 1975). The faults are probably both "early and tight," (Redden, 1987). The effects of the geology on the groundwater flow system are not fully understood in this area. Faults, intrusives, the orientation of the beds, and lithologic changes within the various schists may all serve as aquifer boundaries. Groundwater occurs under water table conditions in the Precambrian rock. Water is derived from voids in the Precambrian rock which occur either as small intergranular openings (primary porosity); or bedding planes, joints, and fractures (secondary porosity). 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. The total porosity of the Precambrian rock in this area is estimated to be 3%, and the effective porosity, generally in the form of secondary porosity, is estimated to be 1% (Rahn, 1979). The maximum thickness of the aquifer is estimated to be approximately 500 feet, because the lithostatic pressure at depths below 500 feet probably keep the water transmitting voids closed (Rahn, 1979).

Recharge to the Precambrian aquifer in this area occurs through direct infiltration of precipitation via fractures and fissures, and possibly through streamflow from French Creek and its tributaries. There are no recharge estimates available for the Precambrian rock in this area.

A 72 hour pump test was conducted by the City of Custer on a well located in the NW 1/4 SW 1/4 of Sec.24, T3S-R4E. The production capabilities of the well and the aquifer characteristics were delineated for the Precambrian rock at the well site. Transmissivity values obtained from the recovery portion of the test range from 16,930 gpd/ft to 48,888 gpd/ft, and storage coefficient values from the aquifer range from 3.95×10^{-5} to 6.8×10^{-5} . The specific capacity of the City's well ranged from 7.6 gpm/ft at 81.1 gpm, to 3.36 gpm/ft at 400 gpm. The pump test identified an instantaneous response to pumping independent of well depth, suggested the presents of boundary conditions, and identified that the aquifer is readily recharged.

The Division of Water Rights monitors an observation well completed into the Precambrian rock in Sec.24, T3S-R4E. A continuous recorder was installed on the well November 3, 1986.

Review of Existing Water Rights:

The Division of Water Rights has record of several domestic wells in the area. There are 20 existing water permits within two miles of the proposed diversion point for Application No. 2107-2. Most but not all of the permits are held by the city of Custer. There is a history of controversy over water permit applications in this area.

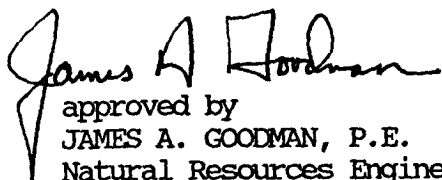
Wells in this area are 10-494 feet deep, completed open hole with surface casing placed to a shallow depth.

Conclusions:

1. The Precambrian rock is a viable source of groundwater in this area.
2. Groundwater flow through the Precambrian rock is along joints, fractures, and down dip bedding planes.
3. Recharge to the Precambrian rock, which is through direct infiltration of precipitation and streamflow from French Creek, has not been quantified.
4. There are several existing water rights and numerous domestic wells in this area.
5. This proposed appropriation would not adversely effect existing water rights.
6. There is a history of controversy over water rights in this area.
7. Pump test information in the area identified instantaneous response to pumping regardless of well depth. The test suggested that the Precambrian is a viable aquifer in this area.
8. The flow system in the Precambrian rock is dominated by fracture flow. Fractures which may extend from surface to the bottom of aquifer make the Precambrian rock susceptible to surface contamination.



KEN BUHLER
Natural Resource Engineer



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

References:

Rahn, P.H., 1979, Groundwater Resources of Western South Dakota,
U.S. Army Corps of Engineers, SDSM&T Project No. 2533, Rapid City, SD.

Water Rights Division, 1990, "Water Permit and Domestic Well Log
Files", DWNR-Water Rights Division, Joe Foss Bldg, Pierre SD.

Redden, J.A., 1975, "Precambrian Geology of the Black Hills,"
Mineral and Water Resources of South Dakota, USGS, U.S. Government Printing Office,
Washington, DC

Redden, J.A., 1987, Personal Communication

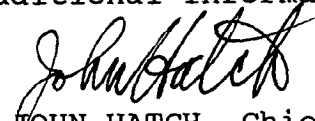
RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 2107-2, City of Custer

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 2107-2, City of Custer, 622 Crook Street, Custer SD 57730.

The Chief Engineer is recommending APPROVAL of Application No. 2107-2 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) in the public interest with the following qualifications:

1. Any new wells authorized by Permit No. 2107-2 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted with cement (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:30.
2. 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.


JOHN HATCH, Chief Engineer
December 14, 1990



DEPARTMENT OF WATER & NATURAL RESOURCES

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

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

December 31, 1990

Annella Wright, Mayor
City of Custer
622 Crook Street
Custer, SD 57730

Dear Ms. Wright:

Water Permit Application No. 2107-2 for municipal 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 Custer County Chronicle printed at Custer, SD. For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

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

Sincerely,

Eric Gronlund
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.

cc: John Evans, Sr.



DEPARTMENT OF WATER & NATURAL RESOURCES

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

December 31, 1990

Custer County Chronicle
602 Mt Rushmore Road
Custer, SD 57730

ATTENTION: Legal Department

Enclosed is a Notice of Hearing on Application No. 2107-2 to be published twice. Please publish the first notice on January 9, 1991, 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 City of Custer, 622 Crook Street, Custer, SD 57730.

A copy of BOTH publications must be SENT to the WATER RIGHTS DIVISION. IMMEDIATELY return the FIRST publication with the FIRST Transmittal form on the bottom of this page. The first copy is needed to check the publication for errors so any corrections can be made in the second publication. Publication errors can invalidate the public notice and cause the applicant costly delays.

Please be sure the SECOND publication is returned IMMEDIATELY with the enclosed Proof of Publication form. DO NOT WAIT until the end of the month or the billing cycle. No action may be taken on the permit application until proof of publication has been received.

Sincerely,

Eric Gronlund

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

CUT HERE

FIRST TRANSMITTAL NOTICE

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

No. _____

Date _____

We are in receipt of your letter of _____ enclosing Notice of Hearing to
Appropriate Water by Application No. _____ 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 January 9, 1991, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 2107-2 to Appropriate Water
and to Develop Water Reserved by Future Use Permit No. 1407-2

Notice is given that the City of Custer, 622 Crook Street, Custer, SD 57730 has filed an application for a water permit to appropriate a total of 1.98 cubic feet of water per second (cfs) from 4 wells (well No. 12 - 0.05 cfs, well No. 13 - 0.12 cfs, well No. 14 - 1.03 cfs, and well No. 15 - 0.78 cfs) and to place to beneficial use 0.50 cfs (well No. 10) of ground water reserved by Future Use Permit No. 1407-2. Well Nos. 10, 12, 13, 14, and 15 are 360, 1100, 400, 360, and 400 feet deep, respectively, and the wells are located in the NW 1/4 SE 1/4 section 28 (No. 10); NW 1/4 SW 1/4 section 24 (No. 12); NW 1/4 NW 1/4 section 25 (No. 13); SW 1/4 SW 1/4 section 24 (No. 14); SE 1/4 SE 1/4 section 23 (No. 15); all in T3S-R4E. Water is to be used for municipal purposes by the City of Custer.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2107-2 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. Unless a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation, the Water Management Board will NOT CONDUCT a HEARING to consider this application and the chief engineer will issue the permit as recommended. Petitions filed in support of the application will NOT require the Board to hear the application.

Any person interested in opposing or supporting this application must file a written petition with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposed to the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Division, 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 January 28, 1991. 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.

For purposes of publishing 1) the notice of hearing on Application No. 2107-2 and 2) the chief engineer's recommendation, a special Board meeting is scheduled for February 7, 1991, at 9:00 am in Room 413, Joe Foss Building, 523 E Capitol, Pierre SD. If this application is opposed or the recommendation is contested, the February 7, 1991, hearing date may be rescheduled for another Board meeting. If the hearing is rescheduled, notice of the time and place will be given by First Class Mail to the applicant and persons filing petitions. Anyone not filing a petition, but interested in attending the hearing, may contact the Division of Water Rights to confirm a hearing date and location. The February 7, 1991, hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any interested person opposing the application. The request for an automatic delay must be filed by January 28, 1991.

If a hearing is held, the Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application based on the facts presented at the public hearing. Any hearing will be an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. Contact the Water Rights Division to request copies of information pertaining to this application or to assure access to the hearing by the handicapped.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-16; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14, 46-6-26; 46-5-38 thru 46-5-40; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 2107-2

(1) The City of Custer, 622 Crook St, Custer SD 57730-1698 made Application No. 2107-2, May 10, 1989 for a water permit to divert 2.48 cubic feet of water per second (cfs) from groundwater (five wells), Custer County, South Dakota for municipal purposes. Permit No. 2107-2, with priority dates of October 26, 1990 and January 10, 1977 (established by Future Use Permit No. 1407-2) was approved February 7, 1991 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 said water completed.

(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 2.03 cubic feet of water per second for beneficial use. The location of the diversion points are **all in T3S-R4E**:

Well #14 – 1,214 feet east and 4,488 feet south of the NW corner Section 24 (SW $\frac{1}{4}$ SW $\frac{1}{4}$);

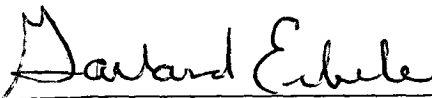
Well #15 – 4,910 feet east and 4,699 feet south of the NW corner Section 23 (SE $\frac{1}{4}$ SE $\frac{1}{4}$);

Well #10 – 3,220 feet east and 2,904 feet south of the NW corner Section 28 (NW $\frac{1}{4}$ SE $\frac{1}{4}$).

Well #10 is maintained as a standby well.

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

(4) Pursuant to South Dakota Water Law 46-5-30.1 the City of Custer, 622 Crook St, Custer SD 57730-1698 the holder and/or owner of Water Right No. 2107-2 is issued a license to appropriate water, the right to use 2.03 cubic feet of water per second from groundwater (three wells) with priority dates of October 26, 1990 (1.7 cfs) and January 10, 1977 (0.33) from the locations specified in (2) of this license for municipal purposes. This license is subject to any limitations or qualifications listed in Water Right No. 2107-2 and subject to South Dakota State Law.



GARLAND ERBELE, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

AUG 22 2001

date





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

AUG 22 2001

2107-2

The City of Custer
Sue C Bennett, Finance Officer
622 Crook St.
Custer, SD 57730-1698

Dear Ms. Bennett:

Enclosed is Water License No. 2107-2. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 416882 in the amount of \$50.00 which you paid for the investigation and issuance of the Water License.

As long as you use the water beneficially, as stated in the Water License, 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