

WATER PERMIT NO. 1727-1

Name of Applicant: Sue Hanson

Address: HC 75 Box 496, Sturgis sD 57785

Phone: 605 347-2677

Amount of Water Claimed: 45 gpm

Total Acres: NA

Source of Water Supply: groundwater

Water to be used for: commercial / domestic

County: Meade

Type of Waste Disposal System: septic tank

Location: 3 miles southeast of Sturgis along I-90

PRIORITY

Date Received: 6-5-2000

Fee: \$50

Corrected Application Received::

Period of Annual Use: Jan 1- Dec 31

Remarks: temporary rally campground

Diversion Point: NW ¼ SW ¼ Sec 25-T5N-R5E

Land to be Irrigated: NA

Depth of Well: 720 feet deep

Well Driller: : Cimarron Drilling

Remarks:

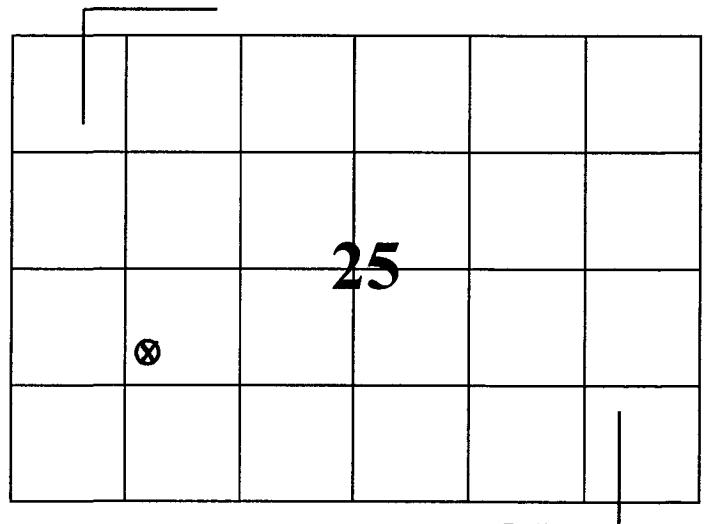
Type of Map: plat

Prepared by: Rick Bush, RLS

Reviewed and the Number Assigned on: 6-6-2000

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



**SOUTH DAKOTA
WATER PERMIT NO. 1727-1**

Date of first receipt of application June 5, 2000.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 1727-1 to Sue Hanson, HC 75 Box 496, Sturgis SD 57785 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 1727-1 appropriates 0.1 cubic feet of water per second (45 gallons per minute) from one well (Minnelusa Formation) 720 feet deep located in the NW ¼ SW ¼ Section 25-T5N-R5E
2. The water appropriated shall be used for the purpose of supplying water for commercial use at a campground and domestic use and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31 (domestic use) and June 1 – September 30 (commercial use).
4. The date of approval of Permit No. 1727-1 is July 24, 2000.
5. The date from which applicant may claim right is June 5, 2000.
6. One-fifth of the construction is to be completed on or before January 24, 2003.
7. All construction is to be completed on or before July 24, 2005.
8. Water is to be put to beneficial use on or before July 24, 2009.
9. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATION

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

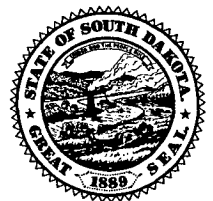
WATER MANAGEMENT BOARD

By: Garland Erbele

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

AUG 02 2000

date



(office use only)

No. 1727-1 Hydrologic Unit 10/20202

Basin Belle Fourche R.

Newspaper Meade Co. Times-Tribune, Sturgis, SD



Check use(s) of water:

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

[illegible]

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

1. Name of Applicant Sue Hanson Phone 605-347-2677
(check one) X Owner _____ Tenant/lessee _____
- Mailing Address HC 75 Box 496, Sturgis State SD 57785
(Street, RR, or Box and City) (Zip Code)
2. Amount of water claimed 0.1 *CFS or 45 **GPM ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (***Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply Water Well (Minnelusa Aquifer)
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) 1 well in SW 1/4 of Section 25
Township 5N Range 5E of BHM (NW 1/4 SW 1/4)
County Meade
5. County or counties where water will be used Meade County
6. Annual period during which water is to be used Jan 1 - Dec 31 June 1 - Sept. 30
Year round for domestic, One week in August for Rally
commercial use
7. Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

Will be used for 28 RV hook-ups during Rally and used for stock and domestic the rest of the year.

STATE OF SOUTH DAKOTA)

County of Meade) SS

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

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

Applicant's signature Que Nanson

Subscribed and sworn to before me this 2 day of June 2000

Gail Bunch
Notary Public signature

Expires: 3.22.2004

Supplemental Information

(type or print in ink)



1. Well Information - Proposed Construction

- a) Drill Hole Diameter 7-7/8" Depth 720'
- b) Casing Type New Steel Diameter 5-1/2" Thickness .025"
- c) Screen Type N/A Diameter _____ Thickness _____
- d) Gravel Pack N/A Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material 500'
- f) Depth to Water (ground surface to water level) 550'
- g) Distance to nearest existing domestic well:
- On applicants property _____ On property owned by others 350'

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) Septic Tank - 2' wide Trench system and is 296' of drain field
- b) System Capacity (gallons) 1000 gal tank Year Constructed 1997
- c) Connected to the City of N/A Sanitary System _____

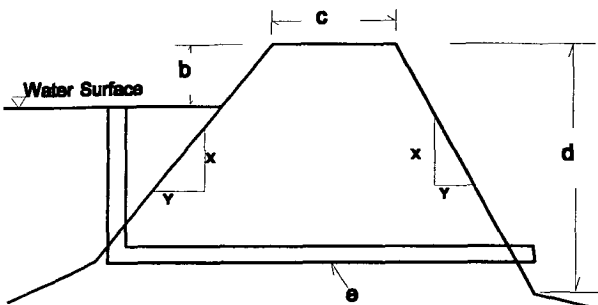
3. Dugout Information

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

4. Water Storage Dams - N/A

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

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



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

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

N^o 416540

Pierre, June 6, 2000

RECEIVED OF Randy or Susan Hanson, HC 75, Box 496, Sturgis, SD 57785
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. 1727-1 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. 1727-1 _____

Fee for Filing Transfer Form _____

Fee for Filing Extension Request _____

Fee for _____

(Any Other Work Provided by Law)

Total

100 00

By

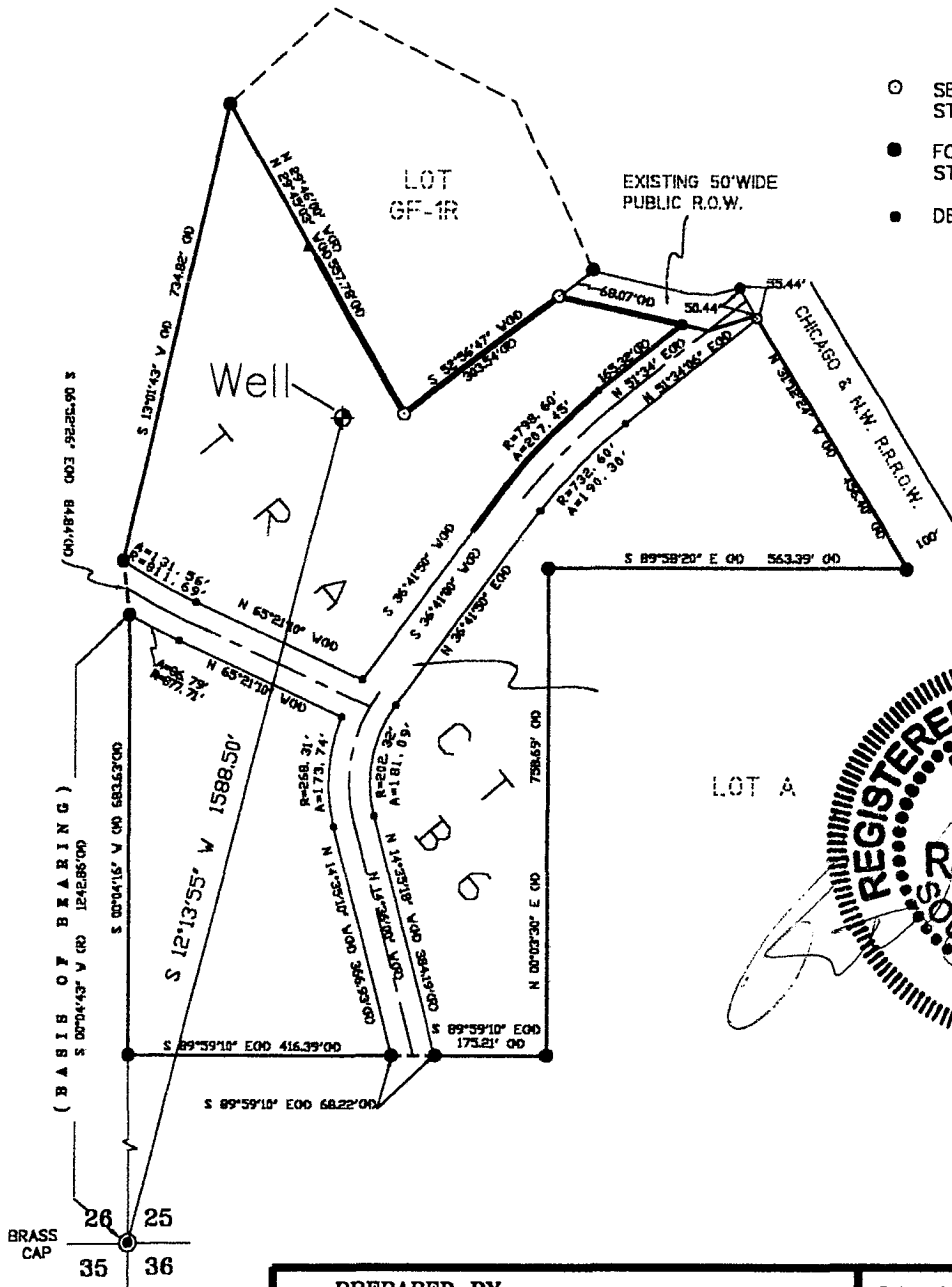
Sorend Ebbel
Chief Engineer

07-92

Date: _____

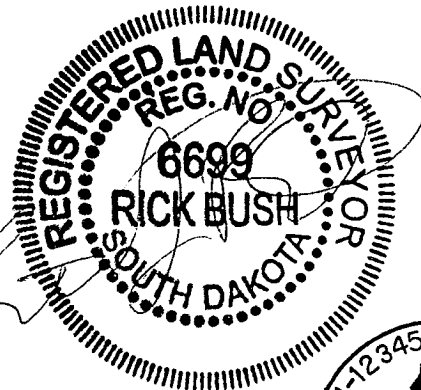
Well Location on Tract B6,

Located in the SE1/4 of Section 26, and the SW1/4 of Section 25,
Township 5 North, Range 5 East, B.H.M., Meade County, South Dakota.



LEGEND

- SET 5/8" REBAR WITH CAP
STAMPED "BUSH-RLS 6699"
- FOUND REBAR WITH CAP
STAMPED "LS 1019"
- DENOTES P.C.'S & P.T.'S "NOT SET"



PREPARED BY:
PRECISION SURVEYING & MAPPING, Inc.
1021 JUNCTION AVE., PO BOX 66
STURGIS, SD 57785
PHONE: 605-347-4014 FAX: 605-423-4110

Date: 6-1-00
Scale: 1" = 300 Feet
Drawn By: Rick B.



1727-1



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 1727-1, Sue Hanson**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 1727-1, Sue Hanson, HC 75, Box 496, Sturgis, SD 57785.

The Chief Engineer is recommending APPROVAL of Application No. 1727-1 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualification:

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

See report on application for additional information.

Garland Erbele, Chief Engineer
June 22, 2000

WATER PERMIT APPLICATION NO. 1727-1

SUE HANSON

JUNE 20, 2000

Water Permit Application No. 1727-1 proposes to appropriate 0.1 cubic feet of water per second (45 gallons per minute) from one existing well (Minnelusa Formation) 720 feet deep located in the NW¼ SW¼ Section 20, T5N-R4E. The water is for commercial use at a campground and for domestic use.

AQUIFER: Minnelusa Aquifer (MNLS)

GENERAL:

The Minnelusa Aquifer is an assemblage of alternating beds of sandstone and dolomitic limestone with lesser amounts of red and black shale and chert approximately 500 feet thick in this area (Water Rights, 2000_a). Because the lithology of the Minnelusa is so variable, the porosity of the formation is also variable and difficult to determine. Well sorted sand lenses have porosity's approaching 25%, but generally the sands have porosity's of 10%. The average porosity of the Minnelusa is estimated to be 10% and the effective porosity is assumed to be 5% (Rahn, 1979). The Minnelusa formation underlies approximately 2,172,800 acres of Meade County and contains an estimated 81,480,000 acre-feet of recoverable water in storage (Allen, 1984). The aquifer is areally extensive around the Black Hills and is hydraulically connected into the counties surrounding Meade County. Ground water movement is probably toward the north and east. There is no aquifer-test data available for the Minnelusa Aquifer at this site; therefore, the aquifer transmissivity and storage coefficient values are unknown. Estimates from regional studies of the aquifer indicate the aquifer transmissivity may range from 30 to 1000 ft²/d, and the storage coefficient ranges from 6.6×10^{-5} to 2×10^{-4} (Kyllonen, 1987). The top of the Minnelusa is interpreted to be approximately 400 feet below ground surface from the completion report for this well. The static water level of this well is reported to be 550 feet below grade at this site.

WATER AVAILABILITY:

The Water Rights Program monitors 23 observation wells completed into the Minnelusa aquifer in the Black Hills area. Water Rights Observation Well MD-84B is located approximately 4½ miles southeast of this well site. The hydrograph for the well (see figure 1), is fairly typical for the Minnelusa aquifer. That is, the water levels reach their peak in the early summer each year and gradually decline until spring. The majority of the recharge to the system occurs between March and July.

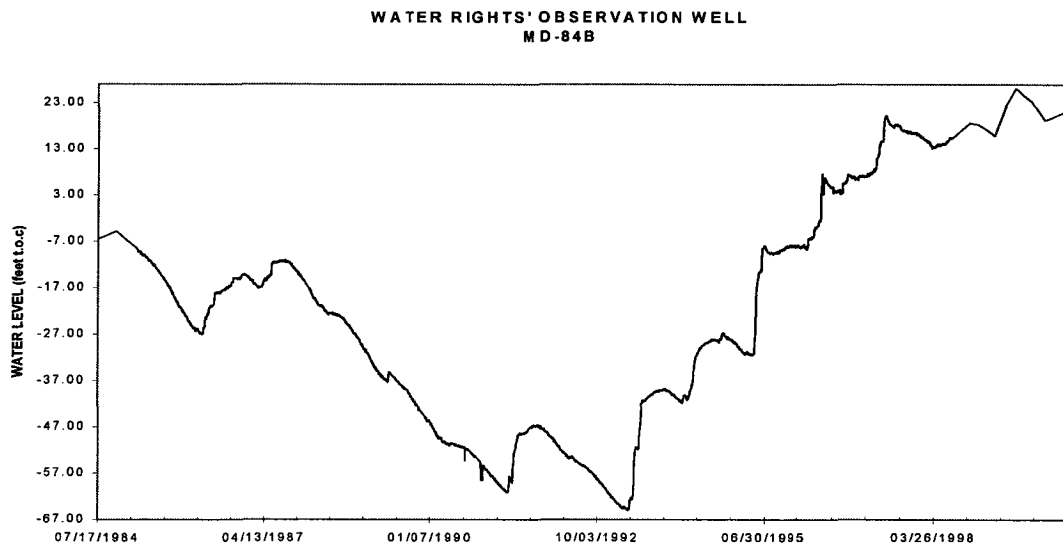


Figure 1, Minnelusa Aquifer Observation Well, Four and one half miles southeast of 1727-1

The hydrograph also shows the magnitude of fluctuation in the water levels in the area (>88') with the lowest water level on record occurring in 1993 and the highest occurring in 1999. It is interesting to note on this hydrograph two brief periods in November 1990 when 3-5' of drawdown was measured on this well while the Minnelusa was essentially "being pumped" while drilling a Madison observation well approximately 20' away.

It is obvious from the hydrographs that withdrawals have not exceeded recharge for the period of record (Water Rights, 2000_b). The observation well data suggests that at the existing level of development, the aquifer is capable of sustaining additional withdrawals.

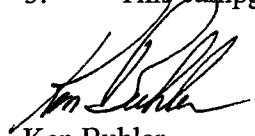
AFFECTS ON EXISTING RIGHTS:

There are 165 Water Rights/Permits that appropriate water from the aquifer in South Dakota (Water Rights, 2000_c). There are 51 permits/rights appropriating water from the Minnelusa aquifer in Meade County (Water Rights, 2000_c), where the aquifer is used primarily for suburban housing development, commercial, municipal and irrigation use. There are a number of domestic wells completed into the Minnelusa Aquifer on file with the Water Rights Program (Water Rights, 2000_a).

Withdrawals from this well are not expected to affect wells that are not supplied by the Minnelusa aquifer due to the apparent hydrologic separation between aquifers in this area. The nearest appropriation supplied from the Minnelusa Aquifer (1188-1, Bluxberg Mt. Water Assoc.) is located less than one-half mile east of this well. However, Water Permit Application No. 1719-1, David and Kathy Driggs, Katmandu Campground, is pending for a Minnelusa appropriation approximately one-quarter mile south of this well site. Any well interference this proposed use would have on these or other water rights/permits is not expected to be adverse due to the distance between wells, and the relatively low diversion rate requested by this application.

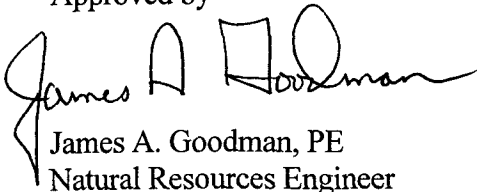
CONCLUSIONS:

1. The Minnelusa Aquifer is a viable aquifer in this area, and water is available for this appropriation.
2. The drawdown from this pumping is not expected to adversely affect adequate wells in the area.
3. This campground proposes to utilize a septic tank and drain field for waste water disposal.



Ken Buhler
Natural Resources Engineer

Approved by



James A. Goodman, PE
Natural Resources Engineer

REFERENCES:

- Allen, J.C., Iles, D.L., and Petres, A.K., 1984, Analysis of Groundwater and Streamflow Data, Western Dakotas Region of South Dakota, Task 3 & 4: Groundwater Resources Inventory, US Army Corps of Engineers Contract DAWC 45-82-C-015, SD DENR-Division of Geological Survey, Vermillion SD
- Kyllonen, D.P., and Peter, K.D. 1987, GeoHydrology and Water Quality of the Inyan Kara, Minnelusa, and Madison Aquifers of the Northern Black Hills, South Dakota and Wyoming, and Bear Lodge Mountains, Wyoming, U.S. Geological Survey, Water Resources Investigations Report 86-4158, Rapid City, SD
- Rahn, P.H., 1979, Ground Water Resources of Western South Dakota, US Army Corps of Engineers, Draft Report-Final
- Redden, J.A., 1994, Structural Contours and Phanerozoic Structures in the Rapid City, South Dakota, 1:100,000 Scale Quadrangle, Open-File Report 95-81, U.S. Geological Survey, Rapid City, SD
- Water Rights Program, 2000_a, "Domestic Well Records" DENR-Water Rights Program, Joe Foss Building, Pierre, SD
- Water Rights Program, 2000_b, "Observation Well Files" DENR-Water Rights Program, Joe Foss Building, Pierre, SD
- Water Rights Program, 2000_c, "Water Permit Files" DENR-Water Rights Program, Joe Foss Building, Pierre, SD



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

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

June 23, 2000

Sue Hanson
HC 75, Box 496
Sturgis, SD 57785

Dear Ms. Hanson:

Water Permit Application No. 1727-1 for commercial/domestic 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 Meade Co. Times-Tribune printed at Sturgis, SD (Ph # (605) 347-2503). For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

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

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

June 23, 2000

Meade Co. Times-Tribune
Box 69
Sturgis, SD 57785-0069

ATTENTION: Legal Public Notice

Enclosed is a Notice of Hearing on Application No. 1727-1 to Appropriate Water to be published twice. Please publish the first notice on July 5, 2000, 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 Sue Hanson, HC 75, Box 496, Sturgis, SD 57785 (Ph # (605) 347-2677).

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

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

Sincerely,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

No. 1727-1

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

Date _____

We are in receipt of your letter of June 23, 2000, enclosing Notice of Hearing to Appropriate Water by Application No. 1727-1 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 July 5, 2000, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 1727-1 to Appropriate Water

Notice is given that Sue Hanson, HC 75 Box 496, Sturgis SD 57785 has filed an application for a water permit to appropriate 0.1 cubic feet of water per second (45 gallons per minute) from one well (Minnelusa Formation) 720 feet deep located in the NW ¼ SW ¼ Section 25-T5N-R5E. The water is for commercial use at a campground and domestic use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1727-1 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by July 24, 2000.

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

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS
 County of meade)

I, Joan Lewis

certify that the attached printed Notice was taken

from the meade County Times

printed and published in Sturgis

County of meade and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

July 5, 2000

July 12, 2000

Cost of Printing 36.95

Joan M Lewis
 (Signature)

Bookkeeper
 (Title)

7/12/00
 (Date Signed)



Water application

NOTICE OF APPLICATION
NO. 1727-1 to Appropriate Water

Notice is given that Sue Hanson, HC 75 Box 496, Sturgis SD 57795 has filed an application for a water permit to appropriate 0.1 cubic feet of water per second (45 gallons per minute) from one well (Minnelusa Formation) 720 feet deep located in the NW 1/4 SW 1/4 Section 25-T5N-R5E. The water is for commercial use at a campground and domestic use.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1727-1 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-

2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

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Publ July 5 and 12, 2000
 Meade County Times-Tribune

Central
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**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

AUG 02 2000

Sue Hanson
HC 75, Box 496
Sturgis, SD 57785

Dear Ms. Hanson:

Enclosed is Water Permit No. 1727-1 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

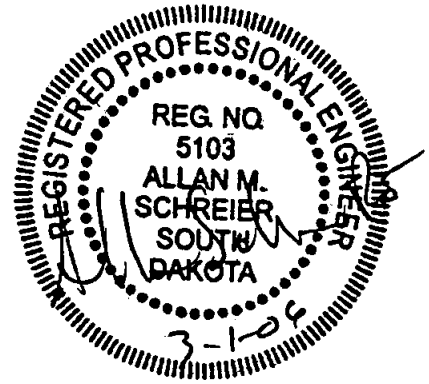
An informational sheet *Common Water Right Questions?* is also enclosed. This sheet is intended to answer some of the questions associated with obtaining and keeping a water right.

Sincerely,

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

enclosures

**Hanson Campground
Sturgis, SD
Water System Design Summary
January 19, 2006
Revised February 3, 2006
Revised March 1, 2006**



Water System Design

The proposed project will enlarge an existing campground facility. There are 25 full service RV hookups and 6 with water and electricity only in the existing campground, a shower house, and a manager's residence. The water system will be required to supply the existing facilities and the proposed camping sites.

**Based on Wastewater sizing,
80 percent of water is discharged to wastewater system**

Existing Camper area	= <u>3,300</u> gpd
Managers House	= 240gpd
Proposed Camper Area	= <u>2,800</u> gpd
Total	= 6,340gpd

Total water usage = 125% * 6,340 gpd = 7,925 gpd

Peak Factor Design Basis

Max Daily Flow is provided in wastewater design values	
Max Hourly Flow Rate	= 7
Peak Design Flow	= 0.5 gpm per fixture

Water Design Flow Summary

Max Hour Flow = 7,925 gpd * 7 = 55,475 gpd or 38 gpm
 Peak Design Flow (based on 90 fixtures) = 0.5 gpm/ fixture * 90 fixtures = 45 gpm
Use peak design flow of 40 gpm

Pressure Tank Design

See Amtrol sizing guidelines
 40 gpm @ 2 minutes, pressure range 40 to 60 psi,
Use 2 WX-350 pressure tanks

Water Supply

The water supply will be an existing 720 foot deep well, founded in the Minnelusa Formation, supplying 10 gpm. The well will have to operate for 13.2 hours per day at maximum daily flow.

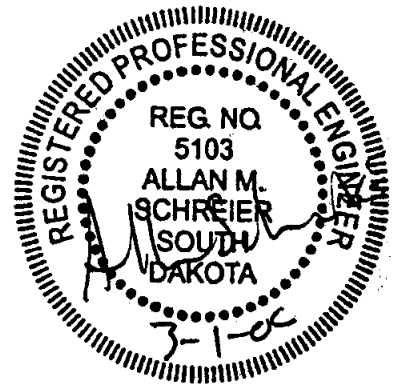
Storage requirements

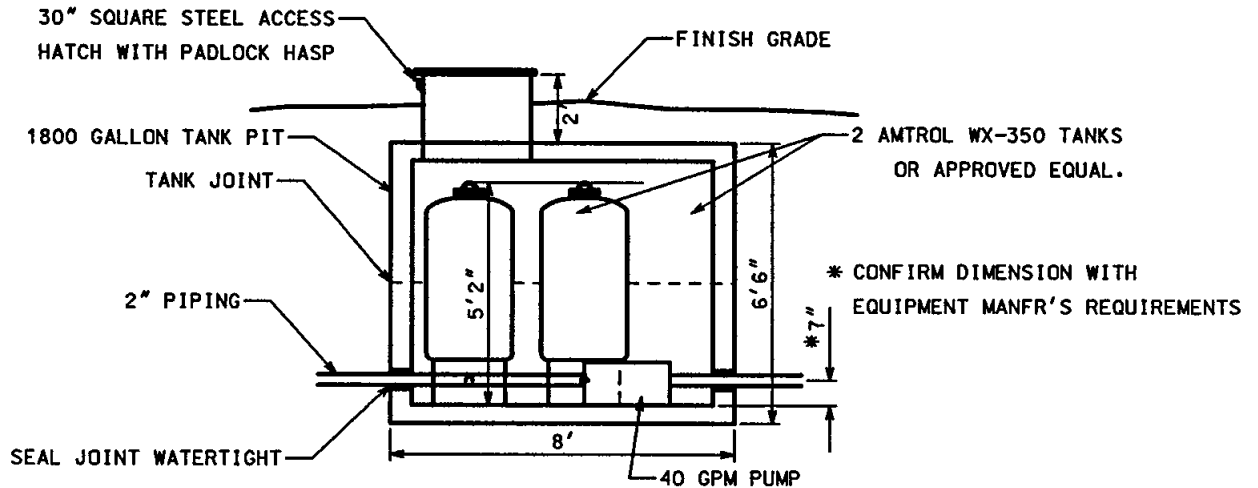
In order to meet maximum hour demand a storage reservoir sized to provide 40 gpm for 60 minutes would be necessary and require a volume of at least 2400 gallons. It is recommended to provide 2 or three times this volume for operational and emergency needs, therefore 4,800 to 7,200 gallons are required.

A 5,000 gallon water cistern is proposed to be installed in this project. The well pump will deliver water to the cistern and the well pump will be controlled by a float switch or level indicator in the cistern. The supply pump and pressure tank(s) will be placed in an underground pit near the well and cistern.

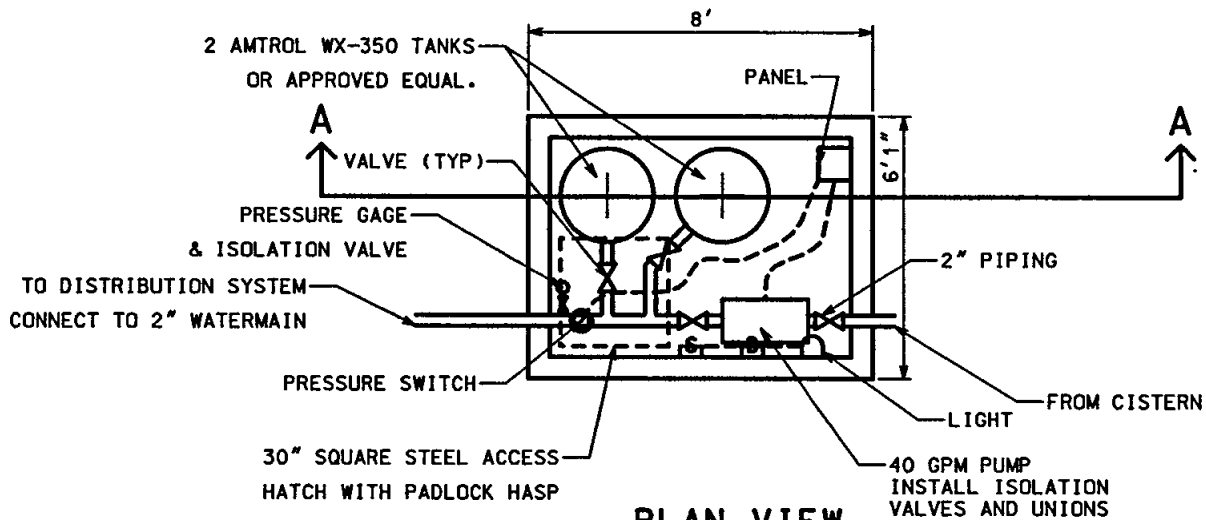
Materials

Watermains shall be constructed using SDR 21 200 psi PVC water pipe.



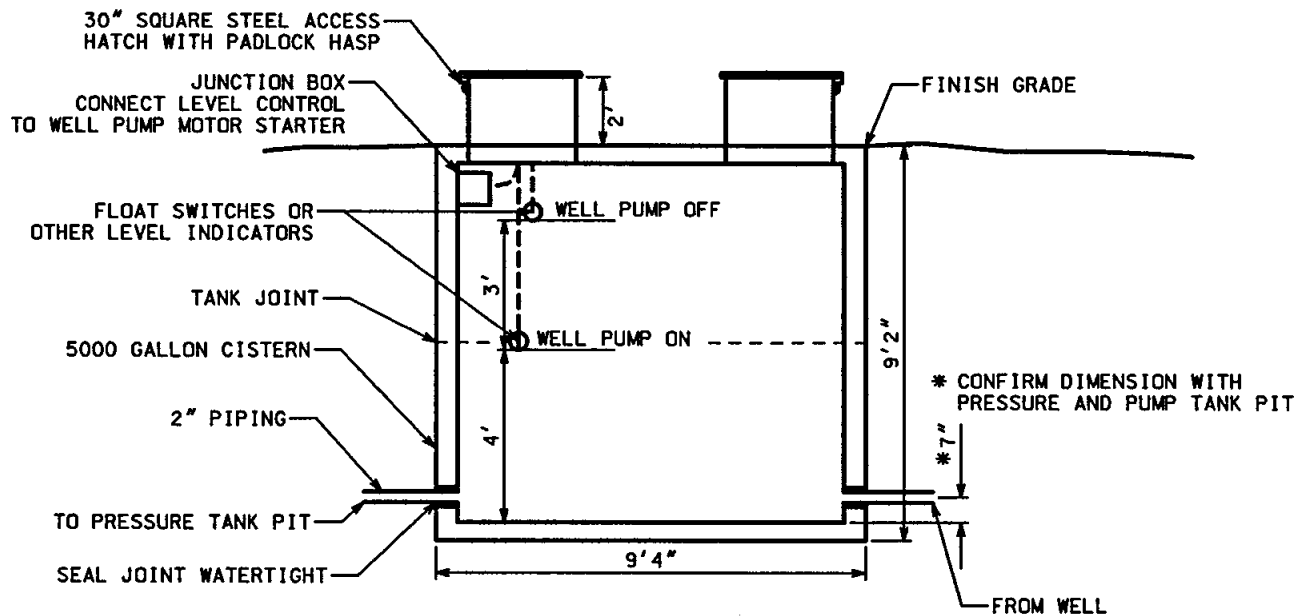


SECTION A-A

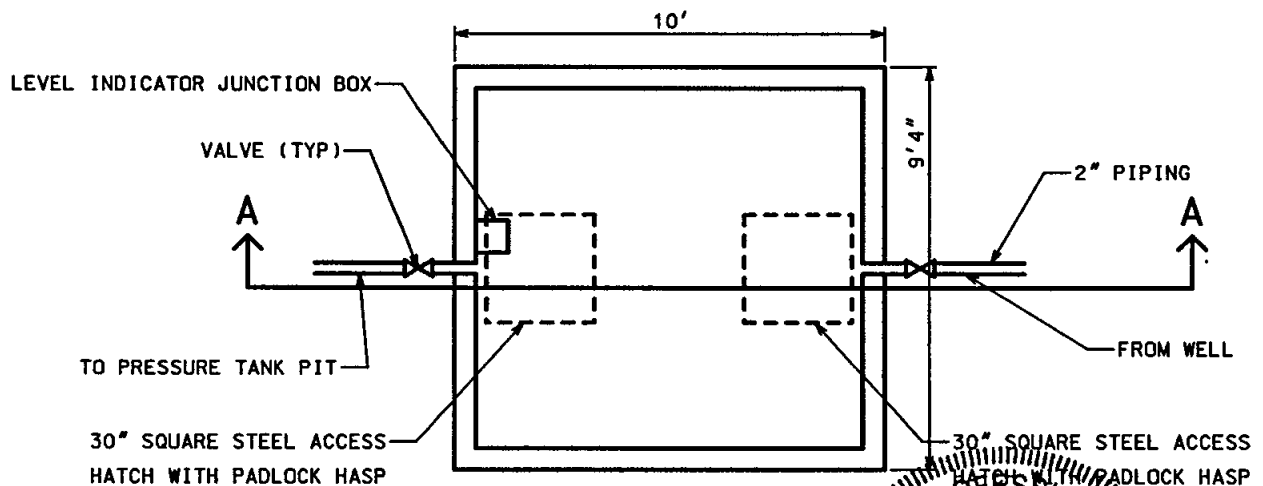


PLAN VIEW

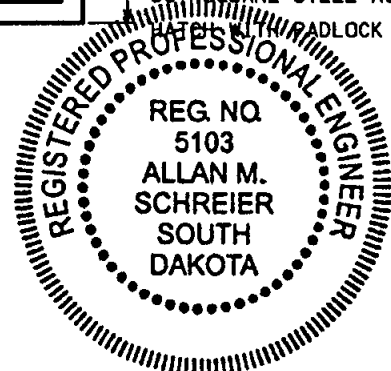
PRESSURE TANK PIT DETAIL



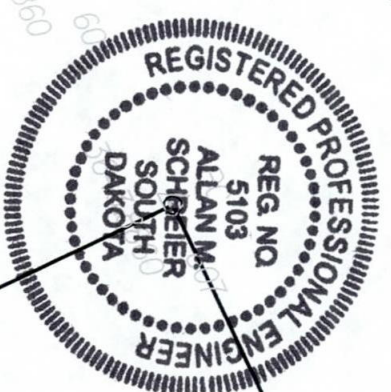
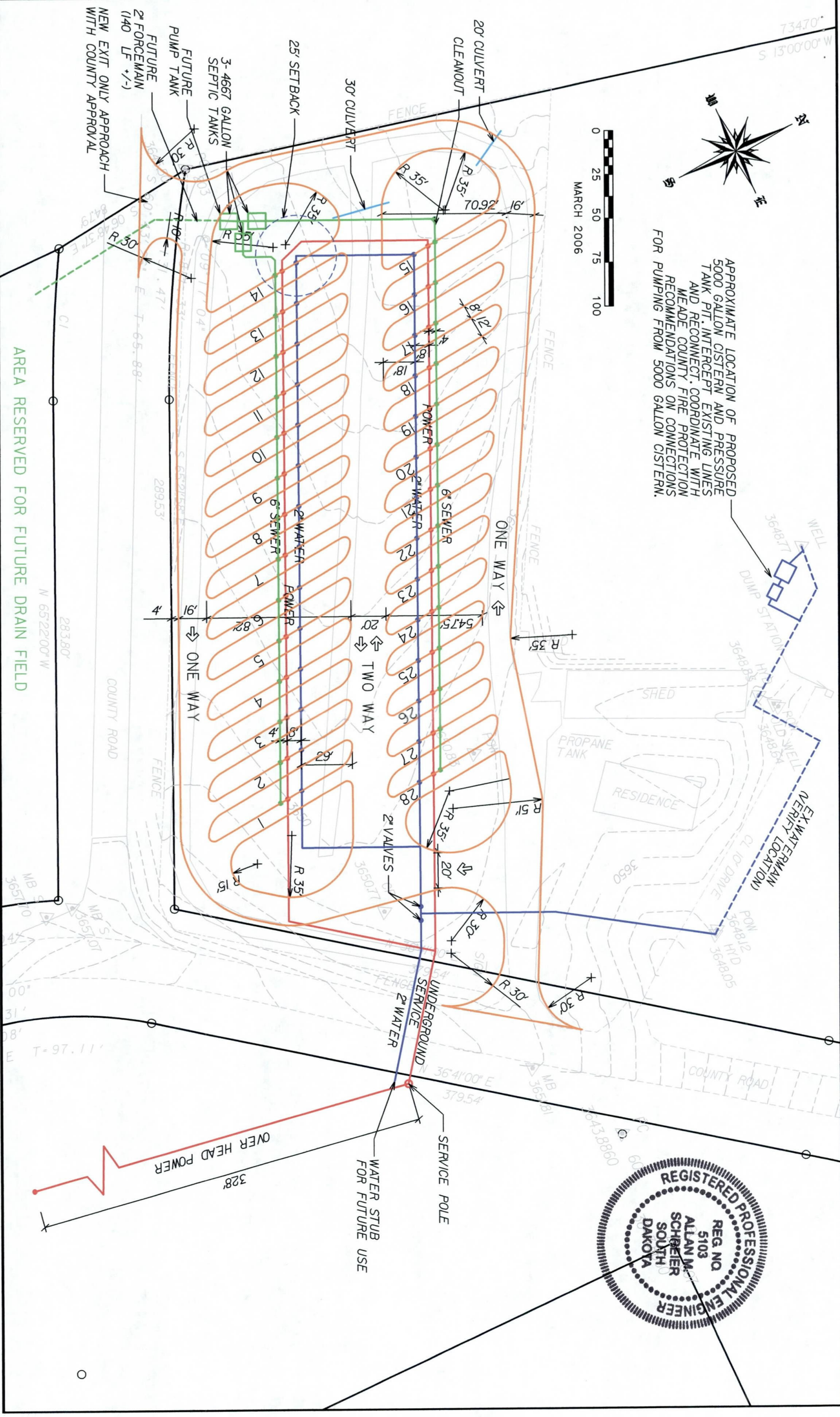
SECTION A-A



PLAN VIEW



APPROXIMATE LOCATION OF PROPOSED 5000 GALLON CISTERN AND PRESSURE TANK PT. INTERCEPT EXISTING LINES AND RECONNECT. COORDINATE WITH MEADE COUNTY FIRE PROTECTION RECOMMENDATIONS ON CONNECTIONS FOR PUMPING FROM 5000 GALLON CISTERN.



SURVEY:
DATE: MAR 06
DRAWN: AMS
DATE: MAR 06

DESIGN:
DATE: MAR 06
CHECK: AMS
DATE: MAR 06

ENGINEERING

11160 SNOW ROAD
BELLE FOURCHE, SD 57717
PHONE/FAX (605) 892-2051
CELL (605) 641-3315
email: almschreier@msn.com

REV. #

DESCRIPTION

DATE

CHKD

SHEET TITLE

LAYOUT AND UTILITY PLAN

PROJECT

HANSON CAMGROUND

TRACT B, SECTION 25, T5N, R5E, BHM, MEADE COUNTY, SD

SHEET

1 OF 1

PROJECT NO.

241

Permit No. 1727-1
Belle Fourche River - Water District

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

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

I have this day, 26 September 2007, made a thorough examination of the water use system constructed by Sue Hanson of 20983 Pleasant Valley Dr, Sturgis, SD. 57785-8947 holder of Permit No. 1727-1, bearing the priority of 05 June 2000 authorizing the diversion of 0.1 cu. ft. per second of the waters of the Minnelusa formation for commercial and domestic purposes, in Meade County.

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Cimarron
- 2) No. of Wells 1
- 3) Depth(s) 720 feet
- 4) Well log is available Y
- 5) Comments: Works are not capable of diverting the amount of water that was permitted.

Casing:

- 1) Diameter 5.5 inches
- 2) Length 666 feet
- 3) Type steel

Screen:

- 1) Type none
- 2) Static water level 550 feet

Pump:

- 1) Make Grundfos
- 2) Capacity 10 GPM

Motor:

- 1) Make Franklin
- 2) Horsepower rating 3 hp

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

- 1) Type PVC 2) Size 2 inches 3) Length 4000 feet

5000 gallon storage tank below ground

C. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Y
2) Exceptions to compliance are: none

The system is in good condition with the point(s) of diversion located as follows: NW ¼ SW ¼ Sec 25-T5N-R5E, approximately 1543 feet north and 316 feet east of the southwest corner of section 25, N 44.36290 Latitude and W -103.46797 Longitude. The works are capable of diverting and conveying to the place of use 0.022 cu. ft. per second of water which is to be used for commercial and domestic uses.

The license should be issued for 0.022 cfs.

All structures, wells and lands on map Y

Comments or other permit(s) associated with the project: **Pump information supplied by Cimarron Drilling Inc.**



Mark Costello
Natural Resources Engineer
DENR, Water Rights Program

Date report completed: 12 October 2007



South Dakota

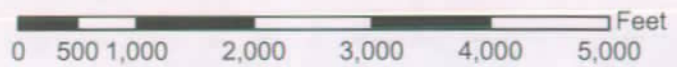
1727-1

Sue Hanson
HC 75 Box 496
Sturgis, SD. 57785



Mark Costello

Mark Costello
Natural Resources Engineer
SD DENR, Water Rights
12 October 2007



STATE OF SOUTH DAKOTA

WATER LICENSE NO. 1727-1

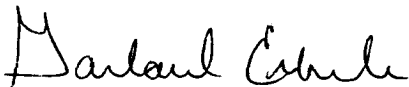
(1) Sue Hanson, 20983 Pleasant Valley Dr, Sturgis SD 57785-8947 made Application No. 1727-1, June 5, 2000 for a water permit to divert 0.1 cubic feet of water per second from groundwater (one well), Meade County, South Dakota for commercial and domestic use purposes. Permit No. 1727-1, with a priority date of June 5, 2000 was approved July 24, 2000 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before July 24, 2005 and for the application to beneficial use of water on or before July 24, 2009.

(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 1727-1 is issued a license, bearing a priority date of June 5, 2000 to appropriate 0.022 cubic feet of water per second from groundwater (one well) for commercial and domestic use.

The diversion point is located: 1,543 feet north and 316 feet east of the southwest corner of Section 25-T5N-R5E (NW ¼ SW ¼).

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 1727-1 including the following now applicable qualification:

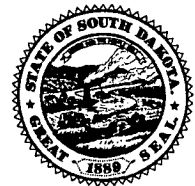
The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having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



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

OCT 19 2007

date





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

OCT 19 2007

1727-1

Sue Hanson
20983 Pleasant Valley Dr
Sturgis SD 57785-8947

Dear Ms. Hanson:

Enclosed is Water License No. 1727-1. This is the final water right document completing your process of obtaining a Water Right. Also, included with your license is a map prepared by the staff engineer who conducted the investigation.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 1727-1, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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

Sincerely,

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

enclosures