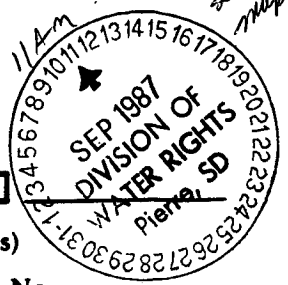


assigned on Oct 19, 1987 By Ron Swarth

No. 2036-2 Hydrologic Unit 10120110
 Map No. same Basin Upper Cheyenne R.
 Newspaper Rapid City Journal, P.O. Box 450

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

Type of Application: Check one or more of the following:



New ☒ Vested Right ☐ Future Use ☒

☐ Application to amend Permit No. _____ with old priority date retained

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

☐ Application to: ☐ Change use ☐ Change diversion point(s) ☐ Add diversion point(s)

☐ Add Acreage ☐ Increase diversion rate ☒ Other Institutional See Permit No. _____

☐ Application to: ☐ Use ☐ Transfer water reserved by Future Use Permit No. _____

1. Name of Applicant Dept of Military & Veterans Affairs Phone No. 394-6670

Post Office Address 2823 West Main St., Rapid City State SD Zip Code 57702-8186
 (Street, RR or Box)

2. Amount of water claimed (c.f.s.) 75 GPM 0.16 Total acres irrigated _____

3. Source of Water supply Minnelusa Aquifer

4. Location of point of diversion 1400' west and 350' north of Southwest corner of Sec. 5,
1200' T1N, R7E, (West Camp Rapid, Well #3) SW $\frac{1}{4}$ SE $\frac{1}{4}$

County Pennington

5. Counties where water will be used Pennington

6. Annual period during which water is to be used April through November 30

7. List below each forty acre subdivision, or lot, or fraction thereof and show number of acres to be irrigated in each.

Land Description	No. Acres Irr.
N/A	

Land Description	No. Acres Irr.
N/A	

Attach sheet if more space is needed

8. 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)

The well will provide as a water supply point for troop training area.

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 Pennington)^{ss}

I, Jerry F. Hoenke 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 _____

Subscribed and sworn to before me this 10th day of September 1987

Kendra Graham
 Notary Public (or other qualified officer)

My Commission Expires 3-31-94

WATER PERMIT

The Water Management Board hereby approves Water Permit Application No. 2036-2

Dept. of Military and Veterans Affairs 2823 West Main Street
(Applicant) (Street, RR or Box)

Rapid City SD 57702-8186 With the following qualifications.
(City) (State) (Zip Code)

1. 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.
2. The casing of the well to be constructed under Permit No. 2035-2 shall be constructed by a licensed well driller and pressure grouted with cement (bottom to top) from the producing formation to the surface and the well constructed in compliance with Water Management Board Well Construction Rules, Chapter 74:02:04.

Date of first receipt of application September 11, 1987.

Date of return to applicant for correction, amendments or changes required October 7, 1987.

Date of receipt of corrected application Oct. 13, 1987. Approved December 2, 1987.

The Water Management Board approved this Water Permit No. 2036-2 authorizing the construction of the water use system and the placing of water to beneficial use as stated in the Application and as qualified in the Water Permit approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is September 11, 1987.
2. The equivalent of at least one-fifth of the specified work is to be completed on or before June 2, 1990.
3. The whole of said work is to be completed on or before December 2, 1992.
4. The limit of time for proof of beneficial use of water appropriated in accordance herewith is December 2, 1996.
5. The water appropriated shall be used for the purpose of water supply point for a troop training area
6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be unlawfully impaired by this appropriation.
7. The amount of the appropriation granted shall not exceed 0.16 cubic feet per second; neither shall it exceed the amount of water needed for the beneficial uses served and to which water is actually and beneficially applied for drinking & sanitary purposes on or before December 2, 1996. The water is to be used during the following described annual period: Apr 1 - Nov 30

WATER MANAGEMENT BOARD

By: FEB 9 1988
Chief Engineer

Division of Water Rights
 Dept. of Water and Natural Resources

John Hatch, 19

(type or print in ink)

1. Well Information - Proposed construction

- a) Drill Hole Diameter 6" Depth 600'-700'
- b) Casing Type Schedule 40 Black Iron Pipe Diameter 4" Thickness
- c) Screen Type Unknown Diameter 4" Thickness
- d) Gravel Pack Thickness See Attachment II Length of Gravel Pack See Attachment II
- e) Depth to Top of Water Bearing Material See Attachment II
- f) Depth of Water (ground surface to water level) See Attachment II
- g) Distance to nearest existing domestic well:
- On applicants property On property owned by others

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

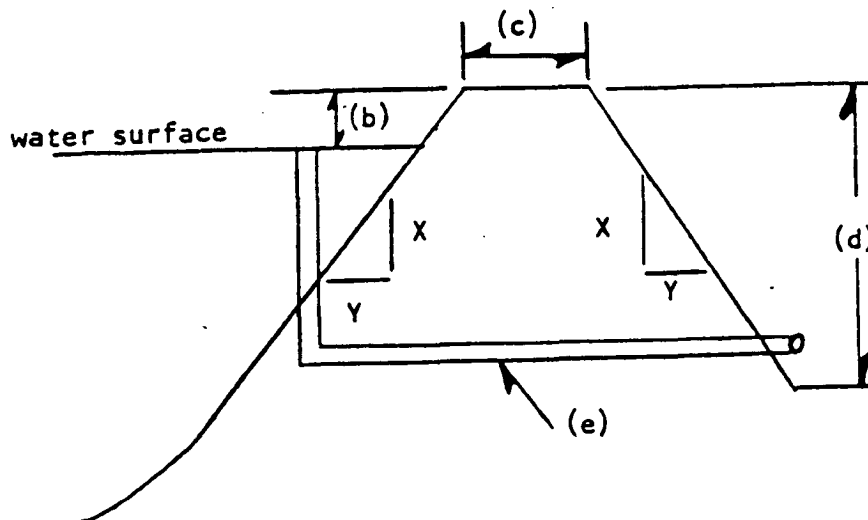
f) X & Y Slope
Upstream

Downstream

Surface Area of Impoundment

Storage acre feet

Drainage area above dam



Signature of Applicant



WELL #1
1820' EAST AND
450' SOUTH OF
NORTHWEST CORNER
OF S3T1N, R7E

WELL #2
1360' WEST AND
2100' NORTH OF
SOUTHEAST CORNER OF
S5T1N, R7E

WELL #3
1400' WEST AND
350' SOUTH OF
SOUTHEAST CORNER
OF S5T1N, R7E

Table 1.—Bedrock formations and aquifers (modified from Robinson, and others, 1964, p. 6-7; Cattermole, 1969 and 1972; Straetz, 1983, p. 6; and Peterson, 1984, table 1) and Lisenbeyer, 1985)

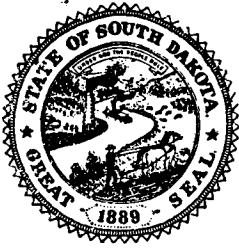
Era	System	Series	Geologic unit	Thickness (feet)	Hydrologic unit	Description	
Mesozoic	Tertiary	Oligocene	White River Formation	0-120	White River aquifer	Sandstone, claystone, and siltstone. Gray and brown. Occurs in isolated outcrops.	
			Intrusive rocks			Alkalic plutons	
	Cretaceous	Upper	Pierre Shale	1,200-1,400	Confining beds	Shale, sandstone, marl, limestone, and bentonite. Gray and black in color.	
			Niobrara Formation	120-225			
			Carlile Shale	600-800			
			Greenhorn Formation	70-370			
			Belle Fourche Shale	350-650			
			Mowry Shale	180-230			
		Lower	Newcastle Sandstone	0-95	Newcastle aquifer ^{1/}	Sandstone, siltstone, shale, and claystone. The lateral equivalent of the Dakota Sandstone, a major aquifer in eastern South Dakota (Schoon, 1971), the Newcastle is too thin and fine-grained in this area to be a major aquifer.	
			Skull Creek Shale	110-321	Confining bed	Shale; black or dark gray in color.	
			Inyan Kara Group	Fall River Formation or Sandstone	10-200	Inyan Kara aquifer (Layer 1)	Sandstone, conglomeratic sandstone, shale, siltstone, and claystone. Coal beds near base locally. Gray, brown, yellow, black, white, red, and green in color. Thickness varies within short distances. Thin bedded to massive. The top is generally identifiable by the presence of brown sandstone, however, interbedded black shale in the Fall River Formation may be mistaken for the Skull Creek Shale.
				Lakota Formation	30-300		
	Jurassic	Upper	Morrison / Unkpapa Formation / Sandstone ^{2/}	20-260 / 0-150	Confining beds	Shale, siltstone, sandstone, limestone, and massive gypsum beds. Red, green, gray, yellow, pink, and maroon in color. Parts of these geologic units are aquifers locally, in particular the sandstone members of the Sundance Formation. The upper contact of the Morrison Formation is often difficult to identify because thin, discontinuous, gray sandstone beds in the Morrison are similar to those in the Lakota Formation. The Minnekahta Limestone is particularly easy to identify in the subsurface by its lithology and color; it is gray or pink limestone which stands out in comparison to the red or maroon shales in the overlying and underlying units.	
			Sundance Formation	145-530			
		Middle	Gypsum Spring Formation ^{3/}	0-201			
	Triassic		Speersfish Formation	450-845			
		Permian	Minnekahta Limestone	25-65			
Opeche Formation or Shale	50-199						
Paleozoic	Pennsylvanian	Minnelusa Formation	340-800	Minnelusa aquifer (Layer 2)	Sandstone, limestone, dolomite, and shale. Local gypsum and anhydrite. Yellow, white, brown, purple, red, and gray in color. Thin to thick bedding. Top is generally identifiable by change from the maroon and red shale and sandstone beds of the Opeche Formation to the yellow, red, and white sandstone beds of the Minnelusa Formation.		
				Confining beds	Limestone, dolomite, sandstone and shale. Gray, red, salmon, purple, and white in color. Thin to thick bedding. Red clayey shale commonly at base of the formation.		
	Mississippian	Madison Limestone or Pahasapa Limestone	400-850	Madison aquifer (Layer 3)	Limestone, locally dolomitic. Gray or buff in color. Generally massive, cavernous in upper part. Permeability from fractures and solution features. Distinguishable from the Minnelusa by the buff color and lack of bedding.		
	Devonian	Englewood Formation	40-75	Confining beds	Limestone, dolomite, and shale. Pink, buff, and green in color. The Whitewood Dolomite is the stratigraphic equivalent of the more extensive Red River Formation. The Englewood Formation appears to be, based on the location of springs and the reaches of stream infiltration, to be the hydrologic base of the Madison aquifer. The Englewood Formation is identified by its distinctive pink-colored limestone beds.		
	Silurian	Not present	0				
	Ordovician	Whitewood Dolomite or Limestone or Red River Formation	50-427				
		Winnipeg Formation	60-179				
	Cambrian	Deadwood Formation	300-500	Deadwood aquifer ^{1/}	Sandstone, shaly limestone, and shale. White, red, brown, green, and gray in color. Missing in some areas where replaced by intrusives.		
	Proterozoic				Base of hydrologic system		

- 1/ Minor source of supply in the study area.
2/ Only in the southern and eastern Black Hills.
3/ Only in the northern and western Black Hills.

Table 1.—Bedrock formations and aquifers (modified from Robinson, and others, 1968, p. 6-7; Cartermole, 1969 and 1972; Staats, 1983, p. 6; and Peterson, 1988, table 1) *and Lisensbre, 1985*

Era	System	Series	Geologic unit	Thickness (feet)	Hydrologic unit (numbered unit)	Description	
Mesozoic	Tertiary	Oligocene	White River Formation	0-150	White River aquifer	Sandstone, claystone, and siltstone. Gray and brown. Occurs in isolated outcrops.	
			Intrusive rocks			Alkalic plutons	
	Cretaceous	Upper	Pierre Shale	1,200-1,400	Confining beds	Shale, sandstone, marl, limestone, and bentonite. Gray and black in color.	
			Niobrara Formation	120-225			
			Carlile Shale	600-800			
			Greenhorn Formation	70-370			
			Belle Fourche Shale	350-450			
			Mowry Shale	180-230			
		Lower	Newcastle Sandstone	0-95	Newcastle aquifer ^{1/}	Sandstone, siltstone, shale, and claystone. The lateral equivalent of the Dakota Sandstone, a major aquifer in eastern South Dakota (Schoon, 1971), the Newcastle is too thin and fine-grained in this area to be a major aquifer.	
			Skull Creek Shale	110-321	Confining bed	Shale; black or dark gray in color.	
			Inyan Kara Group	Fall River Formation or Sandstone	10-200	Inyan Kara aquifer (Layer 1)	Sandstone, conglomeratic sandstone, shale, siltstone, and claystone. Coal beds near base locally. Gray, brown, yellow, black, white, red, and green in color. Thickness varies within short distances. Thin bedded to massive. The top is generally identifiable by the presence of brown sandstone, however, interbedded black shale in the Fall River Formation may be mistaken for the Skull Creek Shale.
				Lakota Formation	30-300		
	Jurassic	Upper	Morrison / Unkpapa Formation / Sandstone ^{2/}	20-260 / 0-150	Confining beds	Shale, siltstone, sandstone, limestone, and massive gypsum beds. Red, green, gray, yellow, pink, and maroon in color. Parts of these geologic units are aquifers locally, in particular the sandstone members of the Sundance Formation. The upper contact of the Morrison Formation is often difficult to identify because thin, discontinuous, gray sandstone beds in the Morrison are similar to those in the Lakota Formation. The Minnekahta Limestone is particularly easy to identify in the subsurface by its lithology and color; it is gray or pink limestone which stands out in comparison to the red or maroon shales in the overlying and underlying units.	
		Middle	Sundance Formation	145-330			
			Gypsum Spring Formation ^{3/}	0-201			
	Triassic		Spearfish Formation	450-845			
	Permian		Minnekahta Limestone	25-65			
		Opeche Formation or Shale	50-199				
Paleozoic	Pennsylvanian	Mimelusa Formation	340-800	Mimelusa aquifer (Layer 2)	Sandstone, limestone, dolomite, and shale. Local gypsum and anhydrite. Yellow, white, brown, purple, red, and gray in color. Thin to thick bedding. Top is generally identifiable by change from the maroon and red shale and sandstone beds of the Opeche Formation to the yellow, red, and white sandstone beds of the Mimelusa Formation.		
				Confining beds	Limestone, dolomite, sandstone and shale. Gray, red, salmon, purple, and white in color. Thin to thick bedding. Red clayey shale commonly at base of the formation.		
	Mississippian		Madison Limestone or Pahasapa Limestone	400-850	Madison aquifer (Layer 3)	Limestone, locally dolomitic. Gray or buff in color. Generally massive, cavernous in upper part. Permeability from fractures and solution features. Distinguishable from the Mimelusa by the buff color and lack of bedding.	
	Devonian		Englewood Formation	40-75	Confining beds	Limestone, dolomite, and shale. Pink, buff, and green in color. The Whitewood Dolomite is the stratigraphic equivalent of the more extensive Red River Formation. The Englewood Formation appears to be, based on the location of springs and the reaches of stream infiltration, to be the hydrologic base of the Madison aquifer. The Englewood Formation is identified by its distinctive pink-colored limestone beds.	
	Silurian		Not present	0			
	Ordovician		Whitewood Dolomite or Limestone or Red River Formation	50-427			
			Winnipeg Formation	60-179			
	Cambrian		Deadwood Formation	300-500	Deadwood aquifer ^{1/}	Sandstone, shaly limestone, and shale. White, red, brown, green, and gray in color. Missing in some areas where replaced by intrusives.	
	Precambrian				Base of hydrologic system		

- 1/ Minor source of supply in the study area.
2/ Only in the southern and eastern Black Hills.
3/ Only in the northern and western Black Hills.



STATE OF SOUTH DAKOTA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS
OFFICE OF THE ADJUTANT GENERAL
2823 WEST MAIN STREET
RAPID CITY, SOUTH DAKOTA 57702-8186

DIVISIONS
National Guard
Emergency Disaster Services
Veterans Affairs

September 10, 1987

SUBJECT: Application for a Water Permit and/or Right

Water Rights Division, DWNR
Joe Foss Building
Pierre SD 57501



Dear Sirs:

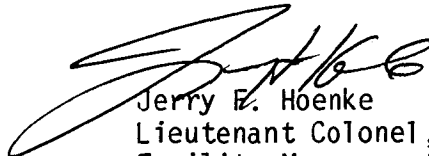
The Department of Military and Veterans Affairs is applying for a water permit so that we may establish a well on our property. Well #3 is located on West Camp Rapid and will be utilized as a water supply point for the troop training area.

Enclosed is an application form, for purposes other than irrigation, it is our understanding that we are exempt from paying the filing fees, but will be responsible for paying the publication cost.

Should you have any questions or need further information, please contact Ted Johnson at 394-6670, we would appreciate being kept informed as to the progress of the application. Thank you for your cooperation in this matter.

Sincerely,

Enclosures


Jerry E. Hoenke
Lieutenant Colonel, CE
Facility Management Officer



Department of Water & Natural Resources

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

October 7, 1987

Jerry F. Hoenke
2823 West Main St
Rapid City SD 57702-8186

Dear Mr. Hoenke:

This letter is in response to the water permit application for the Dept. of Military & Veterans Affairs received on September 11, 1987. The legal description of the well location needs to be clarified before the application can be processed. Well No. 3 as located on the enclosed map does not appear to be in the location described on the application or map (1200 feet W and 1800 feet N of the Southwest corner of Section 5-T1N-R7E). I believe the correct legal description should be approximately 1400 feet W and 350 feet N of the Southeast corner of Section 5, T1N, R7E assuming the well is marked in the correct location on the map.

Please make the needed corrections on the map and application and return to the Water Rights Division for further processing. Contact us if you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read "Ron Duvall".

RON DUVALL
Natural Resources Engineer
605-773-3352

enclosure

REPORT ON APPLICATION NO. 2036-2
South Dakota Department of Military & Veterans Affairs
October 19, 1987

This application proposes to appropriate 0.16 cubic feet of water per second from one well 600-700 feet deep to be located in the SW1/4 SE1/4 of Section 5, T1N, R7E. The well will be used to supply water for a troop training area.

Aquifer - Minnelusa Formation

Geology and Aquifer Characteristics

The Minnelusa Formation is an assemblage of alternating beds of sandstone, limestone and dolomite, with lesser amounts of black shale and chert. The formation is under artesian conditions and underlies approximately 1,371,520 acres of Pennington County and contains an estimated 51,432,000 acre-feet of recoverable water in storage (Allen, 1984). Recharge to the aquifer has not been quantified, but occurs through direct infiltration of precipitation at the outcrop area, and potentially from upward movement of water from the Madison Limestone. Wells producing from the Minnelusa yield 6-1000 gpm and have specific capacities of 0.039- 2.5 gpm/ft (Water Rights Division Files, 1985). In the area of the proposed wells, the top of the Minnelusa is 150-200 feet below the land surface, and the formation is at least 400 feet thick (Water Rights Division Files, 1985).

The Water Rights Division monitors three observation wells in the area of the proposed wells: PE-65A, a Madison Well; PE-64A, a Minnelusa Well; and PE-64B, a Minnelusa Well. The wells fluctuate seasonally in response to recharge and discharge of the aquifers, but do not reflect a decline of head pressure or flow.

Existing Water Rights

Fifteen permits, appropriating water from the Minnelusa Formation, have been issued within approximately two miles of the proposed wells. They include:

<u>Permit No.</u>	<u>Diversion Rate</u>	<u>Owner & Use</u>
433-2	0.84 cfs	City of Rapid City, Municipal
434-2	0.55 cfs	City of Rapid City, Municipal
435-2	1.78 cfs	City of Rapid City, Municipal
436-2	1.55 cfs	City of Rapid City, Municipal
438-2	0.22 cfs	City of Rapid City, Municipal
506-2	0.34 cfs	Base Central Mix, Commercial
716-2	0.22 cfs	Julian Staven, Domestic
902-2	3.14 cfs	SD Cement Plant, Future Use
1155-2	0.53 cfs	Spring Brook Acres Water Users Assoc., Suburban Housing
1451-2	0.17 cfs	John M. Hillard, Commercial

1729-2	0.17 cfs	Carriage Hills Water Assoc., Suburban Housing
1943-2	0.10 cfs	Lake Park Motel, Commercial
1952-2	0.17 cfs	SD Dept. of Military & Veterans Affairs, Domestic
1953-2	0.17 cfs	SD Dept. of Military & Veterans Affairs, Irrigation
1990-2	0.07 cfs	Chapel in the Hills, Irrigation

Conclusions

1. Application No. 2036-2 proposes to appropriate 0.16 cfs from a Minnelusa well for domestic use.
2. The Minnelusa is a viable source of water in this area.
3. Observation wells in the area do not show a decline in head pressures of the Minnelusa.
4. Average annual recharge has not been quantified for the formation.
5. There is no aquifer test information available for this area, but the well will have a relatively low withdrawal rate and therefore should cause little or no adverse impacts on existing permits.
6. The wells should be constructed according to the Well Construction Standards of South Dakota, Chapter 74:02:04.

James L. Wendte

James L. Wendte
Natural Resources Engineer

References

- Allen, J.C., Iles, D.L., Peters, A.K., 1984, Analysis of Ground Water and Streamflow Data Western Dakotas Region of South Dakota: Tasks 3 & 4: Groundwater Resources Inventory: Department of Water and Natural Resources, Division of Geological Survey, Vermillion, South Dakota, 57069, U.S. Army Corps of Engineers Contract No. DAWC 45-82-C-0151.
- Division of Water Rights, "Water Permit and Domestic Well Log Files", DWNR, Pierre, SD, 1985.

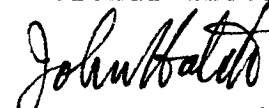
RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 2036-2, SD Dept of Military and Veteran Affairs

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. 2036-2, South Dakota Department of Military and Veteran Affairs, 2823 West Main Street, Rapid City SD.

The Chief Engineer is recommending APPROVAL of Application No. 2036-2 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. 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.
2. The casing of the well to be constructed under Permit No. 2036-2 shall be constructed by a licensed well driller and pressure grouted with cement (bottom to top) from the producing formation to the surface and the well constructed in compliance with Water Management Board Well Construction Rules, Chapter 74:02:04.

See the attached report for additional information.



JOHN HATCH, Chief Engineer
October 22, 1987



Department of Water & Natural Resources

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

Water Rights Division
(605) 773-3352

October 23, 1987

NOTE:

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

SD Dept. of Military & Veteran Affairs
2823 West Main
Rapid City, South Dakota 57702-8126

Dear Sir:

Your Application No. 2036-2 for a permit to appropriate water for

institutional use, has been examined and found to
comply with the South Dakota Water Laws and applicable rules. A notice of
your intent to appropriate water has been sent to the Publisher of the

Rapid City Journal printed at Rapid City

South Dakota. For your information, a copy of this notice, the recommendation
of the Chief Engineer and a report on the application are enclosed. Please
review this notice prior to publication and notify this office, if you have
any corrections or questions.

BE SURE TO CONTACT THE ABOVE NEWSPAPER IMMEDIATELY TO AUTHORIZE PUBLICATION
OF YOUR NOTICE OF INTENT TO APPROPRIATE WATER 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 at least twenty days before the board
meeting. We must receive Proof of Publication before the application can be
considered by the Water Management Board.

Sincerely,

RON DUVALL
Natural Resources Engineer

enclosures



Department of Water & Natural Resources

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

October 23, 1987

Rapid City Journal
Box 450
Rapid City, South Dakota 57701

Dear Sir:

Enclosed is a Notice of Hearing on Application No. 2036-2. Please publish this notice once each week for two consecutive weeks in your paper. The first publication should be on or before October 30, 1987.

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 SD Dept. of Military & Veteran Affairs, 2823 W. Main, Rapid City, SD.

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. The permit application cannot be considered by the Water Management Board until proof of publication has been received.

Sincerely,

Ron Duvall
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

FIRST TRANSMITTAL NOTICE
No. _____

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

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

No. 2036-2

Instruction to Newspaper - Publish first publication of the following Notice on or before October 30, 1987 with 2nd publication 1 week later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 2036-2 to Appropriate Water
~~and/or to Amend Water Permit or Water Right No. _____~~

Notice is hereby given that the South Dakota Dept. of Military and Veteran Affairs whose mailing address is
2823 West Main St., Rapid City, South Dakota has made an application for a permit

to appropriate 0.16 cubic feet of water per second from 1 well (Minnelusa Formation)
 600-700 feet deep to be located in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 5-T1N-R7E. The well is to
 provide a water supply for a troop training area.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends

APPROVAL of Application No. 2036-2 because 1) unappropriated water is available,
 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and
 4) is in the public interest.

This application will be considered by the Water Management Board at Howard Johnson,
Roosevelt & Jefferson rooms, 2211 LaCrosse, Rapid City SD, Dec. 2 19 87 at 10:00 am.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the applicant and the Chief Engineer by November 20, 1987. The petition may be informal, but it must include a statement describing the petitioners interest in the application, the reasons for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 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; (ground) 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; (future use) ~~46-5-38 thru 46-5-40; (transfer lands) 46-5-30.4, 46-5-33 thru 46-5-35; (10,000 AFA) 46-5-20.1, 46-5-8.1; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15; (future use) 74:02:01:24 thru 74:02:01:25; (10,000 AFA) 74:02:01:15:02 thru 74:02:01:15:05.~~

This hearing is an adversary proceeding. The applicant or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWNR, Joe Foss Bldg, Pierre SD (605 773-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by November 20, 1987.

No. _____

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) ss.
County _____)

I, Mary K. Garness hereby

certify that the annexed printed copy of Notice of Intent to Appropriate

Water was taken from the Rapid City Journal

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 Rapid City

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

October 30, 1987

November 6, 1987

Mary K. Garness
(Signature)

Bookkeeper
(Title)

November 6, 1987

(Date Signed)



Cost of Printing: Ran 8 15/16 inch legal adver-

tising in the Rapid City Journal on October 30

and November 6 @ \$4.20 per inch = \$75.08

Ran public notice of hearing L298

Oct. 30, Nov. 6 L298

**NOTICE OF HEARING ON
APPLICATION NO. 2036-2
TO APPROPRIATE WATER**

Notice is hereby given that the South Dakota Dept. of Military and Veteran Affairs whose mailing address is 2823 West Main St., Rapid City, South Dakota has made an application for a permit to appropriate 0.16 cubic feet of water per second from 1 well (Minnelusa Formation) 600-700 feet deep to be located in the SW 1/4 SE 1/4 Section 5-T1N-R7E. The well is to provide a water supply for a troop training area.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends approval of Application No. 2036-2 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at Howard Johnson, Roosevelt & Jefferson Rooms, 2211 LaCrosse, Rapid City, S.D., Dec. 2, 1987 at 10:00 a.m.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the applicant and the Chief Engineer by November 20, 1987. The petition may be informal, but it must include a statement describing the petitioner's interest in the application, the reasons for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 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; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

This hearing is an adversary proceeding. The applicant or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWNR, Joe Foss Bldg., Pierre, SD (605 773-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by November 20, 1987.



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

Water Rights Division
605 773-3352

2036-2

FEB 9 1988

Department of Military & Veterans Affairs
2823 West Main Street
Rapid City, South Dakota 57702-8186

Dear Sir:

Enclosed herewith is your Water Permit No. 2036-2 as approved by the Water Management Board authorizing you to construct your water diversion system and the water to beneficial use, not exceeding the limits as specified in said Water Permit No. 2036-2.

Also enclosed is Form 10, Notice of Completion of Works and Application of Water to Beneficial Use, which you are to complete and submit to the Chief Engineer when you have completed the system and/or have put the water to beneficial use. An inspection can then be scheduled so that your 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

JH: ms

enclosure

PLEASE NOTE: Certain changes can be made in your permit within the five year construction period, usually without affecting the priority date provided an application to amend your permit is made within the five year period-i.e. changes in location or number of diversion points (wells) or location of land to be irrigated. Well locations for wells into the same aquifer can be moved up to 660 feet without application.

Applications to amend a permit after the five year construction period will be assigned a new priority date. Applications to change water sources, to add lands or increase original diversion rates, if approved will usually receive the date of the new application as a priority date regardless of the five year construction period.

NOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USE



Date 16 Feb 88

TO: Water Rights Division, DWR
Joe Foss Building
Pierre SD 57501-3181

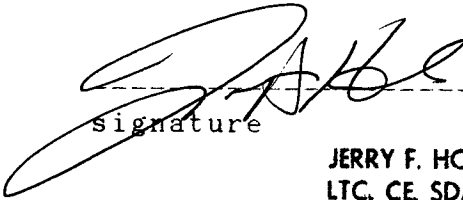
FROM: DEPARTMENT OF MILITARY + VET AFFAIRS 2823 WEST MAIN Rapid City SD
name address city

I have completed the construction of the water diversion system and I have put the water to beneficial use to the maximum extent it is going to be used. I have not exceeded the amounts specified in Water Permit No. 2036-2.

Water Permit No. 2036-2 states that the diversion system is to be constructed by DEPT. MIL + VET AFFAIRS, and that the water it put to beneficial use by TROOP TRAINING.

The diversion system was completed on 3 OCT 87.
Applying the water to beneficial use was completed on N/A.

You may schedule an inspection so that the Water License may be issued.


signature

JERRY F. HOENKE
LTC, CE, SDARNG
FACILITY MANAGEMENT OFFICER

Approval of Location Change and/or Additional Diversion Point(s)

NAME: Department of the Military

ADDRESS: 2823 W Main St., Building 420, Rapid City SD 57702

DATE: May 17, 2017

COUNTY: Pennington

TELEPHONE: 605.394.6670

AUTHORITY:

Pursuant to SDCL 46-5-13.1, the location of a diversion point may be changed or additional diversion points may be licensed provided the following conditions are met and the potential for interference with other existing diversions is not increased:

- **Developed water source same as permitted source and no additional water appropriated**

Yes, Minnelusa Aquifer.

- **If irrigation, no new land is irrigated**

N/A

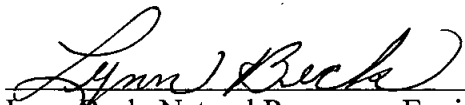
- **Review of Existing Diversions**

There are four water rights/permits appropriating water from the Minnelusa Aquifer within one mile of this diversion point. The closest being 1952-2 located 1,115 feet to the southeast and also held by the Department of the Military. The four water rights/permits are appropriating a total of 1.28 cfs.

Water Permit No. 2036-2 authorizes one well located in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ and the diversion of 0.16 cfs. An inspection of 2036-2 found the well located in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 5-T1N-R7W and diverting 0.029 cfs. Due to the low withdrawal rate the well should not have an adverse impact on existing water rights/permits.

RECOMMENDED ACTION

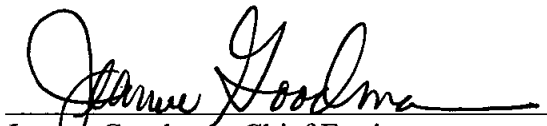
Based on the above criteria, it is recommended that the diversion point be licensed as developed.



Lynn Beck, Natural Resources Engineer III
Water Rights Program

The Chief Engineer makes a finding pursuant SDCL 46-5-13.1 and ARSD 74:02:01:14.01 that:

This change in location and/or additional diversion point(s) does not increase the potential for adverse effects to existing diversions.



Jeanne Goodman, Chief Engineer
Water Rights Program

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 2036-2

I have this day, April 12, 2017 made a thorough examination of the water use system constructed by Department of the Military (formerly Military and Veterans Affairs @ Camp Rapid), 2823 W Main St, Building 420, Rapid City, SD 57702-8186 of Permit No. 2036-2, bearing the priority of 9/11/87 authorizing the diversion of .16 cu. ft. per second of water from 1 well for institutional purposes, in Pennington County.

Inspection contact & relationship to permit holder, if applicable: **Emily Beck, Environmental Coordinator**
emily.s.beck.nfg@mail.mil
605-737-6670

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: 916th Engr Det (WD), Bismark No.Dak. (9/15/1987)
- 2) No. of Wells 1
- 3) Depth(s) 330 feet (Minnelusa Well)
- 4) Well log is available: No The well was completed by the National Guard and a training report was subsequently filed 10/12/1987 which reported a **well depth of 330 ft., casing depth of 312 ft., static water depth of 160 feet, a pump set @ 250 feet and water yield of 60 gpm.** A well development and yield test was performed by CETEC Engineering and Taylor Drilling in November 1999. At that time the engineering report showed debris in the casing at the 224' level and an **assumed well depth of 224 ft., static water at 150 ft. and a well yield from air test to the 220 ft level of 25 gpm.**

Casing:

- 1) Diameter 6 inches
- 2) Length 312 feet (see above)
- 3) Type Steel

Screen:

- 1) Type N/A
- 2) Length - feet
- 3) Static water level 150 ft. (see above)

Pump:

- 1) Make Grundfos
- 2) Model 10S15-21
- 3) Size 4" in.
- 4) Capacity 13 GPM (This is a 10 gpm pump delivering 13 gpm @ estimated operating condition)
- 5) Horsepower rating 1.5 hp
- 6) Pressure Switch setting 30-50 psi

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

1 1/4" PE pipe to pump house pressure system serving two pipelines with frost free hydrants.

C. Works used to apply water to beneficial use:

Domestic use and fire suppression during Golden Coyote Training (summer camp)

D. Compliance with Permit Requirements:

1) Permit qualifications being abided by : **The well is believed to have been constructed according to SD well construction standards based on other similar wells constructed by the 916th Engr Det during summer training exercises, however a well completion report is not available.**

List any extended period of nonuse: **none**

2) Exceptions to compliance are: **none**

E. Condition and Location:

1. The system is in **good** condition with the point of diversion located as follows:

1,984' N and 2,587' W of SE corner Section 5 T1N R7E (44.072928, -103.301897)

2. The works are capable of diverting and conveying to the place of use **0.029** cu. ft. per second of water (13 gpm) of water which is to be used for **domestic** use and the license should be issued for **0.029** cfs

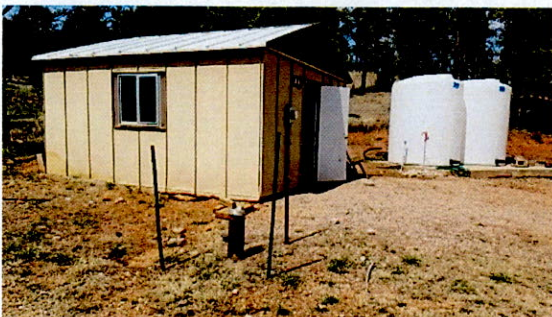
3. All structures, wells and lands on map **Yes**

F. Comments or other permit(s) associated with the project: The current system may be expanded to provide a potable water system at some future date.



Steven Quissell
Water Rights Inspector
DENR Water Rights Program

Date report completed: **5/4/17**

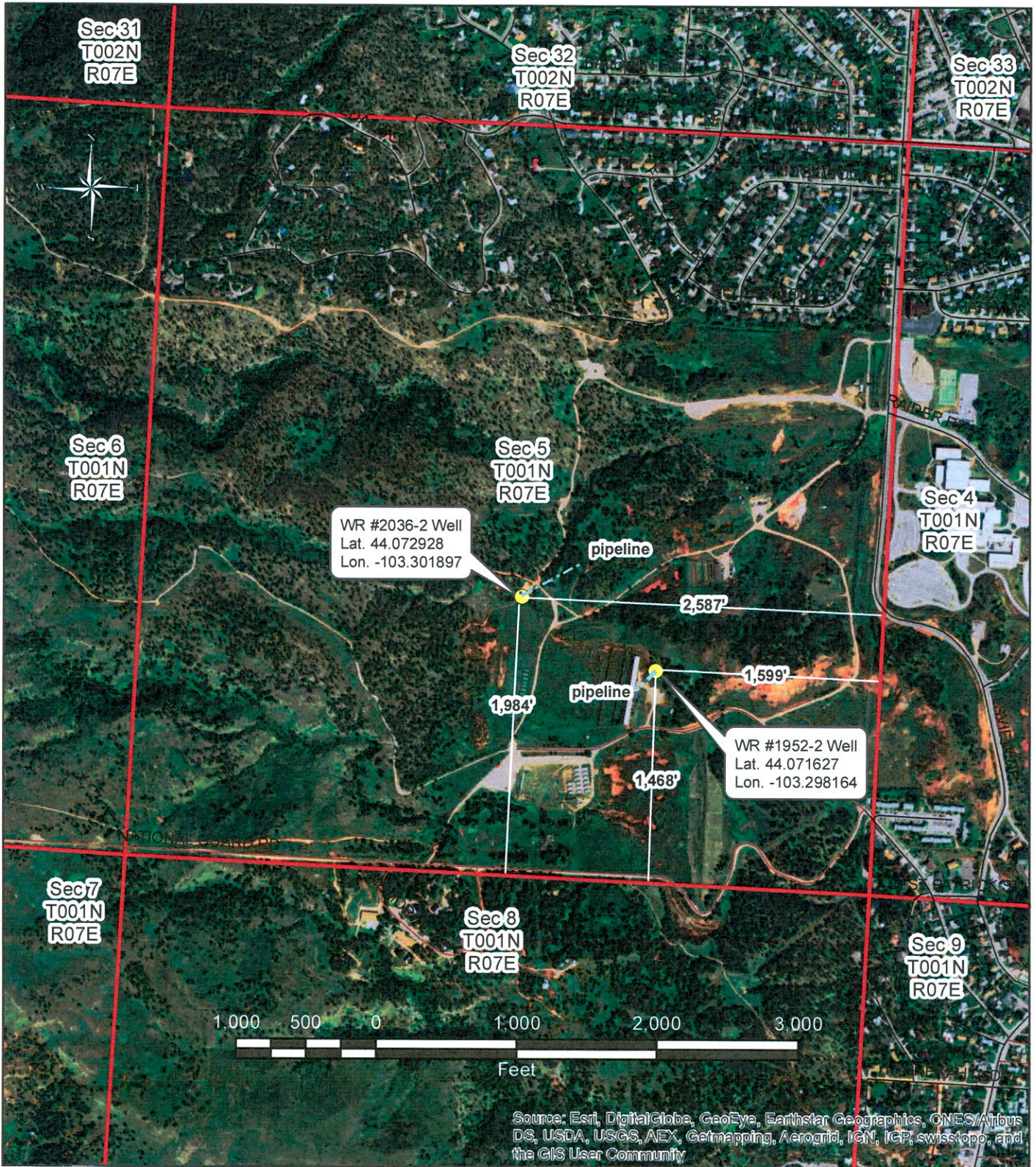


Pump house, well and storage tanks



Pump house appurtenances

Water Right #2036-2 and #1952-2
Department of the Military
4/12/2017



Steven Quissell

Steven Quissell
Water Rights Inspector
DENR Water Rights Program





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

June 23, 2017

1952-2
2036-2

Department of the Military
c/o Emily Beck, Environmental Coordinator
2823 W Main St, Bldg 420
Rapid City SD 57702-8186

Dear Ms. Beck:

Enclosed are partially completed "Notice of Transfer" forms for use in filing an ownership/name change on Water Permit Nos. 1952-2 and 2036-2. The water permits are currently listed in the name of Department of Military & Veterans Affairs.

The transfer forms should be checked over for accuracy and signed by the new owner. Upon completion, return the forms to our office with a required filing fee of \$50.00 each (\$100.00 total).

For informational purposes, under South Dakota Water Law, water must be placed to beneficial use for the purpose it was appropriated at least once every three years in order to maintain water permit. This three year period can be waived if legal excuse exists for the years of nonuse. Enclosed are excerpts of the water right laws and Water Management Board Rules dealing with these issues.

South Dakota Water Law 46-5-30.3 requires Notice of any sale, grant, lease, conveyance or other transfer of a water permit or water right to appropriate water to be filed with this office within ninety days.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Karen Schlaak".

Karen Schlaak
Water Rights Program
605 773-3352
email: karen.schlaak@state.sd.us

enclosures

1952-2

2036-2

FILE DOCUMENTATION

On April 12, 2017, Steve Quissell, a staff engineer with the Water Rights Program conducted a licensing investigation of Water Permit Nos. 1952-2 and 2036-2 held by Military and Veterans Affairs in Rapid City, SD.

Prior to licensing, a letter was written to Emily Beck, Environmental Coordinator with the Department of Military and Veterans Affairs requesting they file a transfer of ownership to get the permits listed in the correct name of Department of Military. Ms. Beck responded with an inquiry as to why the transfers were needed when it was at the directive of the Governor that the department of Military and Veterans Affairs be renamed to Department of Military.

After discussion with staff, a decision was made by the Chief Engineer to make the name change to the permits without going through the process of filing the transfer forms.

The water permits were subsequently changed "in house" and the permits licensed accordingly.



Genny McMath
Water Rights Program
June 29, 2017



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

denr.sd.gov

1952-2
2036-2

JUN 29 2017

Department of Military
Emily Beck, Environmental Coordinator
2823 W Main St
Building 420
Rapid City SD 57702-8186

Dear Ms. Beck:

Enclosed are Water License Nos. 1952-2 and 2036-2. These are the final water right documents completing the 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 in the future the owner drills a replacement well and has no plan to use the old existing 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 Licenses, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Sincerely,

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

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 2036-2

(1) Department of Military (formerly Department of Military & Veterans Affairs), 2823 W Main St., Building 420, Rapid City SD 57702-8186 made Application No. 2036-2, September 11, 1987 for a water permit to divert 0.16 cubic feet of water per second from one well - Minnelusa Aquifer, Pennington County, South Dakota for domestic use purposes. Permit No. 2036-2, with a priority date of September 11, 1987 was approved December 2, 1987 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before December 2, 1992 and for the application to beneficial use of water on or before December 2, 1996.

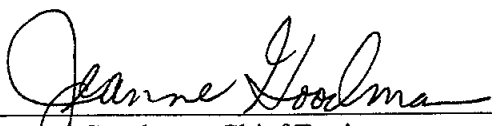
An investigation conducted for licensing purposes found the well under Water Permit No. 2036-2 was not in the location authorized by the permit. Pursuant to SDCL 46-5-13.1, the Chief Engineer makes a finding that the change in location of diversion point does not increase the potential for interference with existing water rights.

(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. 2036-2 is issued a license, bearing a priority date of September 11, 1987 to appropriate 0.029 cubic feet of water per second (13 gallons per minute) from one well - Minnelusa Aquifer for domestic use purposes for the Golden Coyote training summer camp.

The diversion point is located: 1,984 feet north and 2,587 feet west of the SE corner of Section 5-T1N-R7E (NW 1/4 SE 1/4).

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 2036-2 including the following qualifications:

- The well casing shall be pressure grouted with cement (bottom to top) from the producing formation to the surface in compliance with Water Management Board Well Construction Rules Chapter 74:02:04. *A well completion report is not available. Based on similar wells constructed by the 916th Engr Det during summer training exercises it appears the well would have been constructed according to SD Well Construction Standards.*
- 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.



Jeanne Goodman, Chief Engineer
Water Rights Program

Department of Environment and Natural Resources

JUN 29 2017

date

