

WATER PERMIT NO. 1832-1

Name of Applicant: Dallis & Tammy Basel

Address: 16079 Minnehaha Pl, Union Center SD 57787

Phone: 605 985-5205

Amount of Water Claimed: 0.111 cfs (50 gpm)

Total Acres: NA

Source of Water Supply: groundwater (one well)

Water to be used for: domestic and livestock

County: Meade

Type of Waste Disposal System:

Location: 10 miles northwest of Union Center

PRIORITY

Date Received: 1-18-05

Application/License Fee: \$200

Corrected Application Received:

Period of Annual Use: January 1 – December 31

Remarks: will also pipe water to neighbors

Diversion Point: NE ¼ NW ¼ Sec 13-T8N-R10E

Land to be Irrigated: NA

Depth of Well: 3400 feet deep

Well Driller: : Weston Engineering, Inc.

Remarks:

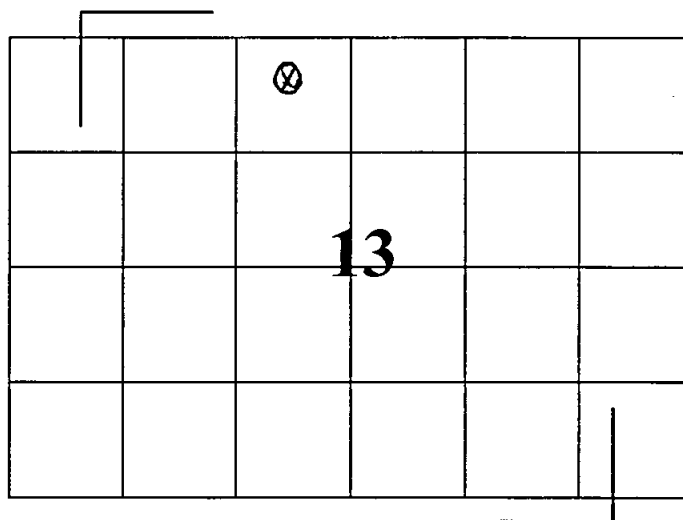
Type of Map: aerial

Prepared by: Tate Lantz

Reviewed and the Number Assigned on: XX

By: Karen Schlaak

Notice of Hearing - date to intervene: _____



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

RECEIVED

JAN 18 2005

WATER RIGHTS
PROGRAM

Mail to:
Water Rights Program
Joe Foss Building
523 E. Capitol
Pierre, SD 57501-3181
(605) 773-3352

No. 1832-1 (office use only)
Hydrologic Unit 10/20202
Basin Belle Fourche River
Newspaper Meade Co. Times-Tribune, Sturgis

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

Check use(s) of water:

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

Type of Application: ☒ New ☐ Vested Right (Use predates Mar 2, 1955) ☐ Future Use Reservation
(check one) ☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____
☐ Amendment/Correction to Permit No. _____

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

1. Name of Applicant Dallis & Tammy Basel Phone 605-985-5205
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address 16079 Minnehaha PL. Union Center State SD 57787
(Street, RR, or Box and City) (Zip Code)

2. Amount of water claimed 0.111 *CFS or 50 **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 well

4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) 1 well
Meade County NW 1/4 13 sec - T8N-R10E
(NE 1/4 NW 1/4) County Meade

5. County or counties where water will be used Meade

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

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)

Water is piped into 2400 gallon below ground cistern and pumped from there to our barns & corrals and house & garden then on into existing pipeline with 6 taps. Also the neighbor to the south is putting in 12 miles of pipeline with 12 tanks, watering 10,000 acres.

STATE OF SOUTH DAKOTA)

County of _____

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, Dallis Basel, 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 Dallis Basel

Subscribed and sworn to before me this 13 day of January 20 05

Viola Barry

Notary Public signature

Exp Date: 4-02-05

**SOUTH DAKOTA
WATER PERMIT NO. 1832-1**

Date of first receipt of application January 18, 2005.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 1832-1 to Dallis & Tammy Basel, 16079 Minnehaha Pl, Union Center SD 57787 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. 1832-1 appropriates 0.111 cubic feet of water per second (50 gallons per minute) from one well completed into the Inyan Kara aquifer (3400 feet deep) located in the NE ¼ NW ¼ Section 13-T8N-R10E.
2. The water appropriated shall be used for the purpose of domestic use including livestock watering and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 1832-1 is May 16, 2005.
5. The date from which applicant may claim right is January 18, 2005.
6. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATION

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.

WATER MANAGEMENT BOARD

By: Garland Erbele

Garland Erbele, Chief Engineer
Water Rights Program

Department of Environment and Natural Resources

JUL 05 2005

date



RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date January 18, 20 05

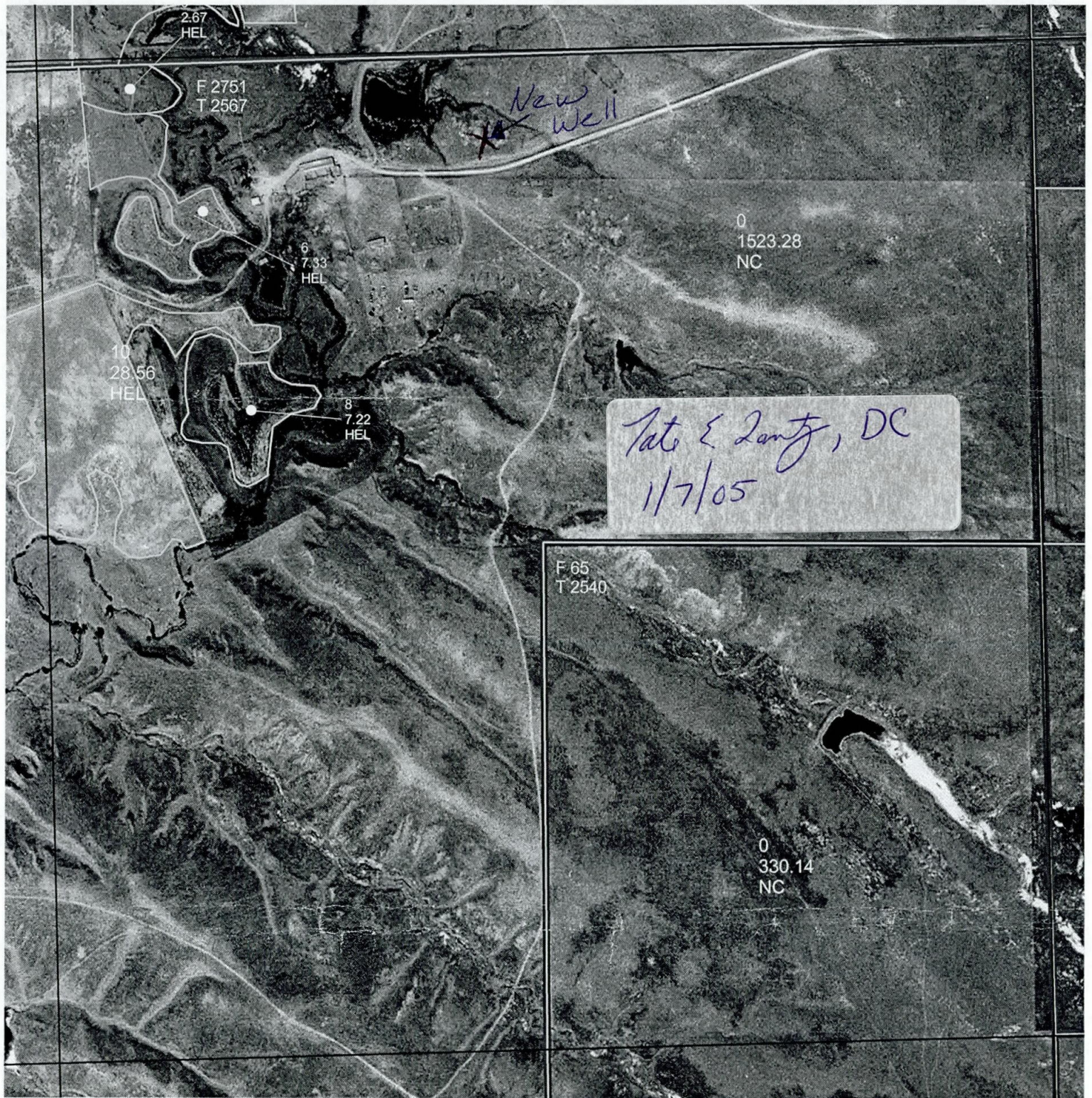
RECEIVED OF Dallis Basel, 16079 Minnehaha Place, Union Center SD 57787

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

Fee for Application for Permit No. <u>1832-1</u> to Appropriate Water, to construct and to put water to beneficial use	150	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>1832-1</u>	50	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	200.00

No. 001043

By David E. Eide
Chief Engineer *gm*



Map Not to Scale
No Official Wetland Determination

Meade County, South Dakota

Sec-Twp-Rng: 13-8N-10E

Map Printed: Jan 7, 2005



LABORATORY ANALYTICAL REPORT

Client: Weston Engineering-Upton

Project:

Samp FRQ/Type:

Lab ID: G04060365-002

Client Sample ID: Basil Well

Location:

Report Date: 06/24/04

Collection Date: 06/14/04 07:00

Date Received: 06/14/04

Sampled By: John R Mason

Matrix: AQUEOUS

Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
MAJOR IONS							
Nitrogen, Nitrate+Nitrite as N	0.06	mg/L		0.05	10	E353.2	06/18/04 14:01 / bs
Sulfate	463	mg/L		1		E300.0	06/15/04 14:51 / mli
METALS, TOTAL							
Calcium	20	mg/L		1		E200.7	06/21/04 18:10 / rth
Iron	4.37	mg/L		0.03		E200.7	06/21/04 18:10 / rth
Magnesium	2	mg/L		1		E200.7	06/21/04 18:10 / rth
Manganese	0.40	mg/L		0.01		E200.7	06/21/04 18:10 / rth
Sodium	421	mg/L		1		E200.7	06/21/04 18:10 / rth
NON-METALS							
Conductivity @ 25 C	1930	umhos/cm		1		A2510 B	06/14/04 16:37 / ser
pH	8.05	s.u.		0.01		A4500-H B	06/14/04 16:46 / ser
Solids, Total Dissolved TDS @ 180 C	1210	mg/L		20		A2540 C	06/15/04 11:01 / mli


Chris Wilson
Project Manager

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Client: Weston Engineering-Upton

Project:

Lab ID: G04060365-002

Client Sample ID: Basil Well

Report Date: 06/24/04

Collection Date: 06/14/04 07:00

Received Date: 06/14/04 14:00

Matrix: AQUEOUS

Sampled By: John R Mason

Analyses	Result	Units	Safe/Unsafe	Qual	Method	Analysis Date / By
Bacteria, E-Coli Coliform	Absent	P/A			A9223 B	06/14/04 15:35 / mii
Bacteria, Total Coliform	Present	P/A	UNSAFE		A9223 B	06/14/04 15:35 / mii

Chris Wilson
Chris Wilson
Project Manager

Comments: The notation "SAFE" indicates that the water was bacteriologically SAFE when sampled.

The notation "UNSAFE" indicates that the water was bacteriologically UNSAFE when sampled.

Method Reference: E - EPA / MCAWW Methodology A - Standard Methods 19th Ed.

**LITHOLOGIC LOG FOR DALLIS BASEL
BASEL #1
MEADE COUNTY, SOUTH DAKOTA
NE NW SEC 13, T8N, R10E**

DEPTH	GENERAL LITHOLOGY	SAMPLE DESCRIPTION	COMMENTS
TOP SOIL			
0- 12	Clay	Brown to gray clay	
PIERRE FORMATION			
12-545	Shale	multi-colored silty calcareous clay - chips of pale And grayish yellow green silty clay	
545- 1510	Shale	hard, platy olive black shale interbedded with siltstone	
1510- 1630	Siltstone	olive black siltstone containing abundant sand and Clayey (Marl) interlayers	
1630-1805	Shale	Olive black shale, occasionally iron stained with interbedded Olive black marl, yellowish gray non-calcareous shale and calcareous siltstone	
TOP OF NIOBRARA FORMATION			
1805-1850	Chalk and shale	Calcareous light gray shale with abundant chalk	
TOP OF CARLILE FORMATION			
1850- 2140	Shale	Dusky blue, fissile, non calcareous shale, pale-dark yellowish brown noncalcareous shale with streaks of v.f. sand	
2140- 2235	Shale	Grayish black non-calcareous shale and limestone interbedded with gray marl and olive gray sandstone	
TOP OF GREENHORN LIMESTONE			
2235- 2280	Limestone	Dark gray with rounded white calcareous grains, light gray sandy limestone with fine yellowish gray lime mudstone	
TOP OF BELLE FOURCHE SHALE			
2280- 2430	Shale	Brownish black, slightly fissile shale; abundant bentonite and minor yellowish brown calcareous shale	
TOP OF MOWRY			
2430- 2760	Shale	Brownish black, fossiliferous shale, pyrite and oxidized iron stains; Interbedded with white arkosic/calcareous sandstone, calcite veining and yellowish brown micaceous shale	
TOP OF MUDDY FORMATION			
2760- 2590	Interbedded shale and sandstone	Brown - black shale containing dolomite concretions, pyrite, calcite veining. Finely laminated black and light olive gray shale with bentonite and calcite cemented v.f. sandstone	

TOP SKULL CREEK SHALE

2590- 3000	Shale	Black shale containing dolomite concretions, pyrite; Olive black shale with iron staining in lower shales
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TOP OF DAKOTA SANDSTONE

3000-3140	Interbedded Shale and Sandstone	Fine grained, calcite cemented, light gray sandstone, with non-calcareous dark gray shale and iron staining in lower olive black shale. Small amount of pyrite. Mostly shale.
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TOP OF FUSON SHALE

3140- 3200	Shale	Dark gray shale with minor amounts of yellowish brown siltstone, pyrite, and light gray sandstone, intermingled reddish and yellowish sandstone
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TOP OF LAKOTA SANDSTONE

3200- 3245	Sandstone	Light gray v.f. to med. grained sub-angular to sub-rounded quartz sandstone Silica cemented sand friable
3245-3290	Shale interbedded sand	Dark gray calcareous-non-calcareous shale intermingled with white clay light gray fine grained sandstone, intermingled with white clay with black streaks
3290- 3370	Sandstone	Light olive gray v.f. to med. grained sub-angular to sub-rounded quartz sandstone

TOP OF MORRISON FORMATION

3370-3400	Shale	Dark gray-green shale, white bentonite clay
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WATER PERMIT APPLICATION NO. 1832-1
DALLIS & TAMMY BASEL
MARCH 10, 2005

Water Permit Application No. 1832-1 proposes to appropriate 0.111 cubic feet of water per second (cfs) (50 gallons per minute) from one existing well, 3400 feet deep, completed into the Inyan Kara aquifer, located in the NE¼ NW¼ Sec. 13, T8N-R10E, Meade County. The water is for domestic use including livestock watering.

AQUIFER: Inyan Kara (INKR)

The Inyan Kara aquifer consists of the Fall River Formation and the underlying Lakota Formation. The log for this existing well identifies 60 feet of the Fuson Shale separating these two formations at this site, but it is often difficult to differentiate the bottom of the Fall River from the top of the Lakota. The two formations are probably hydraulically connected and therefore can be considered a single aquifer. In general, the Inyan Kara aquifer consists of interbedded sandstone (thin bedded to massive), siltstone, and shale. The aquifer is areally extensive, underling over 36,000 square miles of western South Dakota (Allen, 1985). The aquifer underlies 2,107,520 acres and contains an estimated 36,354,720 acre-feet of recoverable water in storage in Meade County alone (Allen, 1985). The top of the Inyan Kara is reported to be 3,000 feet below grade at this well site and the driller reported a static water level of 234 feet below grade in May 2004. The Inyan Kara is estimated to be between 200 and 250 feet thick in this area (Allen, 1985). The thickness of the Inyan Kara aquifer does however, vary considerably within short distances. The Completion Report indicates 370 feet from the top of the Inyan Kara Formation to its base, although not all of this is aquifer material.

WATER AVAILABILITY:

The Water Rights Program does not monitor any observation wells completed into the Inyan Kara aquifer in this area and there is no historic water level data available.

EXISTING WATER RIGHTS:

There are 150 Water Rights/Permits appropriating water from the Inyan Kara aquifer in South Dakota including one future use reservation. Thirty one Water Rights/Permits appropriate water from the Inyan Kara from Meade County. The nearest Inyan Kara appropriation-Water Permit No. 1788-1, Veritas Energy, Inc., is located approximately 25 miles west of this well (Water Rights, 2004).

CONCLUSIONS:

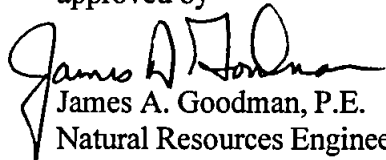
1. The Inyan Kara Aquifer is a viable aquifer in this area, and water is available for this appropriation.
2. Well interference should not be a problem at the proposed well site because of the distance from existing wells.



Ken Buhler

Natural Resources Engineering Specialist

approved by



James A. Goodman, P.E.

Natural Resources Engineering Director

REFERENCES:

Allen, J.C., Iles, D.L., and Petres, A.K., 1984, Analysis of Groundwater and Streamflow Data Western Dakotas Region of South Dakota, Tasks 3A.B.C. and 4A.B.: Groundwater Resource Inventory: South Dakota Department of Water and Natural Resources,

Water Rights Program, 2004, "Water Permit Files": DENR-Water Rights Program,



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 1832-1, Dallis and Tammy Basel**

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. 1832-1, Dallis and Tammy Basel, 16079 Minnehaha Place, Union Center SD 57787.

The Chief Engineer is recommending APPROVAL of Application No. 1832-1 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:

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.

See report on application for additional information.

Garland Erbele, Chief Engineer
April 19, 2005



AFFIDAVIT OF PUBLICATION

COPY

STATE OF SOUTH DAKOTA COUNTY OF MEADE

Pam Buhler, being duly sworn, says: That the during all times hereinafter mentioned, is a legal published in Sturgis, Meade County, South Dakota said times, was employed as an Accounting Clerk knowledge of the facts stated in the affidavit, that is attached, was published in said newspaper for

<u>April 27</u>	200	5
<u>May 4</u>	200	5
_____	200	_____
_____	200	_____
_____	200	_____

that the full amount of the fee charged for publication solely to the benefit of the publisher of said newspaper. No division of the fee has been made with any person or to any other person.

NOTICE OF APPLICATION NO. 1832-1

to Appropriate Water

Notice is given that Dallis & Tammy Basel, 16079 Minnehaha Pl, Union Center SD 57787 has filed an application for a water permit to appropriate 0.111 cubic feet of water per second (50 gallons per minute) from one well completed into the Inyan Kara aquifer (3400 feet deep) located in the NE 1/4 NW 1/4 Section 13-T8N-R10E. The water is for domestic use including livestock watering.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1832-1 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 May 16, 2005.

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

/Black Hills Press is, and DCL 17-2-2, as amended, affidavit is and during all of newspaper and has personal agent, a printed copy which following dates:

_____	200	_____
_____	200	_____
_____	200	_____
_____	200	_____
_____	200	_____

of \$ 37.62, insures or understanding for the has been agreed to be paid

Pam Buhler

Subscribed and sworn to before me this

5 day of 4
Pamela Buhler
Notary Public, South Dakota

Publ. April 27, May 4, 2005
Meade County Times-Tribune

Total Amount

014855
\$ 37.62

RECEIVED

MAY 18 2005

WATER RIGHTS
PROGRAM



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

April 19, 2005

Meade Co. Times-Tribune
PO Box 129
Sturgis SD 57785-0129

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 1832-1 to Appropriate Water to be published twice. Please publish the first notice on April 27, 2005 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Dallis & Tammy Basel, 16079 Minnehaha PL, Union Center SD (Ph # 605-985-5205).

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

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

Sincerely,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

No. 1832-1

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

Date _____

We are in receipt of your letter of April 19, 2005 enclosing Notice to Appropriate Water by Application No. 1832-1 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
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.**

April 19, 2005

Dallis & Tammy Basel
16079 Minnehaha Pl
Union Center SD 57787

Dear Mr. & Mrs. Basel:

Water Permit Application No. 1832-1 for domestic and livestock use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Publisher of the Meade Co. Times-Tribune printed at Sturgis, SD (Ph # 605-347-2503). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, the publisher has been instructed to publish your notice once each week for two consecutive weeks. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the 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.

Instruction to Newspaper - Publish first Notice on April 27, 2005 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 1832-1 to Appropriate Water

Notice is given that Dallis & Tammy Basel, 16079 Minnehaha Pl, Union Center SD 57787 has filed an application for a water permit to appropriate 0.111 cubic feet of water per second (50 gallons per minute) from one well completed into the Inyan Kara aquifer (3400 feet deep) located in the NE ¼ NW ¼ Section 13-T8N-R10E. The water is for domestic use including livestock watering.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1832-1 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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**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

JUL 05 2005

Dallis & Tammy Basel
16079 Minnehaha Pl
Union Center SD 57787

Dear Mr. & Ms. Basel:

Enclosed is Water Permit No. 1832-1 authorizing your water diversion system and beneficial use of the water, 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.

Sincerely,

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

enclosures

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 1832-1

I have this day, August 22, 2016, made a thorough examination of the water use system constructed by Dallis Basel, 16079 Minnehaha Place, Union Center SD 57787 of Permit No. 1832-1, bearing the priority of 1/18/2005 authorizing the diversion of 0.111 cu. ft. per second of the water from one well for domestic and livestock purposes, in Meade County.

Inspection contact & relationship to permit holder, if applicable: **Dallis Basel, Owner**
605-985-5205

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Weston Engineering (2004)
- 2) No. of Wells 1
- 3) Depth(s) 3,400 feet
- 4) Well log is available Yes

Casing:

- 1) Diameter 10 3/4" 0 – 43ft., 7" 43 to 863ft., 5 1/2" – 863 to 3,400 ft.
- 2) Length 3,400 feet
- 3) Type Steel

Screen:

- 1) Type Perforated (1/8" slot)
- 2) Length 168 feet (3,370 to 3'202)
- 3) Static water level 234 feet

Pump:

- 1) Make Grundfos
- 2) Model 40S50-15
- 3) Size 4" pump end, 6" motor
- 4) Capacity 46 GPM
- 5) Horsepower rating 7 1/2 hp

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

The well pumps into three 1,200 gallon cisterns and is then boosted to supply four pipelines originating at the well which utilize (2) 25 gpm pumps and (2) 12 gpm pumps.

C. Works used to apply water to beneficial use:

The system supplies the Basel ranch as well as 3 adjoining ranches with the total cattle numbers estimated at approximately 2,000 hd.

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by : n/a
- 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:
492' S and 2,295' E of the NW corner Section 13 T8N R10E (44.660932, -102.85447)
2. The works are capable of diverting and conveying to the place of use 0.10 cu. ft. per second (46 gpm) of water which is to be used for **domestic and livestock** use and the license should be issued for 0.10 cfs.
3. All structures, wells and lands on map – **no, well only**

F. Comments or other permit(s) associated with the project: none



Steven Quissell
Water Rights Inspector
DENR, Water Rights Program

Date report completed: 8/22/2016

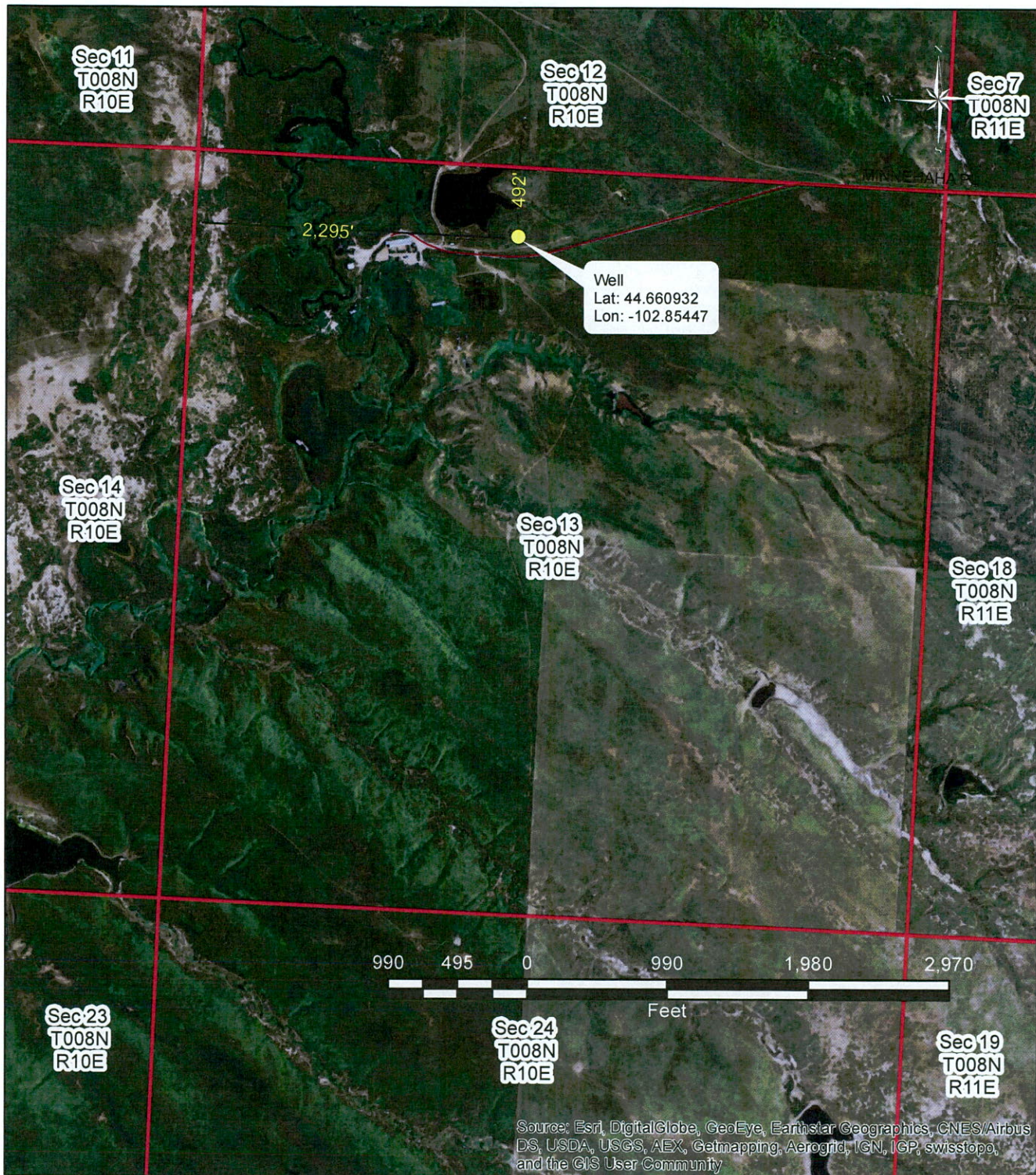


well site, well just out of sight in foreground



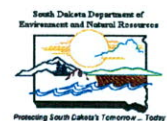
pump appurtenances

Water Right #1832-1
Dallis Basel
8/22/2016



Steven Quissell

Steven Quissell
Water Rights Inspector
DENR Water Rights Program



STATE OF SOUTH DAKOTA

WATER LICENSE NO. 1832-1

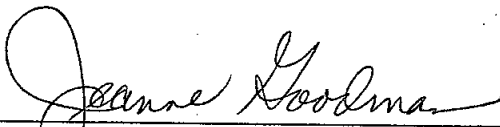
(1) Dallis and Tammy Basel, 16079 Minnehaha Place, Union Center SD 57787 made Application No. 1832-1, January 18, 2005 for a water permit to divert 0.111 cubic feet of water per second from one well – Inyan Kara Aquifer, Meade County, South Dakota for domestic and livestock water purposes. Permit No. 1832-1, with a priority date of January 18, 2005 was approved May 16, 2005 and issued to the applicants for diversion of water with construction of the described water supply system and the application to beneficial use of water completed.

(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 holders and/or owners of Water Right No. 1832-1 are issued a license, bearing a priority date of January 18, 2005 to appropriate 0.10 cubic feet of water per second from one well – Inyan Kara Aquifer for domestic and livestock water purposes.

The diversion point is located: 492 feet S and 2,295 feet E of the NW corner of Section 13-T8N-R10E (NE 1/4 NW 1/4).

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 1832-1 including the following qualification:

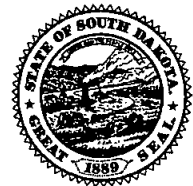
- The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having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



Jeanne Goodman, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

SEP 06 2016

date





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

SEP 06 2016

1832-1

Dallis & Tammy Basel
16079 Minnehaha Place
Union Center SD 57787

Dear Sir:

Enclosed is Water License No. 1832-1. 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. 1832-1, 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,

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

enclosures