

WATER PERMIT NO. 6521-3

Name of Applicant: Pat Walsh

Address: 47844 Co Rd 1B, Elk Point SD 57025

Phone: 605 356-2762

Amount of Water Claimed: 2.67 cfs

Total Acres: 200

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation

County: Union

Type of Waste Disposal System:

Location: 2 miles southeast of Elk Point

PRIORITY

Date Received: 6-21-04

Application/License Fee: \$325

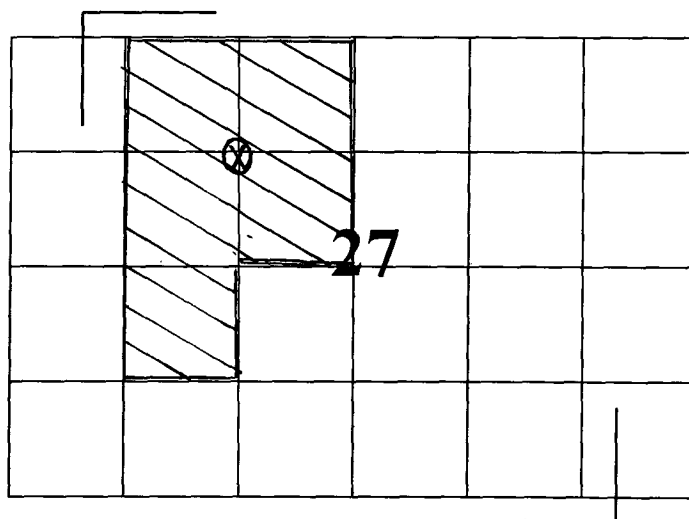
Corrected Application Received: 7-6-04

Period of Annual Use: April 1 – September 30

Remarks:

Diversion Point: center NW ¼ Sec 27-T91N-R49W

Land to be Irrigated: NW ¼, NW ¼ SW ¼ Sec 27-T91N-R49W



Depth of Well: 120 feet deep

Well Driller:

Remarks:

Type of Map: aerial

Prepared by: Racheal Kirkebak, NRCS

Reviewed and the Number Assigned on: 7-6-04

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6521-3</u> (office use only)	Hydrologic Unit <u>10170203</u>
	Basin <u>Sioux River</u>	
	Newspaper <u>Leader Courier, Elk Point</u>	

RECEIVED

JUL - 6 2004

WATER RIGHTS
PROGRAM

Originally
Submitted
6/21/04

Application For Permit To Appropriate Water For Irrigation

Type of Application: X New Vested Right Amendment/Correction to Permit No.
(Use predates Mar 2, 1955)

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

- Name of Applicant Pat Walsh Phone 605-356-2762
(check one) X Owner Tenant/lessee
Mailing Address 47844 Co. Rd. 1B Elk Point State S.D. 57025
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 2.67 *CFS or 1200 **GPM ***AF Total Acreage 200
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable
- Source of water supply well
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)
1 well in the center of the NW 1/4 section 27 91-49
County Union
- County or counties where water will be used Union
- Annual period during which water is to be used April 1 to September 30
- List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
NW 1/4 NW 1/4 section 27	40	NW 1/4 SW 1/4 section 27	40
NE 1/4 NW 1/4 section 27	40		
SW 1/4 NW 1/4 section 27	40		
SE 1/4 NW 1/4 section 27	40		

8. Give a description of the project. (Attach sheet if more space is needed)
This will be a gated pipe irrigation system to furrow irrigate a maximum of 200 acres

STATE OF SOUTH DAKOTA) SS

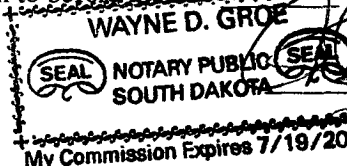
County of Union

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, Pat Walsh, 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 Pat Walsh

Subscribed and sworn to before me this day of 20



Notary Public signature

SOUTH DAKOTA
WATER PERMIT NO. 6521-3

Date of first receipt of application June 21, 2004.

Date of return to applicant for corrections, amendments or changes June 21, 2004.

Date of receipt of corrected application July 6, 2004.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6521-3 to Pat Walsh, 47844 Co Rd 1B, Elk Point SD 57025 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. 6521-3 appropriates 2.67 cubic feet of water per second from one well (Missouri-Elk Point Aquifer) 120 feet deep located in the center of the NW ¼ Section 27 to irrigate 200 acres located in the NW ¼, NW ¼ SW ¼ Section 27; all in T91N-R49W.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 1 – September 30.
3. The date from which applicant may claim right is June 21, 2004.
4. The date of approval of Permit No. 6521-3 is September 7, 2004.
5. One-fifth of the construction is to be completed on or before March 7, 2007.
6. All construction is to be completed on or before September 7, 2009.
7. Water is to be put to beneficial use on or before September 7, 2013.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

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 well authorized by Permit No. 6521-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: Garland Erbele

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

NOV 19 2004

date



Supplemental Information

(type or print in ink)

*application for permit
for new well*

Pat Walsh

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 22" Depth 120'
- b) Casing Type PVC Diameter 16" Thickness Sch 40
- c) Screen Type PVC Diameter 16" Thickness Sch 40
- d) Gravel Pack pea gravel Length of Gravel Pack 50'
- e) Depth to Top of Water Bearing Material 75'
- f) Depth to Water (ground surface to water level) 20'
- g) Distance to nearest existing domestic well:

On applicants property None

On property owned by others 1/2 mile

2. Wastewater Disposal System Information

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

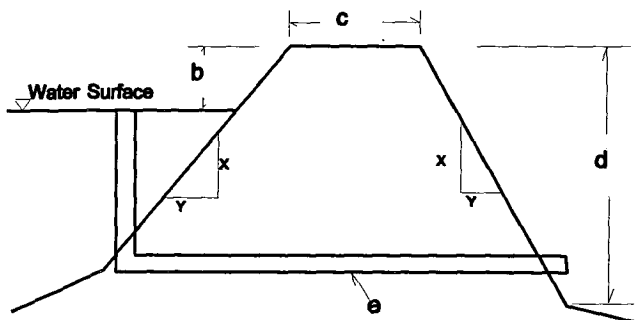
3. Dugout Information

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

4. Water Storage Dams

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

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



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

RECEIVED

JUN 21 2004

WATER RIGHTS
PROGRAM

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date JUNE 21, 20 04

RECEIVED OF Pat Walsh, 47844 County Road 1B, Elk Point SD 57025

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	275	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____	50	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	325.00

No.

001852

By

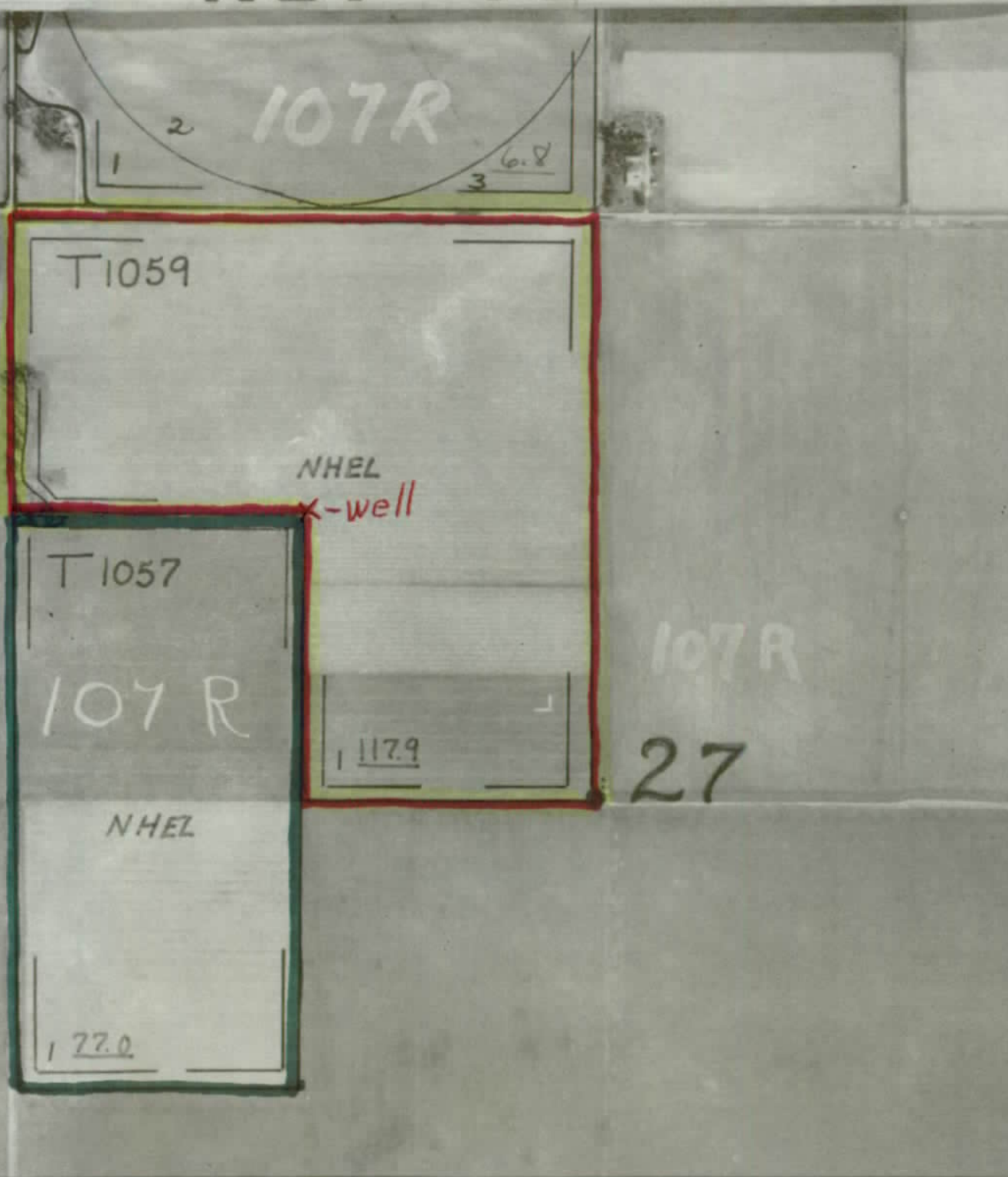
Donald White

Chief Engineer

gm

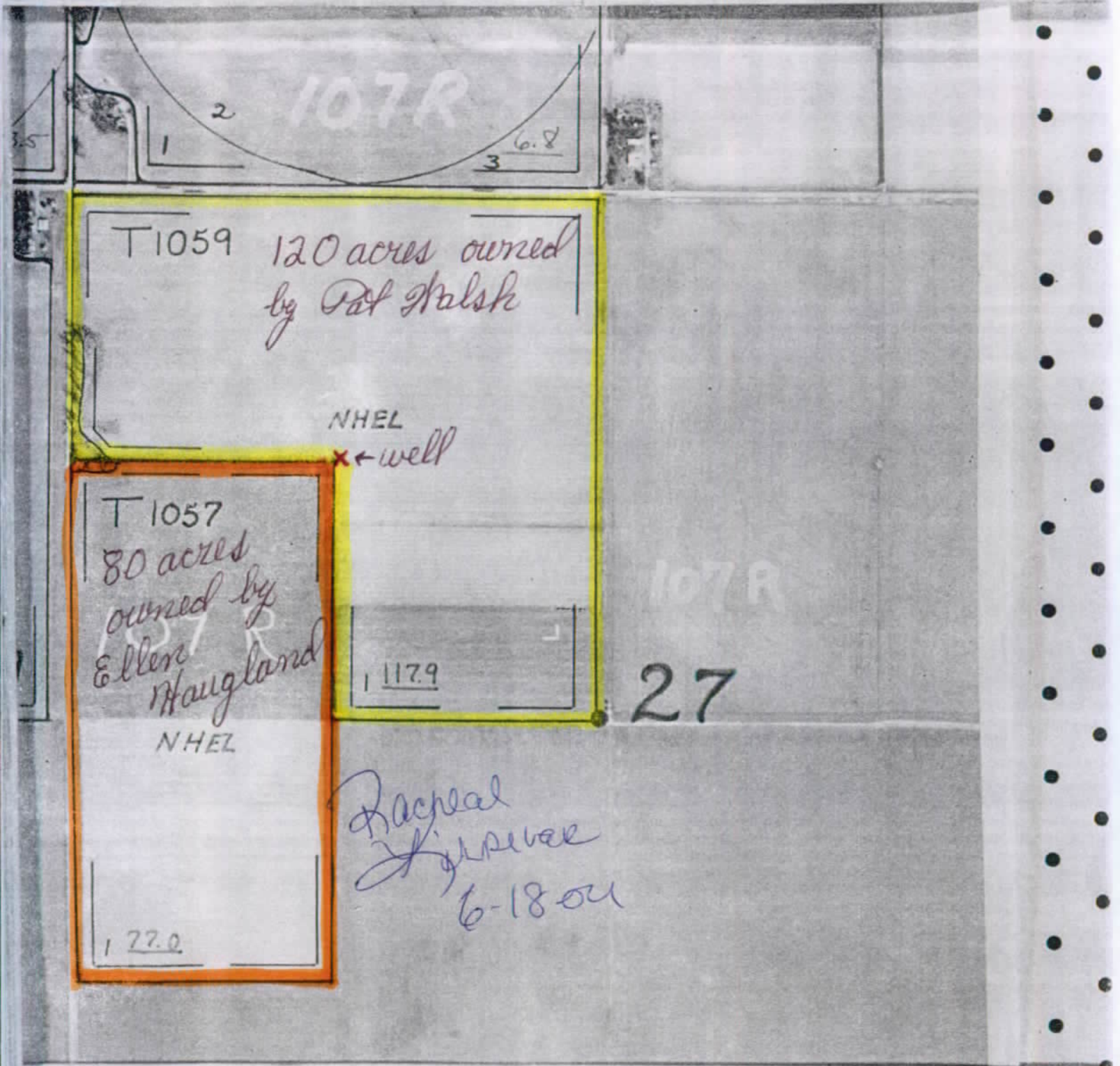
1993

NOT TO SCALE



1993

NOT TO SCALE



Elk Point - East

REPORT ON WATER PERMIT APPLICATION NO. 6521-3

For Pat Walsh
August 3, 2004

Application No. 6521-3 proposes to appropriate 2.67 cfs (1,198 gpm) from one well approximately 120 feet deep located in the center of the NW $\frac{1}{4}$ of section 27 to irrigate 200 acres located in the NW $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$ of section 27; all in T91N R49W in Union County.

AQUIFER – MISSOURI ELK POINT (M-EP)

The Missouri Elk Point is a surficial outwash (sand and gravel) that is under water table conditions in this area. The Missouri Elk Point aquifer as described by Hedges (Hedges, 1982) is roughly the equivalent of the Missouri aquifer as described by Niehus. The aquifer underlies 180 square miles and contains an estimated 1.5 million acre-feet of water in storage in Union County (Niehus, 1994). The aquifer extends into Clay County to the west, blends into the Lower Vermillion Missouri aquifer to the northwest, blends into the Big Sioux South aquifer to the north, and is hydraulically connected to both the Big Sioux and Missouri Rivers. The aquifer also directly overlies the Dakota Formation which is also considered an aquifer in the southern portion of Union County (Niehus, 1994) and probably receives leakage from the Dakota Formation.

No test well data was filed with this application. There is sufficient information available from surrounding irrigation wells, observation wells, test drilling for the county study and domestic wells in the area to evaluate this application.

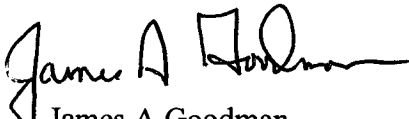
The Water Rights Program monitors two observation wells completed into the Missouri Elk Point aquifer and located within a two mile radius of this application. The nearest of these observation wells is UN-80E and is located about one mile west of this application. The other observation well is UN-77N and is located about one and one-half miles east of this application. Water levels for UN-80E and UN-77N and the others from the Missouri Elk Point aquifer show good response to climatic conditions that is rising water levels during wet years (recharge) and gradually declining water levels during dry years. Hydrographs for UN-80E and UN-77N are included with this report (Water Rights, 2004). In general, the water level records indicate that the aquifer is capable of sustaining additional withdrawals.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There are seven existing irrigation wells within a one mile radius of this application. The aquifer is under water table conditions and is very prolific in this area. Drawdown created by pumping is not significant. This area is intensively irrigated with the water source from the Missouri Elk Point aquifer. The water level record from the observation wells indicate that pumping does not cause significant drawdown to occur. Interference is not expected to be a concern.

CONCLUSIONS

1. Water is available from the Missouri Elk Point aquifer.
2. The aquifer is under water table conditions in this area. Drawdown created by pumping is not expected to be significant. Interference should not be a concern.
3. This well must be constructed in accordance with SD Well Construction Standards.



James A Goodman
Natural Resources Engineer

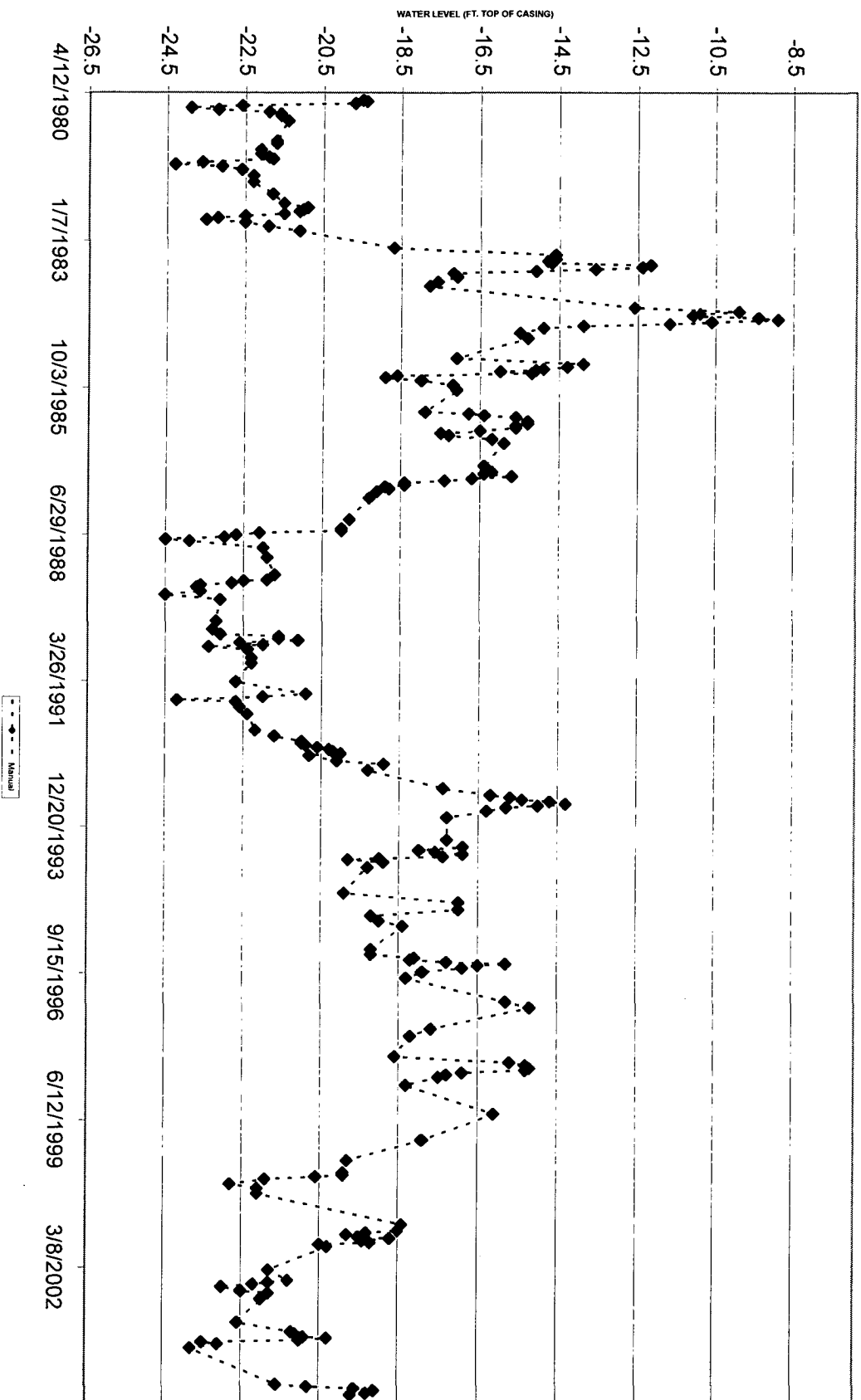
BIBLIOGRAPHY

Hedges, L.S., and others, 1982, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57609.

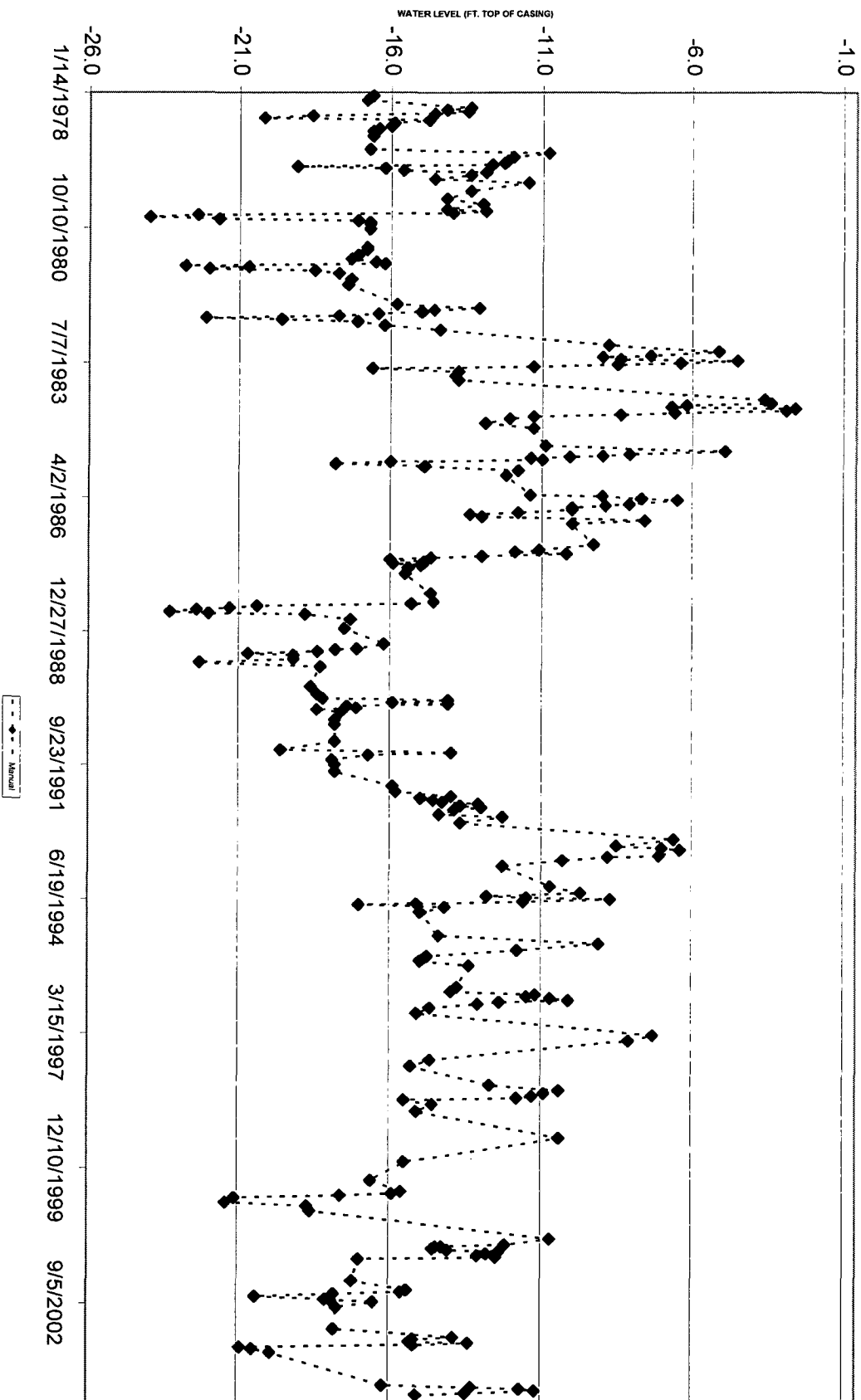
Niehus, C.A., 1994, Water Resources of Lincoln and Union Counties, South Dakota, Water-Resources Investigations Report 93-4195, USGS, Rapid City, SD, 57702.

Water Rights, 2004, Unpublished Observation Well Data for Union County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL UN-80E



WATER RIGHTS' OBSERVATION WELL UN-77N





**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. 6521-3, Pat Walsh**

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. 6521-3, Pat Walsh, 47844 Co. Road 1B, Elk Point SD 57025.

The Chief Engineer is recommending APPROVAL of Application No. 6521-3 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 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 well authorized by Permit No. 6521-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Garland Erbele, Chief Engineer
August 10, 2004

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
 County of Union) SS

I, Susan Odson

certify that the attached printed Notice was taken

from the Leader-Courier

printed and published in Elk Point

County of Union and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

August 19, 2004

August 26, 2004

Cost of Printing \$ 42.68

Susan Odson
 (Signature)

Affidavits Coordinator
 (Title)

Aug. 26, 2004
 (Date Signed)

RECEIVED

AUG 30 2004

WATER RIGHTS
 PROGRAM

**NOTICE OF APPLICATION
 NOS. 6520-3 AND 6521-3 TO
 APPROPRIATE WATER**

Notice is given that Pat Walsh, 47844 Co Rd 1B, Elk Point SD 57025 has filed the following applications for a water permit. Application No. 6520-3 proposes to appropriate 2.67 cubic feet of water per second (cfs) from one existing well (Missouri-Elk Point Aquifer) 120 feet deep located in the W 1/2 SW 1/4 Section 9 to irrigate 70 acres located in the E 1/2 SE 1/4 Section 8; all in T91N-R49W. The applicant is requesting a diversion rate greater than 1 cfs per 70 acres.

Application No. 6521-3 proposes to appropriate 2.67cfs from one well (Missouri-Elk Point Aquifer) 120 feet deep located in the center of the NW 1/4 Section 27 to irrigate 200 acres located in the NW 1/4, NW 1/4 SW 1/4 Section 27; all in T91N-R49W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 6520-3 and 6521-3 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 applications, as recommended, unless a petition is filed opposing the applications or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. 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 September 7, 2004.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, 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.

Publish August 19 and 26, 2004
 34-6-76

Instruction to Newspaper - Publish first Notice on August 19, 2004 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NOS. 6520-3 and 6521-3 to Appropriate Water

Notice is given that Pat Walsh, 47844 Co Rd 1B, Elk Point SD 57025 has filed the following applications for a water permit.

Application No. 6520-3 proposes to appropriate 2.67 cubic feet of water per second (cfs) from one existing well (Missouri-Elk Point Aquifer) 120 feet deep located in the W $\frac{1}{2}$ SW $\frac{1}{4}$ Section 9 to irrigate 70 acres located in the E $\frac{1}{2}$ SE $\frac{1}{4}$ Section 8; all in T91N-R49W. The applicant is requesting a diversion rate greater than 1 cfs per 70 acres.

Application No. 6521-3 proposes to appropriate 2.67 cfs from one well (Missouri-Elk Point Aquifer) 120 feet deep located in the center of the NW $\frac{1}{4}$ Section 27 to irrigate 200 acres located in the NW $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 27; all in T91N-R49W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 6520-3 and 6521-3 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 applications, as recommended, unless a petition is filed opposing the applications or the applicant files a petition contesting the Chief Engineer's recommendations. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. 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 September 7, 2004.

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



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

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

August 11, 2004

Pat Walsh
47844 Co Rd 1B
Elk Point SD 57025

Dear Mr. Walsh:

Water Permit Application Nos. 6520-3 & 6521-3 for irrigation 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 Leader-Courier printed at Elk Point, SD (Ph # 605-356-2632). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendations of the Chief Engineer and the reports on the applications 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 applications.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

NOTE: If you plan to contest any part of the Chief Engineer's recommendations, 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 applications.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

August 11, 2004

Leader-Courier
PO Box 310
Elk Point SD 57025-0310

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application Nos. 6520-3 & 6521-3 to Appropriate Water to be published twice. Please publish the first notice on August 19, 2004 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 Pat Walsh, 47844 Co Rd 1 B, Elk Point SD (Ph # 605-356-2762).

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. 6521-3

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

Date _____

We are in receipt of your letter of August 11, 2004 enclosing Notice to Appropriate Water by Application Nos. 6520-3 & 6521-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

NOV 19 2004

Pat Walsh
47844 Co Rd 1B
Elk Point SD 57025

Dear Mr. Walsh:

Enclosed is Water Permit No. 6521-3 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

6521-B

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location NW 1/4 NW 1/4 Sec 27 Twp 91N Rg 48W
County Union

Please mark well location with an "X"

Well Completion Date 8-16-04

1 Mile

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? N/A ft. from N/A (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary

CASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>5CH 40 LB/FT</u>	<u>16 IN</u>	<u>0 FT</u>	<u>135 FT</u>	<u>22 IN</u>
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Cement</u>	_____	_____ lb./gal	<u>30 ft</u>	<u>10 ft</u>
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure Pumped in from bottomSCREEN: ☒ Perforated pipe ☐ ManufacturedDiameter 16 IN Length 40 FEETMaterial 5CH 40 slotted pipeSlot Size 80 Set From 95 Feet to 135 Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

YES, How: _____

☒ NO, Why Not? Irrigation

Laboratory sent to for water quality analysis _____

Well Owner: Pat Walsh

Business Name: _____

Address: 47844 County Rd 1 B
Elk Point, SD 57025

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Heavy clay</u>	<u>0</u>	<u>45</u>
<u>Sandy</u>	<u>45</u>	<u>62</u>
<u>Clay</u>	<u>62</u>	<u>80</u>
<u>Sand</u>	<u>80</u>	<u>90</u>
<u>Med gravel</u>	<u>90</u>	<u>135</u>

STATIC WATER LEVEL 19 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped Describe: _____☐ Bailed _____☐ Other _____

Pumping Level Below Land Surface

49 ft. After 2 Hrs. pumped 1100 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate 800 GPM

REMARKS

RECEIVED

FEB 24 2005

WATER RIGHTS
PROGRAMThis well was drilled under license # 667

And this report is true and accurate.

Drilling firm Dakota Drilling & Backhoe, Inc.Signature of License Representative: John Walsh

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

2-24-05



**DEPARTMENT OF ENVIRONMENT
and NATURAL RESOURCES**

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



JUN 18 2014

6521-3
7029-3

Pat Walsh
47844 County Rd 1B
Elk Point SD 57025

Dear Mr. Walsh:

Enclosed is Water License No. 7029-3. This is the final water right document completing your process of obtaining a Water Right. Included with your license is a map prepared by the staff engineer who conducted the field investigation.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 7029-3, 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.

The applicable portions of Water Permit No. 6521-3 were incorporated into Water License No. 7029-3. 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