

WATER PERMIT NO. 6546-3

Name of Applicant: City of Aberdeen

Address: 123 S Lincoln St, Aberdeen SD 57401

Phone: 605 626-7017

Amount of Water Claimed: 2,520 AF

Total Acres: NA

Source of Water Supply: groundwater (6 wells)

Water to be used for: municipal

County: Brown

Type of Waste Disposal System:

Location: 5 miles northeast of Aberdeen

PRIORITY Date Received: 9-1-04

Application/License Fee: \$925 (need to refund \$175)

Corrected Application Received: 11-1-04

Period of Annual Use: Jan 1 – Dec 31

Remarks: Place to beneficial use water authorized by Future Use Permit No. 3427-3

Diversion Point: NW ¼ and SE ¼ Sec 8-T124N-

R63W

Land to be Irrigated: NA

Depth of Well: 31 – 65 feet deep

Well Driller:

Remarks:

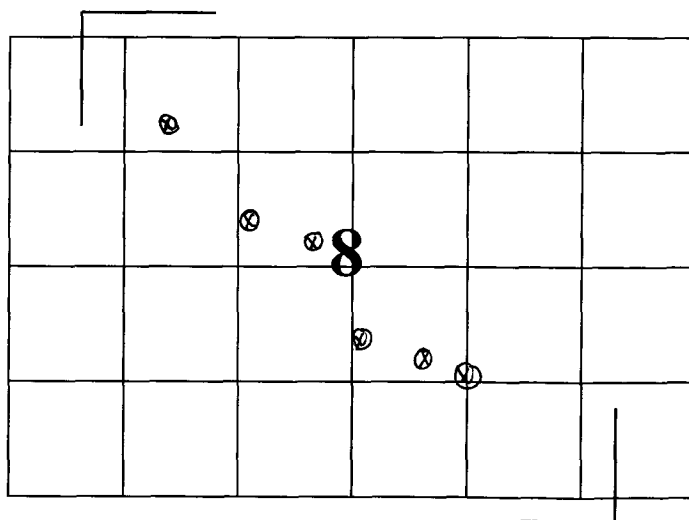
Type of Map: aerial

Prepared by: David C Odens, PE

Reviewed and the Number Assigned on: 11-1-04

By: Karen Schlaak

Notice of Hearing - date to intervene: _____



SD EForm - 1585 V1
FORM 2: Application for uses other than irrigation
(type or print)

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6546-3</u>	(office use only) Hydrologic Unit <u>10160003</u>
	Basin <u>James River</u>	
	Newspaper <u>American News, Aberdeen</u>	

RECEIVED
SEP - 1 2004
WATER RIGHTS
PROGRAM

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: (check one)

- ☐ New ☐ Vested Right (Use predates Mar 2, 1955) ☐ Future Use Reservation
☒ Place to Beneficial Use Water Reserved by Future Use Permit No. 3427-3
☐ Amendment/Correction to Permit No. _____

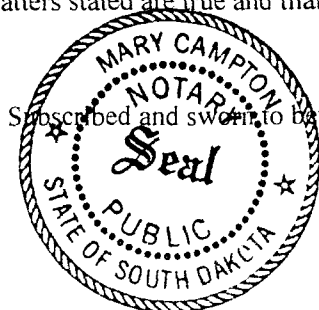
Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

- Name of Applicant City of Aberdeen Phone (605) 626-7017
(check one) ☐ Owner ☐ Tenant/lessee
Mailing Address 123 South Lincoln Lane Street Aberdeen State SD 57401
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 4.67 *CFS or 2,100 **GPM 2,520 ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable
- Source of water supply Groundwater from Elm Aquifer
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Brown
6 wells in section 8-T124N-R63W (NW1/4 and SE1/4)
- County or counties where water will be used Brown
- Annual period during which water is to be used January 1 to December 31
- 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)
Construction of 6 new wells at Berbos's property. New raw waterlines will be connected to existing 24" transmission waterlines.

STATE OF SOUTH DAKOTA) SS
County of Brown)

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, City of Aberdeen, 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

[Signature]

Subscribed and sworn to before me this 31st day of August 20 04

[Signature]

Notary Public signature

Exp. 3/28/06

**SOUTH DAKOTA
WATER PERMIT NO. 6546-3**

Date of first receipt of application September 1, 2004.

Date of return to applicant for corrections, amendments or changes September 1, 2004.

Date of receipt of corrected application November 1, 2004.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6546-3 to the City of Aberdeen, 123 S Lincoln, Aberdeen SD 57401 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. 6546-3 authorizes construction and placing to beneficial use 4.67 cubic feet of water per second (2,520 acre-feet annually) from six wells to be completed into the Elm Aquifer (approximately 34-52 feet deep) located in the NW ¼ and SE ¼ Section 8-T124N-R63W. This water was appropriated and reserved by Future Use Permit No. 3427A-3.
2. The water appropriated shall be used for the purpose of municipal use and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 6546-3 is December 27, 2004.
5. The date from which applicant may claim right December 30, 1976 (established by Future Use Permit Nos. 3427-3 and 3427A-3).
6. One-fifth of the construction is to be completed on or before June 27, 2007.
7. All construction is to be completed on or before December 27, 2009.
8. Water is to be put to beneficial use on or before December 27, 2013.
9. 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 wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The wells authorized by Permit No. 6546-3 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. The City of Aberdeen shall report to the Chief Engineer annually the amount of water withdrawn from the Elm Aquifer.

WATER MANAGEMENT BOARD

By: Garland Erbele

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

JAN 18 2005

date



Supplemental Information

(Complete applicable portions only)

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 24" Depth 31' to 65'
- b) Casing Type Steel Diameter 12" Thickness 0.3125"
- c) Screen Type Stainless Steel Diameter 12" Thickness
- d) Gravel Pack Silica Length of Gravel Pack Approx. 13.5' to 49.5'
- e) Depth to Top of Water Bearing Material Approx. 4' to 8'
- f) Depth to Water (ground surface to water level) Approx. 6'
- g) Distance to nearest existing domestic well:
- On applicants property On property owned by others Approx. 1200'

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

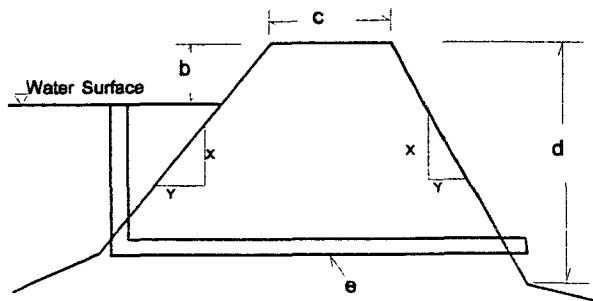
3. Dugout Information

- 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

T124N

ORDWAY TOWNSHIP



R63W

SECTION 8

LANDOWNER: BERBOS

EXISTING WELL FIELD

EXISTING 24" WATERMAIN

12TH STREET

WELL B-1

NEW 12" WIDE GRAVEL ROAD W/ 4" SUBPACING

WELL B-2

WELL B-3

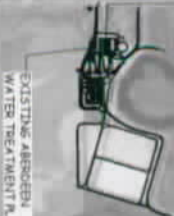
18TH AVENUE

WELL B-4

WELL B-5

NEW 12" WIDE GRAVEL ROAD W/ 4" SUBPACING

EXISTING 24" WATERMAIN



EXISTING AERATION WATER TREATMENT PLANT



DESIGNED BY: J.L.U.	REVIEWED DATE: _____
CHECKED BY: A.P.T.	FOR _____
D.C.O.	DATE: _____

BANNER ASSOCIATES, INC.
409 22nd Ave S
P.O. Box 298 - Brookings, SD 57006
(605) 692-6342

REVISION	DATE	DESCRIPTION	BY	CHK'D

Well Field Expansion & Raw Water Pipelines - 2004 Aberdeen, South Dakota SITE LAYOUT		
SCALE: As Shown	JOB NO.: 20192.00.01	DATE: Aug 04
SHEET NO.: 6		

0546-3

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date September 1, 2004

RECEIVED OF City of Aberdeen, 123 S Lincoln St, Aberdeen SD 57401

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	875	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	925.00

No.

009508

By

Barland Ebel
Chief Engineer *gm*



CITY OF ABERDEEN

12668 391 Ave.
Aberdeen, SD 57401-4215

WATER TREATMENT

(605) 626-7010

MEMORANDUM

RECEIVED

JAN - 7 2005

WATER RIGHTS
PROGRAM

DATE: January 6, 2005
TO: Ken Buhler, DENR
FROM: Sue Singrey, Aberdeen Public Works
RE: Aberdeen Water Well Completion Report

Enclosed please find your copy of the Aberdeen, South Dakota water well completion report. If you have any questions or need anything further please let us know.

Thank you.

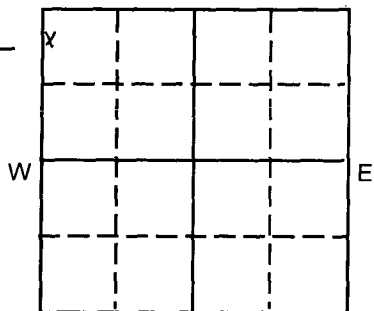
SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NW 1/4 NW 1/4 Sec 8 Twp 124 Rg 63County B-IBrown

North

Please mark well location with an "X"



Well Completion Date

12/3/2004

Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

? None ft. from None (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
41.0 LB/FT	12.00 IN	0.0 FT	28.0 FT	18.00 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Bentonite	3	9.4 Lb/gal	10.0 Ft	15.0 Ft
Cement	15	94.0 Lb/gal	0.0 Ft	10.0 Ft

Describe grouting procedure

Pumped grout into annular space through tremie pipe.

SCREEN:

☐ Perforated pipe ☒ ManufacturedDiameter 12.00 Inches Length 9.0 FeetMaterial S.S.Slot Size 60 Set From 28.0 Feet to 37.0 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? Chlorine☐ No, Why Not?

Lab sample sent to for water quality analysis

City of Sioux Falls Public Works

Well Owner: City of AberdeenBusiness Name: City Finance Officer, Auditor DivisionAddress: 123 South Lincoln StreetCity, State, Zip: Aberdeen SD 57401

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	4
Brown Silty Clay	4	9
Sand	9	33
Sand & Gravel	33	35
Coarse Gravel	35	36
Clay	36	37

STATIC WATER LEVEL

10.7 FEETIf flowing: closed in pressure PSIGPM flow through Inch pipeControlled by ☐ Valve ☐ Reducers ☐ Other Reduced flow rate GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe: ☐ Bailed☐ Other

Pumping Level Below Land Surface

21.2 Ft. After 12.0 Hrs. pumped 150.0 GPM Ft. After Hrs. pumped GPMIf pump installed, pump rate: 250.0 GPM

REMARKS

RECEIVED

JAN - 7 2005

WATER RIGHTS
PROGRAMThis well was drilled under license #

And this report is true and accurate.

Drilling firm: Lako Drilling, Inc.

Signature of License Representative:

Alan Lako

Signature of Well Owner or Equitable Property Holder:

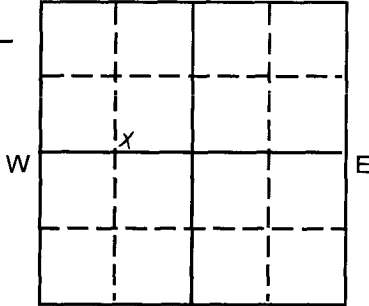
Paul EllingerDate: 1/5/05

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 8 Twp 124 Rg 63County B-2Brown

North

Please mark well
location with an "X"

Well Completion Date

12/3/2004

1 Mile

Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

? None ft. from (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
41.0 LB/FT	12.00 IN	0.0 FT	34.0 FT	18.00 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Bentonite	3	9.4 Lb/gal	10.0 Ft	15.0 Ft
Cement	15	94.0 Lb/gal	0.0 Ft	10.0 Ft

Describe grouting procedure

Pumped grout into annular space through tremie pipe.

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 12.00 Inches Length 9.0 FeetMaterial S.S.Slot Size 60 Set From 34.0 Feet to 43.0 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? Chlorine
☐ No, Why Not?
Lab sample sent to for
water quality analysisCity of Sioux Falls Public
WorksWell Owner: City of AberdeenBusiness Name: City Finance Officer, Auditor DivisionAddress: 123 South Lincoln StreetCity, State, Zip: Aberdeen SD 57401

WELL LOG:

DEPTH

FORMATION	FROM	TO
Top Soil	0	5
Yellow Clay	5	8
Sand	8	24
Sand & Gravel	24	42
Till	42	43

STATIC WATER LEVEL

7.9 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe:
☐ Bailed
☐ Other

Pumping Level Below Land Surface

21.3 Ft. After 12.0 Hrs. pumped 400.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: 500.0 GPM

REMARKS

RECEIVED
JAN - 7 2005

This well was drilled under license # _____

And this report is true and accurate.

Drilling firm: Lako Drilling, Inc.

Signature of License Representative:

Alan Lako

Signature of Well Owner or Equitable Property Holder:

Paul EllingtonDate: 1/5/05

WATER RIGHTS
PROGRAM

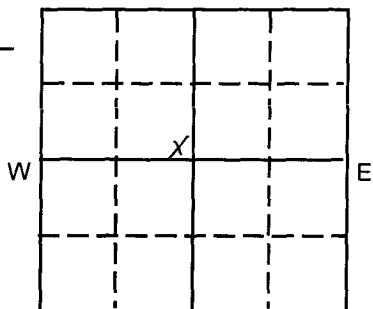
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SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 8 Twp 124 Rg 63County B-3

North

BrownPlease mark well
location with an "X"

Well Completion Date

12/2/2004

Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

? None ft. from (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
41.0 LB/FT	12.00 IN	0.0 FT	37.0 FT	18.00 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Bentonite	3	9.4 Lb/gal	10.0 Ft	15.0 Ft
Cement	15	94.0 Lb/gal	0.0 Ft	10.0 Ft

Describe grouting procedure

Pumped grout into annular space through tremie pipe.

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 12.00 Inches Length 9.0 FeetMaterial S.S.Slot Size 60 Set From 37.0 Feet to 46.0 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? Chlorine
☐ No, Why Not?
Lab sample sent to for
water quality analysisCity of Sioux Falls Public
WorksWell Owner: City of AberdeenBusiness Name: City Finance Officer, Auditor DivisionAddress: 123 South Lincoln StreetCity, State, Zip: Aberdeen SD 57401

WELL LOG:

DEPTH

FORMATION	FROM	TO
Top Soil	0	7
Clay	7	10
Sand	10	27
Sand & Gravel Coarse	27	44.5
Clay	44.5	46

STATIC WATER LEVEL

6.0 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe:☐ Bailed☐ Other

Pumping Level Below Land Surface

15.6 Ft. After 12.0 Hrs. pumped 400.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: 750.0 GPM

REMARKS

This well was drilled under license # 528

And this report is true and accurate.

Drilling firm: Lako Drilling, Inc.

Signature of License Representative:

RECEIVED

Alan Lako

JAN - 7 2005

Signature of Well Owner or Equitable Property Holder:

WATER RIGHTS
PROGRAM*Paul Thompson*Date: 1/5/05

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NW 1/4 SE 1/4 Sec 8 Twp 124 Rg 63County B-4Brown

North

Please mark well
location with an "X"

W

E

Well Completion Date

12/2/2004

1 Mile

Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

? None ft. from None (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary

CASING DATA:

☒ Steel
 ☐ Plastic
 ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
41.0 LB/FT	12.00 IN	0.0 FT	30.0 FT	18.00 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Bentonite	3	9.4 Lb/gal	10.0 Ft	15.0 Ft
Cement	15	94.0 Lb/gal	0.0 Ft	10.0 Ft

Describe grouting procedure

Pumped grout into annular space through tremie pipe.

SCREEN:

☐ Perforated pipe
 ☒ Manufactured
 Diameter 12.00 Inches Length 9.0 FeetMaterial S.S.Slot Size 60 Set From 30.0 Feet to 39.0 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? Chlorine
☐ No, Why Not?
 Lab sample sent to for
water quality analysisCity of Sioux Falls Public
WorksWell Owner: City of AberdeenBusiness Name: City Finance Officer, Auditor DivisionAddress: 123 South Lincoln StreetCity, State, Zip: Aberdeen SD 57401

WELL LOG:

DEPTH

FORMATION

FROM

TO

Top Soil	0	3
Brown Clay	3	6
Sand & Gravel	6	35
Gravel with Coal Layer	35	39

STATIC WATER LEVEL

9.5 FEETIf flowing: closed in pressure PSIGPM flow through Inch pipeControlled by ☐ Valve ☐ Reducers ☐ OtherReduced flow rate GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe:☐ Bailed☐ Other

Pumping Level Below Land Surface

20.9 Ft. After 12.0 Hrs. pumped 200.0 GPM Ft. After Hrs. pumped GPMIf pump installed, pump rate: 250.0 GPM

REMARKS

This well was drilled under license # 528

And this report is true and accurate.

Drilling firm: Lako Drilling, Inc.

Signature of License Representative:

Alan Lake

Signature of Well Owner or Equitable Property Holder:

Paul EdingtonDate: 1/5/05RECEIVED
JAN - 7 2005WATER RIGHTS
PROGRAM

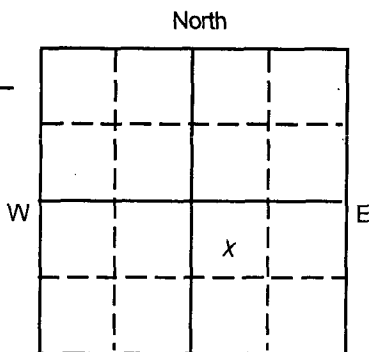
167-05

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NW 1/4 SE 1/4 Sec 8 Twp 124 Rg 63County B-5Brown

Please mark well location with an "X"



Well Completion Date

12/2/2004

Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

? None ft. from None (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
41.0 LB/FT	12.00 IN	0.0 FT	44.0 FT	18.00 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Bentonite	3	9.4 Lb/gal	10.0 Ft	15.0 Ft
Cement	15	94.0 Lb/gal	0.0 Ft	10.0 Ft

Describe grouting procedure

Pumped grout into annular space through tremie pipe.

SCREEN:

☐ Perforated pipe ☒ ManufacturedDiameter 12.00 Inches Length 13.0 FeetMaterial S.S.Slot Size 60 Set From 44.0 Feet to 57.0 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? Chlorine☐ No, Why Not? _____

Lab sample sent to for water quality analysis

City of Sioux Falls Public Works

Well Owner: City of AberdeenBusiness Name: City Finance Officer, Auditor DivisionAddress: 123 South Lincoln StreetCity, State, Zip: Aberdeen SD 57401

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	5
Clay	5	6
Sand	6	46
Sand & Gravel	46	55
Coarse Gravel & Rock	55	56
Fine Gray Sand	56	57

STATIC WATER LEVEL 7.0 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped Describe: _____☐ Bailed☐ Other

Pumping Level Below Land Surface

19.8 Ft. After 12.0 Hrs. pumped 400.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: 750.0 GPM

REMARKS

This well was drilled under license # 528

And this report is true and accurate.

Drilling firm: Lako Drilling, Inc.

Signature of License Representative:

Alan Lako

Signature of Well Owner or Equitable Property Holder:

James EllingerDate: 1/5/05

RECEIVED

JAN - 7 2005

WATER RIGHTS PROGRAM

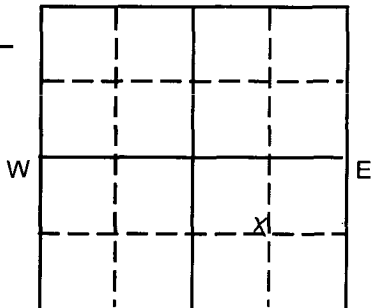
1-7-05

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NW 1/4 SE 1/4 Sec 8 Twp 124 Rg 63County B-6Brown

North

Please mark well
location with an "X"

Well Completion Date

12/2/2004

Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

? None ft. from None (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary

CASING DATA:

☒ Steel
 ☐ Plastic
 ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
41.0 LB/FT	12.00 IN	0.0 FT	36.0 FT	18.00 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Bentonite	3	9.4 Lb/gal	10.0 Ft	15.0 Ft
Cement	15	94.0 Lb/gal	0.0 Ft	10.0 Ft

Describe grouting procedure

Pumped grout into annular space through tremie pipe.

SCREEN:

☐ Perforated pipe
 ☒ Manufactured
Diameter 12.00 Inches Length 11.0 FeetMaterial S.S.Slot Size 60 Set From 36.0 Feet to 47.0 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? Chlorine
☐ No, Why Not?
Lab sample sent to for
water quality analysisCity of Sioux Falls Public
WorksWell Owner: City of AberdeenBusiness Name: City Finance Officer, Auditor DivisionAddress: 123 South Lincoln StreetCity, State, Zip: Aberdeen SD 57401

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	4
Brown Clay	4	7
Gravel	7	8
Sand	8	28
Gravel	28	46
Clay	46	47

STATIC WATER LEVEL 8.2 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe:
 ☐ Bailed
 ☐ Other

Pumping Level Below Land Surface

18.7 Ft. After 12.0 Hrs. pumped 400.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: 600.0 GPM

REMARKS

This well was drilled under license # 528

And this report is true and accurate.

Drilling firm: Lako Drilling, Inc.

Signature of License Representative:

Alan Lako

Signature of Well Owner or Equitable Property Holder:

James EllingerDate: 1/5/05

RECEIVED

JAN - 7 2005

WATER RIGHTS
PROGRAM

9-7-05

Banner Associates, Inc.

409 22nd Avenue South - P.O. Box 298
Brookings, South Dakota 57006
Ph. # (605) 692-6342

Letter of Transmittal

Date:	3-Nov-04	Job #:	20192.00.01
Attention:			
Eric Gronlund			
RE:			
Aberdeen Water Treatment Plant			
and Well Field Improvements			

TO: SD Department of Environment and Natural
Resources - Drinking Water Program
Joe Foss Building, 523 East Capitol
Pierre, South Dakota 57501

WE ARE SENDING YOU: ☒ Attached ☐ Delivered via _____ the following items
☐ Shop Drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of Letter ☐ Change Order ☐ _____

Copies	Date	No.	Description
1			Driller's Log - Lako Drilling, Inc. RECEIVED
1			Test Pumping Log - Lako Drilling, Inc. NOV 05 2004
			WATER RIGHTS PROGRAM

THESE ARE TRANSMITTED as checked below:

☐ For Approval ☐ Approved as Submitted ☐ Resubmit ___ Copies for Approval
☐ For Your Use ☐ Approved as Noted ☐ Submit ___ Copies for Distribution
☒ As Requested ☐ Returned for Corrections ☐ Return ___ Corrected Prints
☐ For Review & Comment ☐ _____
☐ For Bids Due: _____ 20 _____ ☐ Print Returned After Loan to Us

REMARKS:

CC: _____

SIGNED: _____

Kristin Bisgard
Kristin Bisgard, PE

If enclosures are not as noted, please notify us at once.

Date: 7-6-04

[illegible]

TUBULAR & ARTESIAN DRILLING & REPAIR

Arthur, ND 58006

Date: 7-6-04

Address: _____

Driller: PAUL LAKO

[illegible]

TUBULAR & ARTESIAN DRILLING & REPAIR

Arthur, ND 58006

Date: 7-6-04

Address: _____

Driller: PAUL LAKO

[illegible]

TUBULAR & ARTESIAN DRILLING & REPAIR

Arthur, ND 58006

Date: 7-6-04

Address: _____

Driller: PAUL LAKO

[illegible]

[illegible]

**LAKO DRILLING, INC.***Drilling & Repairing Tubular & Artesian Wells*

(701) 967-8333
325 County Road 34
Arthur, ND 58006

RECEIVED**NOV 05 2004****WATER RIGHTS
PROGRAM**

WELL # B1

STATIC WATER LEVEL 10.65

DEPTH OF WELL 34'

CASING LENGTH 25' SCREEN LENGTH 9'

Time	Draw Down	Recovery	Gallons
6:15PM			150
6:15PM	18.7		150
6:16PM	18.92		150
6:17PM	19.1		150
6:18PM	19.15		150
6:19PM	19.22		150
6:20PM	19.29		150
6:21PM	19.32		150
6:22PM	19.38		150
6:23PM	19.44		150
6:24PM	19.51		150
6:26PM	19.6		150
6:30PM	19.9		150
6:35PM	19.92		150
6:40PM	19.95		150
6:45PM	19.97		150
6:50PM	19.99		150
6:55PM	20.12		150

WELL # B 1 CONTINUED

Time	Draw Down	Recovery	Gallons
7:00PM	20.16		150
7:05PM	20.2		150
7:10PM	20.22		150
7:15PM	20.25		150
7:20PM	20.27		150
7:25PM	20.25		150
7:30PM	20.3		150
7:35PM	20.3		150
7:40PM	20.32		150
7:45PM	20.34		150
7:50PM	20.36		150
7:55PM	20.37		150
8:00PM	20.38		150
8:15PM	20.48		150
8:30PM	20.5		150
8:45PM	20.52		150
9:00PM	20.55		150
9:15PM	20.57		150
9:30PM	20.59		150
9:45PM	20.6		150
10:15PM	20.63		150
10:30PM	20.64		150

WELL # B 1 CONTINUED

Time	Draw Down	Recovery	Gallons
11:30PM	20.9		150
12:30AM	21.1		150
1:30AM	21.14		150
2:30AM	21.7		150
3:30AM	21.5		150
4:30AM	21.2		150
5:30AM	21.2		150
6:30AM	21.2		150
6:31AM		12.2	
6:32AM		12.02	
6:33AM		12	
6:34AM		12	
6:35AM		12	
6:36AM		12	
6:37AM		12	
6:38AM		12	
6:39AM		12	
6:40AM		11.99	
6:41AM		11.98	
6:50AM		11.95	
7:00AM		11.9	
7:10AM		11.88	

14.2167/FT

[illegible]

**LAKO DRILLING, INC.***Drilling & Repairing Tubular & Artesian Wells*

(701) 967-8333
325 County Road 34
Arthur, ND 58006

WELL # B2

STATIC WATER LEVEL 7.9

DEPTH OF WELL 39'

CASING DEPTH 30' SCREEN LENGTH 9'

Time	Draw Down	Recovery	Gallons
9:00AM			400
9:00AM	19.13		400
9:01AM	19.42		400
9:02AM	19.87		400
9:03AM	19.9		400
9:04AM	20.13		400
9:05AM	20.24		400
9:06AM	20.28		400
9:07AM	20.3		400
9:08AM	20.3		400
9:09AM	20.33		400
9:10AM	20.48		400
9:16AM	20.82		400
9:20AM	20.85		400
9:25AM	20.85		400
9:30AM	20.85		400
9:35AM	20.86		400
9:45AM	20.97		400

WELL #B 2 CONTINUED

Time	Draw Down	Recovery	Gallons
9:50AM	21		400
9:55AM	21.02		400
10:00AM	21.02		400
10:05AM	21.04		400
10:10AM	21.04		400
10:15AM	21.05		400
10:20AM	21.06		400
10:25AM	21.06		400
10:30AM	21.07		400
10:35AM	21.08		400
10:40AM	21.1		400
10:45AM	21.12		400
10:50AM	21.12		400
10:55AM	21.14		400
11:00AM	21.14		400
11:15AM	21.17		400
11:30AM	21.18		400
11:45AM	21.18		400
12:00PM	21.19		400
12:15PM	21.19		400
12:30PM	21.2		400
1:00PM	21.21		400

WELL B #2 CONTINUED

Time	Draw Down	Recovery	Gallons
1:30PM	21.2		400
2:00PM	21.23		400
2:30PM	21.26		400
3:00PM	21.28		400
3:30PM	21.29		400
4:00PM	21.29		400
4:30PM	21.3		400
5:00PM	21.3		400
5:30PM	21.31		400
6:00PM	21.31		400
7:00PM	21.31		400
8:00PM	21.31		400
9:00PM	21.31		400
9:01PM		8.51	
9:02PM		8.5	
9:03PM		8.46	
9:04PM		8.43	
9:05PM		8.41	
9:06PM		8.38	
9:07PM		8.36	
9:08PM		8.24	
9:09PM		8.33	

29.82 m/h ft DO

[illegible]

**LAKO DRILLING, INC.***Drilling & Repairing Tubular & Artesian Wells*

(701) 967-8333
325 County Road 34
Arthur, ND 58006

WELL # B3

STATIC WATER LEVEL 6'

DEPTH OF WELL 39-1/2'

CASING DEPTH 30-1/2' SCREEN LENGTH 9'

Time	Draw Down	Recovery	Gallons
9:20AM	14.3		400
9:21AM	14.58		400
9:22AM	14.75		400
9:23AM	14.82		400
9:24AM	14.86		400
9:25AM	14.89		400
9:26AM	14.9		400
9:27AM	14.92		400
9:28AM	14.97		400
9:29AM	15		400
9:30AM	15.05		400
9:35AM	15.07		400
9:40AM	15.09		400
9:45AM	15.13		400
9:50AM	15.15		400
9:55AM	15.16		400
10:00AM	15.17		400
10:05AM	15.18		400

WELL #B3 CONTINUED

Time	Draw Down	Recovery	Gallons
10:10AM	15.2		400
10:15AM	15.21		400
10:20AM	15.23		400
10:25AM	15.24		400
10:30AM	15.25		400
10:35AM	15.25		400
10:40AM	15.26		400
10:45AM	15.27		400
10:50AM	15.3		400
10:55AM	15.32		400
11:00AM	15.34		400
11:15AM	15.3		400
11:30AM	15.32		400
11:45AM	15.34		400
12:00PM	15.36		400
12:15PM	15.39		400
12:30PM	15.4		400
1:00PM	15.42		400
1:30PM	15.44		400
2:00PM	15.47		400
2:30PM	15.5		400
3:30PM	15.56		400

WELL #B3 CONTINUED

Time	Draw Down	Recovery	Gallons
4:30PM	15.58		400
5:30PM	15.59		400
6:30PM	15.6		400
7:30PM	15.6		400
8:30PM	15.6		400
9:30PM	15.6		400
9:31PM		7.09	
9:32PM		7.09	
9:33PM		7.02	
9:34PM		6.98	
9:35PM		6.95	
9:36PM		6.94	
9:37PM		6.93	
9:38PM		6.92	
9:39PM		6.92	
9:40PM		6.9	
9:45PM		6.9	
9:50PM		6.85	
9:55PM		6.82	
10:00PM		6.8	
10:05PM		6.75	
10:10PM		6.69	

41.6 cwt/yr op

[illegible]



LAKO DRILLING, INC.

Drilling & Repairing Tubular & Artesian Wells

(701) 967-8333
325 County Road 34
Arthur, ND 58006

WELL #B4

STATIC WATER LEVEL 9.55'

DEPTH OF WELL 36'

CASING DEPTH 27' SCREEN LENGTH 9'

Time	Draw Down	Recovery	Gallons
6:30AM			200
6:30AM	14.6		200
6:31AM	15.8		200
6:32AM	15.9		200
6:33AM	16.15		200
6:34AM	16.22		200
6:35AM	16.32		200
6:36AM	16.32		200
6:37AM	16.42		200
6:38AM	16.5		200
6:39AM	16.52		200
6:40AM	16.55		200
6:45AM	16		200
6:50AM	16.72		200
6:55AM	16.94		200
7:00AM	17.03		200
7:05AM	17.12		200
7:10AM	17.21		200

WELL #B4

Time	Draw Down	Recovery	Gallons
7:15AM	17.3		200
7:20AM	17.36		200
7:25AM	17.4		200
7:30AM	17.47		200
7:35AM	17.53		200
7:40AM	17.6		200
7:45AM	17.66		200
7:50AM	17.7		200
7:55AM	17.7		200
8:00AM	17.72		200
8:15AM	17.77		200
8:30AM	17.84		200
8:45AM	17.89		200
8:50AM	17.93		200
8:55AM	17.97		200
9:00AM	18.02		200
9:15AM	18.23		200
9:30AM	18.31		200
9:45AM	18.42		200
10:15AM	18.63		200
10:30AM	18.71		200
11:30AM	19.2		200

WELL #B4

Time	Draw Down	Recovery	Gallons
12:30PM	19.73		200
1:30PM	19.98		200
2:30PM	20.36		200
3:30PM	20.72		200
4:30PM	20.91		200
5:30PM	20.96		200
6:30PM	20.98		200
7:30PM	20.99		200
7:31PM		10.17	
7:32PM		10.1	
7:33PM		10.1	
7:34PM		10.05	
7:35PM		10.05	
7:36PM		10.03	
7:37PM		10.02	
7:38PM		10.01	
7:39PM		10	
7:40PM		10	
7:45PM		9.98	
7:50PM		9.94	
7:55PM		9.9	
8:00PM		9.89	
8:30PM		9.89	

17.43 gpm/hr

**LAKO DRILLING, INC.***Drilling & Repairing Tubular & Artesian Wells*

(701) 967-8333
325 County Road 34
Arthur, ND 58006

WELL #B5

STATIC WATER LEVEL 7.1'

DEPTH OF WELL 52'

CASING DEPTH 39' SCREEN LENGTH 13'

Time	Draw Down	Recovery	Gallons
12:15PM			400
12:15PM	17.62		400
12:16PM	18.42		400
12:17PM	18.55		400
12:18PM	18.65		400
12:19PM	18.73		400
12:20PM	18.78		400
12:21PM	18.79		400
12:22PM	18.85		400
12:23PM	18.86		400
12:24PM	18.88		400
12:25PM	18.89		400
12:30PM	18.95		400
12:35PM	19.02		400
12:40PM	19.04		400
12:45PM	19.09		400
12:50PM	19.1		400
12:55PM	19.13		400

WELL B#5 CONTINUED

Time	Draw Down	Recovery	Gallons
1:00PM	19.15		400
1:05PM	19.19		400
1:10PM	19.22		400
1:15PM	19.25		400
1:20PM	19.26		400
1:25PM	19.28		400
1:30PM	19.3		400
1:35PM	19.31		400
1:40PM	19.33		400
1:45PM	19.34		400
1:50PM	19.36		400
1:55PM	19.37		400
2:00PM	19.38		400
2:15PM	19.42		400
2:30PM	19.45		400
2:45PM	19.47		400
3:00PM	19.48		400
3:15PM	19.52		400
3:45PM	19.56		400
4:15PM	19.59		400
4:45PM	19.62		400
5:45PM	19.67		400

WELL B#5 CONTINUED

Time	Draw Down	Recovery	Gallons
6:45PM	19.73		400
7:45PM	19.75		400
8:45PM	19.78		400
9:45PM	19.79		400
10:45PM	19.8		400
11:45PM	19.81		400
12:15AM	19.81		
12:17AM		7.6	
12:18AM		7.55	
12:20AM		7.5	
12:22AM		7.48	
12:25AM		7.45	
12:30AM		7.43	
1:00AM		7.29	
2:00AM		7.14	
7:30AM		7.1	

31.47 GPM/19



LAKO DRILLING, INC.

Drilling & Repairing Tubular & Artesian Wells

(701) 967-8333
325 County Road 34
Arthur, ND 58006

WELL #B6

STATIC WATER LEVEL 8.2'

DEPTH OF WELL 44'

CASING DEPTH 33' SCREEN LENGTH 11'

Time	Draw Down	Recovery	Gallons
12:00PM			400
12:00PM	17.9		400
12:01PM	18.1		400
12:02PM	18.2		400
12:03PM	18.22		400
12:04PM	18.25		400
12:05PM	12.29		400
12:06PM	18.3		400
12:07PM	18.31		400
12:08PM	18.31		400
12:09PM	18.31		400
12:10PM	18.31		400
12:15PM	18.31		400
12:20PM	18.33		400
12:25PM	18.4		400
12:30PM	18.43		400
12:35PM	18.45		400
12:40PM	18.45		400

WELL #B6 CONTINUED

Time	Draw Down	Recovery	Gallons
12:45PM	18.45		400
12:50PM	18.45		400
12:55PM	18.45		400
1:00PM	18.5		400
1:05PM	15.52		400
1:10PM	18.55		400
1:15PM	18.55		400
1:20PM	18.55		400
1:25PM	18.55		400
1:30PM	18.56		400
1:35PM	18.58		400
1:40PM	18.58		400
1:45PM	18.6		400
1:50PM	18.61		400
1:55PM	18.62		400
2:00PM	18.63		400
2:15PM	18.63		400
2:30PM	18.63		400
2:45PM	18.64		400
3:00PM	18.64		400
3:15PM	18.65		400
3:30PM	18.65		400

WELL #B6 CONTINUED

Time	Draw Down	Recovery	Gallons
3:45PM	18.66		400
4:00PM	18.67		400
4:30PM	18.67		400
5:00PM	18.69		400
5:30PM	18.7		400
6:00PM	18.7		400
6:30PM	18.7		400
7:30PM	18.7		400
8:30PM	18.72		400
9:30PM	18.72		400
10:30PM	18.72		400
11:30PM	18.73		400
12:30AM	18.73		400
12:32AM		8.8	
12:34AM		8.7	
12:36AM		8.6	
12:45AM		8.55	
1:00AM		8.5	
1:15AM		8.4	
1:30AM		8.4	
1:45AM		8.38	
7:00AM		8.2	

37.98 w/m



October 4, 2004

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

Dave Odens
Banner Associates, Inc.
PO Box 298
Brookings SD 57006

RE: City of Aberdeen

Dear Mr. Odens:

On September 1, 2004, we received an *Application for a Permit to Appropriate Water* for the City of Aberdeen for six wells from the Elm Aquifer. At that time, Eric Gronlund with our office contacted you regarding this application. Mr. Gronlund explained in order to increase the city's flexibility when placing the water to beneficial use, an acre-feet amount (volume) could be requested.

This is just a reminder that we are holding the application until we receive verification on an acre-feet amount.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak
Water Rights Program
605 773-3352

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NOV 01 2004
WATER RIGHTS
PROGRAM

BANNER ASSOCIATES, INC.
409 22nd Avenue South • P.O. Box 298
Brookings, South Dakota 57006-0298
(605) 692-6342
FAX: (605) 692-5714

October 29, 2004

Department of Environment and
Natural Resources
Joe Foss Building
523 East Capitol
Pierre, SD 57501-3182

Attn. Karen Schlaak, Water Rights Program

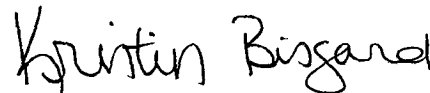
Re: Aberdeen Water Supply and
Treatment Improvements
BAI Project No. 20192.00.01

Dear Ms. Schlaak:

This letter is in response to your request for verification on the acre-feet amount of water requested for the beneficial use water right application submitted by the City of Aberdeen. The City is asking to request a volume of 2,520 acre-ft/yr (or 2.25 MGD).

If you have any questions, please do not hesitate to give me or Dave Odens a call at 605-692-6342.

Sincerely,


Kristin Bisgard, PE

CC: Robin Bobzien, City Engineer, City of Aberdeen
Janel Ellingson, Aberdeen WTP Acting Superintendent
Eric Ward, Banner Associates, Inc.

REPORT ON WATER PERMIT APPLICATION NO. 6546-3
For the City of Aberdeen
November 22, 2004

Application No. 6546-3 proposes to construct and place to beneficial use 4.67 cfs (2,250 acre-feet annually) from six wells approximately 31-65 feet deep located in the NW ¼ and the SE ¼ of section 8, T124N R63W in Brown County. The water was appropriated and reserved by Future Use Permit No. 3427A-3. The water will be used to supply the City of Aberdeen.

AQUIFER – ELM NORTHERN BROWN (E-NB)

The Elm Northern Brown is mostly a surficial outwash (sand and gravel) but can be under either artesian (confined) or water table conditions in northern Brown County. The aquifer is under water table conditions in this area. The aquifer underlies 187,200 acres and contains an estimated 702,000 acre-feet of recoverable water in storage in Brown County (Hedges, 1982). The aquifer is extensive into North Dakota to the north, blends into the Elm Southern Brown aquifer to the southwest and appears to be hydraulically connected to the Middle James aquifer over portions of Brown County (Koch, 1976). The aquifer is also hydraulically connected to the Elm River in this area.

This area was tested by the city for basic aquifer properties and this data is included with the application. Results indicate the aquifer varies in thickness from about 23 feet to 50 feet with well depth ranging from 34 feet to 52 feet. Water levels ranged from 6 feet to 10.65 feet below land surface with specific capacity data ranging from 14 to 41 gpm/ft of drawdown. The data indicate that although well yields will be variable the six well sites should be able to average out the 0.78 cfs (350 gpm) rate. In particular, sites B2, B3, B5 and B6 all would be capable of more than 400 gpm. The other two sites are limited by lower specific capacity and less saturated thickness.

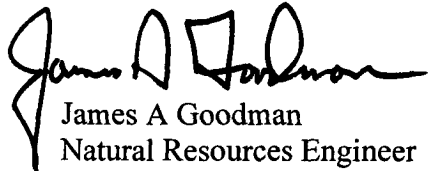
The Water Rights Program does monitor five observation wells within a five mile radius of this application. These are observation wells BN-77L, BN-82E, Bn-82K, BN-82F and BN-77V. Water levels for these wells show good response to climatic conditions, that is, rising water levels during wet years (recharge) and gradually declining water levels during dry years. The water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2004). Hydrographs for observation wells BN-77L, BN-82F and BN-82K are included with this report.

REVIEW OF EXISTING WATER PERITS/RIGHTS

The only other rights held for ground water from the Elm aquifer in this area are for the City of Aberdeen. The nearest of the existing wells would be located about one mile north of the proposed well B1. Interference is not a concern. At this distance drawdown will not be significant. The city will be to manage and control withdrawals to minimize any potential effects of pumping.

CONCLUSIONS

1. Water is available from the Elm Northern Brown aquifer.
2. The aquifer is under water table conditions in this area. Drawdown is not expected to be significant. Interference is not a concern. The spacing between proposed and existing city wells is sufficient to minimize any potential overlapping drawdown conditions.
3. These wells must be constructed in accordance with SD Well Construction Standards.
4. Approval of this application will leave 1,824 acre-feet remaining in future use permit No. 3427A-3. The City of Aberdeen also has 3,823 acre-feet remaining in future use under permit No. 192-3.

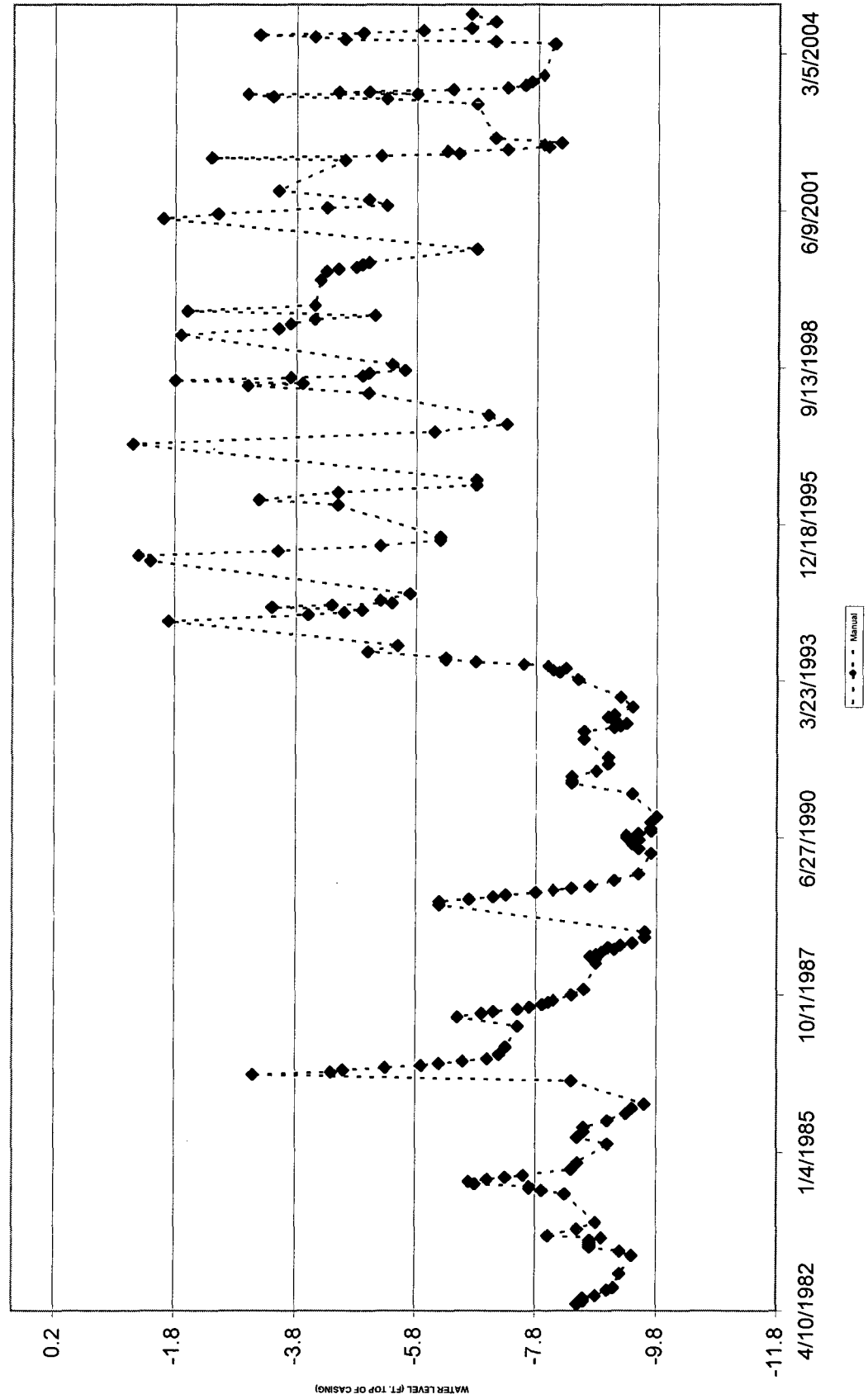


James A Goodman
Natural Resources Engineer

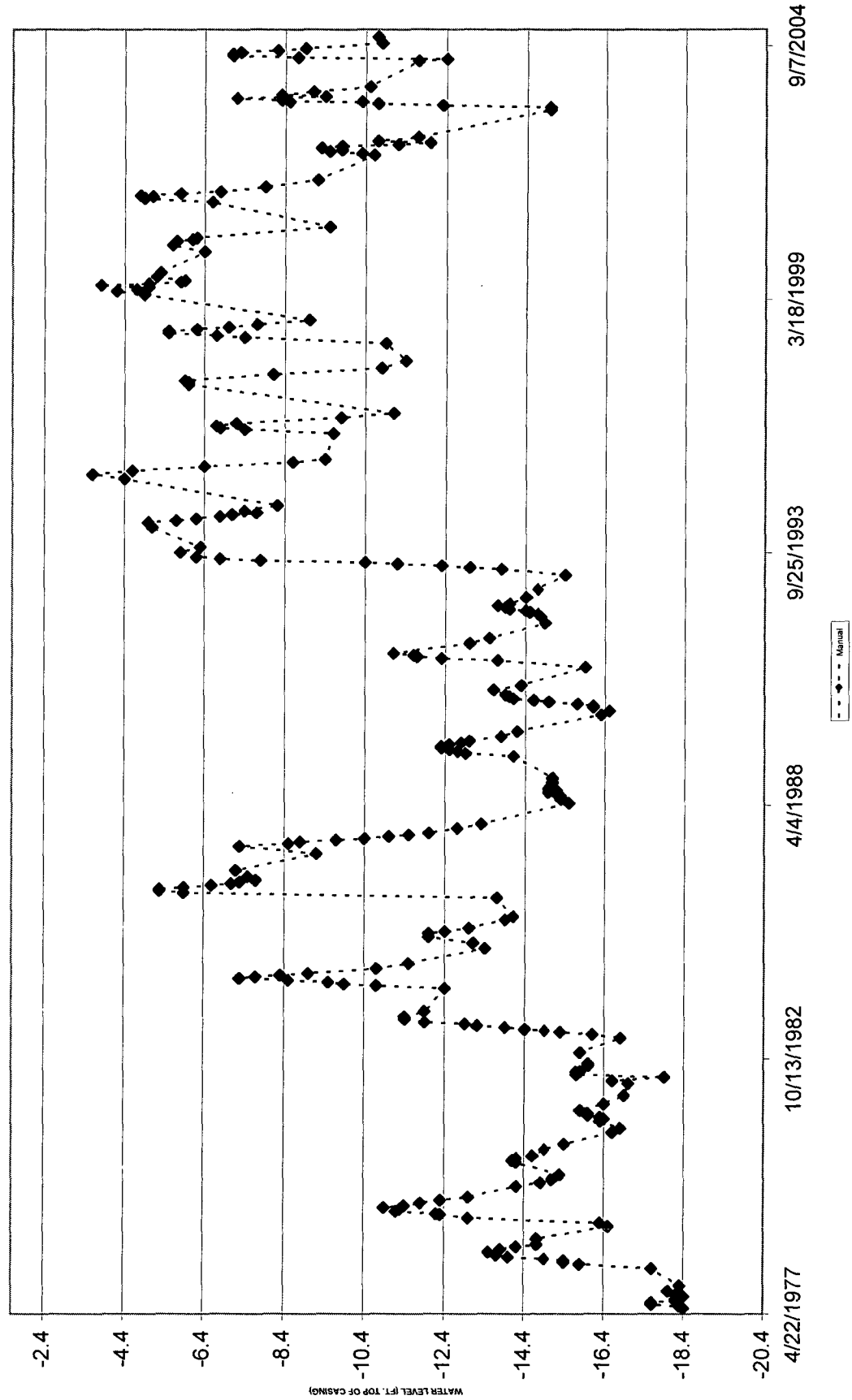
BIBLIOGRAPHY

- Hedges, L.S., and others, 1982, Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.
- Koch, N.C., 1976, Geology and Water Resources of Brown County, South Dakota, Bulletin 25, Part II, Water Resources, SD DENR, SDGS, Vermillion, SD, 57069.
- Water Rights, 2004, Unpublished Observation Well Data for Brown County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

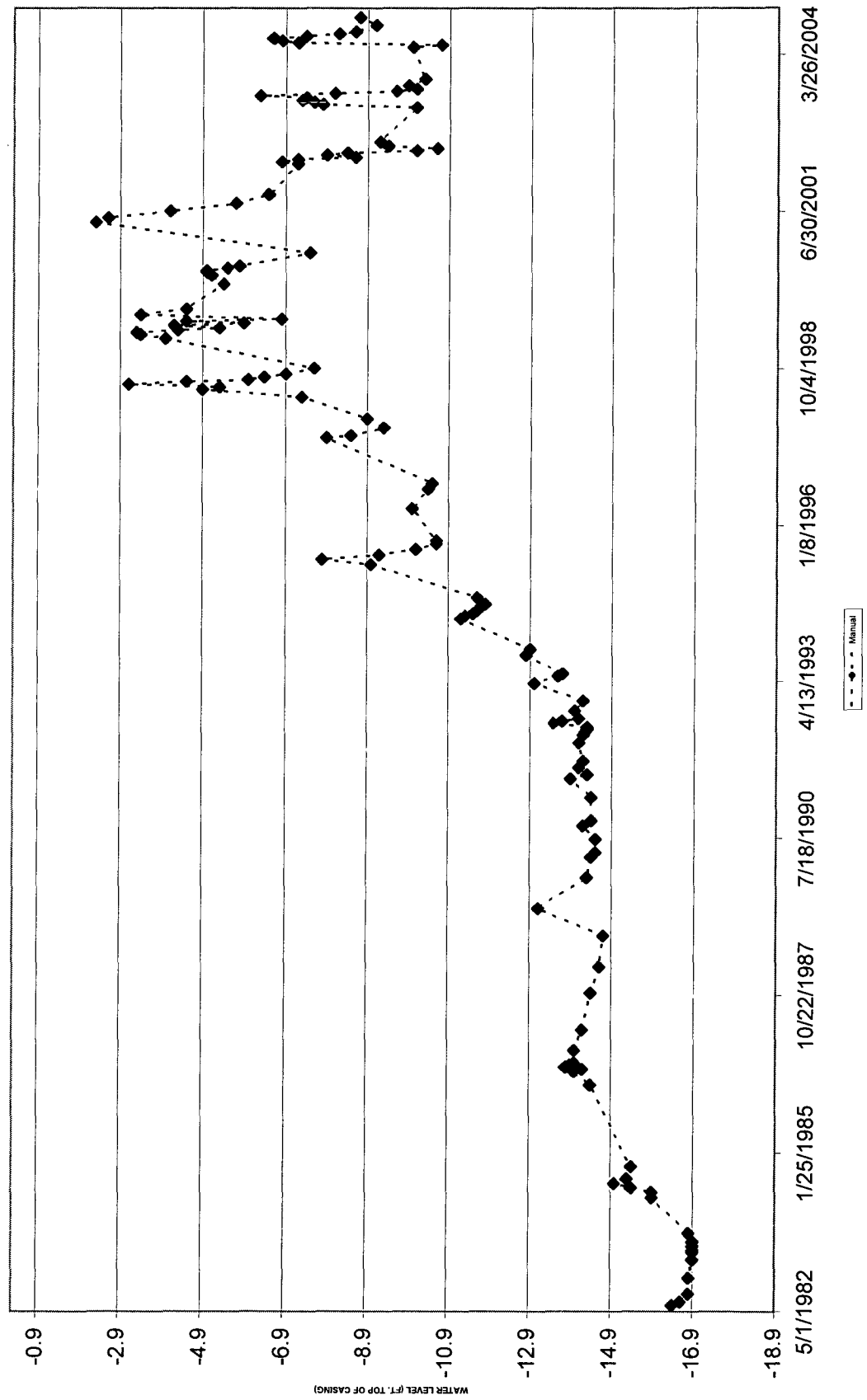
WATER RIGHTS' OBSERVATION WELL
BN-82F



WATER RIGHTS' OBSERVATION WELL
BN-77L



WATER RIGHTS' OBSERVATION WELL
BN-82K





**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. 6546-3, City of Aberdeen**

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. 6546-3, City of Aberdeen, c/o Robin Bobzien, City Engineer, 123 South Lincoln Lane Street, Aberdeen SD 57401.

The Chief Engineer is recommending APPROVAL of Application No. 6546-3 because 1) water is appropriated by Future Use Permit No. 3427A-3, 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 wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The wells authorized by Permit No. 6546-3 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. The City of Aberdeen shall report to the Chief Engineer annually the amount of water withdrawn from the Elm Aquifer.

See report on application for additional information.

Garland Erbele, Chief Engineer
November 30, 2004



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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www.state.sd.us/denr

December 1, 2004

American News
PO Box 4430
Aberdeen SD 57401

ATTENTION: Legal Public Notice

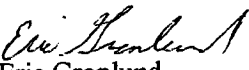
Enclosed is a Notice on Application No. 6546-3 to Appropriate Water to be published twice. Please publish the first notice on December 8, 2004 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

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 City of Aberdeen, %Robin Bobzien, City Engineer, 123 South Lincoln Lane St., Aberdeen SD (Ph # 605-626-7017).

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. 6546-3

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

Date _____

We are in receipt of your letter of December 1, 2004 enclosing Notice to Appropriate Water by Application No. 6546-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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.**

December 1, 2004

City of Aberdeen
% Robin Bobzien City Engineer
123 S Lincoln Lane St
Aberdeen SD 57401

Dear Mr. Bobzien:

Water Permit Application No. 6546-3 for municipal 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 American News printed at Aberdeen, SD (Ph # 605-225-4100). 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

cc: Kristin Bisgard, Banner Associates Inc.

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 December 8, 2004 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6546-3 to
Develop Reserved Water

Notice is given that the City of Aberdeen, c/o Robin Bobzien, City Engineer, 123 S Lincoln ~~Lane~~ St, Aberdeen SD 57401 has filed an application for a water permit to construct and place to beneficial use 4.67 cubic feet of water per second (2,520 acre-feet annually) from six wells to be completed into the Elm Aquifer (approximately 34-52 feet deep) located in the NW ¼ and SE ¼ Section 8-T124N-R63W. This water was appropriated and reserved by Future Use Permit No. 3427A-3. The water will be used to supply the City of Aberdeen.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6546-3 because 1) water is appropriated by Future Use Permit No. 3427A-3, 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 December 27, 2004.

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.



CITY OF ABERDEEN

12668 391 Ave.
Aberdeen, SD 57401-4215

WATER TREATMENT

(605) 626-7010

RECEIVED

DEC 23 2004

WATER RIGHTS
PROGRAM

Memo

To: Eric Gronlund, DENR
From: Sue Singrey, Aberdeen Public Works
Date: December 22, 2004
Re: Affidavit of Publication for Notice of Application #6546-3

Attached please find your copy of the affidavit of publication for the Notice of Water Permit Application #6546-3 showing publication on December 10th and December 17. It was originally planned to publish on December 8, but the American News had a printing problem and a portion of the notice did not print.

If you need anything else regarding this matter, please let us know. Thank you.

AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA}

§

COUNTY OF BROWN}

Nary Basler being duly sworn, on his/her oath says: That the AMERICAN NEWS is a daily newspaper of general circulation, printed and published in Aberdeen, Brown County, South Dakota, by the Aberdeen News Company, a corporation, and has been such a newspaper during the times hereinafter mentioned; That affiant is an employee and principal clerk of said publisher and has personal knowledge of all facts stated in this affidavit; That the advertisement headed:

Legal Notice # 1160551
Notice of Application

a printed copy of which is hereunto attached, was printed and published in the regular and entire issue of said newspaper, and not in a supplement thereof, once each

Week for 2 successive Weeks
The first publication being made on the 10 day of Dec, 2004.
The second publication being made on the 17 day of Dec, 2004.
The third publication being made on the _____ day of _____, 2004.
The fourth publication being made on the _____ day of _____, 2004.
The fifth publication being made on the _____ day of _____, 2004.
The sixth publication being made on the _____ day of _____, 2004;

That said newspaper is a legal newspaper published five days or more each week; with a bona fide circulation of more than two hundred copies daily; published in the English language within the said county of Brown for more than one year prior to the first publication of said notice; and printed in whole in an office maintained at the place of publication of said newspaper; That the whole amount of the fee paid for the publication of the annexed notice is \$ 93.16, which insures solely to the benefit of said publisher; That no agreement or understanding for a division thereof had been made with any other person; and That no part thereof has been agreed to be paid to any person whomsoever.

Nary Basler
Subscribed and sworn to before me this 20 day of Dec, 2004.

Daily Circulation 18,000

Paula [Signature]

Notary Public, Brown County, SD.

My commission expires March 20, 2007

(No. 1160551)
(Dec 10, 17, 2004 - 17)
NOTICE OF APPLICATION NO.
6546-3 to Develop
Reserved Water

Notice is given that the City of Aberdeen, %Robin Bobzien, City Engineer, 123 S. Lincoln St., Aberdeen SD - 57401 has filed an application for a water permit to construct and place to beneficial use 4.67 cubic feet of water per second (2,520 acre-feet annually) from six wells to be completed into the Elm Aquifer (approximately 34-52 feet deep) located in the NW 1/4 and SE 1/4 Section 8-T124N-R63W. This water was appropriated and reserved by Future Use Permit No. 3427A-3. The water will be used to supply the City of Aberdeen.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6546-3 because 1) water is appropriated by Future Use Permit No. 3427A-3; 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 December 27, 2004.

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,
Planning and Zoning Director
November 26, 2004

SEAL



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

JAN 18 2005

City of Aberdeen
% Robin Bobzien City Engineer
123 S Lincoln Lane St
Aberdeen SD 57401

Dear Mr. Bobzien:

Enclosed is Water Permit No. 6546-3 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

PAYMENT REQUEST FORM

PAYEE: City of Aberdeen
123 S Lincoln St
Aberdeen SD 57401

FROM: Water Rights Program
523 E. Capitol
Pierre, SD 57501-3181

DESCRIPTION OF SERVICE, PRODUCE OR TRANSFER

Refund of overpayment with application #6546-3

AMOUNT: \$175.00

FUNDING SOURCE:

GENERAL: X

FEDERAL:

COMMENTS:

AUTHORIZATION:

Daibaul Cabuli
1-18-05

I declare and affirm under the penalties of perjury that this claim is in all things, true and correct. I further agree to comply with the provisions of the Civil Rights Act of 1964 and regulations issued thereunder relating to nondiscrimination in federal assisted programs.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

January 20, 2005

6546-3

City of Aberdeen
Robin Bobzien, City Engineer
123 S Lincoln
Aberdeen SD 57401

Dear Mr. Bobzien:

You should have received Water Permit No. 6546-3 earlier this week. This was the permit for six wells completed into the Elm Aquifer. The application was submitted September 1, 2004 with an application fee of \$925.00. The application was later amended for 2,520 acre-feet annually. This amendment changed the application fee. Therefore, a refund of \$175.00 is due to the city.

You should be receiving the refund check within the next two weeks. If you have any questions, please contact me.

Sincerely,

Karen Schlaak
Water Rights Program
(605) 773-3352

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

Date 10/24/2006

TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

FROM: City of Aberdeen SD
(name)
123 S Lincoln Street
(address)
Aberdeen, SD 57401 605-626-7011
(city, state, zip) (phone)

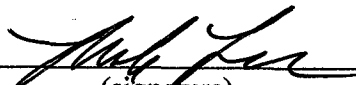
I have completed the construction of the water use system and I have put the water to beneficial use to the maximum extent it is going to be used.

Water Permit No. 6546-3 states that the water use system is to be constructed by
December 27, 2009 , and water is to be put to beneficial use by December 27, 2013 .
(date) (date)

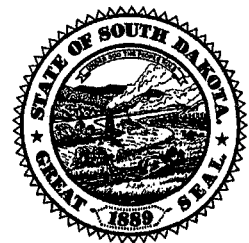
The water use system was completed on 12/29/05 .
(date)

Applying the water to beneficial use was completed on 1/24/05 .
(date)

You may schedule an investigation so that the water license may be issued.


(signature)

RECEIVED
OCT 27 2006
WATER RIGHTS
PROGRAM



Permit No. 6546-3
James River - Water District

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

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

I have this day, **September 18, 2007**, made a thorough examination of the water use system constructed by the **City of Aberdeen** of **123 South Lincoln St., Aberdeen, SD 57401** holder of Permit No. **6546-3**, bearing the priority of **December 30, 1976** authorizing the diversion of **4.67** cu. ft. per second (**2,520 acre feet annually**) of the waters of **Elm Aquifer** for **Municipal** purposes, in **Brown** County.

Inspection contact & relationship to permit holder, if applicable: **Janel Ellingson, Superintendent, Aberdeen Water Works**

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: **Lako Drilling, Inc**
- 2) No. of Wells **6**
- 3) Depth(s) (feet)

B-1: 37

B-2: 43

B-3: 46

B-4: 39

B-5: 57

B-6: 47

Well log is available **Y**

Casing:

- 1) Diameter **12** inches
- 2) Length (feet)

B-1: 28

B-2: 43

B-3: 37

B-4: 39

B-5: 44

B-6: 36

3) Type **Steel**

Screen:

1) Type **Stainless Steel**

2) Length (feet)

B-1: 37

B-2: 43

B-3: 46

B-4: 39

B-5: 57

B-6: 47

3) Static water level (feet)

B-1: 10.7

B-2: 7.9

B-3: 6.0

B-4: 9.5

B-5: 7.0

B-6: 8.2

Pump:

1) Make **(6) Grundfos Submersible**

Model

B-1: 230S50-2AR

B-2: 475S100-1

B-3: 625S150-1A

B-4: 230S50-2AB

B-5: 800S200-1A

B-6: 625S150-1A

2) Size (hp)

B-1: 5

B-2: 10

B-3: 15

B-4: 5

B-5: 20

B-6: 15

3) Capacity (gpm)

B-1: 230

B-2: 475

B-3: 625

B-4: 230

B-5: 800

B-6: 625

B. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by **Y**
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period **NA**
- 3) Exceptions to compliance are: **None**

The system is in **Good** condition with the point(s) of diversion located as follows:

Wells are all in Section 8-T124N-R63W

B-1: Approximately 665 feet south and 490 east of the NW corner.

(N 45.57330, W -98.45221) (NW ¼ NW ¼)

B-2: Approximately 1550 feet south and 1290 feet east of the NW corner.

(N 45.57085, W -98.44896) (SW ¼ NW ¼)

B-3: Approximately 2000 feet south and 2090 feet east of the NW corner.

(N 45.56960, W -98.44584) (SE ¼ NW ¼)

B-4: Approximately 2145 feet north and 2580 feet west of the SE corner.

(N 45.56656, W -98.44361) (NW ¼ SE ¼)

B-5: Approximately 1800 feet north and 1960 feet west of the SE corner.

(N 45.56555, W -98.44118) (NW ¼ SE ¼)

B-6: Approximately 1365 feet north and 1370 feet west of the SE corner.

(N 45.56436, W -98.43886) (NW ¼ SE ¼)

The works are capable of diverting and conveying to the place of use **6.64** cu. ft. per second of water which is to be used for **Municipal Use**.

Water has been put to beneficial use to the maximum extent as follows:

Waterlines from these wells are connected to existing 24" transmission waterlines.

The license should be issued for **4.67** cfs (**2,520 acre-feet**).

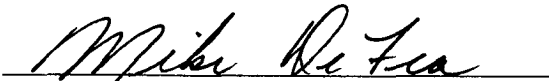
Report of Examination of Works

Permit No. 6546-3

All structures, wells and lands on map **Y**

Comments or other permit(s) associated with the project:

Water Permit No. 6546-3 authorizes the diversion of 4.67 cfs (2,520 acre-feet) of water appropriated by, and reserved by, Future Use Permit No. 3427A-3. The maximum volume of water the pumps in the wells can produce is 6.64 cfs if all the pumps were operating simultaneously. However, the city does not operate these wells at the same time and their annual use for these six wells for 2006 was only 498 acre-feet.



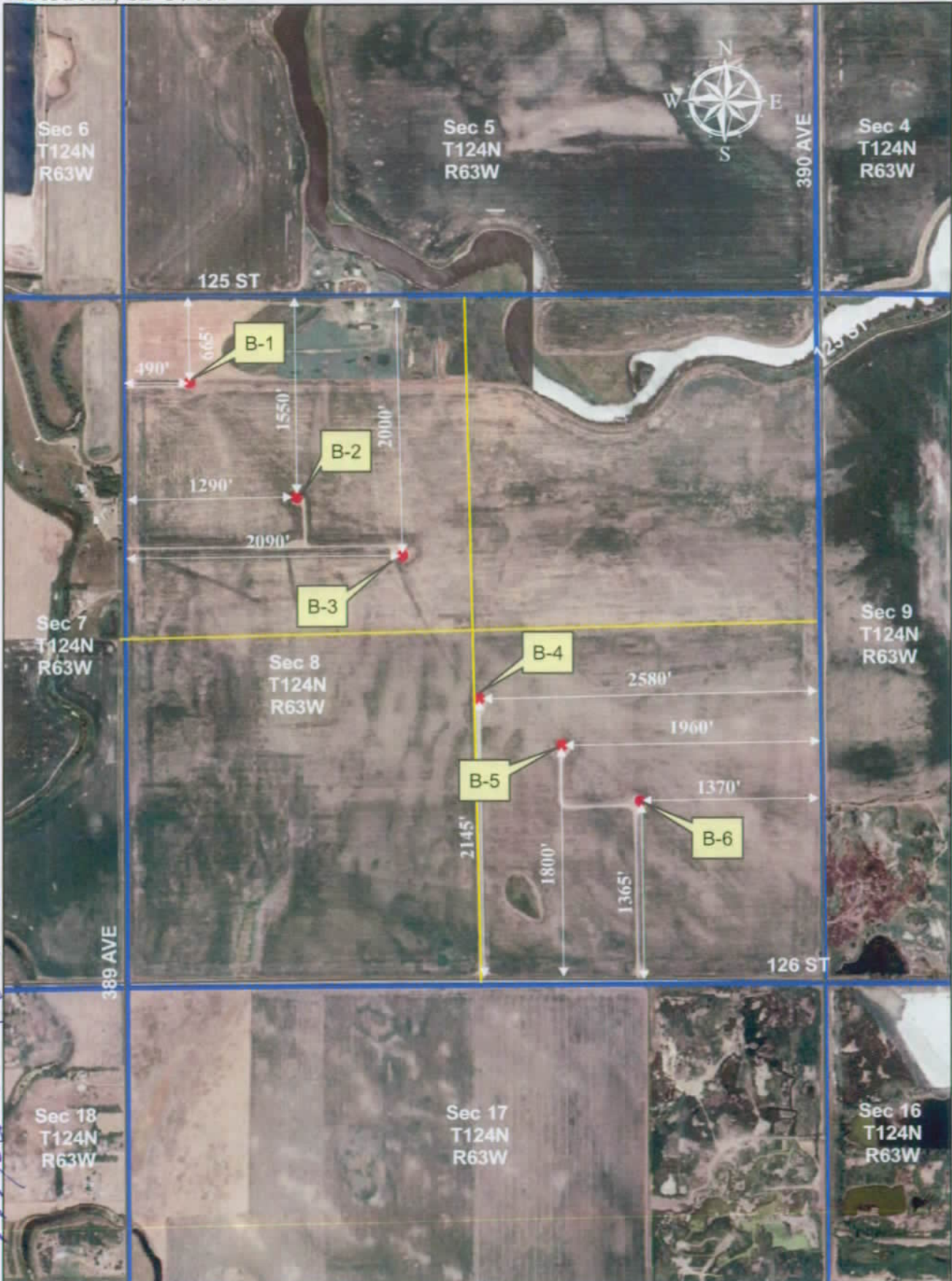
Mike DeFea

Natural Resources Project Engineer
DENR, Water Rights Program

Date report completed: **January 3, 2008**

City Of Aberdeen
123 South Lincoln
Aberdeen, SD 57401

Water Permit No. 6546-3



Mike DeFea

Mike DeFea
Natural Resources Engineer
DENR, Water Rights Program
January 3, 2008



0 385 770 1,540 2,310 3,080 Feet



JUL 28 2008

6546-3

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

6546-3 & 6725-3

City of Aberdeen
Janel Ellingson, Water Superintendent
123 South Lincoln St
Aberdeen SD 57401

Dear Ms. Ellingson:

Enclosed are Water License Nos. 6546-3 and 6725-3. These are the final water right documents completing the city's process of obtaining a Water Right. Also, included with the licenses are maps prepared by the staff engineer who conducted the investigations.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right Nos. 6546-3 and 6725-3, 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.

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

Sincerely,

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

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 6546-3

(1) City of Aberdeen, 123 South Lincoln Street, Aberdeen SD 57401 made Application No. 6546-3, September 1, 2004 for a water permit to divert 4.67 cubic feet of water per second (2,520 acre-feet annually) from groundwater (six wells), Brown County, South Dakota for municipal purposes. Permit No. 6546-3, with a priority date of December 30, 1976 (established by Future Use Permit Nos. 3427-3 and 3427A-3) was approved December 27, 2004 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before December 27, 2009 and for the application to beneficial use of water on or before December 27, 2013.

(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. 6546-3 is issued a license, bearing a priority date of December 30, 1976 (established by Future Use Permit Nos. 3427-3 and 3427A-3) to appropriate 4.67 cubic feet of water per second (2,520 acre-feet annually) from groundwater (six wells) for municipal purposes.

The diversion points are all located in **Section 8-T124N-R63W**

- B-1: approximately 665 feet south and 490 feet east of the northwest corner (NW ¼ NW ¼)
- B-2: approximately 1,550 feet south and 1,290 feet east of the northwest corner (SW ¼ NW ¼)
- B-3: approximately 2,000 feet south and 2,090 feet east of the northwest corner (SE ¼ NW ¼)
- B-4: approximately 2,145 feet north and 2,580 feet west of the southeast corner (NW ¼ SE ¼)
- B-5: approximately 1,800 feet north and 1,960 feet west of the southeast corner (NW ¼ SE ¼)
- B-6: approximately 1,365 feet north and 1,370 feet west of the southeast corner (NW ¼ SE ¼).

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 6546-3 including the following now applicable qualifications:

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

The wells authorized by Permit No. 6546-3 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. (Wells are drilled and logs on file with the Water Rights Program.)

The City of Aberdeen shall report to the Chief Engineer annually the amount of water withdrawn from the Elm Aquifer.



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

JUL 28 2008

date

