

1. Considered: _____, 19____ Water Right No. 971-1A
2. Name of Applicant City of McIntosh
3. Post Office Address Box 446 57401
4. Amount of Water Claimed no add'l (2.50) maximum acre feet _____
5. Source of Water Supply 4 wells approx 200' deep
6. Water to be used for MUN acres to be irrigated _____
7. County Corson about _____ miles _____ of City Limits
8. PROOF OF PUBLICATION: Received 1st 12-30-83 Not Received _____
- APPLICATION: Approved _____ Subject to _____
- Not Approved _____ Action Deferred _____

PRIORITY
1948

Dated Received 5/6/83 Application complete-yes X no _____ FFE 50.00

Remarks Change of diversion and additional diversion on 971-1

Corrected Application received 9/8/83 Period of Annual Use 1/1 to 12/31

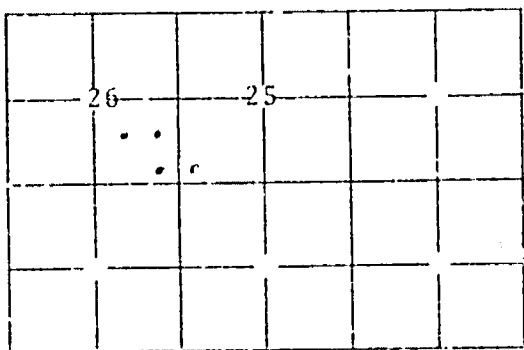
WATER
QUALITY

Received yes _____ no _____ APPROVED/CONDITIONAL (Circle one)

WI-1 Description same as application-yes _____ no _____ Remarks _____

not applicable

Disapproved _____ Returned _____



WELL LOG

Driller _____ Licensed - yes _____ no _____

Depth 200' + deep

Remarks _____

REDUCTION RATIO
ROLL NUMBER
DATE MICROFILMED
CAMERA OPERATOR SIGNATURE

Water Right No. 971-1A

MAP Map No. 971-1A Map located in Water Right X Map file _____
Type of Map drawn city map Prepared by Helms & Assoc.

+++++

VIEWED This Application was received within 30 days of the date received, accepted as complete, Number assigned and written up for advertisement before the Board on:
9/12/83

Betty Westlund
(Signed)

+++++

PROTESTS Letters/Petitions in File - yes _____ no _____ Remarks _____

REMARKS Date
F. & C. Final Decision, including F.F. & C. of Law were adopted _____
F LAW, Date
FINAL Final Decision mailed to parties and/or parties notified that Final Decision was
DECISIONS adopted _____
ETC. Remarks _____

STATE OF SOUTH DAKOTA

VESTED RIGHT WATER LICENSE NO. 971-1A

(1) The City of McIntosh of Box 416, McIntosh, SD 57461, made Application No. 971-1A, May 6, 1983 for validation of a vested right claim to appropriate 0.50 cubic feet of water per second from groundwater (4 wells), Corson, County, South Dakota, for municipal purposes. Vested Water Right No. 971-1A was validated May 10, 1989 with a priority date of January 1, 1948. Construction of the described water supply system and application of water to beneficial use has been completed and complies with applicable provisions of South Dakota State Law.

Vested Right Claim No. 971-1A changed the diversion point location for two existing wells and authorized an additional two wells to the water use system described in Vested Right Claim No. 971-1. The diversion rate and priority date claimed under No. 971-1 were retained for No. 971-1A. Both, Vested Right Claim Nos. 971-1 and 971-1A were validated May 10, 1989. The applicable portions of Vested Right No. 971-1 are incorporated into this Vested Right Water License No. 971-1A.

(2) The vested right owner is entitled to divert 0.42 cubic feet of water per second for beneficial use. The location of the diversion points are: Well #1 - 180'E and 30'N of the SW corner of Section 25 (SW¼SW¼); Well #2 - 1790'W and 1110'N of the SE corner Section 26 (SW¼SE¼); Well #3 - 1030'W and 200'N of the SE corner of Section 26 (SE¼SE¼); Well #4 - 1500'N and 650'W of the SE corner of Section 26 (NE¼SE¼), all in T23N, R22E.

(3) Pursuant to Section 46-5-30.1 the City of McIntosh of Box 416, McIntosh, SD 57461 the holders and/or owners of Incorporated Vested Water Right No. 971-1A is issued a license to appropriate 0.42 cubic feet of water per second from groundwater (4 wells) with a priority date of January 1, 1948 from the location specified in (2) of this license. The water is to be used for the purpose of municipal use. This license is subject to any limitations, conditions or qualifications listed in Incorporated Vested Water Right No. 971-1A and subject to South Dakota State Law.



SEP 17 1993

JOHN HATCH, Chief Engineer
Water Rights Division
Department of Environment and Natural Resources

No. 971-1AMap No. 971-1A Water Division No. 1 Grand River DistrictAbove for Office Use 10/30/83

APPLICATION FOR PERMIT To Appropriate Water within the State of South Dakota

Check one of the following:

New ☐ Vested Right ☐ Future Use ☐Change in Diversion pts X Additional Diversion pts XChange in Acreage ☐ Additional Acreage ☐1. Name of Applicant City of McIntosh Phone No. 273-4498First Office Address Box 416 McIntosh State South Dakota 57461
(Street, RR, or Box) (Town) (Zip Code)

If a corporation show date and place of incorporation _____

2. Method of accomplishing work (contract, employment of others, or by direct labor) _____

3. Name of diversion work Municipal Water Works4. Amount of water claimed (cubic feet per second) No additional (0.5 cfs on 971-1)5. Source of water supply 4 wells approximately 200 feet deep6. Location of point of diversion Existing wells - North well NE1/4SE1, South Well SE1/4SE1,
Section 26, New Wells - Well #1 NW1/4SE1, Section 26, Well #2 SW1/4SW1 Section 25 all
in T23N, R22E County Corson7. Annual period or periods during which water is to be used continuous8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) Municipal

9. For irrigation use, Total number of acres to be irrigated _____

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

Land Description	No. Acres Irr.

Land Description	No. Acres irr.

* Attach sheet if more space is needed

10. Time required to complete construction of water supply system 5 years. Additional time required to complete application of water to the proposed beneficial use 4 years.

11. Choice of county newspaper for publication of Notice of Intent to Appropriate Water _____

12. Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source.

4 wells approximately 200 + feet deep

B. Works proposed to transport water to place of use.

City distribution system
53,000 gallon storage tank

C. Works proposed to apply water to beneficial use.

200 service connections

Estimated Total Cost \$ _____

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map. (see instructions concerning preparation.)

STATE OF SOUTH DAKOTA)

County of CORSON) ss.I, Harvin Bertsch, Mayor the applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction.Signed Harvin BertschSubscribed and sworn to before me this 7 day of September, 1983[Signature]
Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Management Board hereby approves Water Right Application No 971-1A

City of McIntosh

(Applicant)

Box 416

(Post Office Address)

South Dakota

(State)

With the following qualifications

The wells approved under this Permit are located near domestic 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.

The abandoned railroad wells and any other abandoned City wells shall be plugged pursuant to SDCL 46-6-27.

Date of first receipt of application May 6, 1983

Date of return to applicant for correction, amendments or changes required —, 19—

Date of receipt of corrected application —, 19—

Approved February 15, 1984, Recorded in Book — Page —

WATER RIGHT PERMIT NO. 971-1A

The Water Management Board hereby grants and issues this Water Right Permit No. 971-1A authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as qualified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is —, 1948
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before August 15, 1986
3. The whole of said work is to be completed on or before February 15, 1989
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is February 15, 1993
5. The water appropriated shall be used for the purpose of Municipal

6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.

7. The amount of the appropriation herein granted shall not exceed 0.50 cubic feet per second, neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial uses served, ~~and if for irrigation purposes said appropriation must be limited to not more than 2 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied~~

~~for irrigation~~ on or before February 15, 1993; said water to be used during the following described annual period: January 1 thru December 31

Witness my hand this 12th day of March, 1984

THE WATER MANAGEMENT BOARD

By:

John H. Hallett
Chief Engineer, Water Rights

Certificate of Construction Issued —, 19—

Water License Issued —, 19—

D Well Information

- (1) Drill Hole, Diameter 12", Depth 220' to 240'
- (2) Casing, Type Steel (wood, concrete, steel, etc), Diameter 8", Thickness .322 inches
- (3) Screen, Type Stainless steel, Diameter 4" O.D., Length 20' ±
- (4) Gravel Pack, Thickness 2", Length of gravel pack Length of Screen

E Dugout Information or Estimates

- (1) Surface dimensions, _____, Depth _____

F Fill out for Either a Well or a Dugout.

- (1) Water Bearing Materials. (Attach a copy of test well log)

Depth to top of water bearing material 185' to 190'

Depth to bottom of water bearing material 220' to 240'

Depth to water (ground surface to water level) 120' ±

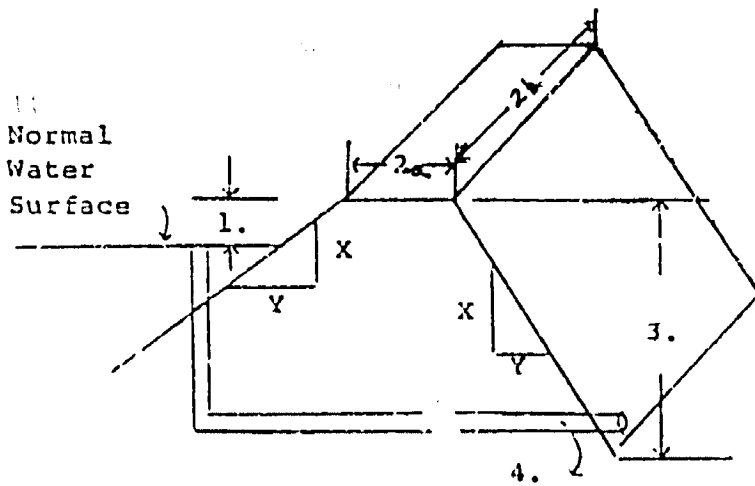
- (2) Distance to nearest existing household or livestock watering well.

On same owner's property N/A rds.

On property owned by others N/A rds.

G Water Storage Dams

If the proposed water use system contains one or more water storage dams, please show in the space below, the height, length, maximum water depth, surface area, drainage area, storage capacity, dam slope, dimensions, location and size of outlet works, of each storage dam. The location of each water storage dam should be shown on the water right map.



1. Freeboard _____
- 2a Crest width _____ b. length _____
3. Height of Dam _____
4. Outlet dimensions:
- Pipe diameter _____
- Spillway width _____
- X & Y slope:
- Upstream _____
- Downstream _____
- Surface area of impoundment _____
- Drainage area above dam _____

REPORT ON THE CITY OF MCINTOSH
APPLICATION NO. 971-1A
SEPTEMBER 27, 1983

This application proposes to divert .5 CFS from 2 existing and 2 additional wells approximately 200+ feet deep. This in effect maintains the priority date for the city for .5 CFS established under Water Right 971-1 but allows the change and addition of diversion points.

AQUIFER - Fox Hills

GEOLOGY AND AQUIFER CHARACTERISTICS

The Fox Hills Formation can be described as a Late Cretaceous aged mainly grayish white to yellow sandstone and sandy shale composed of 4 members (Stevenson, 1956). The formation is approximately 200 feet thick in this area. The average porosity is reported at 20% indicating approximately 275 million acre-feet of water in storage in South Dakota of which 68 million acre feet should be available to wells (Rahn, 1981). In a recent study for the City of McIntosh the SDGS (Green, 1983) test drilling indicates favorable sand units in the 120' to 240' range. The SDGS refers to the aquifer as Hell-Creek and Fox Hills but for purposes of this review I will call the aquifer Fox Hills. Past well yield experience for the City and railroad wells indicate an expected yield of 40 to 60 GPM can be expected. Average specific yield estimates of .29 GPM/FT of drawdown (Rahn, 1979) for the Fox Hills suggest the specific capacity in the McIntosh area must be in the 1 GPM/FT of drawdown range. A properly designed and constructed well should yield approximately 50 GPM. The aquifer is under water table conditions. There is very little water level data available and no historical data available for this area. The nearest Water Right observation well is 25 miles to the south.

REVIEW OF EXISTING WATER RIGHTS

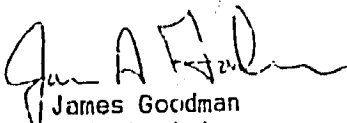
There are no existing water rights near this application. The only other use of Fox Hills water is for domestic purposes. Because of the anticipated low yield of the aquifer, interference should not be a problem. The City has used this source since at least 1930 with no apparent problems.

CONCLUSIONS

1. Water is available.
2. There is no indication well interference will be a problem.
3. There have never been any ground water related complaints in this area.
4. Any newly constructed city wells should be logged and tested to determine specific capacity and evaluate aquifer characteristics.
5. Any abandoned wells should be plugged pursuant to SDCL 46-6-27.

BIBLIOGRAPHY

- Green S., 1983. City of McIntosh Unpublished Data, SDGS, Vermillion, SD.
- Rahn, P., 1979. Ground Water Resources of Western SD, Report to U.S. Army Corps of Engineers, Omaha District, August 23, 1979.
- Rahn, P., 1981. Western SD Ground Water, GSA Guidebook, 1981 Annual Meeting.
- Stevenson, R.E., 1956. Areal Geology of the McIntosh Quadrangle, SDGS, Vermillion, SD.


James Goodman
Hydrologist

RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT

APPLICATION No. 971-1A, City of McIntosh

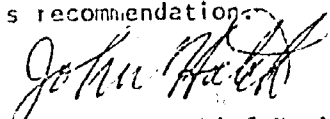
Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 971-1A, City of McIntosh, PO Box 416, McIntosh, South Dakota.

The Chief Engineer is recommending APPROVAL of Application No. 971-1A because 1) the proposed diversions can be developed without unlawful impairment of existing rights, 2) the proposed use is a beneficial use and 3) in the public interest with the following qualifications:

The wells approved under this Permit are located near domestic 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.

The abandoned railroad wells and any other abandoned City wells shall be plugged pursuant to SDCL 46-6-27.

The attached report is a part of this recommendation.


JOHN HATCH, Chief Engineer
October 11, 1983

Instruction to Newspaper - Publish first publication of the following Notice on or before October 19, 1983 with 2nd publication 1 week later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 971-1A to Appropriate Water ~~and/or~~ to Amend ~~Water Permit~~ Water Rights No. 971-1

Notice is hereby given that the City of McIntosh whose mailing address is Box 416, McIntosh, South Dakota has made an application for a permit

to change existing points of diversion to North well in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ and South well to SE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 26 and to drill two new wells, #1 in NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 26 and #2 in SW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 25 all in T23N, R22E. All Wells are to be approximately 200 feet deep. (Initial 0.5 cfs appropriation of water and priority date was established by Water Right No. 971-1.) Water will continue to be used for the purpose of providing water for municipal use.

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

APPROVAL of Application No. 971-1A because ~~1) unappropriated water is available,~~
1) will be no unlawful impairment of existing rights, 2) is beneficial use of water and
3) is in the public interest.

This application will be considered by the Water Management Board at Room 216, Joe Foss Building, 523 East Capitol, Pierre, South Dakota on November 30, 19 83 at 10:00 am.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the Applicant and the Chief Engineer by November 18, 1983. The petition may be informal, but it must include a statement describing the petitioner's interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17, 46-5-1 thru 46-5-16, 46-5-24, 46-5-25, 46-5-30.2, 46-5-31; 46-2A-1 thru 46-2A-10, 46-2A-12; ~~(ground)~~ 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; ~~(future use) 46-5-38 thru 46-5-40, (to be for land) 46-5-30.4, 46-5-33 thru 46-5-35, (10,000 ASA) 46-5-20.1, 46-5-8.1, and Board Rules ARSD 74:02:01:01 thru 74:02:01:15; (future use) 74:02:01:21 thru 74:02:01:23, (10,000 ASA) 74:02:01:15.02 thru 74:02:01:15.05~~

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

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWRN, Joe Foss Bldg, Pierre SD (605 773-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by November 18, 1983.

No. 971-1A

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Pierre) ss.

Bruce H. Hildebrand hereby

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

Water was taken from the Pierre County No.

A newspaper which during the whole time of publication of said notice
herein after stated, has been and is printed and published in the

Pierre County No. of ND State

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

October 20, 1983

Bruce H. Hildebrand
(Signature)

Don R. Rogers
(Title)

12/1/83
(Date Signed)

Cost of Printing: 20.50

NOTICE OF HEARING

On application no. 971-1A to
Appropriate Water to Amend
Water Rights No. 971-1.

Notice is hereby given that the
City of McIntosh whose mailing
address is Box 418, McIntosh,
South Dakota has made an applica-
tion for a permit to change existing
points of diversion to North well in
the NE 1/4 SE 1/4 and South well in
the SE 1/4 SE 1/4 Section 26 and to drill
two new wells, #1 in NW 1/4 NE 1/4,
Section 26 and #2 in SW 1/4 NE 1/4,
Section 25 all in T23N, R22E. All
Wells are to be approximately 200
feet deep. (Initial 0.5 cfs appropriation
of water and priority date was
established by Water Right No.
971-1.) Water will continue to be
used for the purpose of providing
water for municipal use.

Pursuant to SDCL 46-2A-2 the
Chief Engineer of the Water Rights
Division recommends Approval of
Application No. 971-A because 1)
will be no unlawful impairment of
existing rights, 2) is beneficial use
of water and 3) is in the public
interest.

This application will be consid-
ered by the Water Management
Board at Room 216 Joe Foss
Building, 523 East Capitol Pierre,
South Dakota on November 30,
1984 at 10:00 a.m.

The recommendation of the
Chief Engineer is not final or
binding upon the Board and the
Board is authorized to make a
determination on this application
after it reaches a conclusion based
upon facts presented at the public
hearing. Any interested person
who may be affected by a Board
decision and who intends to partic-
ipate in the hearing before the
Board and present evidence or
cross-examine witnesses according
to SDCL 1-26 must file a written
petition with BOTH the Applicant
and the Chief Engineer by Novem-

ber 18, 1983. The petition may be
informal, but it must include a
statement describing the petition-
er's interest in the application, the
reason for the petitioners opposi-
tion to or support of the application
and the signature and mailing
address of the petitioner or his
legal counsel if legal counsel is
obtained. The applicant need not
file a petition.

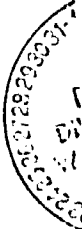
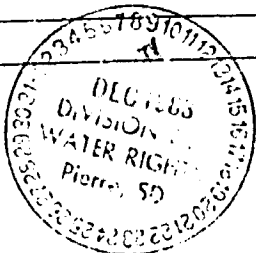
This application is made pur-
suant to the provisions of SDCL
46-1-1 thru 46-1-9, 46-1-12, thru
46-1-15; 46-2-1, 46-2-9, 46-2-11,
46-2-13, 46-2-17, 46-5-1 thru
46-5-18, 46-5-24, 46-5-25, 46-5-30, 2
46-5-31; 46-2A-1 thru 46-2A-10,
46-2A-12; 46-6-3, 46-6-3.1, 46-6-8.1
46-6-10, 46-6-13, 46-6-14; and
Board rules ARSD 74:02:01:01 thru
74:02:01:15;

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

Any person wishing a copy of the
Chief Engineer's recommendation,
further information on this applica-
tion or to assure access to the
hearing by the handicapped can

contact the Water Rights Division,
DWRN, Joe Foss Bldg. Pierre, SD
(605-773-3352) for assistance at
least twenty days upon written
request of the applicant or any
person who has filed a petition to
oppose or support the application.
The request for extension must be
filed with the Chief Engineer by
November 18, 1983.

News Oct. 19-25



Instruction to Newspaper - Publish first publication of the following Notice on or before December 23, 1984 with 2nd publication 1 week later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 971-1A to Appropriate Water
~~and/or~~ to Amend ~~Water Permit or~~ Water Right No. 971-1A

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Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 971-1A because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at the Civil Defense Room, Capitol Building, Pierre, South Dakota on February 15 1984 at 10:00 am.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the Applicant and the Chief Engineer by February 3, 1984. The petition may be informal, but it must include a statement describing the petitioner's interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17, 46-5-1 thru 46-5-16, 46-5-24, 46-5-25, 46-5-30.2, 46-5-31; 46-2A-1 thru 46-2A-10, 46-2A-12; (~~ground~~) 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; (~~future-use~~) 46-5-38 thru 46-5-40; (~~transfer lands~~) 46-5-30.4, 46-5-33 thru 46-5-35; (10,000 AFA) 46-5-20.1; 46-5-8.1; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15; (~~future-use~~) 74:02:01:24 thru 74:02:01:25; (10,000 AFA) 74:02:01:15:02 thru 74:02:01:15:05.

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

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWRN, Joe Foss Bldg, Pierre SD (605 773-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by February 3, 1984.

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Cheyenne) ss.

I, Robert J. Foss hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Pierre Press & News

A newspaper which during the whole time of publication of said notice
herein after stated, has been and is printed and published in the _____

Cheyenne of Pierre

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

12/22/83

12/29/83

Robert J. Foss
(Signature)

Robert J. Foss
(Title)

12/29/83
(Date Signed)

Cost of Printing: \$31.01

WNR-808-7/79
Proof of Publication

APPLICATION NO. 971-1A TO
APPROPRIATE WATER TO
AMEND WATER RIGHT
971-1A

Notice is hereby given that the
City of McIntosh, whose mailing
address is Box 416, McIntosh,
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the NE $\frac{1}{4}$ SE $\frac{1}{4}$ and South well to
SE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 26 to drill two
new wells, 1 in NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section
26 and 2 in SW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 25
all in T23N, R22E. All wells are to
be approximately 200 feet deep.
(Initial 0.5 cfs appropriation of
water and priority date was estab-
lished by Water Right No. 971-1).
Water will continue to be used for
the purpose of providing water for
municipal use.

Pursuant to SDCL 46-2A-2 the
Chief Engineer of the Water Rights
Division recommends Approval of
Application No. 971-1A because 1)
unappropriated water is available,
2) will be no-unlawful impairment
of existing rights, 3) is beneficial
use of water the 4) is in the public
interest.

This application will be consider-
ed by the Water Management
Board at the Civil Defense Room,
Capitol Building, Pierre, South
Dakota on February 15 1984 at
10:00 a.m.

The recommendation of the
Chief Engineer is not final or
binding upon the Board and the
Board is authorized to make a
determination on this application
after it reaches a conclusion based
upon facts presented at the public
hearing. Any interested person
who may be affected by a Board
decision and who intends to partic-
ipate in the hearing before the
board and present evidence or
cross-examine witnesses according
to SDCL 1-26, must file a written
petition with Both the Applicant
and the Chief Engineer by Feb-
ruary 3, 1984. The petition may be
informal, but it must include a
statement describing the petition-
ers interest in the application, and
the signature and mailing address
of the petitioner of his legal counsel
if legal counsel is obtained. The
applicant need not file a petition.

This application is made pur-
suant to the provisions of SDCL
46-1-1 thru 46-1-9, 46-1-12 thru
46-1-15, 46-2-3, 1, 46-2-9, 46-2-11,
46-2-13, 46-2-17, 46-3-1 thru 46-3-
16, 46-5-24, 46-5-25, 46-5-30, 2,

46-5-31; 46-2A-1 thru 46-2A-10,
46-2A-12; 46-6-3, 46-6-3.1, 46-6-C.1,
46-6-10, 46-6-13, 46-6-14; and
Board rules ARSD 74:02:01:01 thru
74:02:01:15.

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

Any person wishing a copy of the
Chief Engineer's recommendation,
further information on this applica-
tion or to assure access to the
hearing by the handicapped can
contact the Water Rights Division,
DWNR Joe Foss Bldg, Pierre SD
605-773-3352 for assistance prior to
the hearing date. The time of the
hearing will be automatically ex-
tended for at least twenty days
upon written request of the ap-
plicant or any person who has filed a
petition to oppose or support the
application. The request for exten-
sion must be filed with the Chief
Engineer by Feb. 3, 1984.

May 10, 1983

City of McIntosh
Post Office Box 416
McIntosh, South Dakota 57641

Dear Sir:

Your application for permit to appropriate water for municipal use was received May 6, 1983.

This application will be considered as a new permit to drill two more wells for the City of McIntosh and does not qualify as a vested right or a change of diversion as stated on the application.

The Cities vested water right #971-1 covers the two RR wells and City well A. Since these wells have been abandoned the "in use City Wells" shown on the map enclosed with your new application are not covered by a water permit. It is our understanding these wells were drilled in 1930 and 1948, therefore they would qualify as a vested right. Enclosed are our forms to file for a vested right on these two wells.

If you are requesting the 0.5 cfs of water from the two new proposed wells the filing fee will be \$150.00. The fee for the vested right filing will be \$10.50. Please feel free to contact our office if you have a question on the fee or completion of the forms.

To maintain your priority date of May 6, 1983 on your application for permit to appropriate water, in accordance with SDCL 46-5-16, you will now have sixty days from the date of this letter to correct your application and/or have the above information submitted to this office.

Sincerely,

Betty Westlund
Water Rights Specialist

BW:ms

Enc.

cc: Rob Kittay

Water Rights Division
605 773-3352

May 24, 1983

Terry Helms
Helms and Associates
Box 111
Aberdeen SD 57401

RE: Water Permit Application for City of McIntosh:

Dear Mr. Helms:

Regarding our telephone conversation May 19th, enclosed is a partially completed application for you to have Mr. Bertsch sign.

As we discussed, the application is for two additional diversion points and no additional water on the Cities Vested Right No. 971-1. The north and south well can be considered replacement wells for the two Railroad wells no longer being used. The City will retain the 1948 priority date on the 0.5 cfs and the replacement wells but a new priority will be placed on the new wells.

The filing fee for additional diversion points and no new appropriation of water is only \$50.00.

If the application is returned before the end of May it can be advertised for the July 19th Water Management Board meeting.

Sincerely,

BETTY WESTLUND
Water Rights Specialist

BW:ks

enclosures

Water Rights Division
605 773-3352

June 7, 1983

Terry Helms
Helms & Associates
Box 111
Aberdeen SD 57401

RE: Water permit application for the City of McIntosh

Mr. Helms:

I am writing in regard to the above referenced water permit application. In reviewing the information we presently have there is a possibility that all of the wells could be covered under vested rights. In order to reach a conclusion concerning this matter I would like to have the following info:

Were the existing north & south wells put into service in 1930 & 1948 respectively? (when were they drilled?) *1924*

When were the two railroad wells abandoned? What were their pumping rates? *1950 5000 gpm*

When was City well A abandoned and what was its pumping rate?

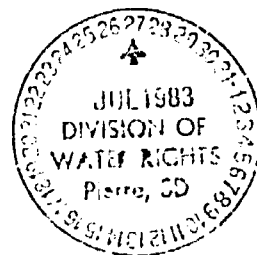
If the two railroad wells were abandoned within the last few years the two new wells could be considered replacement wells for the railroad. Then all that would be needed would be a vested right filed on the north & south wells. If you would send me the above information we can proceed. I apologize for the delay but this application was more complicated than it appeared at first. If you have any questions, please contact me.

Thank you,

KEVIN C LARSON
Water Resources Engineer

KCL:ks

MEMORANDUM



TO: Merlin J. Tipton, State Geologist
Mark Stelchen, Administrator, Office of Drinking Water
John Hatch, Director, Division of Water Rights
Bill Barkley, Section Chief, 208

FROM: Blake D. Gorringer, Natural Resource Engineer
Office of Water Quality

DATE: July 26, 1983

RE: CDBG McIntosh
Well Development Project

The Office is requesting your comments on a proposed well project in McIntosh, South Dakota. A partial grant to include the development of two new wells for their drinking water system. The following is the information which this Office thinks you may need:

1. Water use - drinking;
2. Projected capacity 50 gpm/per well;
3. Depth - 250 feet;
4. Driller - Heron Drilling;
5. Well construction - 6" I.D. casing, Sched 40, screen 4" O.D. = stainless steel telescoping, 2 inch gravel pack;
6. Attached is a location and copy of legal description.

Your prompt attention would be appreciated. The City is very anxious to start construction.

B7260600.wq

M E M O

TO: Blake D Barringer, Natural Resources Engineer
Office of Water Quality

FROM: Kevin C Larson, Natural Resources Engineer III
Division of Water Rights

SUBJECT: Comments on CDBG McIntosh, Well Development Project

DATE: August 1, 1983

The City of McIntosh made application to this office May 31, 1983 for two new wells. After reviewing their other permit No. 971-1 and talking with Terry Helms the status of the application is as stated in the attached letter. If you have any further questions please contact me.

KL:k

Conversation or File Documentation

NAME OF PERSON OR FILE: City of McIntoshADDRESS: Box 416 COUNTY CorsonDATE: August 25, 1983 TELEPHONE _____RE: Clarification of Vested Right 971-1

COMMENTS:

On September 8, 1972 the Water Resources Commission
recognized "Vested Right" 971-1 for 0.5 cfs from 3 wells with a
priority of 1948. There is a lot of confusion surrounding
this permit. Do to this fact we decided to recognize 971-1
as being valid for 0.5 cfs from wells about 200 feet
deep. Even though the two RR wells are collapsed and City
well "A" is no longer being used the City did not intend
to abandon the 0.5 cfs

Therefore we will require the City to
file for a change in diversion and additional
diversion points with total diversion not to exceed
0.5 cfs. We will assign the number 971-1A to this
application. When the new wells are completed a license
will be reissued to reflect actual use. Qualification
to approval will be to plug two RR wells.

File in Permit or other file as necessary. Use to document conversations and what the other party was told; why action or decision was made.

NAME: Kevin C. Larson

WATER RIGHTS DIVISION
(605) 773-3352

August 31, 1983

City of McIntosh
Attention: Marvin Bertsch
Box 416
McIntosh, South Dakota 57641

Dear Mr. Bertsch:

I am enclosing two copies of your water permit application for your signature and notarization. In reviewing the material for this application we have determined that an application for change in diversion points and additional diversion points is needed. The change in diversion points will transfer use of the two railroad wells covered under permit #971-1 to the present north and south wells. The additional diversion points will cover the two proposed new wells. As long as the combined diversion from these four wells does not exceed 0.5 cfs (225 gpm) they will retain the 1948 priority date as established by permit 971-1 and no other application will be needed. A qualification to approval of permit application 971-1A will be to plug the two abandoned railroad wells. When the two new wells are completed an inspection will be made and a license issued incorporating permits 971-1 and 971-1A for the actual amount of water being used.

If you have any questions concerning this please contact this office.

Thank you,

Kevin C. Larson
Water Resources Engineer

KCL:ms
Enc.

cc: Terry Helms, Helms & Assoc.

Water Rights Division
605 773-3152

December 16, 1983

971-1A

Harvin Bertsch, Mayor
City of McIntosh
Box 416
McIntosh SD 57641

Mayor Bertsch:

Enclosed please find the publication notice for Permit Application No. 971-1A. This notice has to be readvertised for the February 15 & 16 meeting of the Water Management Board. The previous notice was only published once on October 20, 1983. That does not constitute legal notice. If you have any questions, please contact this office.

Thank you,

KEVIN C LARSON
Water Resources Engineer

KCL:ks

South Dakota
Department of
Water & Natural Resources
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

971-1A

March 14, 1984

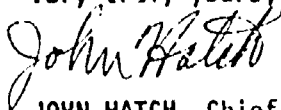
City of McIntosh
Marvin Bertsch, Mayor
Box 416
McIntosh SD 57461

Dear Mr. Bertsch:

Enclosed herewith is your Water Permit No. 971-1A as approved by the Water Management Board authorizing you to construct your water diversion system and the water to beneficial use, not exceeding the limits as specified in said Water Permit No. 971-1A.

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

Very truly yours,



JOHN HATCH, Chief Engineer
Water Rights Division

JH: kb

enclosure

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

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

WNP-809-5/83

 **Department of
Water & Natural Resources**

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

JUN 13 1989

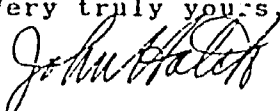
Marvin Bertsch, Mayor
City of McIntosh
Box 416
McIntosh SD 57461

Dear Mayor Bertsch:

The Water Management Board has validated the enclosed Vested Water Right Nos. 971-1 and (971-1A.) These validations give legal status to the claims and are the final document for your vested rights.

As long as you use the water beneficially, as stated in the validation, State Water Laws provide that you have a continuing right to use the water.

Very truly yours,



JOHN HATCH, Chief Engineer
Water Rights Division
605 773-3352

enclosure



SOUTH DAKOTA

VALIDATION OF VESTED WATER RIGHT CLAIM NOS. 971-1 & 971-1A

Date Claim Accepted For Filing August 24, 1972 & May 6, 1983.

Date of Validation May 12, 1989.

Pursuant to SDCL 46-2A-17 the Water Management Board validated Vested Water Right Claim Nos. 971-1 & 971-1A for the City of McIntosh, Box 416, McIntosh, South Dakota 57461 with the following limitations, conditions and qualifications:

1. Vested Water Right Nos. 971-1 & 971-1A appropriate 0.5 cubic feet of water per second from 4 wells approximately 200 feet deep located in the SW 1/4 SW 1/4, Section 25; NE 1/4 SE 1/4, SE 1/4 SE 1/4 and NW 1/4 SE 1/4, Section 26; all in T23N, R22E.
2. The appropriated water is used for supplying water for the City of McIntosh and may not exceed the amount of water needed for beneficial use for municipal purposes.

The water is to be used during the following annual period:
January 1 - December 31.
3. The priority date of the Vested Water Right is: January 1, 1948 for all four wells.
4. The water use system has been constructed and water has been applied to beneficial use.
5. Water Rights obtained in compliance with the laws of the State of South Dakota must not be unlawfully impaired by this appropriation.

QUALIFICATIONS

The wells approved under this Permit will be located near domestic 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.

The abandoned railroad wells and any other abandoned City wells shall be plugged pursuant to SDCL 46-6-27.

WATER MANAGEMENT BOARD

By: _____

Chief Engineer

Division of Water Rights

Dept. of Water and Natural Resources

JUN 13 1989

date

Permit No. 971-1A
Grand River - Water District

Report Of Examination Of Works And/Or Application of Water To Beneficial Use

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

I have this day made a thorough examination of the water use system constructed by City of McIntosh of McIntosh, SD holder of Permit No. 971-1A, bearing the priority of January 1, 1948 authorizing the diversion of 0.50 cu. ft. per second of the waters of ground water for municipal purposes, in Corson County.

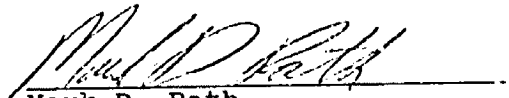
I have to report on the conditions of the same as follows:

- A. Works used to divert the water:
Three Grundfos pumps and one Reddale Pump with total combined capacity of 190 gpm.
- B. Works used to transport water to place of use:
Municipal water distribution system.

The system is in the following condition good. The point of diversion is located From the SW Corner of Section 25 T23N-R22E; Well #1 - 180 ft E, 30 ft N; From the SE corner of Section 26 T23N-R22E; Well #2 - 1790 ft W, 1110 ft N; Well #3 - 1030 ft W, 200 ft N; Well #4 - 1500 ft N, 650 ft W. The works are capable of diverting and conveying to the place of use 0.42 cu. ft. per second of water which is to be used for municipal purposes. The license should be issued for 0.42 cfs.

Applicable permit qualifications have been complied with: Yes ☒ No

Exceptions to compliance are: none Date: /22/1983


Mark D. Rath
Natural Resources Engineer
DENR, Water Rights Division

REPORT ON INSPECTION OF PERMIT NO. 971-1A

DATE: 6/22/93

Other permit(s) associated with the project: 971-1

DIVERSION POINT LEGAL LOCATION: FROM THE SW CORNER OF SECTION 25 T23N-R22E;

WELL #1 - 180 ft E, 30 ft N; FROM THE SE CORNER OF SECTION 26 T23N-R22E; WELL #2 -

1790 ft W, 1110 ft N; WELL #3 - 1030 ft W, 200 ft N; WELL #4 - 1500 ft N, 650 ft W

WELL INFORMATION: Well #1

- 1) Well Drilling Firm: Huron Drilling
- 2) No. of Wells 1
- 3) Depth(s) 180 feet
- 4) Well log is available Y
- 5) Comment:

Casing:

- 1) Diameter 8 inches
- 2) Length 165 feet
- 3) Type steel

Screen:

- 1) Type Johnson
- 2) Length 25 feet
- 3) Static water level 105 feet

Pump:

- 1) Make Grundfos
- 2) Model submersible
- 3) Size
- 4) Capacity 25 GPM

Motor:

- 1) Make Franklin
- 2) Model No.
- 3) Horsepower rating 5 hp

WELL INFORMATION: Well #2

- 1) Well Drilling Firm: Huron Drilling
- 2) No. of Wells 1
- 3) Depth(s) 214 feet
- 4) Well log is available Y
- 5) Comment:

Casing:

- 1) Diameter 8 inches
- 2) Length 189 feet
- 3) Type steel

Screen:

- 1) Type Johnson
- 2) Length 35 feet
- 3) Static water level 121 feet

Pump:

- 1) Make Grundfos
- 2) Model submersible
- 3) Size
- 4) Capacity 35 GPM

Motor:

- 1) Make Franklin
- 2) Model No.
- 3) Horsepower rating 5 hp

DISTRIBUTION
LINES OR CANALS:

WELL INFORMATION: Well #3

- 1) Well Drilling Firm: Norbeck Co.
- 2) No. of Wells 1
- 3) Depth(s) 236 feet
- 4) Well log is available Y
- 5) Comment: This well was reconditioned in the late 1980's

Casing:

- 1) Diameter 6 inches
- 2) Length 165 feet
- 3) Type PVC

Screen:

- 1) Type slotted plastic
- 2) Length 40 feet
- 3) Static water level 105 feet

Pump:

- 1) Make Reddale
- 2) Model submersible
- 3) Size
- 4) Capacity 55 GPM

Motor:

- 1) Make Franklin
- 2) Model No.
- 3) Horsepower rating 5 hp

PERMIT QUALIFICATIONS AND REGULATIONS:

- 1) Soil and water permit lands agree with lands being irrigated and lands listed on permit NA
- 2) Special qualifications to permit being abided by Y
- 3) All structures, wells and lands on map Y
- 4) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period NA

WELL INFORMATION: Well #4

- 1) Well Drilling Firm: Norbeck Co.
- 2) No. of Wells 1
- 3) Depth(s) 260 feet
- 4) Well log is available Y
- 5) Comment: This well was reconditioned in the late 1980's

Casing:

- 1) Diameter 6 inches
- 2) Length 200 feet
- 3) Type PVC

Screen:

- 1) Type slotted plastic
- 2) Length 60 feet
- 3) Static water level 100 feet

Pump:

- 1) Make Grundfos
- 2) Model submersible
- 3) Size
- 4) Capacity 75 GPM

Motor:

- 1) Make Franklin
- 2) Model No.
- 3) Horsepower rating 7.5 hp



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

SEP 17 1993

971-1A

Lois Utter, Finance Officer
City of McIntosh
Box 416
McIntosh, SD 57461

Dear Ms. Utter:

Enclosed is Vested Right Water License No. 971-1A. This is the final water right document completing your process of obtaining a Water Right.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Vested Right No. 971-1A, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division
(605) 773-3352

gm
enclosure

NOTE: The applicable portions of Vested Right No. 971-1 are incorporated into this Vested Right Water License No. 971-1A.

RECEIPT

WATER RIGHTS COMMISSION
State of South Dakota

No 4 9262

PIERRE, May 31, 1982

RECEIVED OF City of McIntosh, South Dakota 57641

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

Fee for Application for Permit to appropriate Water No. 971-1A (examination, processing, recording and filing)	50	00
Fee for inspecting Construction, and Issuing Cert. of Construction No.		
Fee for inspecting Beneficial Use, and Issuing Water License No.		
Fee for Issuing Location Certificate-Dry Draw, No.		
Fee for filing		
Fee for certified copy of		
Fee for Print copy of map		
Fee for Certifying		
Fee for (any other work as provided by law)		
TOTAL	50	00

WATER RIGHTS COMMISSION

By John Patch
Chief Engineer, Executive Officer
JOHN PATCH RS

971-1A

MEMORANDUM

TO : BETTY WESTLUND, WATER RIGHTS
FROM : ROB KITTAY, DRINKING WATER
SUBJECT : T. C. & G. RURAL WATER SYSTEM AND MCINTOSH WATER RIGHTS
DATE : NOVEMBER 18, 1982

Water Right # 972-1 is for two wells for the T.C. & G. Rural Water System. These are designated as the 1973 and 1976 wells on the enclosed map. Water Right # 972-1 refers to these as Wells # 1 and # 3 while T.C. & G. Rural Water System refers to these Wells # 1 and # 3 respectively. In my survey report to T.C. & G. I have indicated that they need to apply for a Water Right for the 1979 well. This well is 78' deep, has a 6" casing, and pumps at 45 GPM.

Water Right # 971-1 is for three wells for the City of McIntosh. These are RR 1, RR 2, and City A on the enclosed map. None of these wells are currently being used. RR 1 and RR 2 have collapsed in the last few years. The fate of City A is unknown. The two wells in use are referred to as the North Well and the South Well. The North Well was built in 1930, is 260' deep, has a 12" casing, and pumps at 30 GPM. The South Well was built in 1948, is 210' deep, has a 12" casing and pumps at 60 GPM.

971-1A

TITLE OPINION:

In Re: Lots 18 and 19, Block '2, Original Town of McIntosh, South Dakota; Lots 9, 10, 11, 12, 13, 14, 15 and 16, Block 4, Northwest Townsite Company's First Addition to McIntosh, South Dakota

I have examined the records in the office of the Register of Deeds of Corson County, South Dakota, regarding the above-described premises.

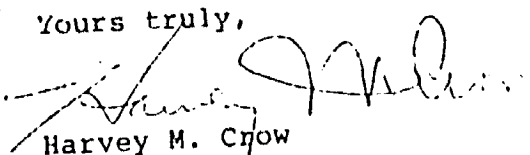
From my examination of the records, it is my opinion that the title to the above described premises is vested in the City of McIntosh, Corson County, South Dakota, merchantable, in fee simple, and free and clear of all charges, liens or encumbrances except as follows:

1. The present record title is based upon Treasurer's Tax Deeds on tax judgment sale and require an Affidavit of Possession to be recorded as provided by SDCL 43-30.

This opinion is limited to the matters shown by said records. All matters not so shown are excepted from this opinion, and include: (a) rights of any parties in possession; (b) possibility of liens for improvements in process, or completed on the premises within the last 120 days; (c) matters which an accurate survey of the premises would disclose; and (d) any liens under financing statements covering fixtures on or attached to the premises wherein the premises are not described as above set forth.

Except for the above, I have no further objections or criticisms to make to the title as shown by the records.

Yours truly,


Harvey M. Crow

HMC/mc

971-1A

AP LOCATION: 3
 LEGAL LOCATION: SW SE NW SE SEC. 25. T. 023 N., R. 22 E.
 LOCATION: 023N-22E-2608DC 1 COUNTY: CORSON
 ALTITUDE: 45.5526 LONGITUDE: 101.2120
 LAND OWNER: CITY OF MC INTOSH
 PROJECT: MC INTOSH CITY STUDY
 DRILLING COMPANY: SOG
 DRILLER: C. SCHMIG/M. THOMPSON
 GEOLOGIST: S. GREEN
 DATE DRILLED: 06-25-1982
 LOG: YES SAMPLES: NO
 TOTAL DRILL HOLE DEPTH: 294.0
 GROUND SURFACE ELEVATION: 2312.00 T
 TEST HOLE NUMBER: R2-82-71
 GGS WELL NAME: MC-82-8
 WATER RIGHTS WELL NAME:
 BASIN: GRAND
 AQUIFER: HELL CREEK/FOX HILLS
 MANAGEMENT UNIT:
 SCREEN TYPE: PVC, MFG.
 CASING TYPE: PVC
 CASING TOP ELEVATION:
 CASING STICK-UP: 3.4
 WELL MAINTENANCE DATE:
 DRILLER'S LOG:
 GEOLOGIST'S LOG: X
 DRILLING METHOD: ROTARY
 SCREEN LENGTH: 5.0
 CASING DIAMETER: 2.0
 TOTAL CASING AND SCREEN: 205.0

E-LOG: SINGLE POINT RESISTIVITY, NATURAL GAMMA.
 DEPTH TO WATER: 82.49 FEET ON 6-28-1982, 126.68
 FEET ON 7-21-1982, 130.82 ON 7-23-1982.

0 -	26	SILT, VARIGATED, TAN, BROWN AND GRAY
26 -	27	COAL; HARD
27 -	36	SHALE, VARIGATED, LIGHT-BROWN AND ORANGE; SOME COAL AND SAND STRINGERS
36 -	39	SAND, YELLOW-BROWN
39 -	54	SHALE, VARIGATED, DARK-BROWN AND GRAY
54 -	62	CLAY, DARK-GRAY, SILTY, SANDY
62 -	63	COAL; HARD
63 -	68	SAND, GRAY-GREEN, FINE
68 -	81	SHALE, VARIGATED, GRAY AND DARK-BROWN; SOME GRAY SAND STRINGERS
81 -	84	SHALE, GRAY; COAL STRINGERS
84 -	96	SHALE, VARIGATED, GRAY AND DARK-BROWN; SOME GRAY SAND STRINGERS
96 -	128	SHALE, VARIGATED, GRAY, BROWN AND GREEN; SOME SAND STRINGERS
128 -	136	SAND, GRAY-GREEN, FINE
136 -	145	SHALE, VARIGATED, GRAY, BROWN AND GREEN
145 -	155	SAND, GRAY-GREEN, FINE; SOME SHALE STRINGERS
155 -	176	SAND, GRAY-GREEN, FINE
176 -	185	CLAY, GRAY; SOME SAND STRINGERS
185 -	238	SAND, GRAY-GREEN, FINE
238 -	239	COAL
239 -	264	SHALE, VARIGATED, GRAY AND GREEN; SOME SAND STRINGERS
264 -	294	SHALE, VARIGATED, GRAY, GREEN AND DARK- BROWN; SOME SAND STRINGERS

Note: WELL SITE
 NO: 1

971-1A

MAP LOCATION: 1
 LEGAL LOCATION: SW SW SW SW SEC. 25, T. 023 N., R. 22 E.
 LOCATION: 023N-22E-250000 COUNTY: CORSON
 LATITUDE: 45.5512 LONGITUDE: 101.2053

LAND OWNER: CITY OF MC INTOSH

PROJECT: MC INTOSH CITY STUDY

DRILLING COMPANY: SDGS

DRILLER: M. THOMPSON

GEOLOGIST: S. GREEN

DATE DRILLED: 06-26-1982

E-LOG: YES SAMPLES: NO

TOTAL DRILL HOLE DEPTH: 290.0

SDGS WELL NAME: MC-82-12

BASIN: GRAND

MANAGEMENT UNIT:

SCREEN TYPE: PVC, MFG.

CASING TYPE: PVC

CASING TOP ELEVATION:

CASING STICK-UP: 1.2

WELL MAINTENANCE DATE:

DRILLER'S LOG:

GEOLOGIST'S LOG: X

DRILLING METHOD: ROTARY

GROUND SURFACE ELEVATION: 2272.00 T

TEST HOLE NUMBER: R2-82-75

WATER RIGHTS WELL NAME:

AQUIFER: HELL CREEK/FOX HILLS

SCREEN LENGTH: 5.0

CASING DIAMETER: 2.0

TOTAL CASING AND SCREEN: 173.0

E-LOG: SINGLE POINT RESISTIVITY, NATURAL GAMMA.

DEPTH TO WATER: 101.41 FEET ON 6-28-1982, 103.94

FEET ON 7-21-1982, 103.25 ON 7-21-1982.

0 - 9 SANDY YELLOW-BROWN; SOME GRAY SHALE
 9 - 40 SHALE, VARIGATED, YELLOW-BROWN AND DARK-BROWN; SOME SAND STRINGERS
 40 - 94 SHALE, VARIGATED, GRAY, BROWN AND GREEN
 94 - 110 SAND, GRAY-GREEN, FINE; SOME SHALE STRINGERS
 110 - 129 SHALE, GRAY-GREEN; SOME SAND STRINGERS
 129 - 137 SAND, GRAY-GREEN, FINE; SOME CLAY
 137 - 146 SHALE, VARIGATED, GRAY AND LIGHT-BROWN
 146 - 172 SAND, GRAY-GREEN, FINE
 172 - 182 SHALE, VARIGATED, GRAY-GREEN AND LIGHT-BROWN
 182 - 186 SHALE, LIGHT-BROWN; HARD
 186 - 192 SHALE, VARIGATED, GRAY, GREEN AND LIGHT-BROWN
 192 - 216 SAND, GRAY-GREEN, FINE; SOME SHALE STRINGERS
 216 - 237 SHALE, VARIGATED, GRAY, GREEN AND BROWN; SOME SAND STRINGERS
 237 - 242 COAL
 242 - 290 SHALE, VARIGATED, GRAY, GREEN AND BROWN; SOME SAND STRINGERS

Note: WELL SITE

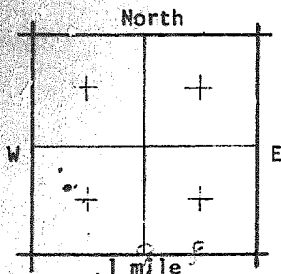
NO: 2

STATE OF SOUTH DAKOTA WELL DRILLERS REPORT

5779

Location W 1/4 Sec 26 Twp 23 Rg 22ECounty Lincoln

Please mark well location with an "X"

Well Completion Date 9/8/83

PROPOSED USE:

☐ Domestic ☒ Municipal ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Stock

Method of Drilling:

Rotary

WELL CONSTRUCTION:

Diameter of hole 12 1/4 inches Depth 314 feetCasing: ☒ Steel ☐ Plastic ☐ Other

Specify _____

 Pipe Weight Diameter From _____ To _____
30 lb/ft 8 inches 214 feet _____ feet
 _____ lb/ft _____ inches _____ feet _____ feet
Was a well screen used? ☒ Yes ☐ No

If Not Specify _____

Screen Type Johnson Slot Size 25Length 35 ft Diameter 4" TE/6Was Casing left open end? ☐ Yes ☒ NoWas a Packer or seal used? ☐ Yes ☒ No

If so what material? _____

Was well gravel packed? ☒ Yes ☐ NoWas well grouted? ☒ Yes ☐ No

Describe grouting procedure

Cement + Grout 6 to 1 mixTo what depth? 214 FeetWhat was grouting material? CementIf cement, how many sacks? 85 BGS

Location of packer(s) and screen or perforated pipe _____

Well Owner:

Name Town of McIntoshAddress McIntosh, S.Dak.

Well Log:

Depth

Formation

From

To

See Pn AttachedSTATIC WATER LEVEL 121 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other; specify _____

Can well be completely shut off? _____

WELL TEST DATA:

☒ Pumped☐ Bailed Describe: _____☐ Other _____

Pumping Level Below Land Surface

185 ft. After 12 Hrs. pumped 30 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

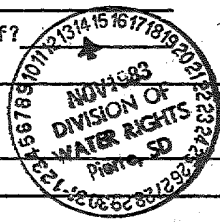
Remarks:

This well was drilled under license # 94

and this report is true and accurate.

Drilling Firm Cham Drilling Inc

Signed by _____

Date 10-20-8311-16-83WAS WELL PLUGGED OR ABANDONED ☐ Yes ☒ No

If so how and with what material? _____

HURON DRILLING INC. DRILLERS LOG

8/29/83

PAGE NO.

MacKintosh

26-23-22

~~8/22/83~~

24

Tom R.

JOB NAME

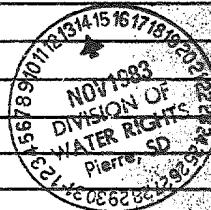
LOCATION

DATE

RIG NO.

FOREMAN

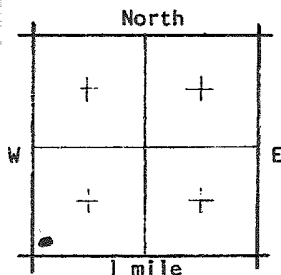
31 No.	DEPTH	TIME	REMARKS
1	20	8:00	Yellow Clay well #1
2	40	8:11	Blue Clay @ 20
3	60	8:20	Shale
4	80	8:39	
5	100	8:47	
	110	8:51	
6	120	8:58	
	130	9:02	
7	140	9:09	
	150	9:13	
8	160	9:20	
	170	9:25	
9	180	9:40	
	190	9:44	
10	200	9:55	
	210	10:02	
11	220	10:12	Sandy Shale @ 218
	230	11:20	Sandy Shale Start 11:5
	240	11:32	"
	250	11:38	"
	260	11:45	Sand Stringers
			214' 8" Steel Cemented
			85 Bags Cement
			Drilled 8" Hole To 248'
			run 45-10
			14 Day sand in well



STATE OF SOUTH DAKOTA WELL DRILLERS REPORT

Location SE 1/4 Sec 25 Twp 23 Rg 22 ECounty Conson

Please mark well location with an "X"

Well Completion Date 10-5-83

PROPOSED USE:

☐ Domestic ☒ Municipal ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Stock

Method of Drilling:

Rotary

WELL CONSTRUCTION:

Diameter of hole 12 1/4 inches Depth 180 feetCasing: ☒ Steel ☐ Plastic ☐ Other

Specify _____

 Pipe Weight Diameter From To
30 lb/ft 8 inches 180 feet _____ feet
 _____ lb/ft _____ inches _____ feet _____ feet
Was a well screen used? ☒ Yes ☐ No

If Not Specify _____

Screen Type _____ Slot Size 25Length 35 Diameter 4" TELEWas Casing left open end? ☐ Yes ☒ NoWas a Packer or seal used? ☐ Yes ☒ No

If so what material? _____

Was well gravel packed? ☒ Yes ☐ NoWas well grouted? ☒ Yes ☐ No

Describe grouting procedure

Cement Grout 6 to 1 mixTo what depth? 180 FeetWhat was grouting material? CementIf cement, how many sacks? 65

Location of packer(s) and screen or perforated pipe _____

WAS WELL PLUGGED OR ABANDONED ☐ Yes ☒ No

If so how and with what material? _____

Well Owner:

Name Edwin O McIntoshAddress McIntosh, S. Dak.

Well Log: Depth

Formation	From	To
<u>SEE PER ATTACHED</u>		

STATIC WATER LEVEL 105 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other; specify _____

Can well be completely shut off? _____

WELL TEST DATA:

☒ Pumped☐ Bailed Describe: _____☐ Other _____

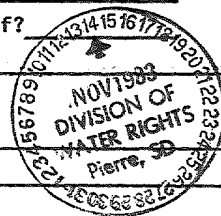
Pumping Level Below Land Surface

165 ft. After 12 Hrs. pumped 15 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

Remarks:

This well was drilled under license # 94

and this report is true and accurate

Drilling Firm

Signed by

DeRon Drilling Inc.

Date

10-20-83Ed. 11-16-83

9/22/83

PAGE NO.

25-23-22

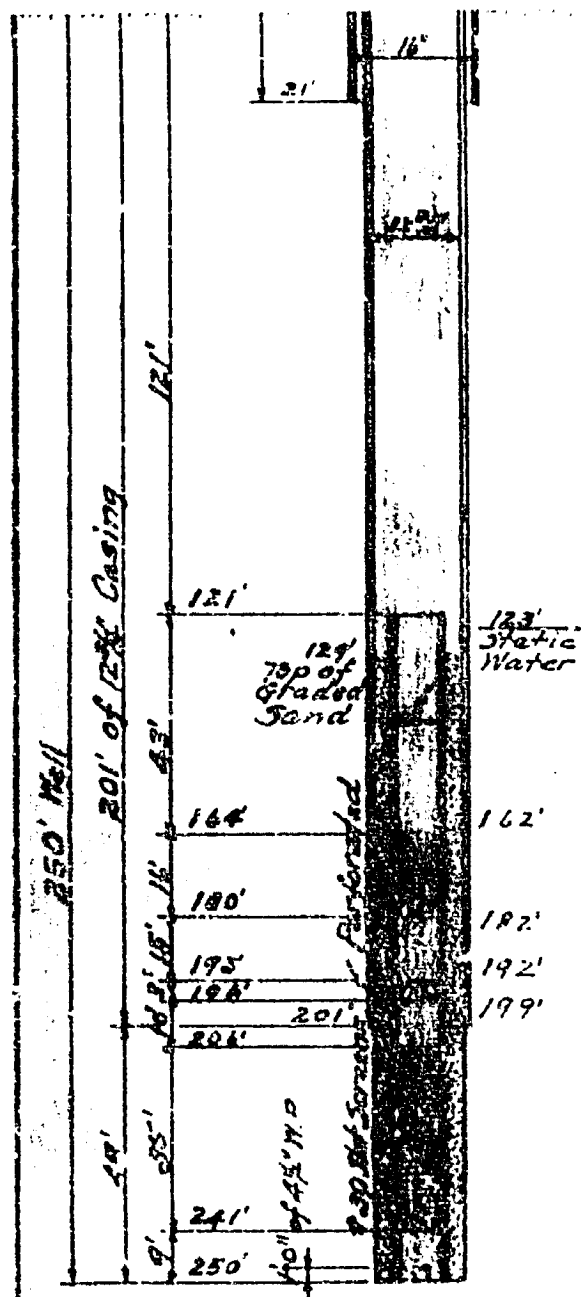
8/29/83
DATE

24
RIG NO

Tom R.
FOREMAN

[illegible]

7/11/36



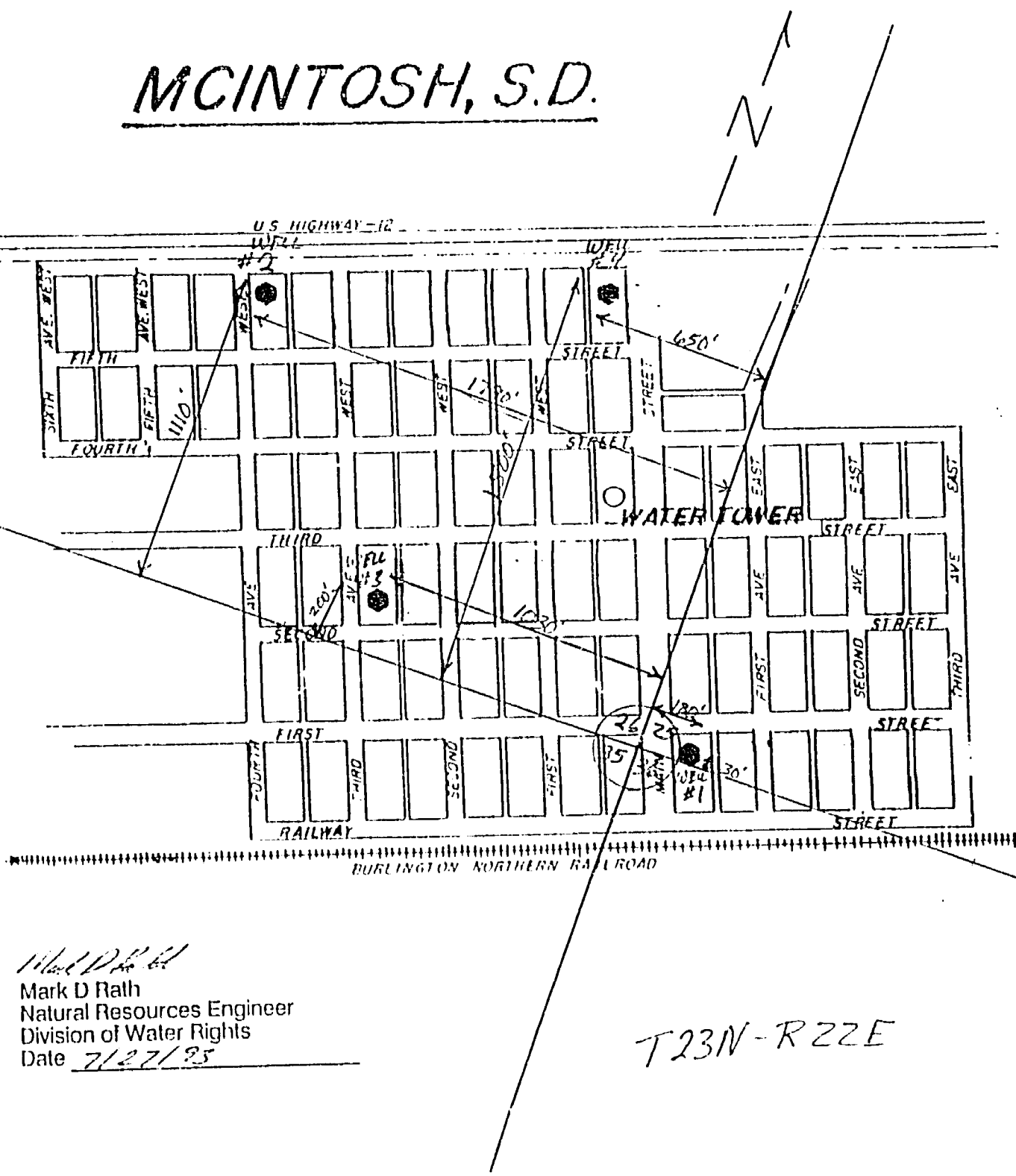
- Yellow Clay & Sand
- 42'
- Blue Clay-Soft
- 77'
- 88' Sandy Clay
- Sand-Water. 3 1/2 G.P.M.
- 105'
- 108' Sandy Clay
- Blue Clay
- 136'
- 143' Sand Streaks, mostly Clay, Shale 143'
- 157' Sand Streaks
- Sandy Clay
- 162'
- 164'
- Sand. Hard Shale 180'
- 180'
- Blue Clay
- 192'
- 194'
- 197' Sand
- 201' Sticky Clay. Hard Shale at 208'
- 206'
- Sand
- 241'
- 250' Blue Clay

Well Completed July 16,
1936 by Norbeck Co.
When pumping 40 GPM.
water lowered to 206'.
Recommend that Cylinder
be set at 240' for 20 GPM.
Water Tested 2-2-35.529 G.
Used 60 Sacks Coarse
graded sand. Screens
are Johnson 8 1/2" Q.D. No
30 Slot, with 4 1/2" x 1-0" No. 10
in bottom, Male thread
on top end.

250 N
23.1-22 E
? M. St P & N R.R.
MCINTOSH. 50 D.
LOG OF #3 WELL
Dec 2, 1936
R.F.F. 43897

971-14

MCINTOSH, S.D.



Mark D Rath
Natural Resources Engineer
Division of Water Rights
Date 7/27/25

T23N-R22E

PROPOSED

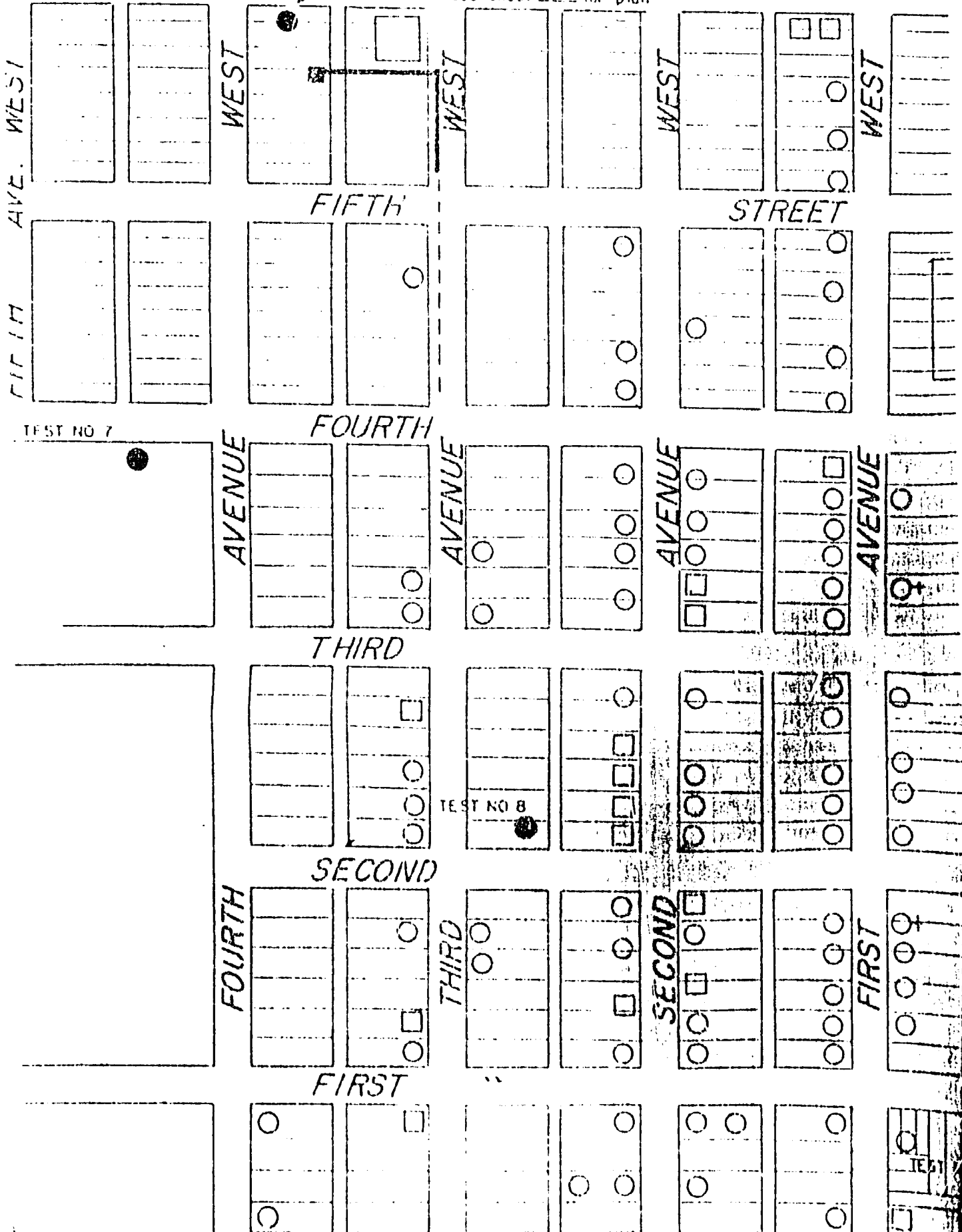
971-1A.

WELL NO. 1

see sheet 3,4

TEST NO 4

PROPOSED 3" P.V.C. SDR21, CLASS 200
see sheet 3,4 for plan





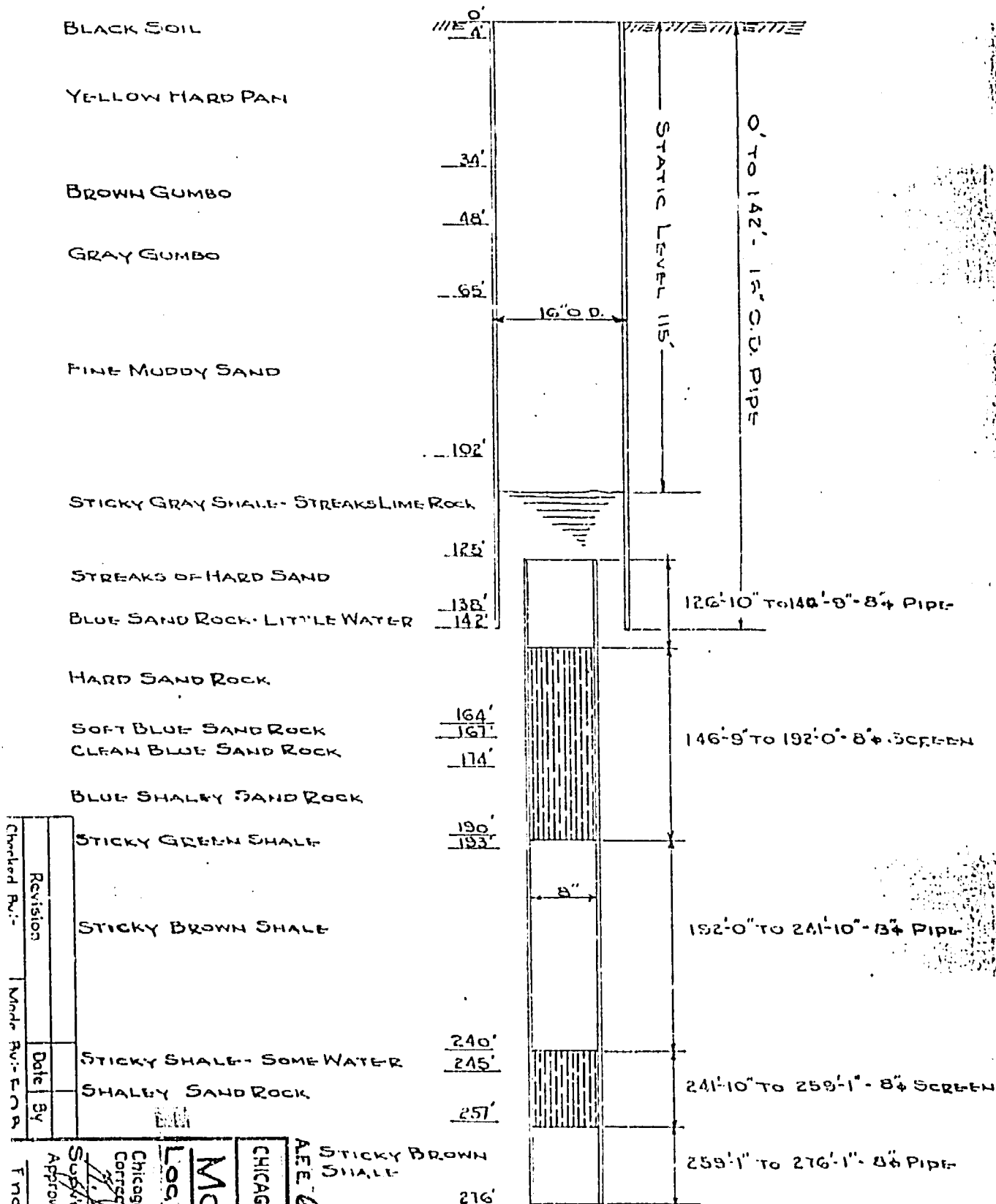
JECT MAP

#83-2
RECEIVED
 JAN 11 1983
 SOUTH DAKOTA DEPARTMENT OF
 WATER AND NATURAL RESOURCES
 OFFICE OF WATER QUALITY

REVISIONS			
Item	dwn	ckd	app

COVER SHEET		
MUNICIPAL WATER WELL CITY OF MCINTOSH, SO. DAK		
1036 — I	DATE 10/20/82	BY CDH
 HELMS and ASSOCIATES CONSULTING ENGINEERS • LAND SURVEYORS BOX 111 ABERDEEN, S. D. 57401 PHONE (605) 225-1111 BERNSHIRE PLAZA 405 6th AVENUE		

971-1A



NOTE:

SCREENS:

SCREENS ARE JOHNSON BRASS - 8" - #40 SLOT; ACTUAL I.D. 6 1/2"; O.D. 7 1/2" - SCREENS HAVE STD. FEMALE THREADS ON EACH END; 4 OF COLLAR 3/4" - SCREENS PACKED WITH GRAVEL TO 132' 8" PIPE BETWEEN SCREENS IS STD. PIPE WITH STD. THREAD. AT TOP OF ASSEMBLY THERE IS A STD 8" COUPLING

STATIC LEVEL AT 115'

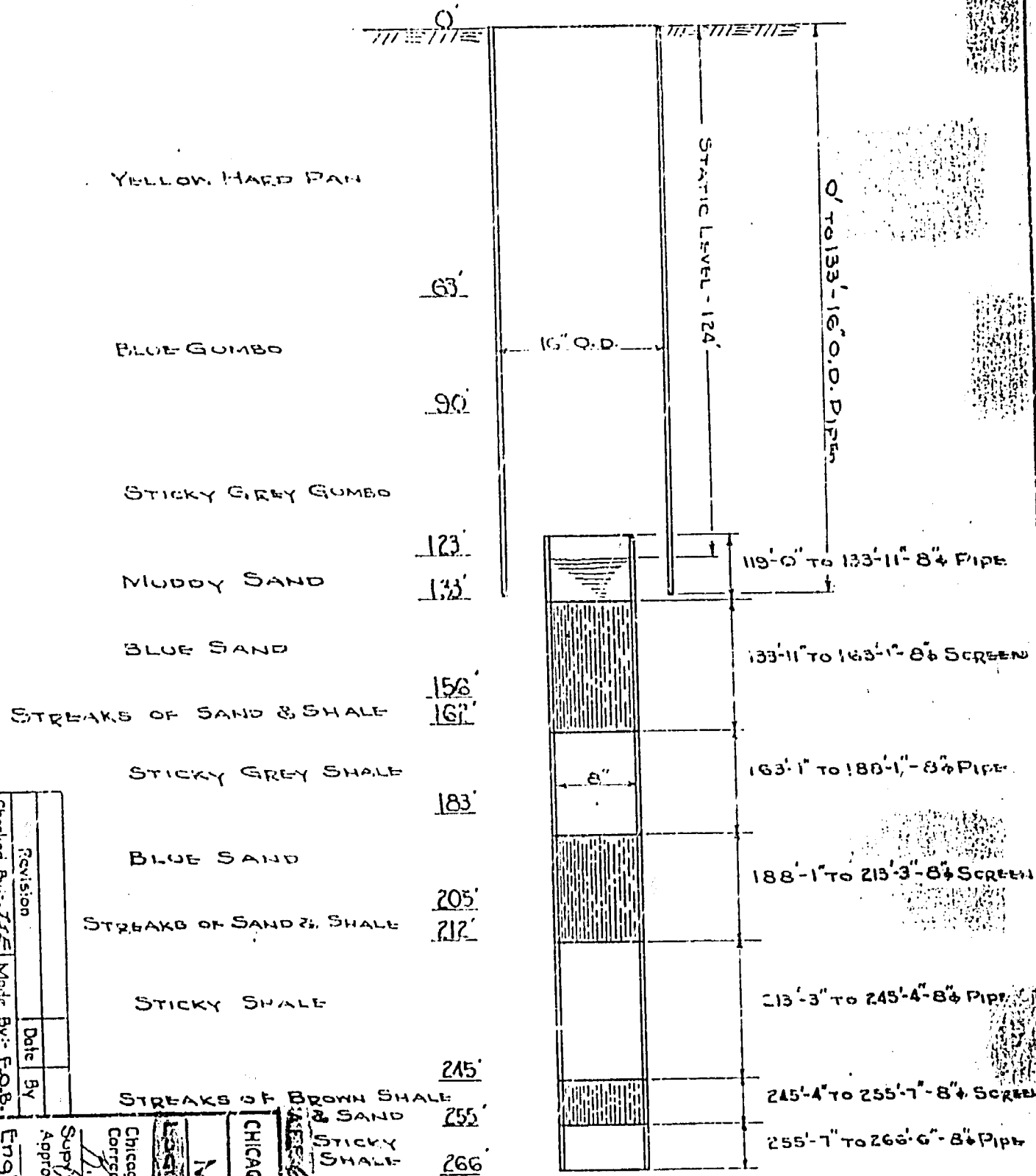
RECOMMENDED CAPACITY - 400 G.P.M.

PUMP SET AT 260'

TOP OF GRAVEL PACK AT 132'

(B)

971-11A



NOTE.

SCREENS:

SCREENS ARE JOHNSON BRASS - 8" x 40 SLOT. ACTUAL I.D. 6 1/4"; O.D. 7 1/2". SCREENS HAVE 50 FEMALE THREADS ON EACH END - 4 OF COLLAR 9 1/4". SCREENS PACKED WITH COARSE SAND UP TO 122'. 8" PIPE BETWEEN SCREENS IS STD. PIPE WITH STD. THREADS. AT TOP OF THE ASSEMBLY THERE IS A STD. 8" COUPLING.

STATIC LEVEL AT 124'
RECOMMENDED CAPACITY - 35 G.P.M.
PUMP SET AT 250'
TOP OF GRAVEL PACK AT 122'

Revision	Date	By
1		

Checked By: JSE Made By: F.O.B.

Chicago, 12-13-44.

Corrected: J. H. 12-13-44.

Approved: J. H. 12-13-44.

Supply Fuel & Water Serv. Supt. of Bridges & Sligs

Approved: J. H. 12-13-44.

Chief Engineer

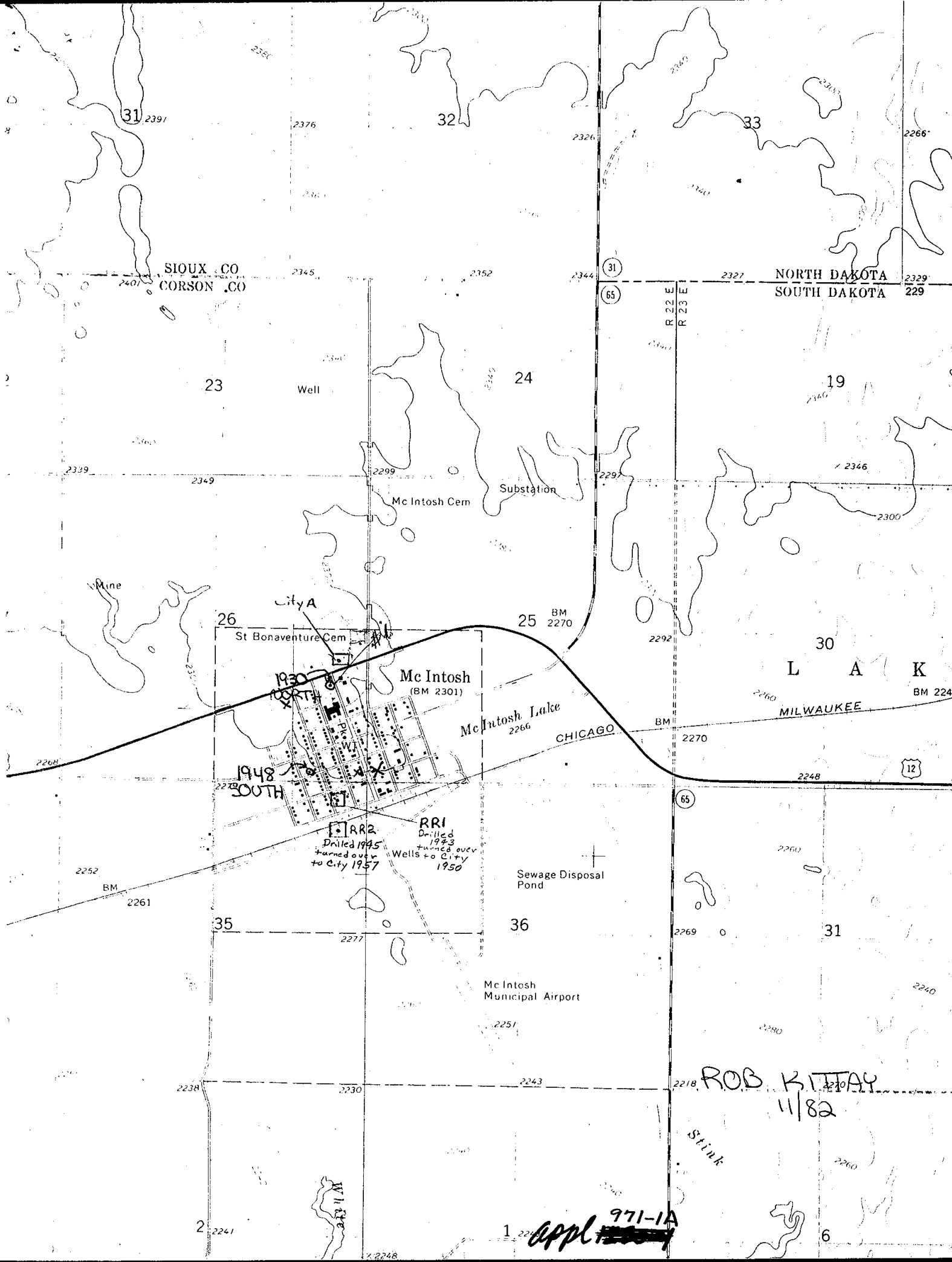
CHICAGO, MILWAUKEE, ST. PAUL & PACIFIC RAILROAD

McINTOSH, SO. DAK.

626473

1 of 1

(A)



SIoux CO
CORSON CO

NORTH DAKOTA
SOUTH DAKOTA

City A

St Bonaventure Cem

Mc Intosh Cem

Substation

Mc Intosh
(BM 2301)

Mc Intosh Lake
2266

CHICAGO

MILWAUKEE

1948
SOUTH

RR2
Drilled 1945
turned over
to City 1957

RR1
Drilled 1943
turned over
to City 1950

Sewage Disposal
Pond

Mc Intosh
Municipal Airport

ROB KITTAY
11/82

971-1A
appl



971-1A
**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

January 18, 2011

City of McIntosh
c/o Rose Mary Fritz
PO Box 416
McIntosh SD 57641

Dear Ms Fritz:

I am writing in regard to a well completion report filed by Gregg's Drilling & Excavating. The report shows a new well was completed for the City of McIntosh on August 21, 2010. A review of our files indicates the city holds Water Right No. 971-1A which authorizes 0.42 cubic feet of water per second (approximately 190 gallons per minute) from four wells. A copy of Water Right No. 971-1A is enclosed.

South Dakota Codified Law 46-5-13.1 provides that a point of diversion (well) may be changed or additional points of diversion may be approved without application or publication of a notice of hearing if the additional point of diversion is from the same source of water, no additional water is appropriated and the Chief Engineer makes a finding that the change does not increase the potential for interference with existing diversions.

Is the new well a replacement well or an additional well? If it is an additional well, does the well increase the total appropriation of 190 gpm? Once we determine the status of the new well, we can determine what, if any additional action needs to be taken.

If you have any questions, please contact Eric Gronlund or me.

Sincerely,

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

enclosure

SOUTH DAKOTA WATER WELL COMPLETION REPORT

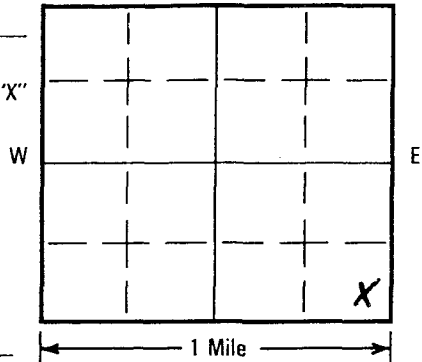
07-92

Location SE 1/4 SE 1/4 Sec 26 Twp 23N Rg 22E
 County Corson

Please mark well location with an "X"

Well #1
 Block 12
 East 1/2
 Well Completion Date

8-21-2010



LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 15' ft. from existing well (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Forward Mud Rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT DIAMETER FROM TO HOLE DIAMETER
4.13 LB/FT 6" ID. IN 2 above FT 181' FT 10" IN
 _____ LB/FT _____ IN _____ FT _____ FT _____ IN
 _____ LB/FT _____ IN _____ FT _____ FT _____ IN

GROUTING DATA

Grout Type No. of Sacks Grout Weight From To
1/5% Bentonite grout 28 9.5 lb./gal. _____ ft. _____ ft.
1/5% Bentonite grout _____ lb./gal. 10 ft. 150' ft.

Describe grouting procedure Pumped in from bottom up through
1" Tremie pipe.

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 6" IPS IN Length 35' FEET

Material Stainless Steel 304 Welded bar

Slot Size .025 Set From 181' Feet to 216' Feet

Other information Gravel packed w/ #40 Red Flint
from 150' to 216'. Welded bottom.

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 solution
Circulated in well

Laboratory sent to for water
 quality analysis _____

_____, NO, Why Not? _____

Well Owner: McIntosh City Well

Business Name: _____

Address: _____

McIntosh, S. Dak. 57641

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Topsoil</u>	<u>0</u>	<u>1</u>
<u>Light brown sand clay to gray clay</u>	<u>1</u>	<u>28</u>
<u>Gray clay to sandy clay sand & coal</u>	<u>28</u>	<u>52</u>
<u>Gray sandy clay to Blue gray sandy clay</u>	<u>52</u>	<u>105</u>
<u>Gray clay to Gray-blue sandy clay</u>	<u>105</u>	<u>152</u>
<u>Gray-blue sand & coal flakes</u>	<u>152</u>	<u>165</u>
<u>Gray-brown clay to sandy clay</u>	<u>165</u>	<u>180'</u>
<u>Gray-blue sand to sandy clay</u>	<u>180'</u>	<u>216'</u>
<u>Gray sandy clay to brown to gray clay</u>	<u>216</u>	<u>225</u>

STATIC WATER LEVEL 95.2 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ WATER RIGHTS PROGRAM GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped

☐ Bailed

☐ Other

Describe: Developed well by air lift
off and on surging till water
cleared up. 6 Hours

Pumping Level Below Land Surface

190 ft. After 10 Hrs. pumped 31 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS Well located on west side of
old pump house.

This well was drilled under license # 231

And this report is true and accurate.

Drilling firm Gregg's Drilling & Excavating

Signature of License Representative:

Gregg Shewski

Signature of Well Owner or Equitable Property Holder:

Date: _____

RECEIVED

JAN 21 2011

WATER RIGHTS
PROGRAM

CITY OF MCINTOSH
PO BOX 416
MCINTOSH, SOUTH DAKOTA 57641
PHONE: 605-273-4498

BENNY JOE SCHELL
MAYOR

ROSE M. FRITZ
FINANCE OFFICER

Karen Schlaak
Water Rights Program

Dear Karen:

This is to let you know that the well we did, has replaced the well that was there. The old one was giving us colored water, and the new one that replaces it seems to be a godsend for the City of McIntosh.

Thank You!
Respectfully yours,

Rose M. Fritz
Finance Officer
City of McIntosh