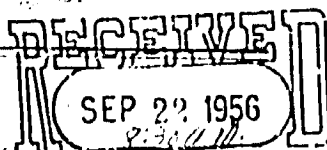


1. Considered Nov-13, 1956
2. Name of Applicant City of Rapid City # 435-2
3. Post Office Address Rapid City, S. Dak.
4. Amount of water claimed 1.78 cfs.
5. Source of water supply Well No. 3
6. Water to be used for Municipal Purposes
Acres to be irrigated 1
7. Water to be diverted and used in Pennington County about
1 miles near of Rapid City
8. Proof of Publication Received Not needed
Not Received _____
9. Application Approved ✓
Subject to Rec of Town 24
Not Approved _____
Action deferred _____
10. Remarks:

Vested Right

No. 35-2Water Division No. 12 District 1
(Blanks to be filled by the Engineer for the W. R. C.)STATE WATER RESOURCES COMMISSION
PIERRE, SOUTH DAKOTA

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

(NOTE—Draw a line through items not applicable.)

1. Name of applicant City of Rapid City
Postoffice address Rapid City, County Pennington, State South Dakota

I. If a corporation Municipal(a) Name of same City Commissioners—H. Baker, J. Eving, M. Haugen, C. Foseth,
F. Johnson, F. Krieger, M. Rypkema, R. Severson, L. Yeoman.(b) Date and place of incorporation City of Rapid City(c) Amount of capital stock -----(d) Amount paid in -----(e) Names and addresses of directors -----

(NOTE—A certified copy of articles of incorporation must accompany the application.)

II. Method of accomplishing the work and financial resources of the applicant:

(a) Method of accomplishing work (Whether by contract, employment of others, or by direct labor)

By Contract(b) Cash on hand, \$ -----(c) Treasury stock, \$ -----(d) Bonds to be issued, \$ -----(e) Other resources, \$ -----2. Name of diversion work Well No. 33. Amount of water claimed 1.78 cubic feet per second4. Source of water supply Ground Water-Well5. Location of point of diversion 1445' S66° 56' E of N.W. corner of Section 9, Township 1N,
Range 7 E, B1E1. on ----- bank ----- County.6. Annual period or periods during which water is to be used Year Around

7. To be used for:

I. Irrigation or domestic use: Gravity, overhead sprinkling or combination system? Municipal purposes(a) Number of acres to be irrigated ----- acres.(b) Legal subdivisions to be irrigated -----

(NOTE—A list of lands to be irrigated, giving each subdivision and fraction with acreage thereof, should be written here, or may be appended as a part of this application. Same must also be shown on accompanying map.)

(c) Statement as to domestic use (giving location etc.) Domestic use for the City of
Rapid City.

II. Stockwatering, mining, milling, power, fish culture, fire protection and public recreation:

Fire protection, public recreation and purposes incidental to(a) Nature of use municipal use of water.

Name any of the above uses claimed

(b) Amount of power to be generated ----- horse power.Amount claimed for engine cooling -----(c) Location of point -----(d) Method of developing power -----(e) Point where water will be returned to stream -----

Map No. 432-2

8. Estimated cost of work:

(a) Head Gates, \$ _____

(b) Pumping plant, \$ 13,000.00

(c) Fluming, \$ _____

(d) Canaboard, \$ _____

Rock, \$ _____

(e) Other structures _____

Total, \$ 13,000.00

9. Description of diversion works:

I. Nature of works: (Reservoir, dam, ditch, flume, pumping plant, etc.)

Well and Turbine pump

II. Dimensions of works:

(a) Dam: Height _____ feet; length at bottom _____ feet; length at top _____ feet; thickness at bottom _____ feet; thickness at top _____ feet; slope at front water face _____; slope at back face _____ material used in construction _____

(b) Reservoir: Capacity when filled _____ acre feet. Surface area at highwater mark _____ acres.

DEPTH AT OUTLET-FEET	SURFACE AREA AT EACH DEPTH AT OUTLET—ACRES	FEET	ACRE-FEET CAPACITY

(c)* Head gate: Width _____ feet; height _____ feet;
Material _____

(d) Canal: Total length _____ miles.

LOCATION BELOW HEADGATE	DEPTH	BOTTOM WIDTH	WIDTH AT WATER-LINE	GRADE PER MILE
At _____ Mile	_____ feet	_____ feet	_____ feet	_____ feet
At _____ Mile	_____ feet	_____ feet	_____ feet	_____ feet
At _____ Mile	_____ feet	_____ feet	_____ feet	_____ feet
At _____ Mile	_____ feet	_____ feet	_____ feet	_____ feet
At _____ Mile	_____ feet	_____ feet	_____ feet	_____ feet
At _____ Mile	_____ feet	_____ feet	_____ feet	_____ feet

(Give dimensions with reductions in size are made.)

Completed October, 1936

10. Time required for completion of work _____ years.

Completed October, 1936

11. Time required for complete application of water to the proposed beneficial use _____ years.

12. Choice of newspaper for publication of notice of intention to appropriate _____

Rapid City Daily Journal

STATE OF SOUTH DAKOTA

County of PENNINGTON

ss.

official representative of

I, H.S. Thorgrimsen, City Manager, City of Rapid City, S.D., being first duly sworn on my oath depose and say: That my relation to the above described undertaking is that of owner, that I have read the above foregoing statement, examined the map accompanying the same, and that I know of my own personal knowledge that the matters therein stated and shown are true.

Signed

H.S. Thorgrimsen

Subscribed and sworn to before me this

20th

day of

September1936

Notary Public (or other qualified officer.)

*Each diversion must have a headgate or measuring device.

T-2-N, R-7-E

29 28
32 33

SURVEYOR'S CERTIFICATE

I, VINAL C. FRANCIS A REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR No. 625 IN AND FOR THE STATE OF SOUTH DAKOTA DO HEREBY CERTIFY THAT THE ACCOMPANYING MAP SHOWS THE LOCATION OF WELLS, SPRINGS AND WATER GALLERIES AS USED BY OR PROPOSED TO BE USED BY THE CITY OF RAPID CITY, SOUTH DAKOTA, SAID MAP BEING MADE FROM PLATS AND RECORDS ON FILE IN THE REGISTER OF DEEDS OFFICE, PENNINGTON COUNTY, SOUTH DAKOTA. I FURTHER CERTIFY THAT THIS MAP IS A TRUE AND CORRECT REPRESENTATION OF THE WELLS, SPRINGS AND GALLERIES.

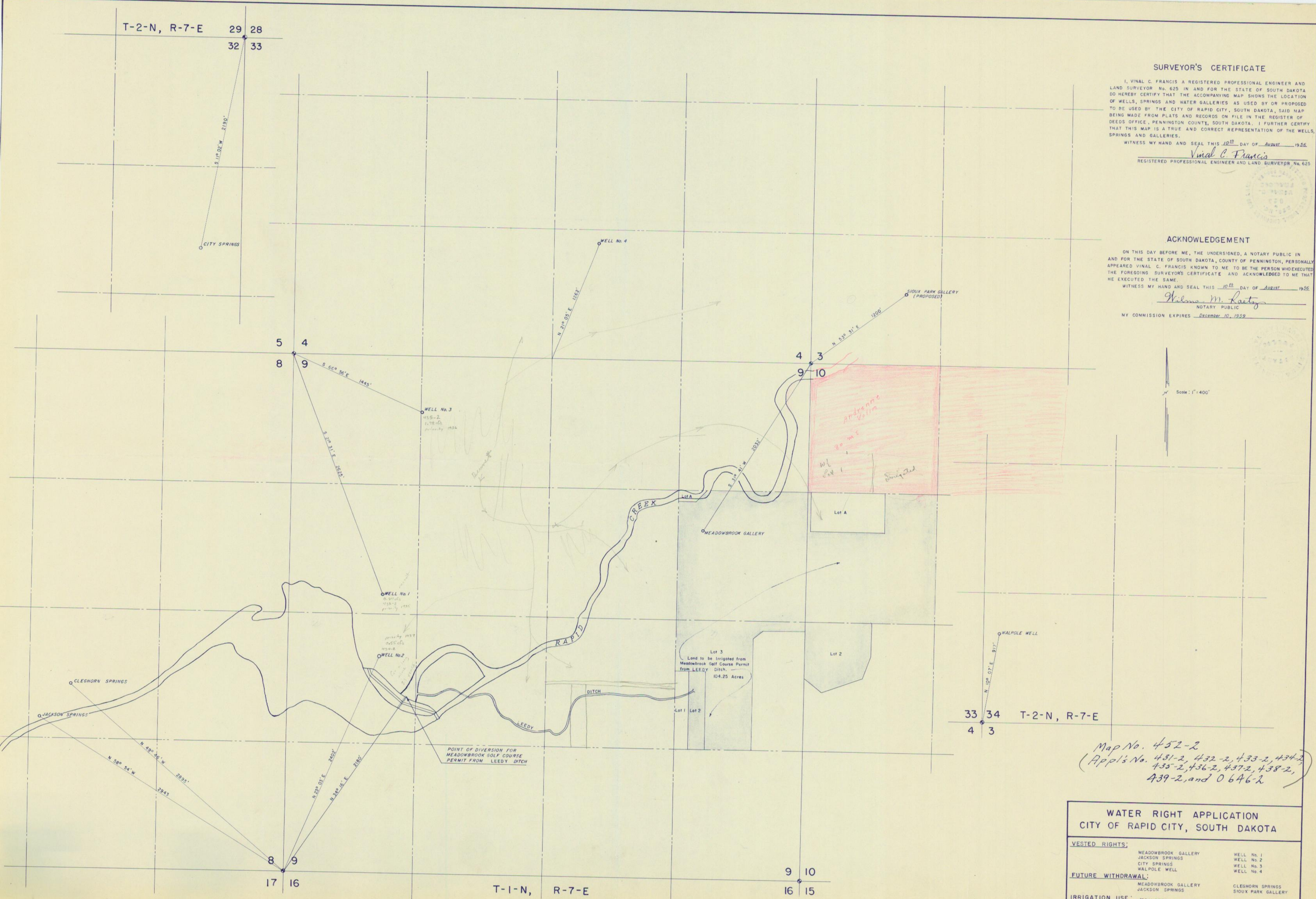
WITNESS MY HAND AND SEAL THIS 10th DAY OF August 1956.
Vinal C. Francis
REGISTERED PROFESSIONAL ENGINEER AND LAND SURVEYOR No. 625

ACKNOWLEDGEMENT

ON THIS DAY BEFORE ME, THE UNDERSIGNED, A NOTARY PUBLIC IN AND FOR THE STATE OF SOUTH DAKOTA, COUNTY OF PENNINGTON, PERSONALLY APPEARED VINAL C. FRANCIS KNOWN TO ME TO BE THE PERSON WHO EXECUTED THE FOREGOING SURVEYOR'S CERTIFICATE AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME.

WITNESS MY HAND AND SEAL THIS 10th DAY OF August 1956.
Helma M. Rietz
NOTARY PUBLIC
MY COMMISSION EXPIRES December 10, 1959

Scale: 1" = 400'



Map No. 452-2
(Appl's No. 431-2, 432-2, 433-2, 434-2,
435-2, 436-2, 437-2, 438-2,
439-2, and 0646-2)

WATER RIGHT APPLICATION
CITY OF RAPID CITY, SOUTH DAKOTA

VESTED RIGHTS:	
MEADOWBROOK GALLERY	WELL No. 1
JACKSON SPRINGS	WELL No. 2
CITY SPRINGS	WELL No. 3
WALPOLE WELL	WELL No. 4
FUTURE WITHDRAWAL:	
MEADOWBROOK GALLERY	CLEGHORN SPRINGS
JACKSON SPRINGS	SIoux PARK GALLERY
IRRIGATION USE: (TRANSFER OF EXISTING WATER RIGHT)	
MEADOWBROOK GOLF COURSE PERMIT FROM LEEDY DITCH.	

Remarks by State Water Resources Commission:

"Vested Right" claimed

STATE OF SOUTH DAKOTA

County of B Hughes

ss.

Pierre, South Dakota,

September 29, 1956

This is to certify that the foregoing application was received by the Commission at 8:30 o'clock

1 m. upon the 22 day of September, 1956

State Water Resources Commission

By:

J. H. Rimes

Chief Engineer, Executive Officer

Number of permit 435-2

Date of first receipt of application September 22, 1956

Date of return to applicant for correction, amendments or changes required as follows: September 29, 1956

Date of receipt of corrected application December 14, 1956

Date from which applicant may claim right 1936

Approved December 14, 1956, Recorded in: Book 3, Section 2 Page 39

This is to certify that we have examined the foregoing application for a permit to appropriate water of the State of South Dakota, and we hereby grant the same as stated herein, subject, however, to the following limitations and conditions:

1st. The equivalent of at least one-fifth of the work above specified is to be completed on or before

Completed, 19

2nd. The whole of said work is to be completed on or before Completed, 19

3rd. The limit of time for proof of beneficial use of water appropriated in accordance herewith is

Completed, 19

4th. The water appropriated shall be used for the purpose of municipal use

5th. 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.

6th. The amount of the appropriation herein granted shall not exceed 1.78 cubic feet per second; neither shall it exceed the capacity of the above described system of diversion works, nor the least amount of water that experience may hereafter indicate as necessary for the production of crops in the exercise of the best husbandry; and further, said appropriation must 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 1956 said water to be used during the following described annual period:

Continuously

Witness my hand this 14 day of January, 1957

State Water Resources Commission

By:

J. H. Rimes

Chief Engineer, Executive Officer

Certificate of Construction Issued January 14, 1957

Water License Issued January 14, 1957

STATE OF SOUTH DAKOTA

WATER LICENSE No. 435-2....

WHEREAS, On the 22nd day of September A. D. 1956

The City of Rapid City

of Rapid City County of Pennington and State of
South Dakota duly made application (No. 435-2) to us for Vested Right permit to use 1.78
cubic feet per second of the waters of ground water
County of Pennington, State of South Dakota, for municipal
purposes; and

WHEREAS, On the 11th day of January A. D. 1957
Vested Right Permit No. 435-2 was issued to said applicant... for the diversion of said water, and recognizing
completion of the works of diversion therein described as of December 11, 1936 ~~XXXXXX~~
in 1936 ~~XXXXXX~~ and for the application to beneficial use of said
water ~~as of December 11, 1936~~ as of in 1936 ~~XXXXXX~~
and,

WHEREAS, On the 11th day of December A. D. 1956
the holder... of said permit duly made proof of the completion of adequate works for the diversion of 1.78
cubic feet per second of said waters, as evidenced by our Certificate No. 435-2
dated January 11, 1957 confirming the completion of works of sufficient capacity for
diverting and conveying to the place of intended use 1.78 cubic feet per second of water, with date of
priority of 1936 ~~XXXXXX~~ And,

WHEREAS, On the 11th day of December A. D. 1956
proof was duly made of the application to beneficial use of 1.78 cubic feet per second of said water;
in the distribution system of the City of Rapid City

NOW, THEREFORE, By the virtue of the authority vested in us by the laws of the State of South Dakota,
 We hereby grant and confirm to ~~-----The City of Rapid City-----~~
 of ~~Rapid City, South Dakota~~ the holder and owner of ^{vested right} ~~of said permit No. 435-2~~
 a water right, dating from ~~1936~~ to the use of ~~1.73~~
 cubic feet per second of the waters of ~~-----ground water-----~~
 in the County of ~~Pennington~~ and State of South Dakota, or so much thereof as may be
 necessary for the purposes hereinbelow mentioned, to be diverted at ~~1445 feet, S86° 56'E of~~
~~the NW Cor., Sec. 9, T 1 N, R 7 E~~
 and conducted to and upon ~~The residents of the City of Rapid City~~

 for the purpose of ~~municipal use~~

subject, however, to the laws of the State of South Dakota applicable to a license for the use of the waters of the State, and subject, also to the local or community customs, rules and regulations which have been or may be adopted from time to time by a majority of the users from a common source of supply, canal or lateral from which such water may be taken, when such rules and regulations have for their object the economical use of such water.

WITNESS, My hand and seal of our office at Pierre, South Dakota,
 this 11th day of JANUARY A. D. Nineteen
 Hundred and fifty-seven.

State Water Resources Commission

By:

J. W. Grimes, Chief Engineer, Executive Officer

STATE OF SOUTH DAKOTA

Water License No. -----

To -----

Source of Supply -----

County -----

Am't ----- c. f. s.

Point or Diversion -----

Place of Use -----

Purpose -----

Date of Priority -----

Recorded -----

in Book ----- of ----- Page -----

Permit No. 1,35-2.

Water Division No. 2 Rapid Creek Water District

Certificate of Completion of Works

TO ALL WHOM IT MAY CONCERN:

This is to Certify, That The City of Rapid City
of Rapid City, County of Pennington, and State of South Dakota,
the holder of Permit No. 435-2, issued upon Application
No. 435-2, bearing date of priority of 1936, authorizing the diversion of
1.78 cu. ft. per second of the waters of ground water
County of Pennington, State of South Dakota, at 1114 feet, 566° 56' E
at the NW Cor., Sec 9, T 1 N, R 7 E
for municipal
purposes, has 8 fully complied with the provisions of the laws of the State of South Dakota relating to proof of
completion of the works of diversion set out and described in said Vested right Permit; that said works are found in satisfactory
condition for diverting and conveying to the place of intended use 1.78 cu. ft.
per second of water, ~~and that the lands proposed to be irrigated by the use of said water are described as follows:~~
to-wit: to furnish municipal water for the distribution system of
the City of Rapid City

Witness my hand this 11th day of January A. D. 1957.

State Water Resources Commission

By:

J. W. Grimes, Chief Engineer, Executive Officer

VESTED RIGHTS - RAPID CITY

433-2	.84 c.f.s.	Well No. 1
434-2	.55	Well No. 2
435-2	1.76	Well No. 3
436-2	1.55	Well No. 4
438-2	.22	Walpole Well

By agreement between Rapid City and downstream irrigation water right holders, as reflected in the Deerfield and Pactola Reservoirs' contracts with the United States, water sources for Permits 433-2, 434-2, 435-2, 436-2, and 438-2 are not tributary to the surface water flows of Rapid Creek under natural conditions. Consequently, water use by Rapid City under these permits is not subject to replacement in Rapid City from the City's stored water in Deerfield and Pactola Reservoirs. (See Permits 431-2, 432-2, or 437-2 and Future Use Permit No. 439-2.)

Form 2A — Wells (Supplement to Form 2)

9. (Continued)

III. Well Specifications

(a) Hole and casing

Size of drill hole or excavation _____, Depth 957 feet

Type of casing steel (wood, concrete, steel, etc.)

Size of casing 10" & 8" Thickness of casing _____

Length of casing 447'-10" 510'-8" If collection gallery, length, size and depth of gallery _____

(b) Screens

Type of perforated screen perforated casing

Size of perforated screen 10" & 8" Approx. 80' - 10" (diameter) Approx. 200' - 8" (length)

Thickness of gravel pack _____, length of gravel pack _____

(c) Water Bearing Materials

Distance to water 25' Character of water bearing materials Minnelusa Sandstone

Thickness of water bearing material 500' to 600'

(d) Pump and Motor

Type of pump Turbine (centrifugal, propeller, mixed flow, etc.)

Name of pump Pamona size 6 5/8" x 8"

Kind of motor Electric (gasoline, electric, diesel, etc.)

Horsepower 75 Name of Motor G.E.

(e) Complete well

Capacity 350 GPM at drawdown of 150 feet. Pump setting Estimated cost \$13,000.00

(f) Owner of land upon which well is located City of Rapid City Name

Rapid City, South Dakota Address

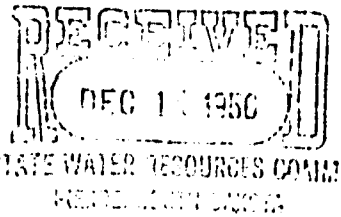
(g) Distance to nearest existing wells

On same owner's property _____ rods. On property owned by others _____ rods

Location No. 4372

Water Division No. _____

Water District _____



Proof of Application of Water to Beneficial Use

PETITION OF HOLDER

Ques. 1. State your name, residence, occupation and postoffice address.

Ans. H. S. Thorgrimsen, City Manager

Rapid City, South Dakota

Ques. 2. If acting in behalf of a corporation, state its name, principal place of business (if a foreign corporation, give name and postoffice of statutory agent,) your position with reference to same, and your authority for appearing in its behalf.

Ans. City of Rapid City, South Dakota

Ques. 3. State date of posting and date of recording notice of appropriation.

Ans. _____

Ques. 4. State source of water supply and give exact location of point of diversion.

Ans. Well #3-1445 feet South 66° 56' East of N. W. Corner of Section 9,

Township 1 N., Range 7 East, BDM

Ques. 5. Describe your works of diversion giving length and height of each dam and state amount of water they are capable of conveying from point of diversion to place of use, and give name of canal or ditch or other works by which water is conducted to such place of use, and date of completion of same.

Ans. Water is pumped from well into city distribution system,

Ques. 6. State for what purpose water is used and describe place of use. (If for irrigation, name each subdivision in which used, and number of acres in each subdivision that have ACTUALLY been irrigated with said water.)

Ans. Public water supply

Ques. 7. If for other than irrigation purpose, state how applied, amount of horse power generated, etc.

Ans. _____

Ques. 8. What is the minimum amount of water required for the use specified above?

Ans. 1.78 CFS

Ques. 9. If you are not the person or representative of the corporation to whom above mentioned permit was originally issued, please state how ownership was acquired by present holder.

Ans. _____

Ques. 12. State when, how, in what amount and to what extent, the water diverted under above mentioned permit has been used.

Ans. Water has been pumped from this well at the rate of 1.70 CFS since 1936.

(Sign)

H. H. Horgensen

I hereby certify that the foregoing testimony was read to the above subscriber before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me, at my office in Rapid City, County of Pennington, State of South Dakota, on this 12th day of December, A. D. 1936.

Witnesses.

William W. Kautz

I, the undersigned, do hereby certify that I am a duly qualified elector residing in the immediate vicinity of the diversion works designated in the foregoing testimony, that I have no interest in the works, water or land above described, that I have read the foregoing testimony and that I know of my own personal knowledge that the matters therein stated are true.

Location No. -----

**PROOF OF APPLICATION OF
WATER TO BENEFICIAL USE**

PETITION OF HOLDER

Amount of Water ----- c. f. s.

Source -----

County -----

Purpose -----

Place of Use -----

Date of recording -----

Received and filed -----

Rapid City, S. Dak
30 September 1958

Mr. L. Stelling
City Water Superintendent
Rapid City, S. Dakota

Dear Mr. Stelling:

Pursuant to our discussion today I am including a summary (of a form letter used to order water from the Bureau) of the releases that the District has requested the City to make during the 1958 season.

Note that the total days that the City is obligated (for sure) to the District for replacement would be 162 days. The days for which releases were actually made totaled 111 days.

The total acre-foot for which the city is obligated to replace I don't know but should include water which went into pumps at

1. Jackson Springs
2. Meadow Brook
3. Sprinkler system out of Rapid Creek for Sioux Park
4. Sprinkler system out of Lagoon fed by Iowa ditch for Roosevelt Park
5. Water to Arrowhead out of Leedy ditch

The total water replaced from the City to the District was 3140 acre-feet.

After August all orders from City replacement were figured from Pactola (instead of Deerfield) assuming roughly a 10% loss from Pactola to City: i.e. if City was pumping 10 cfs the release from Pactola would be

10 plus 0.10×10 or 11 cfs

For the record I think it should be pointed out to the Mayor and the water committee that the irrigators have been concerned about conserving water (their own and the City's) as I have tried to illustrate above and which can be more vividly illustrated by a study of prior weather year's records. There are several slows in the valley that could be eliminated if not eliminated by more careful irrigation practices but not all of these could be completely eliminated anymore than individual users in the city can always eliminate runoff from their lawns into the streets. The difference is in quantities - if an irrigator working with a 1 cfs should let this amount of water get away for 10 minutes this would be the equivalent of about 1000 gallons. State Engineer Ormes has criticized the District for being too conservative at times with the City releases. (This will then be to the detriment of the lower valley as Bob Long will testify)

I only mention these things briefly here because as watermaster one of my jobs should be, I believe, to keep both sides informed. I see both sides of the problem and from what I see & know the irrigators are appreciative and respectful of the City's cooperation. I also know that very few people understand or appreciate the significance of the irrigator's VESTED RIGHT.

If I can be of any help with the problem I would be happy to do so.

RAPID VALLEY
Water Conservancy District
Rapid City
South Dakota

Date: *

Bureau of Reclamation
Box 100
Keystone Court
Rapid City, South Dakota

Attention:

Gentlemen:

This letter is to confirm the request which has been made for the release of water as indicated below.

No.	Charged to	Amount A.F.	Rate of Release		Date of Release**		Released from
			cfs	days	ON	OFF	
C-1	City	136	8.5	8	15 May	23 May	Deerfield
C-2	City	580	10	29	23 May	21 June	Deerfield
C-3	City	640	16	20	30 June	20 July	Deerfield
C-4	City	330	15	11	7 Aug	18 Aug	Pactola
C-5	City	1462	17	43	18 Aug	31 Sept	Pactola

Total 3148 111

*This is the date of the time the request was submitted by means of telephone conversation.

**The hour of release (on and off) is understood by the District to be 12:00 O'clock noon unless otherwise arranged for, stated herein.

Very truly,

Watermaster

Water Rights Division - DWR
Conversation or File Documentation

File No. VR 435-2

NAME OF PERSON OR FILE: CITY of RAPID CITY

ADDRESS: 300 6TH ST RAPID CITY, SD COUNTY PENNINGTON

DATE: 7/14/1992 TELEPHONE _____

RE: INSPECTION of VR 435-2

COMMENTS:

I INSPECTED THE CITY OF RAPID CITY'S WELL #3 AUTHORIZED
BY WATER RIGHT CLAIM NO. 435-2. I FOUND THE WELL
LOCATION & CAPACITY IS THE SAME AS CLAIMED

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.

4/82

NAME: Paul Keith

435-2

SOUTH DAKOTA

VESTED WATER RIGHT NO. 435-2

Date of Receipt of Claim September 22, 1956.

Date of Validation September 30, 1992.

The Water Management Board validated Vested Water Right Claim No. 435-2 for the City of Rapid City, 300 6th Street, Rapid City, South Dakota 57701 with the following limitations, conditions and qualifications:

1. Vested Water Right No. 435-2 appropriates 1.78 cubic feet per second of water from one well located in the NE1/4 NW1/4 Section 9, T1N, R7E.
2. The appropriated water is used for supplying water for the City of Rapid City 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, 1936
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 may not be unlawfully impaired by this appropriation.

WATER MANAGEMENT BOARD

By: *John H. H. H.*

Chief Engineer

MAR 16 1993

date

Division of Water Rights
Dept. of Environment and Natural Resources



MAR 16 1993

435-2
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

Dan Bjerke, Public Works Director
City of Rapid City
300 6th St
Rapid City SD 57701

Dear Mr. Bjerke:

The Water Management Board has validated the enclosed Vested Water Right Nos. 431-2, 432-2, 433-2, 435-2, 436-2 and 437-2. These validations give legal status to the claim and are the final document for the vested rights.

As long as the water is used beneficially, as stated in the validations, State Water Laws provide a continuing right to use the water.

Very truly yours,

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

enclosures

Vested Water Right Claim No. 435-2
Upper Cheyenne 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 Rapid City of 300 6th St, Rapid City, SD holder of Permit No. 435-2, bearing the priority of January 1, 1936 authorizing the diversion of 1.78 cu. ft. per second of the waters of ground water for municipal use purposes, in Pennington County.

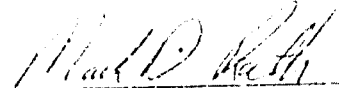
I have to report on the conditions of the same as follows:

- A. Works used to divert the water:
A Layne Bowler pump with a 800 gpm capacity.
- B. Works used to transport water to place of use:
Municipal

The system is in the following condition good. The point of diversion is located NE1/4 NW1/4 of Section 9 T1N-R7E. The works are capable of diverting and conveying to the place of use 1.78 cu. ft. per second of water which is to be used for municipal use. The license should be issued for 1.78 cfs.

Applicable permit qualifications have been complied with: Yes ☒ No

Exceptions to compliance are: none Date: 7/14/1992


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

435-2

REPORT ON INSPECTION OF VESTED WATER RIGHT CLAIM NO. 435-2

DATE: 7/14/1992

DIVERSION POINT LEGAL LOCATION: NE1/4NW1/4Section 9 T1N-R7E

WELL INFORMATION:

- 1) Well Drilling Firm: Norbeck Company
- 2) No. of Wells 2
- 3) Depth(s) 957 feet
- 4) Well log is available Y
- 5) Comment: Drilled in September and
October of 1936

Casing:

- 1) Diameter 8 inches
- 2) Length 957 feet
- 3) Type steel

Screen:

- 1) Type steel casing was perforated
- 2) Length ? feet
- 3) Static water level ? feet

Pump:

- 1) Make Layne Bowler
- 2) Model ?
- 3) Size ?
- 4) Capacity 800 GPM

Motor:

- 1) Make US Electrical
- 2) Model No. 324TP WPI
- 3) Horsepower rating 40 hp

DISTRIBUTION LINES OR CANALS:

- 1) Type Municipal water distribution system

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 Question: aires checked to determine if permit owner started irrigation by the end of construction period NA

435-2

City of Rapid City

Geological Atlas #3.

Drilled September-October 1936 by Norbeck Company

1 N. 1/2 Sec. 3, T. 1 N., R. 7 E.

Pennington County, South Dakota

Elevation 3376 (pump platform) T.D. 957 feet.

Section examined Dec. 1936 by J. P. Gries

Surface 33' unshaped granular redbeds

- 0 - 20 clay, red, silty, with some dark gravel
- 100 clay, same, some in gyp
- 167 clay, same, some very calcareous

Flint Hills formation

- 107 - 110 limestone fine- to medium crystalline, light yellow-brown to gray-brown
- 120 limestone, finely crystalline, light yellow to faintly pink
- 130 limestone, finely crystalline, light yellow to cream
- 140 limestone, finely crystalline, light brown to light gray
- 150 limestone fine- to medium-crystalline, light gray to faintly pink
- 160 limestone, same and some silty, lavender

Beach formation

- 160 - 170 limestone, calcareous; red-orange to 163, lavender to 170
- 170 shale, silty, lavender
- 180 redbeds (clay, silty top endy, red-orange-brown, micaceous)
- 190 redbeds, 10% gyp o/nhydrite
- 210 redbeds, 10% gyp, mostly satinspar
- 230 redbeds
- 240 no sample
- 250 - 260 redbeds
- 270 redbeds, trace coarse embedded sand grains
- 280 redbeds, more F&G
- 290 redbeds, few large F&G

Mineralusa formation

- 290 - 300 sand, fine to medium sub-round and coarse F&G, orange
- 310 probably same, sample mostly redbeds
- 320 sand, fine to medium, nearly white, some pale yellow to pale orange
- 330 sand, same; enough orange grains to give a cast to the sample
- 340 sand, white, fine to medium, trace calcareous cement; few grains orange
- 350 dolomite, very finely granular, nearly white to very light light brown to gray and faintly pink
- 360 dolomite, finely crystalline, hard, varoon to pink to brown and gray; pinpoint porosity in pink.

435-2

list of well 211-73 p. 1

- 400 - 470 dolomite, finely granular, nearly white to cream and pink; some finely crystalline limestone, white; traces sandstone as below
- 470 sandstone, medium, poorly sorted, orange, with calcareous cement; streaks orange limestone
- 480 sandstone, fine to medium, subangular with large round FFG, orange, calcareous
- 490 sandstone, same, tight, 1/3; dolomite, finely crystalline granular, nearly white to light brown and pink
- 500 limestone, finely crystalline, white to light yellow, some is sandy
- 510 sand, fine to medium, subangular to subround, with few large FFG, white, incoherent
- 520 sand, same, but cemented with white lime cement
- 530 sand, fine to medium, white, incoherent
- 540 sand, like 530
- 550 sandstone, fine to medium, white to pale pink, very calcareous, grading almost to a coarse sandy limestone
- 560 sand, fine to medium, subangular, white to pink, calcareous; traces gray silty clay
- 570 sand, fine to medium, fine is angular, medium are rounded. Frosted, incoherent, white
- 580 sand, medium to coarse, subrounded, frosted
- 590 same, somewhat more cemented with white calc cement
- 600 same, but very calcareous, tight
- 610 sand, fine to medium with a few coarse FFG, more or less cemented, white
- 620 sandstone, fine to medium, white to faintly orange, fairly well cemented
- 630 sand, fine to medium, subrounded, orange to pink and red-brown
- 640 sand, same, 20% dolomite, finely granular, gray to red-brown
- 650 dolomite, finely granular to earthy, light gray and light brown to pink
- 660 dolomite, finely granular to earthy, light gray-brown to pink
- 670 dolomite, same, and back into sand, fine to coarse; white and orange, incoherent
- 680 dolomite as above, 1/3; sand, fine to coarse, orange, 2/3.
- 690 dolomite, as above, 10%; sand, white, 30%; sand, fine to coarse, bright orange, cemented, 60%
- 700 clay, silty, gray to red-brown
- 710 clay, red to maroon, silty, with streaks xyp and anhydrite, has greasy lustre
- 720 - 740 dolomite, finely crystalline, hard, pink to red-brown, some sandy; some sand, fine to coarse, orange, yellow and white
- 750 dolomite, finely crystalline to earthy, trace sandy; light cream to pink, 40%; sandstone, fine to medium, bright orange, 60%
- 760 dolomite, calcareous as above, 60%; sandstone as above, 40%
- 770 sand, fine to coarse, white, yellow and orange, slightly calcareous

July 1990

691 sand, same, 1/2; dolomite, same, 1/2

700 dolomite, sandy, 20%; dolomite, sandy, 10%; sand, 70%;

Color: white, the lower portion, sub round to round, with to pale orange.

720 - 720 no people

100 dolomite, finely crystalline to dense, gray to faintly pink, lustrous.

lustrous, finely crystalline, nearly white, 30%; sand, blue to yellow, white to orange, 70%.

to coarse, calcareous

770 dolo. lit., very finely crystalline, calcareous, light
gray to faintly lavender

dolomite, very calcareous, very finely crystalline,
white, 60%; sandstone, fine, white, calcareous.

790 Dolomite, very finely crystalline white to finely granular; gray to faintly lavender, 80%; sand from above, 20%.

110 Sandstone, fine to some medium, white, very calcareous,
fairly beds white limestone

crystalline, dead white to glassy,
light brown

30 dolomite, approx. 70%; fine free sand, 30%.

30 dolomite, 3 cent and trace dolomite, nearly, lavender

subangular, snow white, dolomitic

70 sandstone, fine and medium, with few coarse FqG, pale orange to white

soil, medium to very coarse; one streak cemented with
white; pits to pale yellow and pale orange; sole

... include crystalline dolomite, white to pink

... sand, silt, dolomite and variegated shale

Public Opinion Formation

90 - 995 sand, white, and finely crystalline white limestone
limestone, very finely crystalline, white

990 Limestone, very fine- to coarsely crystalline, white, some pale yellow to pale pink;

923 1: argill, same; some variegated shale in fractures

limestone, and yellow residual dolomitic clay

limestone, dolomite, bryoz chert; some sand probably washed in from older strata on surface

250 limestone, same, with variegated clay; veinlets of Fe_3O_4 in limestone

957 limestone, fine to medium crystalline, dense to porous

057 total death

Perf:	309-346	671-692
	381-385	711-723
	405-445	746-750
	450-541	791-856

72' run
902 ft deep
down down 150 ft.

435-2

21

3

PUMP
Make - Foxboro
Capacity - 800 Gals.
Producing - 640 Gals.
Free Flow - 200 Gals.
Size: Suction - 7"
Discharge - 6"
Motor - Westinghouse
70 HP 2300 Volts.

64' Max Drawdown

Pump Setting 90'

Water Rises
to here

5" Eley 3376.0

PUMP
Make - Foxboro
Capacity - 800 Gals.
Producing 670 Gals. (no free flow)
Size: Suction - 6"
Discharge - 5"
Motor - General Electric
75 HP 2300 Volts.

Pump Setting 150'
200'

10" Casing

MINNESOTA SPEARFISH FORMATION
MINNESOTA ANNESTON FORMATION
OPECHE FORMATION

302
374
381
425

Lead Seal

Perforations
3 to the Lift
3/8" wide 4" long.

Well #3

Date Drilled - 1936
Total Depth - 957'
Contractor Nurbach
Cost - Drilling Only
Pumps
Well House

9" Casing

MINNELUSA SANDSTONE

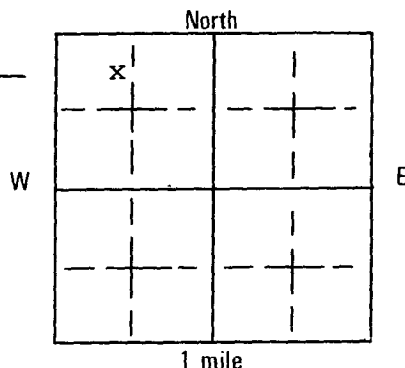
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957

SOUTH DAKOTA WELL AND TEST HOLE PLUGGING REPORT

10-85

Location NW 1/4 NW 1/4 Sec 9 Twp 1N Rg 7E

County

PenningtonPlease mark well
location with
an "X"Rapid City Well No. 3
Water Permit No.
435-2

Well Owner:

Name City of Rapid CityAddress 300 6th StreetRapid City, SD 57701

Attn: Dale Tech

Plugging completion Date 12-14-2011

CHECK APPROPRIATE BOX

EXISTING WELL ☒TEST HOLE ☐Well depth 920ftCasing material SteelCasing size(s) 10" & 8"Casing condition OK Flowing Wellno sign of it leaking

Hole depth _____

Hole size _____

Describe plugging procedure: Dec.13, 2011, 300 sacks of Neat cement grout was pumped
through a 2" Trimmy pipe from 905 ft. Trimmy pipe was removed; well was
shut in over night. Dec.14, 2011 cement top was measured at 395 ft. 155 sacks
of Neat cement grout was pumped through a 2" Trimmy pipe from 390 ft to
1 ft below floor level.

Describe grout or plugging material: _____

Plugging material used: Neat Cement Grout

Approx. 14 lbs. per gallon

RECEIVED

DEC 22 2011

WATER RIGHTS
PROGRAM

Type of non-slip plug: _____

This well or test hole was plugged under license # 331 And this report is true and accurate.Drilling firm Taylor Drilling Co.Signature of Licensed Representative K T L

Signature of Well Owner _____

Date 12-19-2011

11/19/2011