

1. Considered August 14, 1957 Appl. No. 45-4-2
2. Name of Applicant Black Hills Power and Light Co.
3. Post Office Address Rapid City, South Dakota
4. Amount of water claimed 2.00 cfs
5. Source of water supply ground water
6. Water to be used for Industrial purposes
Acres to be irrigated _____
7. Water to be diverted and used in Pennington County about
_____ miles _____ of on the north west edge of
8. Proof of Publication Received ☒ Rapid City
Not Received _____
9. Application Approved _____
Subject to _____
Not approved _____
Action deferred _____
10. Remarks:

No. 454-2Water Division No. 2Rapid Creek District

(Blank to be filled by the Engineer for the W. R. C.)

RECEIVED
JUN 11 1935
2:15 PMSTATE WATER RESOURCES CO.
PIERRE, SOUTH DAKOTA

APPLICATION FOR PERMIT

To Appropriate Water within the State of South Dakota

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

1. Name of applicant Black Hills Power and Light Company
 Postoffice address Rapid City, County Pennington, State South Dakota

I. If a corporation Yes

- (a) Name of same Black Hills Power and Light Company
 (b) Date and place of incorporation 1941 - South Dakota
 (c) Amount of capital stock \$3,311,367 par value outstanding
 (d) Amount paid in \$8,413,573
 (e) Names and addresses of directors Guy W. Bjorge, San Francisco, California; Jarvis D. Davenport, Sturgis, South Dakota; Louis R. Myers, Little Rock, Arkansas; and J. B. French, Paul R. Guarnberg, C. G. Skertvedt and Neil C. Sinsion, all of Rapid City, S. Dakota

(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)

Contract

- (b) Cash on hand, \$ 721,466 (c) Treasury stock, \$ None
 (d) Bonds to be issued, \$ 500,000 (e) Other resources, \$ 191,364

2. Name of diversion work #1 Water Well
 3. Amount of water claimed 2 cubic feet per second

4. Source of water supply
- Pahasapa Limestone

5. Location of point of diversion
- Well located on accompanying map.

_____ on _____ bank _____ County.

6. Annual period or periods during which water is to be used
- Continuous

7. To be used for:

- I. Irrigation or domestic use: Gravity, overhead sprinkling or combination system _____

- (a) Number of acres to be irrigated _____ acres.

- (b) Legal subdivisions to be irrigated
- Section 1, Township 24N, Range 7E

(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.) _____

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

To be used to replace water consumed in conjunction with a

- (a) Nature of use
- steam-electric generating plant to be located on the same property.

Name any of the above uses claimed

- (b) Amount of power to be generated _____ horse power.

Amount claimed for engine cooling 2 - cfs

- (c) Location of plant
- On adjacent area on the same property.

- (d) Method of developing power
- Steam Turbine

- (e) Point where water will be returned to stream _____

(There are no _____)

Map No. 465-2

8. Estimated cost of work:

(a) Head Gates, \$-----

(b) Pumping plant, \$-----

(c) Fluming, \$-----

(d) Canal-earth, \$-----

Rock, \$-----

(e) Other structures ----- \$-----

Total, \$-----

9. Description of diversion works:

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

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 where reductions in size are made.)

10. Time required for completion of work ----- 5 ----- years.

11. Time required for complete application of water to the proposed beneficial use ----- 5 ----- 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.

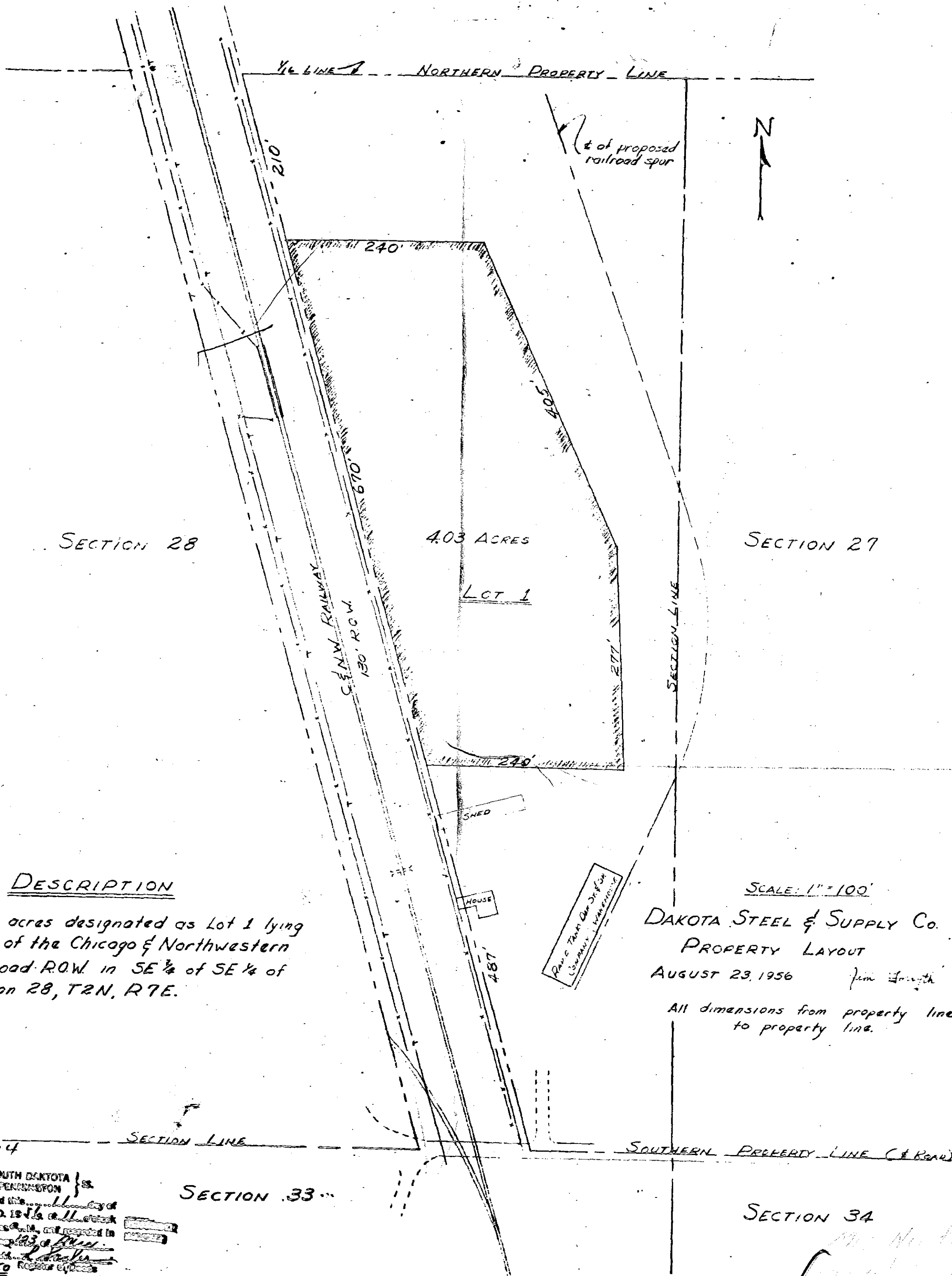
Neil G. Simpson

I, -----, 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. BLACK HILLS POWER AND LIGHT COMPANY

Signed -----

Subscribed and sworn to before me this ----- 4th ----- day of ----- June ----- 19 ----- 57

Notary Public (or other qualified officer.) -----



64 127

BOOK 64 PAGE 128

DESCRIPTION

4.03 acres designated as Lot 1 lying east of the Chicago & Northwestern Railroad R.O.W. in SE $\frac{1}{4}$ of SE $\frac{1}{4}$ of Section 28, T2N, R7E.

SCALE: 1" = 100'

DAKOTA STEEL & SUPPLY Co.

PROPERTY LAYOUT

AUGUST 23, 1956

Jim Smith

All dimensions from property line to property line.

#12534

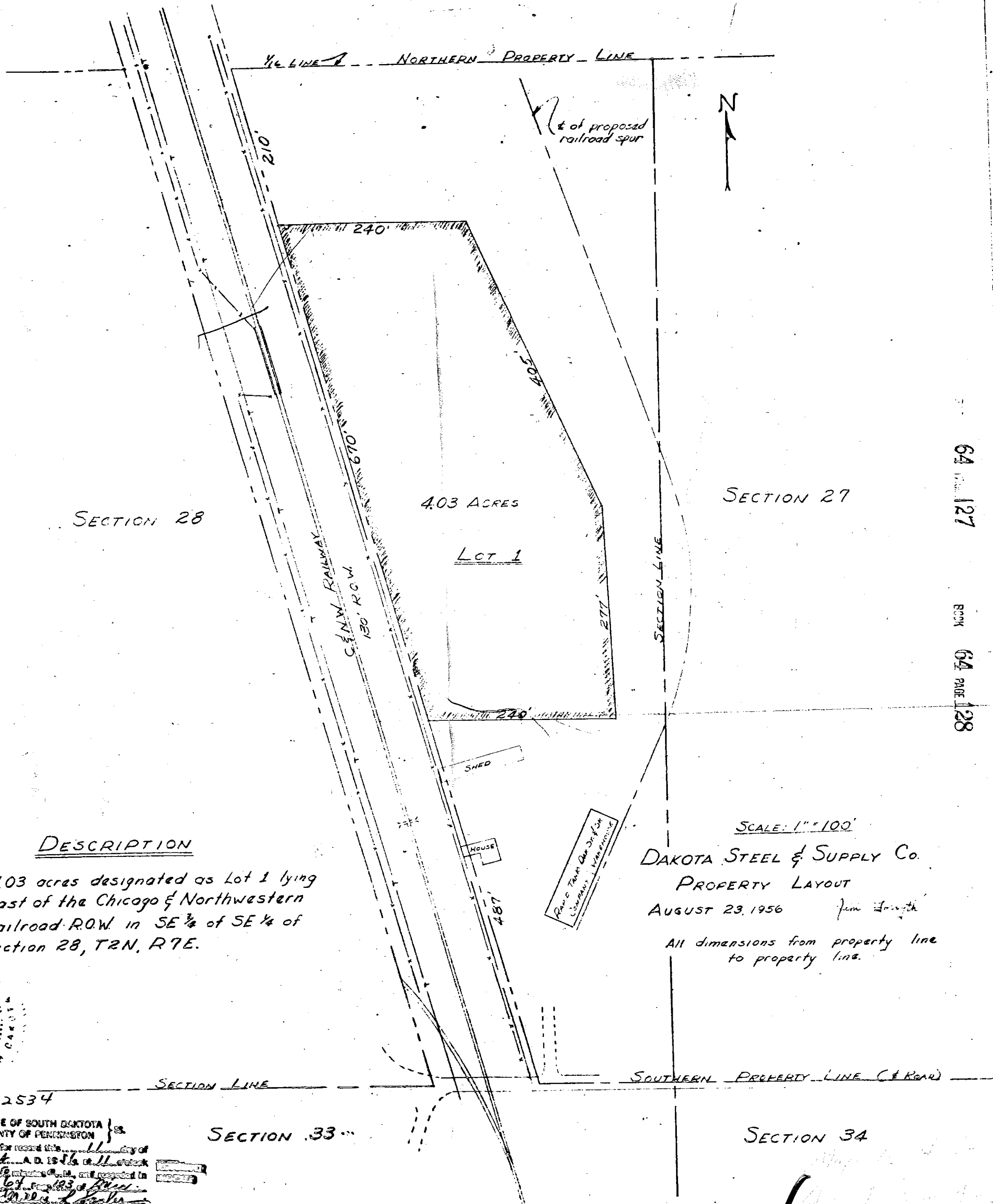
SECTION LINE

SECTION 33

SOUTHERN PROPERTY LINE (E. ROAD)

SECTION 34

STATE OF SOUTH DAKOTA }
COUNTY OF PENNINGTON }
Filed for record this 11th day of
August A.D. 1956 at 11 o'clock
and 48 minutes A.M. and recorded in
Book 64, Page 128 of the
Register of Deeds
J. E. Smith, Deputy



64 127

64 128

DESCRIPTION

4.03 acres designated as Lot 1 lying east of the Chicago & Northwestern Railroad R.O.W. in SE 1/4 of SE 1/4 of Section 28, T2N, R7E.

SCALE: 1" = 100'

DAKOTA STEEL & SUPPLY Co.
PROPERTY LAYOUT

AUGUST 23, 1956 J. M. Smith

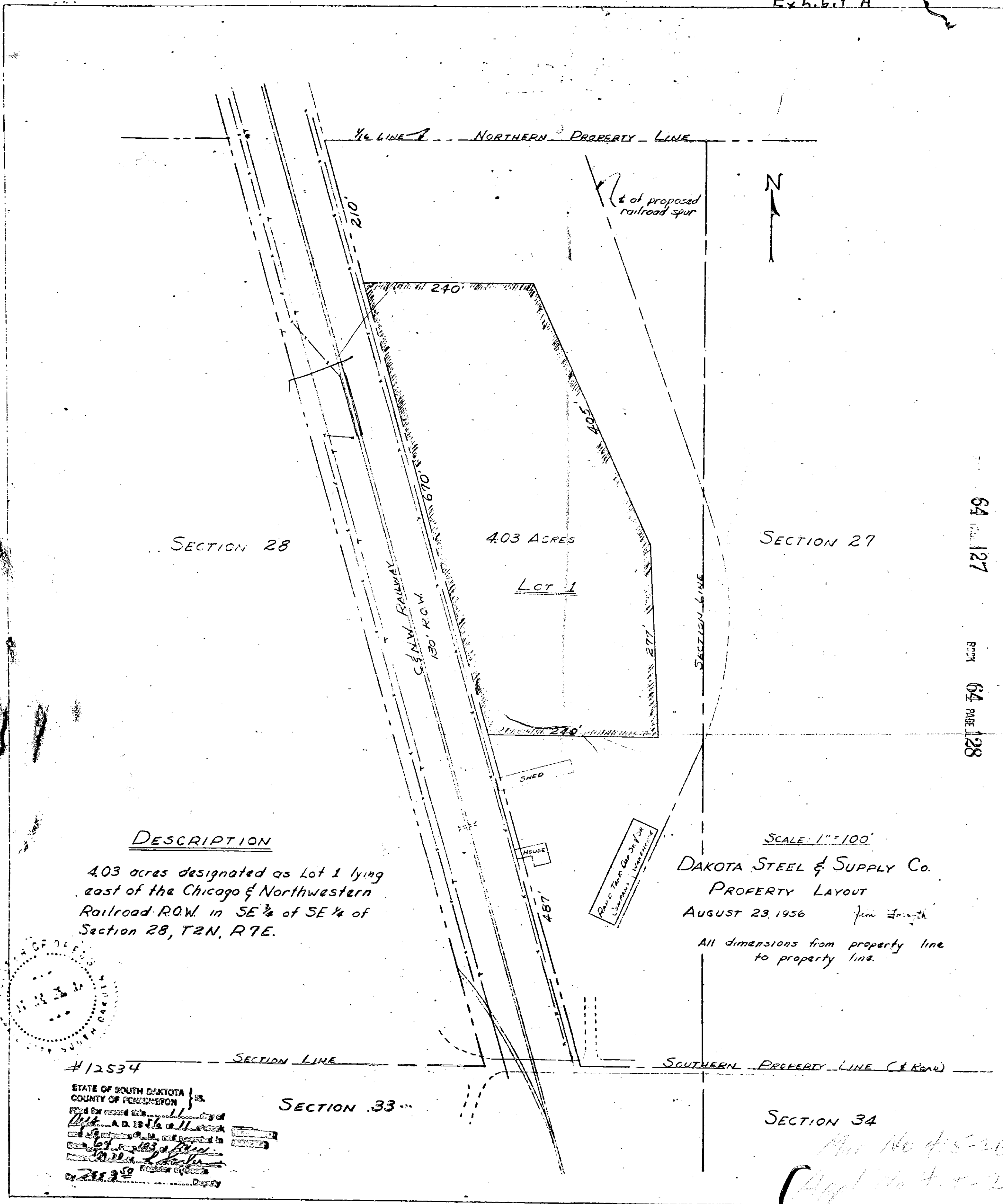
All dimensions from property line to property line.

#12534

STATE OF SOUTH DAKOTA }
COUNTY OF PENNINGTON }
Filed for record this 11th day of
Oct. A.D. 1956 at 11 o'clock
and 20 minutes A.M. and recorded in
Book 67, Page 123 of Public
Records of Pennington County
by 223350 Register of Deeds
Deputy

SECTION 33

SECTION 34



64 127

64 128

DESCRIPTION

4.03 acres designated as Lot 1 lying east of the Chicago & Northwestern Railroad R.O.W. in SE 1/4 of SE 1/4 of Section 28, T2N, R7E.

SCALE: 1" = 100'

DAKOTA STEEL & SUPPLY Co.
PROPERTY LAYOUT

AUGUST 23, 1956 Jim Smith

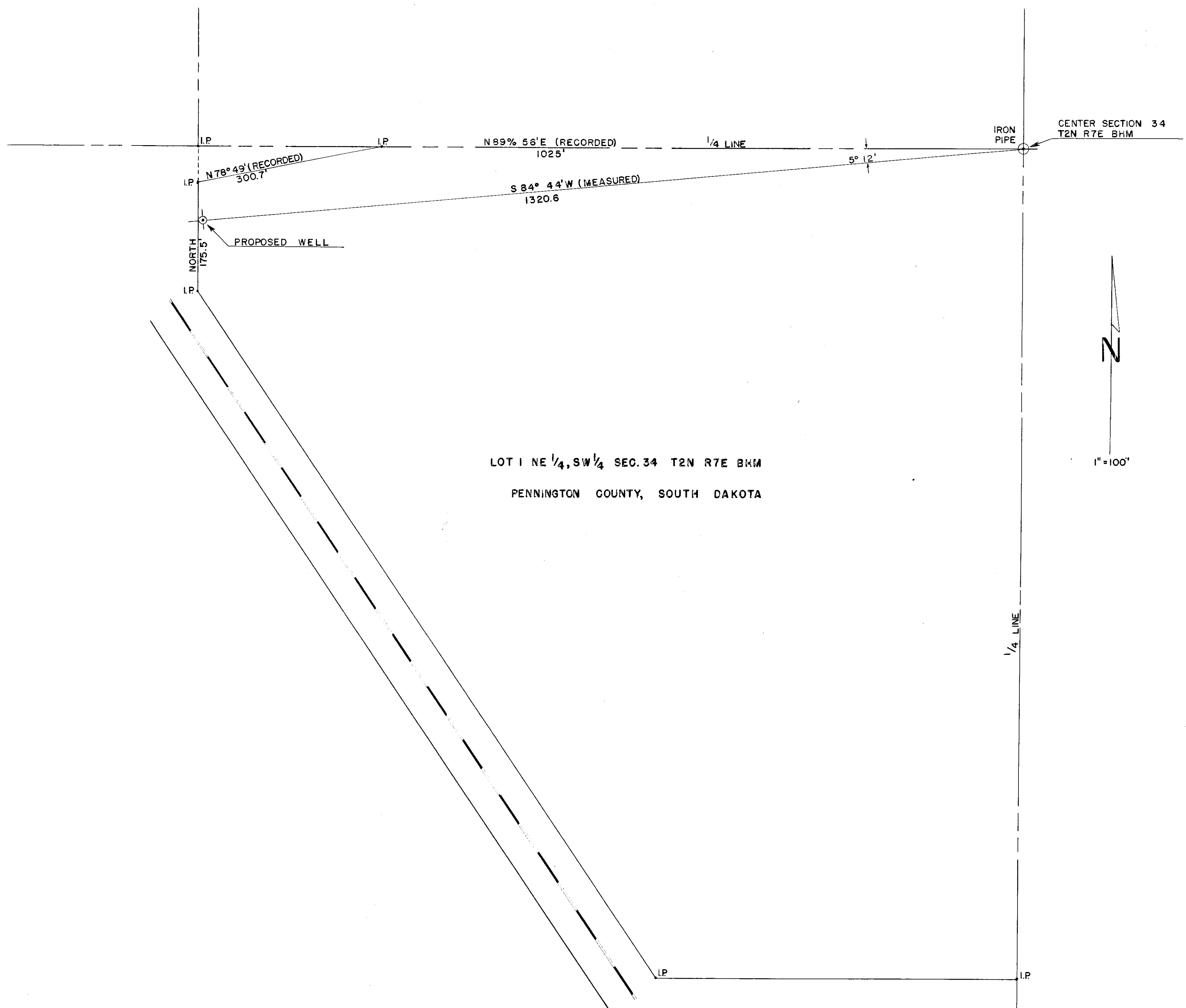
All dimensions from property line to property line.

STATE OF SOUTH DAKOTA }
COUNTY OF PENNINGTON }
Filed for record this 11th day of
Aug. A.D. 1956 at 11 o'clock
and 45 minutes A.M. and recorded in
Book 67, Page 123 of Public
Records.
255 250
Register of Deeds
Deputy

SECTION 33

SECTION 34

Map No 415-20
(Appl. No 415-2)



— SURVEYOR'S CERTIFICATE —
 I, DONALD R. HARRIS, A REGISTERED LAND SURVEYOR, DO HEREBY CERTIFY THAT, AT THE REQUEST OF THE PROPERTY OWNERS, I HAVE SURVEYED THE LOCATION OF THE PROPOSED WELL AS SHOWN ON ABOVE PLAT. I FURTHER CERTIFY THAT LOCATION OF SAID WELL IS AS SHOWN ON THE ABOVE PLAT.
 IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 10TH DAY OF JUNE 1957.
Donald R. Harris
 REGISTERED LAND SURVEYOR

— ACKNOWLEDGEMENT OF SURVEYOR —
 STATE OF SOUTH DAKOTA
 COUNTY OF PENNINGTON
 ON THIS DAY, BEFORE ME, THE UNDERSIGNED, A NOTARY PUBLIC WITHIN AND FOR THE STATE AND COUNTY AFORESAID, PERSONALLY APPEARED DONALD R. HARRIS, 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 JUNE 1957.
George H. Wender
 NOTARY PUBLIC
 MY COMMISSION EXPIRES June 13 - 1959

APPLICATION MAP
 FOR
 WATER RIGHT
 IN
 LOT 1 OF NE 1/4 SW 1/4 SEC. 34 T2N R7E BHM
 BY
 BLACK HILLS POWER & LIGHT CO.
 RAPID CITY, S.D.
 JUNE 1957

RECEIVED
 JUN 12 1957
 STATE WATER RESOURCES COMM.
 PIERRE, SOUTH DAKOTA

Map No. 465-2
 App. No. 454-2

SECTION 28

SECTION 27

DESCRIPTION
4.03 ACRES DESIGNATED AS LOT 1 LYING EAST
OF THE CHICAGO & NORTHWESTERN RAILROAD R.O.W.
IN SE 1/4 OF SE 1/4 OF SECTION 28, T2N, R7E.

SCALE: 1" = 50'

SECTION LINE

SOUTHERN PROPERTY LINE (Q. OF ROAD)

SECTION 33

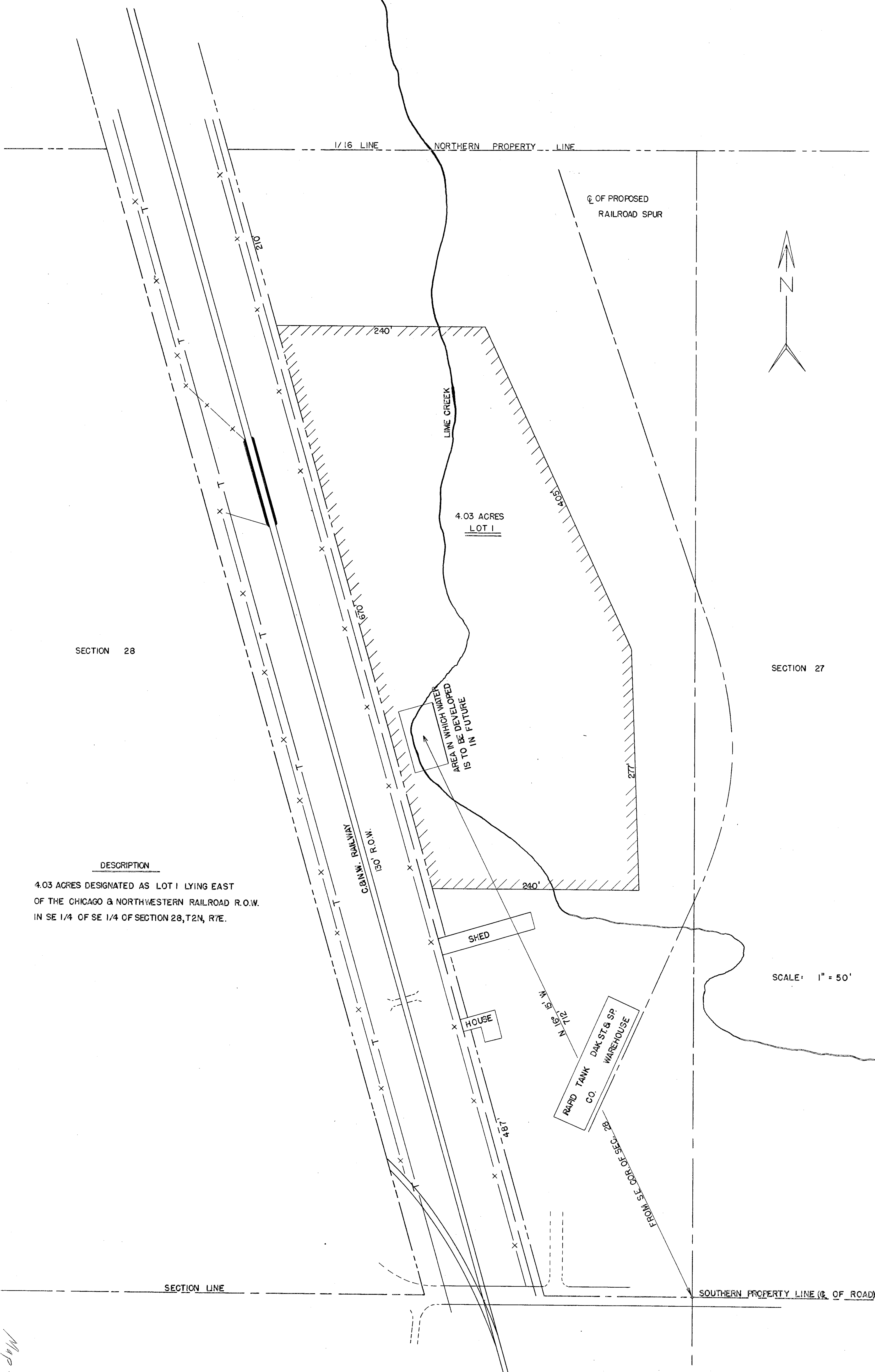
SECTION 34

BLACK HILLS POWER & LIGHT COMPANY

RAPID CITY, S. D.

APPLICATION MAP FOR WATER RIGHTS, LOT 1 OF
THE SE 1/4 OF THE SE 1/4 OF SECTION 28, T2N, R7E, BHM.

Map No. 465-24
(App'l No. 454-2)



Remarks by State Water Resources Commission:

STATE OF SOUTH DAKOTA
County of Hughes } S.D.

Pierre, South Dakota, July 3, 1957

This is to certify that the foregoing application was received by the Commission at 8:45 o'clock

9 m. upon the 9 day of April, 1957

State Water Resources Commission

By:

Goodwin
Chief Engineer, Executive Officer

Number of permit 15412

Date of first receipt of application June April 9, 1957

Date of return to applicant for correction, amendments or changes required as follows: April 12, 1957

Date of receipt of corrected application June 11, 1957

Date from which applicant may claim right April 9, 1957

Approved August 14, 1957, Recorded in Book 4 Page 140

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

February 14, 1960

2nd. The whole of said work is to be completed on or before August 14, 1962

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

August 14, 1963

4th. The water appropriated shall be used for the purpose of industrial 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 2.00 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 August 14, 1963; said water to be used during the following described annual period:

Witness my hand this 16 day of September, 1957

State Water Resources Commission.

By:

Goodwin
Chief Engineer, Executive Officer

Certificate of Construction issued

January 30, 1964

Water License issued

January 30, 1964

Form 2A — Wells (Supplement to Form 2)

D. (Continued)

III. Well Specifications

(a) Hole and casing

Size of drill hole or excavation 10 , Depth 1800

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

Size of casing 9-5/8 , Thickness of casing

Length of casing 1600 If collection gallery, length, size and depth of
gallery

(b) Screens

Type of perforated screen - - - - -

Size of perforated screen - - - - - ,
(diameter) (length)

Thickness of gravel pack - - - - - , length of gravel pack - - - - -

(c) Water Bearing Materials

Distance to water Character of water bearing materials Fractured
and cavernous limestone

Thickness of water bearing material 300

(d) Pump and Motor

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

Name of pump Reda (probable) , size 6"

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

Horsepower 50 , Name of Motor

(e) Complete well

Capacity 500 GPM at drawdown of 200 Estimated cost \$3,500

(f) Owner of land upon which well is located Black Hills Power and Light Company, Name

Box 1951, Rapid City, South Dakota
Address

(g) Distance to nearest existing wells

On same owner's property rods. On property owned by others rods
(There are no wells in this aquifer closer than 10 miles)

STATE OF SOUTH DAKOTA

WATER LICENSE No. 454-2

WHEREAS, On the 9th day of April A. D. 1957

The Black Hills Power and Light Company

of Rapid City County of Pennington and State of South Dakota duly made application (No. 454-2) to us for a permit to use 2.0 cubic feet per second of the waters of Artesian ground water (Pabawara) County of Pennington, State of South Dakota for industrial purposes; and

WHEREAS, On the 16th day of September A. D. 1957

Permit No. 454-2 was issued to said applicant for the diversion of said water, and providing for the completion of the works of diversion therein described on or before the 11th day of August A. D. 1962 and for the application to beneficial use of said water on or before the 11th day of August A. D. 1963 and,

WHEREAS, On the 15th day of January A. D. 1964

the holder of said permit duly made proof of the completion of adequate works for the diversion of 1.0 cubic feet per second of said waters, as evidenced by our Certificate No. 454-2 dated January 30, 1964 confirming the completion of works of sufficient capacity for diverting and conveying to the place of intended use 1.0 cubic feet per second of water, with date of priority of April 9, 1957 and,

WHEREAS, On the 15th day of January A. D. 1964

proof was duly made of the application to beneficial use of 1.0 cubic feet per second of said water; electrical For plant make-up in connection with a power generating plant

Permit No. 454-2Water Division No. 2 RAPID CREEK Water District**Certificate of Completion of Works**

TO ALL WHOM IT MAY CONCERN:

This is to Certify, That the Black Hills Power and Light Company

of Rapid City, County of Pennington, and State of South Dakota, the holder of Permit No. 454-2 Issued upon Application No. 454-2, bearing date of priority of April 9, 1917, authorizing the diversion of 2.00 cu. ft. per second of the waters of Artesian ground water (Pahasapa) County of Pennington, State of South Dakota, at a point 132° 58' 44" W of the Center, Section 34, T. 2N, R. 7E.

for industrial purposes, has 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 Permit; that said works are found in satisfactory condition for diverting and conveying to the place of intended use 1.0 cu. ft. per second of water; and that the ~~uses to be made of the water~~ use of said water are described as follows, to-wit: to be used for plant make-up in connection with an electrical power generating plant.

Witness my hand this 30th day of January A. D. 1918

State Water Resources Commission

By:

J.W. CRIMES, Chief Engineer, Executive Officer

(First Publication before July 14, 1957.)

APPROPRIATION OF WATER

Office of State Water Resources Commission,

Pierre, S. Dak., July 3, 1957.

Notice is hereby given that the Black Hills Power and Light Company whose postoffice address is Rapid City S. Dak., has made an application in accordance with

the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use 2.0 cubic feet of water per second of time from the Pahassapa Limestone (ground water) through the #1 Water Well the point of diversion of which is to be located on the

~~XXXXXX~~ in ~~XXXXXX~~ Lot 1, NE ~~1/4~~ of the ~~SW~~ SW of Section 34 Twp. 2N Range 7E Said water to be used for the ~~XXXXXX~~ XXXXXX

industrial purposes in Lot 1, NE ~~1/4~~ SW ~~1/4~~, Sec. 34, T 2 N, R 7 E

~~XXXXXX~~ or ~~XXXXXX~~ XXXXXX

This application will be taken up by the State Water Resources Commission at their office at Pierre for consideration upon the 14th day of August, 1957 at 2:00 P.M. All interested persons may appear and be heard.

Appropriate action will be taken by the Water Resources Commission after suitable time has elapsed for the consideration of any or all information presented.

State Water Resources Commission

By:

~~XXXXXX~~
Les Wyhorny, Water Rights Engineer

cc Mr. E. H. Lighter, Manager
The Rapid City Daily Journal
Rapid City, South Dakota

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA }
 County Pennington } ss.

E. H. Lighter being duly sworn, deposes and says the annexed printed copy of Notice of Intention to Appropriate Water was taken from the _____

Rapid City Daily Journal a newspaper which during the whole time of publication of said notice herein after stated, has been and is printed and published in the _____

City of Rapid City County of Pennington and State of South Dakota; that the said notice was published in said newspaper on the following dates:

July 10
July 17
July 24
July 31

in each and every issue of the full number thereof, the first publication being made on the 10th day of July 1957 and the last publication on the 31st day of July 1957, upon which days or times of publication aforesaid the newspaper was regularly published, and that during the whole time of said publication he was Business Manager the printer and publisher of the said newspaper.

E. H. Lighter

Subscribed and sworn to before me this 31st day of July A. D. 1957.

[Signature]
 Notary Public Pennington County, S. D.

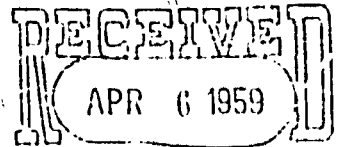
JULY 10, 17, 24, 31
 APPROPRIATION OF WATER
 Office of State Water
 Resources Commission,
 Pierre, S. D., July 3, 1957
 Notice is hereby given that the Black Hills Power and Light Company whose postoffice address is Rapid City S. Dak., has made an application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use 2.0 cubic feet of water per second of time from the Pahasapa Limestone (ground water) through the No. 1 Water Well, the point of diversion of which is to be located in Lot 1, NE1/4, of the SW1/4 of Section 34 Twp. 2N Range 7E. Said water to be used for industrial purposes in Lot 1, NE1/4SW1/4, Sec. 34, T 2 N. R 7 E. This application will be taken up by the State Water Resources Commission at their office at Pierre for consideration upon the 14th day of August, 1957, at 2:00 p.m. All interested persons may appear and be heard.
 Appropriate action will be taken by the Water Resources Commission after suitable time has elapsed for the consideration of any or all information presented.
 State Water Resources Commission
 By: Les Wyborny,
 Water Rights Engineer.

RECEIVED
 AUG 6 1957
 STATE WATER RESOURCES COMM.
 PIERRE, SOUTH DAKOTA

BLACK HILLS POWER AND LIGHT COMPANY

Rapid City, South Dakota

April 3, 1959



STATE WATER RESOURCES COMMISSION
PIERRE SOUTH DAKOTA

Water Resources Commission
State of South Dakota
Pierre, South Dakota

ATTENTION: Mr. J. W. Grimes, Chief Engineer

Gentlemen:

Reference is made to Application No. 454-2 for water from the Pahasapa Limestone for "No. 1 Well" at a proposed power plant site near Rapid City, South Dakota, for the above Company, which was approved on August 14, 1957.

In the construction of this well, a large volume of artesian water was encountered in the two upper zones of the Minnelusa formation and these flows were entirely shut off by cementing 10-3/4 inch casing to a total depth of 642 feet. As drilling resumed, however, a small amount of water, 25 gallons per minute, was found to flow from the lower or third zone of this same formation.

The consulting geologist, Dr. J. P. Gries, feels that this lower zone is effectively sealed off from the upper zones which are presently being utilized from several wells in the vicinity. Formation structure and a study of static pressure differentials between the lower and the upper zones of this well under varying conditions and by the interpolation of shutoff pressures of wells in the vicinity corrected for elevation to this well bear out the fact that there is an impervious separation and that water taken from the lower zone would not adversely affect the production from wells in the upper two zones.

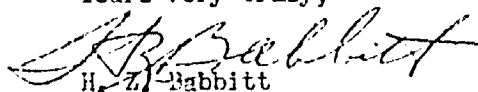
Attached to this letter you will find supporting data tabulated by Dr. Gries to verify his conclusion to this effect.

In view of these facts, then, we wish to amend our Application No. 454-2 to include 75 gallons per minute of water to be produced from the lower or third zone of the Minnelusa formation. This letter is to be considered the formal application by the Black Hills Power and Light Company for the amendment.

Water Resources Commission
April 3, 1959
Page Two

We sincerely hope the Commission will see fit to grant this amendment at the earliest meeting.

Yours very truly,


H. Z. Babbitt
Chief Engineer

HZB:bjp

Attachment

State South Dakota Farm Rapid City Sta. Number _____
County Pennington Company Black Hills Power & Light Co.
Sec. 34 T. 2 N R. 7 E Drilled by Layne Minnesota Company

Authority J. P. Gries Samples SDS-1 set 230
Date Spudded 12/3/58 Date Completed _____
Elevation _____ Method _____ T.D. _____

Remarks Preliminary sample log

Spearfish redbeds	0 -	160
Minnekahta limestone	160 -	201
Opeche red shale	201 -	330
Minnelusa formation	330 -	910
Pahasapa limestone	910 -	1250 est.

Casing: 13 3/8" at 238 with 220 sacks. Cement to surface.
10 3/4" at 642 with 1180 sacks. Cement to surface.

Note: The red shale marker, which is about 630 feet, effectively seals the 1st and 2nd Minnelusa sands from the lower or third flow. The 10 3/4" casing shuts off both the first and second flows in the B. H. P. & L. Company well.

We propose to take water from the third flow. It now flows an estimated 25 gpm from our well. We do not know how much it will pump.

So far as my records go, the nearest well to utilize the third flow is the City of Rapid City #4 well which is 8100-feet SDS of the BHP&L Co well. All domestic and cement plant wells use only the first flow. Sioux San and Everist Quarry use both first and second flows.

Judging from the flow before and after the BHP&L Co well penetrated the top of the Pahasapa limestone, the pressures in the lower Minnelusa and the Pahasapa are believed to be in balance, so that neither will take water from the other if both are left open in the same hole.

There is believed to be no appreciable difference in chemical quality between the two waters.

J P Gries

JOHN PAUL GRIES

Consulting Geologist
238 ST. CHARLES STREET
RAPID CITY, SOUTH DAKOTA

April 3, 1969

MEMORANDUM

TO: H. Z. Babbitt
FROM: J. P. Gries
RE: Pressures, BHP&L well.

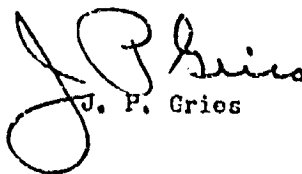
At Mr. Grimes suggestion, we capped the well on April 1, and determined the shut in pressure on water coming from the Lower Minnelusa and top of the Pahasapa. Final pressure, after 15 hours was just under 44 psi.

We took no reliable pressure reading from the upper flows in this well. However, two nearby wells completed in the upper sands of the Minnelusa are connected to shut in systems with pressure gauges.

The well of Corner, Howe and Lee, 1200 feet to the northeast, is 42 feet higher, and has a pressure of 32 pounds. The 42 feet difference in elevation figures to 15 additional pounds pressure, making the calculated pressure in the BHP&L well upper sands 50 psi.

The newly completed well of Central Mix, 1000 feet southwest of BHP&L, is 28 feet higher, and has a pressure of 36 psi. The 28 feet elevation difference converts to 12 pounds pressure, making the calculated pressure at the elevation of the BHP&L well 48 psi. This well is drawn upon more heavily than the Corner, Howe and Lee well, and may be expected to have slightly lower pressure.

The fact that the pressures from the upper, heavily used sands are 4 to 6 psi higher than that recorded from the untapped lower sands, is convincing additional proof that the upper sands are effectively sealed off from those below.


J. P. Gries

Permit No. 454-2Rapid
CreekWater Division No. 2STATE WATER RESOURCES COMMISSION
PIERRE, SOUTH DAKOTA

NOTICE OF COMPLETION OF WORKS

This blank must be filled out by the holder of permit and forwarded to the Executive Officer at least 60 days before the time set for completion of works

(P. O.) Rapid City, South Dakota(Date) January 29, 1960

TO THE STATE WATER RESOURCES COMMISSION
OF SOUTH DAKOTA, PIERRE:

DEAR SIR: Notice is hereby given of the completion of the works for the diversion of _____
pumping 2 _____ cu. ft. per second of the waters of the state from _____ the
_____ Pahasapa limestone _____
for industrial _____ purposes
called #1 Water Well _____ in accordance with the terms and con-
ditions of a certain permit heretofore issued by the Water Resources Commission of the State of South Dakota.

1. The name of the person or corporation holding said permit is Black Hills Power and Light Company

2. The postoffice address of such person or the place of business of such corporation is Rapid City
County of Pennington State of South Dakota

3. The number of such permit is 454-2 and the date set for the completion of such work is
January 29, 1960

4. Said water to be used for industrial _____ purposes.

5. Said works of diversion will be fully completed on the date set for such completion, and the amount of
water which said works are capable of conducting to the place of intended use, in accordance with the plans ac-
companying the application for such permit, is 2 _____ cubic feet per second.

6. The amount of land for which said water is available is the site of the Ben French _____
particularly described as follows: Station of Black Hills Power and Light Company which is an
electric generating station.

I hereby certify that the facts set forth in the above notice are true.

BLACK HILLS POWER AND LIGHT COMPANY

(Signature of Owners)

Neil D. Simpson

Permit No. 454-2

Water Division No. 2

Rapid

City Water District

Certificate of Examination of Works

Report of Examining Engineer

To the State Water Resources Commission, Pierre, South Dakota:

Dear Sirs: I hereby certify that in accordance with your letter of authorization dated _____, I have this day made a thorough examination of the diversion works constructed by Black Hills Power & Light Co., of Rapid City, Pennington County, South Dakota, holder of Permit No. 454-2, issued upon Application No. 454-2, bearing date of priority of April 9, 1947, authorizing the diversion of 2 cu. ft. per second of the waters of Pahasapa ^{well} ~~graben~~ for Power Plant Makeup purposes. I have to report on the condition of the same as follows:

The diversion works comprise: 1275' deep well - flows, 58 lbs./in² surface pressure tapping third vein in Minnelusa formation and the Pahasapa formation. Well is cemented and cased with 10 3/4" steel casing to 642' depth. Diameter of hole below 642' depth is 7 3/4 inches. Logue-Minnesota, 6 inch discharge, pump, with bowl setting at 300 feet. Powered by 75 H.P. U.S. Electric Motor.

and the system is in the following condition: Good except that the electric motor and concrete anchor block on which the motor sets, turn when motor is started.

The point of diversion is located as shown on Water Right Map No 465-2 being 1320.6' S 84° 12' W of the center of section 34, T2N, R7E, B. H. M.

The works are capable of diverting and conveying to the place of use 1.0 cu. ft. per second of water, which is to be used for Power Plant Makeup

The local sub-divisions to be irrigated are: _____

_____ comprising a total of _____ acres of land.

The domestic use intended comprises _____

The utilization for power, mining, or other beneficial uses comprises: _____

Power as stated.

Witness my hand, this 15th day of January, A. D. 1944.

—SEAL—

Dorothy Driscoll

Examining Engineer.

Field & Office Engineer
State Water Resources Commission

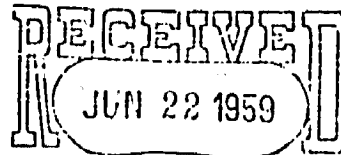
Pennington G.

BLACK HILLS POWER AND LIGHT COMPANY

Rapid City, South Dakota

June 19, 1959

*File 531-2
454-2*



STATE WATER RESOURCES COMMISSION
PIERRE, SOUTH DAKOTA

Mr. Joe Grimes, Chief Engineer
State of South Dakota
Water Resources Commission
Pierre, South Dakota

Dear Joe:

As I promised some time ago, I am enclosing data on our #1 well at the Ben French Plant site which might be of interest to you. There are summary remarks by Paul Gries, a driller's log described by him, an analysis of the water while the well was producing, and a drawdown curve. I hope these data will be of value to your file.

Heinzman Engineering Company is now using the well and have taken some ten million gallons of water at a rate of around 400 gallons per minute and the drawdown is still essentially on the original curve.

Yours very truly,

H. Z. Babbitt
H. Z. Babbitt
Chief Engineer

HZB:bjp

Enclosures

INTRODUCTION

The first deep well at the Ben French Generating Plant site of the Black Hills Power and Light Company at Rapid City, South Dakota, has just been completed by the Layne-Minnesota Company of Minneapolis, Minnesota.

The new well is 1275 feet deep, and draws its water from the lower Minnelusa sandstone and from the Pahasapa (Madison) limestone. It has an internal diameter of 10 inches to a depth of 642 feet, and a diameter of 7 7/8 inches at the bottom. The natural flow is about 200 gallons per minute, with a casinghead pressure of 51 pounds per square inch. It has yielded 517 gallons per minute on a pump test with a drawdown of 247 feet. The water has a total hardness of 178 parts per million, and a temperature of 58 degrees when pumping at over 500 gallons per minute.

*increased to
58 lb in 2
or 3 days*

The well was drilled to test the potential of the Pahasapa limestone as an aquifer. It was also designed and constructed in such a manner that it would not now or in the future affect the yield of the upper Minnelusa sandstones which are drawn upon by the State Cement Plant and other neighboring wells.

No effort has been spared to collect all the geological, chemical and hydrological information possible from this first well. All data are incorporated in this report. This information will be very useful in planning and completing additional wells in this area.

The contractor should be commended for helping to obtain this information, whether or not it was specified in the contract. The care and accuracy with which it was taken and recorded is unusual among water well contractors.

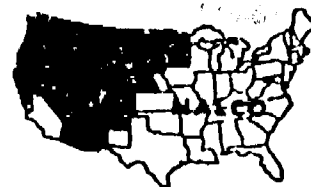
THE FLOX COMPANY INC.

DISTRIBUTOR OF



CHEMICALS

1409 WILLOW ST., MINNEAPOLIS 5, MINN., Federal 2-6458



5929 N.W. UNION AVE., PORTLAND, OREGON

1516 OAK STREET, ALAMEDA, CALIFORNIA

Report of Water Analysis

TO: Black Hills Power & Light Co. SAMPLE MARKED: Well Water #1 Well
P.O. Box 1951 Ben French
ADDRESS: Rapid City, South Dakota DATE TAKEN: (As of 5-28-59)

PHYSICAL CHARACTERISTICS:

Analysis

Results Shown in Parts per Million

To convert to grains per U. S. Gallon divide by 17.1

Total Hardness (as CaCO_3)	180
Calcium Hardness (as CaCO_3)	96
Magnesium Hardness (as CaCO_3)	
Phenolphthalein Alkalinity (as CaCO_3)	Trace
Methyl Orange Alkalinity (as CaCO_3)	172
Chlorides (as NaCl)	2
Sulphates (as Na_2SO_4)	12
Silica (as SiO_2)	13
Phosphate (as PO_4)	
Total Iron (as Fe)	
Color No.	
Total Oil	
pH	8.0

SAMPLE LOG

Black Hills Power and Light Company
Rapid City Water Well No. 1
1500 feet from west line; 2500 feet from south line
Section 34, T. 2 N., R. 7 E., Pennington County, S. D.
Drilled with rotary tools by Layne-Minnesota Company
Spudded December 3, 1958. Completed April 14, 1959.
Ground elevation 3200 feet. Driller's measurements from
ground level; Schumberger measurements from derrick floor 3205.
Samples described by J. F. Gries, School of Mines & Technology.
Samples on permanent file at S.D.S.M.&T. Set No. 280.

Spearfish formation

- 0 - 10 clay, light gray, very silty to sandy; some fine white sandstone
- 20 gypsum, medium crystalline, dark red to white, secondary
- 40 shale, dark red, silty, grading to siltstone, dark red, sandy
- 110 shale, typical redbeds
- 150 shale, same, more secondary gypsum
- 160 shale, same, some cream very finely crystalline earthy dolomite

Minnekahta formation Top at 160 feet.

- 160 - 170 limestone, very finely crystalline, anhydritic, translucent, light brown to cream
- 180 limestone, same, grading to pink and lavender
- 190 limestone, fine to medium crystalline, light brown to lavender
- 200 limestone, same, 1/2; siltstone, dolomitic, argillaceous, micaceous, lavender, 1/2

Opache formation Top at 202 feet

- 200 - 210 Siltstone, argillaceous, lavender; some caved limestone
- 220 siltstone, dolomitic, lavender to green
- 230 shale, lavender silty and back into redbeds
- 240 no sample
- 250 selenite, satinspar and anhydrite, 60%; redbeds, 40%
- 260 redbeds, 90%; anhydrite, 10%; much cement from pipe
- 270 redbeds, with vuggy crystal-lined porosity
- 280 redbeds, some veinlets secondary gypsum
- 290 redbeds, less sandy and silty than those just above
- 300 redbeds, with streaks fine to coarse frosted quartz grains, white and orange; some orange sandstone with black grains
- 310 redbeds, same, and some disseminated sand grains
- 320 redbeds, less coarse sand

Minnelusa formation Top at 315 feet

- 320 - 330 no sample
- 340 sandstone, fine to coarse, orange and white, drills free; some very poorly sorted with streaks of redbeds
- 350 sandstone, fine to medium, red and orange, argillaceous; 20% is free orange frosted quartz grains
- 360 sandstone, fine to medium with few coarse grains, orange, yellow and white, drills free. Water sand.
- 370 sandstone, fine to medium, colorless, white, pale yellow, incoherent
- 380 sandstone, fine to medium, subangular, partly cemented, orange and yellow, 90%; limestone, translucent, finely crystalline, pale yellow to lavender, 10%
- 390 sandstone, fine, white to yellow, few free FQG, orange, incoherent
- 400 sandstone, same
- 410 sandstone, fine, few coarse grains, subangular, white to yellow and orange, incoherent
- 430 sandstone, fine, subangular, white to yellow, incoherent
- 440 sandstone, same, 90%; with streaks finely crystalline lavender to red-brown dolomite, 10%
- 450 sandstone, same, 80%; dolomite same to yellow, 20%
- 460 sandstone, same, 70%; chert, white, 20%; dolomite as above, 10%
- 470 sandstone, fine, white subangular, some cemented with anhydrite and chert
- 496 sandstone, same
- 500 no sample
- 510 sandstone, fine to medium, white, subround in finer sizes; trace pink and yellow dolomite
- 520 sandstone, same, with traces of dolomite as above, and of anhydrite and gypsum
- 530 sandstone, same, with traces of dolomite as above
- 540 sandstone, fine to medium, cemented with dolomite and anhydrite, yellow, white, porous. The only good sample between 470 and 547 feet.
- 540 - 625 samples all fine incoherent sand, presumably washing from cavity developing between 353 and 381 feet. Not described individually. Drilling time suggests that most of this section is dolomite, but the cuttings failed to come up past the cavity.
- 625 - 630 Redbeds, with embedded frosted quartz grains. This all appears to be caving from the lower Opeche, just below the surface pipe. Not the red marker.
- 635 redbeds, with anhydrite and gypsum; trace poorly sorted white sandstone
- 640 redbeds
- 645 sandstone, fine to medium subangular to coarse, rounded, white, incoherent, 2/3; redbeds, 1/3

set 10 3/4" casing at 642 feet with ¹⁴¹¹sacks.

Minnelusa formation, cont'd

- 647 - 650 dolomite, calcareous, finely crystalline, light brown to slightly pink. 10% of chips show porosity.
- 655 dolomite, calcareous, finely crystalline, light brown to pink, 10% of pink is sandy. 20% porosity.
- 660 dolomite, finely crystalline, light gray to light brown to pink; trace argillaceous dolomite or dolomitic shale. 20% porosity.
- 685 dolomite, same, 40% porosity, 90%; sandstone, medium white to pink, porous, 10%
- 670 dolomite, same, 30% porosity
- 675 dolomite, finely crystalline, pink to light brown; dolomite, granular, lavender, some very sandy, trace sandstone, white. dolomitic cement
- 680 dolomite, calcareous, light brown, gray, pink, 20% porosity
- 685 dolomite, same, 95%; sandstone, medium, pink, dolomitic, 5%
- 690 dolomite, same, 70%; sandstone, medium, white to pink, very dolomitic, 30%
- 695 dolomite, same, trace sandy, 70% porosity
- 700 dolomite, same, 30%; sandstone, medium, white to fine, pink, dolomitic, 70%
- 715 sandstone, fine to medium, white, buff, porous, trace dolomitic
- 720 dolomite, finely crystalline, mealy, light gray to lavender, argillaceous
- 725 dolomite, finely crystalline, granular, micaceous?, light brown to lavender, porous, 50%; sandstone, medium, pink, 10%; shale, dolomitic, lavender, 40%
- 730 sandstone, fine to medium, porous to cemented with dolomite, white, yellow and pink
- 740 sandstone, fine to medium, orange to white, somewhat porous
- 745 dolomite, finely granular, micaceous?, pink to greenish gray, some sandy
- 750 dolomite, very finely crystalline, gray, yellow and pinkish, with some red mottling and sandy streaks
- 755 dolomite, finely crystalline, pale yellow, sandy, grading to sandstone, very dolomitic, white to yellow
- 760 dolomite, finely crystalline, slightly earthy, light gray to slightly pink, some sandy, 80%; sandstone, dolomitic, pink to white, 20%
- 765 sandstone, fine to medium, white to pink, very dolomitic, some porous
- 775 sandstone, fine to medium, poorly sorted, pink and lavender to white, very dolomitic
- 780 sandstone, same, 70%; grading to dolomite, finely crystalline, sandy, 20%; lavender argillaceous dolomite or dolomitic shale, 10%
- 785 sandstone, fine, pink, lavender, yellow and white, dolomitic, 70%; dolomite, very finely crystalline, gray-brown, 30%
- 790 dolomite, finely crystalline, earthy, gray brown 70%, grading to dolomite, argillaceous, greenish gray or a dolomitic greenish gray shale, 30%

Minnelusa Formation cont'd

- 790 - 795 dolomite, fine to medium crystalline, some rhombic, light gray brown, 10% is sandy
- 800 dolomite, finely crystalline, light gray to yellow and mottled, dense; trace medium crystalline, medium gray (looks like Red River) 90%; ss, 10%
- 805 dolomite, like above
- 810 dolomite fine to medium crystalline, light gray to gray-brown and pink, some is finely speckled with mica or pyrite; trace sandy
- 815 dolomite, finely crystalline,
- 810 dolomite fine to medium crystalline, vitreous, light to medium gray-brown, 60%; dolomite, lavender, sandy grading to sandstone, lavender to white, dolomitic, 40%
- 815 dolomite, finely crystalline, light gray to gray-brown and pink, some is finely speckled with mica or pyrite, trace sandy
- 820 dolomite, finely crystalline to very finely crystalline, white to light gray to yellow mottled, still some speckled
- 825 dolomite, calcareous, very finely crystalline, light gray-brown, glassy, to white with pink cast
- 830 dolomite fine to medium crystalline, glassy, light gray-brown, 40% limestone, white with inclusions of sand and dolomite crystals, 60%
- 835 dolomite, finely crystalline, light gray-brown, 10% porous
- 840 dolomite, finely crystalline, light gray-brown to nearly white
- 845 dolomite, fine to medium crystalline, light gray, some with embedded rhombs; much yellow dolomite with inclusions
- 850 dolomite, calcareous, fine to medium crystalline, white to very light gray, chalky to vitreous, trace porosity
- 855 dolomite, finely crystalline, wealy, light gray to white, with dark specks, 40%; dolomite, fine to medium crystalline, pink, with rhombic crystals and a few sand grains, porous, 30%; shale, pale green, dolomitic, 30%
- 860 dolomite, medium crystalline, rhombic, pink, with few sand grains, fairly porous
- 865 dolomite, finely crystalline, white to light gray, wealy, 40%; dolomite, pink as '60, 40%; shale may be caved, 20%
- 870 no sample
- 875 dolomite, stained red and yellow, trace red clay, gravel, chert, and now very dense finely crystalline glassy white dolomite
- 880 dolomite, glassy, dense, white, 30%; chert, white, 20% shale, red and variegated, 50%
- 885 same, trace gravel
- 890 same, trace green may be caved
- 895 same, trace gravel, more dolomite than shale

Pahasapa formation Top at 889 feet.

- 895 - 900 dolomite, very fine to medium crystalline, white and stained, some porous, 80%; shale, variegated, 20% may be caved. Trace sandstone, also caved.
- 905 dolomite, medium crystalline, rhombic, drills fine, 80%; sand, fine to coarse, white and orange, 20%; probably caved; trace red shale
- 910 dolomite, medium crystalline, white to stained, 90%; sand, medium fine, 10%; trace red shale, caved
- 915 dolomite, fine to medium crystalline, white to pale yellow and pink, 20% porosity
- 920 dolomite, same, more red and green shale, caved
- 925 dolomite, fine to medium crystalline, white, trace pink; trace white chert; 40% porosity
- 930 dolomite, medium crystalline, white, 20% porous
- 935 dolomite, medium crystalline, rhombic, white; trace banded white chert; 30% porosity
- 940 dolomite, finely crystalline, to medium crystalline, white to light brown and faintly pink; 15% porous
- 945 dolomite, finely crystalline, white to light gray and light brown, trace porosity; much caved red and green shale
- 950 dolomite, finely crystalline, white, glassy but tight
- 955 dolomite, same, dense but some spar calcite suggests cavities
- 960 dolomite, same and some dolomite, calcareous, white, mealy, looks like limestone
- 965 dolomite, calcareous, white to red brown; trace embedded sand
- 970 dolomite, finely crystalline, white to faintly pink, drills fine, some flat sand and red shale
- 975 dolomite, same; 10% free white frosted sand.
- 980 dolomite same; trace embedded sand
- 985 dolomite, fine to medium crystalline, rhombic, white, 20% porosity; trace red shale caved
- 990 dolomite, finely crystalline, dense to coarsely crystalline, rhombic, white, 20% porosity
- 995 dolomite, coarsely crystalline, rhombic, nearly white, 30% porosity
- 1000 dolomite, finely crystalline dense to coarsely crystalline, rhombic, 10% porosity
- 1005 dolomite, fine to medium crystalline, white to light brown, trace porosity
- 1010 dolomite, same; trace coarsely crystalline, rhombic, 10% porosity
- 1015 dolomite, same, 15% porosity; tr white chert
- 1020 dolomite, finely crystalline, nearly white to pale pink, dolomite fine to coarsely crystalline, white, trace porosity
- 1025 dolomite, very finely crystalline, light gray to egg-shell, few pieces fine to medium crystalline, rhombic, white, 5% porosity

Pahasapa Formation, cont'd

- 1025 - 1030 dolomite, same, 10% porosity
1035 dolomite, same to slightly pink; green shale caved
1040 dolomite, finely crystalline, light brown glassy to
light gray chalky, trace porosity
1045 dolomite, finely crystalline, slightly earthy, egg-
shell white, 10% porosity
1050 dolomite, fine to medium crystalline, slightly earthy,
dense to rhombic, light brown, pink, white, trace
chert, trace porosity
1055 dolomite, fine to medium crystalline, rhombic, white
to red-brown, 20% porosity
1060 dolomite, fine to medium crystalline, white to pale
pink, trace porosity
1065 dolomite, finely crystalline, glassy, light brown,
trace porosity N.B. @ 1062½
1070 dolomite, fine to medium crystalline, rhombic, light
brown, 30% porosity
1075 dolomite, medium crystalline, rhombic, light brown,
15% porosity
1080 dolomite, fine to medium crystalline, rhombic, very
light brown to white, 10% porosity
1085 dolomite, medium crystalline, rhombic, very light brown
to white, 40% porosity. Drills fine
1090 dolomite, same, 30% porosity
1095 dolomite, same, 30% porosity
1100 dolomite, same, 20% porosity

stopped at 1100 to ream 7 7/8" hole to 9 7/8"
to 912 feet. Ran linear.

- 1100 - 1105 no sample
1110 dolomite, finely crystalline, glassy, light brown,
trace porosity; much caved red shale and chert
1115 dolomite, finely crystalline, light gray-brown, tight;
dolomite, medium crystalline, rhombic, white,
porous, stained, 15% porosity
1120 dolomite, fine to medium crystalline, rhombic, white,
20% porous
1125 dolomite, same, 60% porous
1130 dolomite, fine to medium crystalline, light brown,
light gray, pale pink, 30% porous
1135 dolomite, finely crystalline, glassy, light gray,
tight; dolomite, medium crystalline, light
brown to white, 15% porosity
1140 dolomite, finely crystalline, slightly earthy, light
gray to greenish gray; trace coarsely crystalline
rhombic dolomite, porous, may be caved
1145 dolomite, finely crystalline, light gray to light
brown, glassy, trace porosity
1150 dolomite, light gray-brown, no porosity
1155 dolomite, fine to medium crystalline, light gray and
yellow; trace porosity
1160 limestone, dolomitic, finely crystalline, nearly white,
dense to slightly porous. Drills fine.

Pahassa formation, cont'd

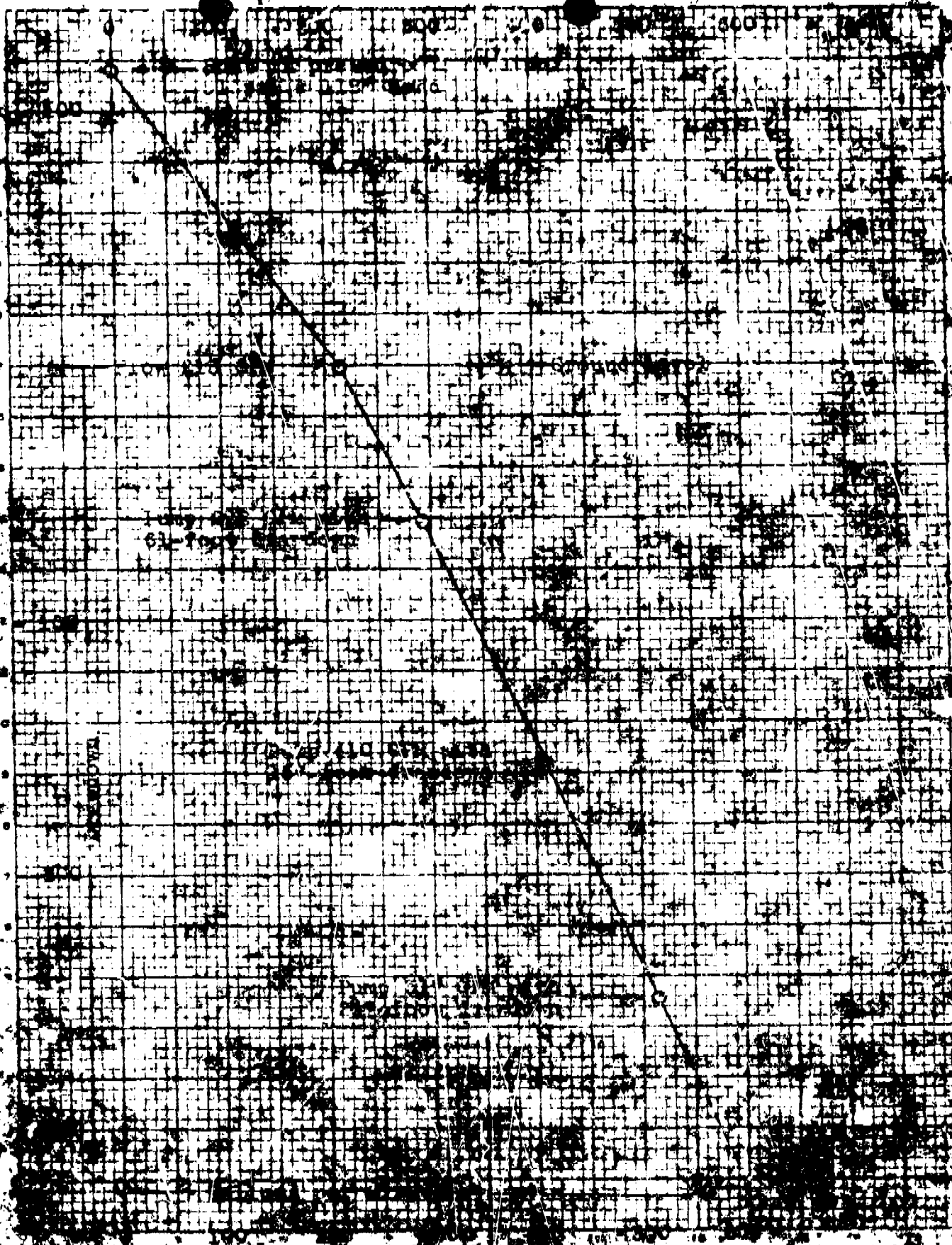
- 1160 - 1165 dolomite, calcareous, as above, 1/2; dolomite, fine to medium crystalline, glassy, slightly porous, nearly white, 1/2
- 1170 dolomite, finely crystalline, glassy, light brown
- 1175 dolomite, same
- 1180 dolomite, fine to medium crystalline, glassy, light to medium brown, vuggy porosity, 10%
- 1185 dolomite, same, 20% porosity
- 1190 dolomite, fine to medium crystalline, glassy, gray, light brown, pale yellow and pink. Drills to 1/4 to 1/2-inch chunks
- 1195 dolomite, finely crystalline, glassy, 5% dolomite, light gray-brown
- 1200 dolomite, same, 10%
- 1205 dolomite, same, 5%
- 1210 dolomite, fine to medium crystalline, light gray-brown, rhombic, 10% porosity
- 1215 dolomite, finely crystalline, slightly rhombic, very light gray-brown, 10% porosity
- 1220 dolomite, same, 20% porosity
- 1225 dolomite, same, 5% porosity
- 1230 dolomite, same, 10% porosity
- 1235 dolomite, same, trace porosity
- 1240 dolomite, finely to medium crystalline, slightly rhombic, light gray to gray-brown, 25% porosity
- 1245 dolomite, same, 20% porosity
- 1250 dolomite, same, 30% porosity
- 1255 dolomite, same, 15% porosity
- 1260 dolomite, same, 20% porosity
- 1265 dolomite, same, 10% porosity
- 1270 dolomite, finely crystalline, very light gray-brown, trace porosity. Drills fine
- 1275 dolomite, same. Total depth.

NEXT

DOCUMENT (S)

BEST IMAGE

POSSIBLE



Drawn on graph. Black Hills Power & Light Co.



454-2

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

March 7, 2006

No. 565-1
454-2
515-2
2466-2

Black Hills Corporation
c/o Tim Rogers
PO Box 1400
Rapid City SD 57709

Dear Tim:

Thank you for returning the 2005 Water Use Questionnaires. From the forms it appears that an ownership/name change has occurred. Enclosed are "Notice of Transfer" forms for use in filing an ownership/name change.

The transfer forms should be checked over for accuracy and **signed by the new owner**. Upon completion, return the forms to our office with a required filing fee of \$2.50 each (\$10.00 total).

If you have any questions, please contact me.

Sincerely,

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

enclosure



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

May 16, 2006

No. 565-1
454-2
515-2
2466-2

Black Hills Corporation
c/o Tim Rogers
PO Box 1400
Rapid City SD 57709

Dear Tim:

On March 7, 2006, I wrote you concerning several permits listed in the name of Black Hills Power and Light. This is a reminder that we have not received the *Notice of Transfer of Ownership* forms.

Enclosed are another set of partially completed *Notice of Transfer of Ownership* forms. The transfer forms should be completed, checked over for accuracy and signed by the new owner. Upon completion, return the form to our office with a required filing fee of \$2.50 (\$10.00 total)

It is important to us to keep our records current. If you have any questions, please contact me.

Sincerely,

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

enclosures

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date May 23, 2006, 20__

RECEIVED OF Black Hills Power, PO Box 1400, Rapid City SD 57709-1400

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	2.50	
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
Fee for Filing Transfer Form <u>454-2</u> =		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	2.50

No.

08455

By

Darwin E. Eide

Chief Engineer

gn

NOTICE OF TRANSFER OF OWNERSHIP

To: Chief Engineer
Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

No. 454-2

Date: _____

I/We request that Water Right No. 454-2

formerly owned by: Black Hills Power & Light

be transferred to: (name & address) Black Hills Corporation
PO Box 1400, Rapid City SD 57709

Telephone No. 605 721-2286

Title to the following described land(s)/property has been transferred as described above:

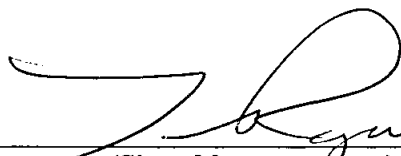
NE 1/4 SW 1/4 Section 34-T2N-R7E

I/We understand that the validity of Water Right No. 454-2 has not been determined by this transfer action. If I/We have any questions on validity, I/We understand that only the Water Management Board has the authority to determine if a water permit/right is valid (see note).

You are requested to file this "Notice of Transfer" in the appropriate file with the Water Rights Program, as evidence of the change of ownership.

A fee of Two Dollars and Fifty Cents (\$2.50) is required to cover the filing fees as required under SDCL 46-2-13. This form must be signed by the new owner.

I/We Black Hills Corporation, the new owner, certify that the above information is true and correct.


(Signed by new owner)

NOTE: Water permits may be cancelled for nonconstruction after the five year construction period has expired. Once a water permit is developed and the water used, the permit becomes a right. A water right may be lost for three reasons:

1. Abandonment - no intent to use water and use is abandoned.
2. Forfeiture - no use of water for three year period without legal excuse.
3. For a third violation of a condition of a water permit/right.

RECEIVED
MAY 23 2006
WATER RIGHTS
PROGRAM



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

May 24, 2006

Tim Rogers
Black Hills Corporation
PO Box 1400
Rapid City SD 57709

RE: Water Right Nos. 565-1, 454-2, 515-2 and Water Permit No. 2466-2

Tim:

The transfer of Water Right Nos. 565-1, 454-2, 515-2 and Water Permit No. 2466-2 has been completed. The water rights formerly listed in the name of Black Hills Power and Light and the permit listed in the name of Black Hills Generation are now listed in the name of "Black Hills Corporation".

Enclosed are Receipt Nos. 02453, 02454, 02455 and 02456 in the amounts of \$2.50 each. You may keep these for your records.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Genny McMath". The signature is fluid and cursive, with the first name "Genny" being more prominent.

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

enclosures