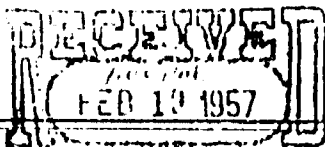


1. Considered May 15, 1957
2. Name of Applicant Claude V. Lamoureux # 444-2
3. Post Office Address Valentine, Nebraska
4. Amount of water claimed 5.71 cfs
5. Source of water supply Antelope Creek
6. Water to be used for Irrigation & Stock watering
Acres to be irrigated 780
7. Water to be diverted and used in Todd County about
4 miles south of Mission.
8. Proof of Publication Received ☒
Not Received ☐
9. Application Approved ☐
Subject to ☐
Not approved ☐
Action deferred ☐

10. Remarks:

Protest from Lancker

No. 444-2

STATE WATER RESOURCES BOARD

Water Division No. 2 Keya Poha River District
(Blanks to be filled by the Engineer for the W. R. C.)

App No.

457-2

APPLICATION FOR PERMIT

To appropriate Water within the State of South Dakota

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

1. Name of applicant L7 RANCH COMPANY
Box 373, MISSION, S.D. 57555
 Postoffice address Valentine, County Cherry, State Nebraska

I. If a corporation

(a) Name of same

(b) Date and place of incorporation

(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 and direct labor(b) Cash on hand, \$ adequate to accomplish purpose

(c) Treasury stock, \$

(d) Bonds to be issued, \$

(e) Other resources, \$

2. Name of diversion work Laroureaux #13. Amount of water claimed 5.714 3.9 cubic feet per second (252.64 cpm)4. Source of water supply Antelope Creek5. Location of point of diversion between the SW 1/4 Sec 19 and the SW 1/4 Sec 32, all in T 38N, R 28W. on both banks Fodd County.6. Annual period or periods during which water is to be used April to October inclusive

7. To be used for:

I. Irrigation or domestic use: Gravity, overhead sprinkling or combination system? Combination(a) Number of acres to be irrigated 400 341 acres all in T 38N R 28WRECAP OF IRRIGABLE ACRES

Section Subd.	Section	T W P	Range	Acres
SE 1/4	19	38N	29W	36±
SE 1/4	19	38N	29W	66±
NE 1/4	30	38N	29W	130±
NW 1/4	30	38N	29W	128±
SE 1/4	30	38N	29W	125±
SW 1/4	30	38N	29W	24±
NW 1/4	32	38N	29W	116±
NE 1/4	31	38N	29W	63±
NW 1/4 SE 1/4	32	38N	29W	2±
SW 1/4	32	38N	29W	89±
NE 1/4 SE 1/4	31	38N	29W	1±
Total				780 ±

8. Estimated cost of work:

(a) Head Gates, \$..... 1 mile
 (c) Filming, \$..... (d) Canal earth, \$ 300
 (e) Other structures, Sprinkler System \$ 5,000
 (b) Pumping plant, \$ 2,000
 Rock, \$.....
 Total, \$ 8,300

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.

TABULATION OF STORAGE DATA

Reservoir Number	Surface Area -Acres-	Capacity -Acre Feet-
1	5.7 ±	18.7
2	3.1 ±	8.7
3	3.7 ±	12.1
4	1.9 ±	4.6
5	3.7 ±	7.7
Total		51.8

See Map for Location of Reservoirs.

Material

(a) 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..... 3..... years.
 11. Time required for complete application of water to the proposed beneficial use..... 2..... years.
 12. Choice of newspaper for publication of notice of intention to appropriate.....

Todd County Tribune Mission, South Dakota

STATE OF SOUTH DAKOTA

County of Butte ss.

I, Claude J. Lamoureux, 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 Claude J. Lamoureux

Claude J. Lamoureux

Subscribed and sworn to before me this 19 day of January 1951

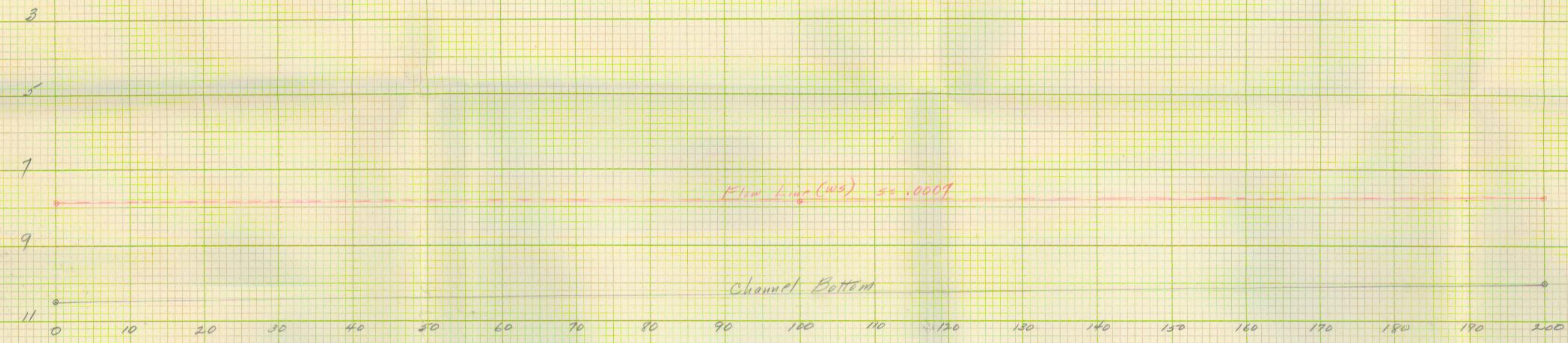
[Signature]
 Notary Public (or other qualified officer.)

*Each diversion must have a headgate or measuring device.

Capacities of x-sections just below the C.V. Lamoureux diversions (Appl. # 444-2),
data for which was taken in the field on March 16, 1957

Referenced to the same H.I.

Scale: 1" = 2'



Computations by Jan 5/14/57

$s = .0007$
 $N = .04$
 $0+00$
 $A = 12.54 \text{ ft}^2$
 $P = 7.50 \text{ ft}$
 $R = \frac{12.54}{7.50} = 1.67$
 $V = \frac{.0473}{1.67} = 1.18 \text{ ft/s}$
 $Q = 12.54 \times 1.18 = 14.80 \text{ cfs}$
 $W.S. 7.90$
 12.54 ft^2
 $P = 7.50$

Ave. $Q = 19.25 \text{ cfs}$

Scale: 1" = 2'

$s = .0007$
 $N = .04$
 $2+00$
 $A = 18.81 \text{ ft}^2$
 $P = 12.88 \text{ ft}$
 $R = 1.46$
 $V = \frac{.0506}{1.46} = 1.26 \text{ ft/s}$
 $Q = 18.81 \times 1.26 = 23.70 \text{ cfs}$
 $W.S. 7.76$
 18.81 ft^2
 $P = 12.88$

Distance in feet

Land to be
Irrigated under
Permit # 908-2

Brass Cap

Area 1 - Owner: Claude V. Lamoureux - 267[±] Acres

Area 2 - Owner: Claude V. Lamoureux - 267[±] Acres

Area 3 - Owner: Claude V. Lamoureux - 78[±] Acres

Area 4 - Owner: Claude V. Lamoureux - 96[±] Acres

Area 5 - Claude V. Lamoureux - 177[±] Acres

Reservoir 1

Reservoir 2

Reservoir 3

Reservoir 4

Reservoir 5

Antelope Creek

West Branch Creek

Sec. 19

Sec. 20

Sec. 29

Sec. 30

Sec. 31

Sec. 32

Sec. 36

Range 28

Range 29

Range 30

Range 31

Range 32

Range 33

Range 34

Range 35

Range 36

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STATE OF SOUTH DAKOTA
County of Hughes ss.

Pierre, South Dakota, February 19, 1957

This is to certify that the foregoing application was received by the Commission at 1:00 o'clock
p.m. upon the 19 day of February, 1957.

State Water Resources Commission

By:

John Brinner

Chief Engineer, Executive Officer

Number of permit 444-2

Date of first receipt of application February 19, 1957

Date of return to applicant for correction, amendments or changes required as follows: March 28, 1957

Date of receipt of corrected application March 28, 1957

Date from which applicant may claim right February 19, 1957

Approved May 15, 1957, Recorded in Book 4 Page 69

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

November 15, 1958

2nd. The whole of said work is to be completed on or before May 15, 1962

3rd. The limit of time for proof of beneficial use of water appropriated in accordance herewith is May 15, 1962 approved 7-11-62

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

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 571 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 May 15, 1962; said water to be used during the following described annual period:

April to October inclusive

Witness my hand this 17 day of June, 1957

State Water Resources Commission

By:

John Brinner

Chief Engineer, Executive Officer

Certificate of Construction Issued AUGUST 8, 1967

Water License Issued AUGUST 8, 1967

Permit No. 444-2Water Division No. 2 KEYAPAH RIVER Water District**Certificate of Completion of Works**

TO ALL WHOM IT MAY CONCERN:

This is to Certify, That Claude V. Lamoureuxof Valentine, County of Cherry, and State of Nebraska, the holder of Permit No. 444-2 issued upon ApplicationNo. 444-2, bearing date of priority of February 19, 1957, authorizing the diversion of 5.71 cu. ft. per second of the waters of Antelope CreekCounty of Todd, State of South Dakota, at between a point N85°06'W 2920 feet from the NE corner and a point S22°54' W of the SE corner, Sec. 30, T38N, R28W for irrigationpurposes, 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 2.9 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: all in T38N, R28W

Section 30	NE $\frac{1}{4}$	121 acres
	SE $\frac{1}{4}$	119 acres
Section 32	NW $\frac{1}{4}$	69 acres
	SW $\frac{1}{4}$	82 acres
Total		391 Acres

Witness my hand this 8th day of August A. D. 1967

State Water Resources Commission

 By: J.W. GRIMES
 Chief Engineer, Executive Officer

STATE OF SOUTH DAKOTA

WATER LICENSE No. 444-2

WHEREAS, On the 10th day of February A. D. 1957

Claude V. Lamoureux

of Valentine County of Cherry and State of

Nebraska

duly made application (No. 444-2) to us for a permit to use 5.71

cubic feet per second of the waters of Antelope Creek

County of Todd, State of South Dakota, for irrigation purposes; and

WHEREAS, On the 17th day of June A. D. 1957

Permit No. 444-2 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 15th day of

May

A. D. 1962 and for the application to beneficial use of said

water on or before the 15th day of May A. D. 1965 and,

WHEREAS, On the 21st day of June A. D. 1967

the holder of said permit duly made proof of the completion of adequate works for the diversion of

2.9

cubic feet per second of said waters, as evidenced by our Certificate No. 444-2

dated August 8, 1967 confirming the completion of works of sufficient capacity for diverting and conveying to the place of intended use 2.9 cubic feet per second of water, with date of priority of February 19, 1957 ~~xxx~~ and,

WHEREAS, On the 21st day of June A. D. 1967

proof was duly made of the application to beneficial use of 2.9 cubic feet per second of said water;

for irrigating 391 acres in portions of Sections 30 and 32,

T38N, R26W.

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 Claude V. Lamoureux
of Valentine, Nebraska the holder and owner of said permit No. 444-2
a water right, dating from February 19, 1957 to the use of 2.9
cubic feet per second of the waters of Antelope Creek
in the County of Todd and State of South Dakota, or so much thereof as may be
necessary for the purposes hereinbelow mentioned, to be diverted at between a point N 85° 06' W
2910 ft. from the NE Corner & a point S22° 54' W of the SE Corner, Section
30, T38N, R28W
and conducted to and upon portions of Sections 30 and 32, T38N, R28W, more
specifically described in the Certificate of Completion of Works.

for the purpose of irrigation, subject to any limitations listed in the
permit to appropriate water.

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 8th day of August A. D. Nineteen
Hundred and Sixty-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 of Diversion _____

Place of Use _____

Purpose _____

Date of Priority _____

Recorded _____

in Book _____ of _____ Page _____

(First Publication before April 19, 1957)

APPROPRIATION OF WATER

Office of State Water Resources Commission,

Pierre, S. Dak., March 29, 1957

Notice is hereby given that Claude V. Lamoureux whose postoffice address is Valentine Nebr. ~~xxx~~, has made an application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use 5.71 cubic feet of water per second of time from ~~xxx~~ Antelope Creek through the Lamoureux fl, the point of diversion of which is to be located on the xxx both between a point in the SE 1/4 Sec 19 and a point bank of said stream in the NE 1/4 of the SW 1/4 of Section 32 all in Twp. 38 N Range 28 W Said water to be used for the purpose of providing irrigation on the following described land:

parts of S 1/2 Sec. 19; Sec. 30; E 1/2 Sec 31; and W 1/2 Sec 32 all in T 38 N,

R 28 W

~~xxxxxx~~ xxxxxx purposes.

This application will be taken up by the State Water Resources Commission at their office at Pierre for consideration upon the 15th day of May, 1957 at 2:00p 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:

J. W. Grimes

Chief Engineer, Executive Officer

cc - Mr. C. W. Figert, Publisher
The Todd County Tribune
Mission, South Dakota

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA
County Todd

Leona P. Figert

being duly sworn, deposes and says the annexed printed copy of Notice of Intention to Appropriate Water was taken from the Todd

County Tribune

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 Todd County of Todd

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

Thursday, April 4, 1957

Thursday, April 11, 1957

Thursday, April 18, 1957

Thursday, April 25, 1957

in each and every issue of the full number thereof, the first publication being made on the 4th day of April

1957 and the last publication on the 25th day of April

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 Asst. Bus. Mgr.

of the said newspaper.

Leona P. Figert

Subscribed and sworn to before me this 4th day of April A. D. 1957

Con Figert

Notary Public Todd County, S. D

No. 444-2
APPROPRIATION OF WATER
Office of State Water
Resources Commission
Pierre, S. Dak.
March 29 1957.

Notice is hereby given that Claude V. Lamoureux whose post office address is Valentino, Nebr., has made an application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use 5.71 cubic feet of water per second of time from Antelope Creek through the Lamoureux No. 1, the point of diversion of which is to be located on both banks of said stream between a point in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 19 and a point in the NE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 32 all in Twp. 89 N Range 28 W. Said water to be used for providing irrigation on the following described land: Parts of SW $\frac{1}{4}$ Sec. 19, Sec. 30; E $\frac{1}{4}$ Sec. 31; and W $\frac{1}{4}$ Sec. 32 all in T 38 N, R 28 W.

This application will be taken up by the State Water Resources Commission at their office at Pierre for consideration upon the 15th day of May, 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: J. W. Grimes,
Chief Engineer,
Executive Officer.

Publ. April 4-11-18-25.

APPLICATION FOR EXTENSION OF TIME FOR COMPLETING WORKS

To the State Water Resources Commission
Pierre, South Dakota

July 2, 1962
(date)

Dear Sirs:

I hereby request that an extension of time from MAY 15, 1960
to MAY 15, 1962 be granted me for the completion of works to be done under Permit No.
444-2 and that the time for proof of beneficial use of water be extended to MAY 15, 1962.

Said works are located in Topp County and are described
as follows:

Location of headworks: in the SW 1/4 of the SW
of Section 19 Township 35 N Range 29 W

E., B.H.M.

The water is to be used for the purpose of IRRIGATION

The extension of time for the completion of these works is requested for the following reasons: MAJOR
WORKS ARE COMPLETED. REQUEST FOR EXTENSION
OF TIME IS TO BETTER DISTRIBUTE WATER TO
THE LANDS.

APPROVED:

7-11-62

State Water Resources Commission

By:

Burt Jones
for Chief Engineer, Executive Officer

Holder of Permit No.

Alfred J. Lemaire

Permit No. 444-2Water Division No. 2KEYAPANA RIVER

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 Claude
V. Lamoureux, of Valentine, NebraskaCounty, South Dakotaholder of Permit No. 444-2

Issued

upon Application No. 444-2, bearing date of priority of February 19, 1957, authorizing the
diversion of 5.71 cu. ft. per second of the waters of Antelope Creek for irrigation
purposes. I have to report on the condition of the same as follows:The diversion works comprise: Five dams, total capacity 51.8 Ac-ft, (2) Forbush-
Morse Pumps, 6" x 6", 650 gpm pumping rate each, (2) 50 H.P
electric motors, 1 mile of 4" aluminum pipe, 4 miles
of 6" aluminum pipeand the system is in the following condition: GoodThe point of diversion is located As shown on water right map 457-2The works are capable of diverting and conveying to the place of use 2.9 cu. ft. per second of water,
which is to be used for irrigationThe legal sub-divisions to be irrigated are: All in T38N, R28WNE 1/4 sec 30 121 AcresSE 1/4 sec 30 119NW 1/4 sec 32 69SW 1/4 sec 32 82comprising a total of 391 acres of land.

The domestic use intended comprises

incidental livestock watering

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

Witness my hand, this 21st day of June, A. D. 1967.

—SEAL—

Donald Russell

Examining Engineer.

Deputy Chief Engineer
Water Resources Comm.

NOTICE OF TRANSFER OF WATER PERMIT

TO: **WATER RIGHTS COMMISSION**State Office Building No. 2
Pierre, South Dakota 57501

Date _____

This is to notify you that title to the lands described as follows:

Parts S1, Sec. 19, Sec. 30, E1 Sec. 31, and W1 Sec. 32, all
in T38N, R28Wformerly owned by Claude V. Lamoureux, Valantine, Nebr.has been transferred to L7 Ranch Company, %Robert J. Lamoureux, Pres.,
Peoria, Ill.together with any rights to the beneficial use of water thereon as evidenced by Water Right Permit No.
444-2 as provided for in Section 61.0127 of the 1960 Supplement to the South Dakota Code of 1939.You are therefore hereby requested to file this "Notice of Transfer of Water Permit" in its appropriate file at
the Office of ~~Water Resources Commission~~ as evidence of the change of ownership.**WATER RIGHTS COMMISSION**A fee of one dollar is hereto attached to cover filing fees as required under Section 61.0150 of the 1960
Supplement to the South Dakota Code of 1939.

STATE OF SOUTH DAKOTA)

County of Peoria) ss.I, Robert J. Lamoureuxbeing 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, and I know of my own personal knowledge that the information herein stated is true.Robert J. Lamoureux
(Signed)Subscribed and sworn to before me this 25 day of February, 1975Elizabeth C. Kessler
(Notary Public)

MY COMMISSION EXPIRES APRIL 2, 1978



Department of Water & Natural Resources

Joe Foss Building Water Rights Division (605) 773-3352
Pierre, South Dakota 57501

444-2

March 23, 1981

L7 Ranch Co
Box 373
Mission, SD 57355

Dear Sirs:

As per our telephone conversation, I am sending a sketch map showing lands to be irrigated on surface water Permit Nos. 444-2 and 908-2.

Permit No. 444-2 is licensed for 391 acres with a diversion rate of 2.9 (1301.5 gallons per minute), lands to be irrigated in NE $\frac{1}{4}$ Section 30 - 121 acres, SE $\frac{1}{4}$ Section 30 - 119 acres, NW $\frac{1}{4}$ Section 32 - 69 acres, SW $\frac{1}{4}$ Section 32 - 92 acres, all in T38N, R28W. Diversions are to be between a point N 85° 00' W, 2910 feet from the NE corner and a point S 22° 54' west of the SE corner Section 30, T38N R28W.

Permit No. 908-2 authorizes irrigation of 80 acres in the W $\frac{1}{2}$ of SW $\frac{1}{4}$ Section 29, T38N, R28W with the following restrictions:

- Under this Permit (1) Diversions of water can only be from reservoir #3.
(2) Flows as needed for downstream domestic use including livestock watering and prior water rights are to be bypassed, and (3) Diversion of water is to be made only when reservoirs #1 & #2 are full and overflowing.

If you desire additional information, feel free to contact this office.

Respectfully,

MARVIN T. KNECHT
Well Specialist

MTK/gy

"Equal Opportunity Employer"

Water Rights Division - DWR

File No. 444-2

Conversation or File Documentation

NAME OF PERSON OR FILE: WL 444-2, L7 Ranch

ADDRESS: Mission SD COUNTY Todd

DATE: 4/17/86 TELEPHONE _____

RE: Cleaning up the permit.

COMMENTS:

On February 19, 1957 an application for permit to appropriate water from Antelope Creek was filed by L7 Ranch Company to divert 2.9 cfs of water for irrigation purposes.

S $\frac{1}{2}$ of Section 19, T38N, R28W which is a part of the irrigation project area mentioned on the application but not on the water license No. 444-2. On April 9, 1986 an inspection was conducted to find out if S $\frac{1}{2}$ of Section 19 was still being irrigated. It was found that approximately 47 acres in S $\frac{1}{2}$ Section 19 are presently being irrigated. In a conversation with Barry Dunn (L7 Ranch) he listed all the sections which presently are being irrigated as listed on the Report of Examination of Works. He also said that S $\frac{1}{2}$ Section 19 had been irrigated since the license was issued. This conversation took place via phone on April 17, 1986 at 12:40 p.m.

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: MPH

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

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

I have this day made a thorough examination of the water use system constructed by L7 Ranch
Robert Lamoureux of Mission SD 57555 holder of
 Permit No. WL 444-2, being the priority of Feb 19 1957 authorizing
 the diversion of 2.9 cu. ft. per second of the waters of Antelope Creek
 for irrigation purposes, in Todd County.

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

A. Works used to divert the water:

3 Pumps: 650 GPM Fairbank Morse.Motors: 50 HP Fairbank.

B. Works used to transport water to place of use:

1 mile of 4" Al. Pipes650 ft. of 6" Al. Pipes

C. Works used to apply water to beneficial use:

Pivots. Valley Water Drive with 9 towers, 900 ft. long, 60 psi with a capacity of 600-650 GPM.The system is in the following condition Good

The point of diversion is located 1-350 ft. W., 160 ft. N. of South Gate of section 19, #14-
between a point N 85° 06' W, 2910 ft. from NE Corner and a pt S 22° 54' W of the SE Corner sec 30
T38N-R28W.

The works are capable of diverting and conveying to the place of use 1.3cu. ft. per second of water which is to be used for irrigationWater has been put to beneficial use to the maximum extent as follows: T38N-R28W

SE 1/4 SW 1/4 Sec. 19	5	NW 1/4 NE 1/4 Sec. 30	25
SW 1/4 SE 1/4 Sec. 19	36	SE 1/4 NE 1/4 Sec. 30	30
SE 1/4 SE 1/4 Sec. 19	6	SE 1/4 NW 1/4 Sec. 32	25.5
NE 1/4 NE 1/4 Sec. 30	30	NE 1/4 NW 1/4 Sec. 32	7.5

comprising a total of 145 acres of land and the license should be issued for 2.07 cfsApplicable permit qualifications have been complied with ☒ Yes ☐ NoExceptions to compliance are: _____ Date 4/9/86

(signature)

MPA Rad

Sec 19

LICENSE FOR PERMIT NUMBER _____

1. Legal location of wells: _____

dams & structures: _____

2. Well Information: Well Drilling Firm _____

No. of wells _____ Depth _____

Casing a) diameter 11 Screen a) type _____
b) length _____ b) length _____
c) type _____ Static Water Level _____

Pump a) make 11 Motor a) make Falk Engineering Co.
b) model K1114/11 b) model no. 41377806
c) size 45813 c) horsepower rating 50
d) capacity 600-650 GPM d) motor efficiency rating _____
e) turbine pump ☒ no. of stages _____

3. Distribution lines:
a) size of lines 6"
b) type A-1
c) length 950

4. Dam Information:
a) height to crest _____
b) height to spillway _____
c) crest width _____
d) crest length _____
e) spillway length _____
f) spillway width _____
g) approx. storage _____
h) Distribution lines or canals:

i) Outlet tubes:
1) diameter _____
2) type _____
3) valued (Y/N) _____
4) valve type _____
5) location on structure _____

1) size _____
2) type _____
3) length _____

5. System Type: a) sideroll:
1) length _____ feet
2) diameter of pipe _____
3) make, model & number of sprinklers _____
4) spacing of sprinklers _____
5) nozzle size _____

b) towline:
1) length _____ feet
2) make, model & number of sprinklers _____
3) spacing of sprinklers _____
4) nozzle size _____

State of South Dakota

REISSUED Water License No. 444-2

(1) Claude V. Lanourreaux

of Valentine, Nebraska was issued Water License No. 444-2

under Application No. _____, August 8, 1967 for a ^{right} ~~water permit~~ to appropriate

2.90 cubic feet per second of water from Antelope Creek

Todd County, South Dakota for Irrigation purposes.

Water License

Permit No. 444-2, with a priority date of February 19, 1957

was approved _____ and issued to applicant(s) for diversion of water with construction of the described

water supply system to be completed on or before _____ and for the application to beneficial use of said

water on or before completed

Water Right No. 444-2 was transferred to L-7 Ranch Company in February, 1975.

Upon review of the file and after an April 9, 1985 inspection it was determined that the lands in Section 19, T38N-R28W authorized under Permit No. 444-2 have been irrigated since the original license was issued. These lands were left off of the examination of works and off of the license issued August 8, 1967. This water license is being reissued to include the lands in Section 19, and also to reflect what is now actually being irrigated.

and

(2) It is certified that the application has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 2.07 cubic feet per second of water

for beneficial use. The location of the diversion point(s) are #1-350 ft W, 160 ft N of south

center of Section 19; #2-between a point N85°06'W, 2910 ft from NE Corner and a

point S 22°54'W of the SE Corner Section 30, all in T38N, R28W

and

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to the following extent, to irrigate the following lands all in T38N-R28W

Section 19	SE $\frac{1}{4}$ SW $\frac{1}{4}$	5 Acres
	SW $\frac{1}{4}$ SE $\frac{1}{4}$	36 Acres
	SE $\frac{1}{4}$ SE $\frac{1}{4}$	6 Acres
Section 30	NE $\frac{1}{4}$ NE $\frac{1}{4}$	20 Acres
	NW $\frac{1}{4}$ NE $\frac{1}{4}$	25 Acres
	SE $\frac{1}{4}$ NE $\frac{1}{4}$	20 Acres
Section 32	SE $\frac{1}{4}$ NW $\frac{1}{4}$	25.5 Acres
	NE $\frac{1}{4}$ NW $\frac{1}{4}$	7.5 Acres
	TOTAL	146.00 ACRES

(1) Pursuant to §46-5-30.1 L-7 Ranch Company

of c/o Robert Lamoureux, Box 297, Mission, South Dakota 57555

the holder(s) and/or owner(s) of Water Permit No. Right 444-2 is issued a license to appropriate water, the right to use 2.07 cubic feet per second of water from Antelope Creek with a priority date of February 15, 1957 from the location specified in (2) of this license. The water to be conducted to and upon lands specified in (3) of this license for the purpose of irrigation

This license is subject to any limitations or qualifications listed in Water Permit No. Right 444-2 and subject to South Dakota State Law.

John Hatch
Chief Engineer, Water Rights Division
Department of Water and Natural Resources

JOHN HATCH

DEC 1 1986

444-2

South Dakota
Department of
Water & Natural Resources

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

Water Rights Division
605 773-3352

DEC 1 1986

L-7 Ranch, Company
c/o Robert Lamoureux
Box 297
Mission, South Dakota 57555

Dear Sir:

Enclosed is your Water Right License No. 444-2. The water license has been reissued to the extent of what is actually being used. The relicense is based on a April 9, 1986 inspection of your water use system.

If you have any questions concerning the enclosed Water License, please contact us.

Very truly yours,

John Hatch
JOHN HATCH, Chief Engineer
Water Rights Division

JH: ms

enclosure

444-2

**SOUTH DAKOTA Department of
Water & Natural Resources**

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181
January 29, 1988

R. LAMOUREAUX L7 RANCH CO
BOX 329
MISSION, SD 57555

NOTICE

Re: Violation of Water Permit No(s). 1915-2 and 1987 Irrigation
Questionnaire Requirements

Our records indicate that the 1987 Irrigation Questionnaire has not been submitted for Permit No(s). 1915-2. The request for the questionnaire was dated October 8, 1987. The Water Management Board has directed that owners of water permits who have not submitted 1987 Irrigation Questionnaires be given notice of permit violation and of hearing(s) before the Board. The hearing(s) will be held to determine action to be taken by the Board for violation of Water Permit No(s). 1915-2 qualification:

"This permit is approved subject to the Irrigation Water Use Questionnaire being submitted each year."

The hearing will also be to determine if Permit No(s) 1257-2, 1258-2, 444-2 should be amended with the qualification to require the Questionnaire to be submitted each year.

The hearing(s) will be at 9:00 am, March 2, 1988, in Room 216, Joe Foss Building, 523 E Capitol, Pierre, South Dakota.

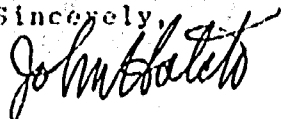
The hearing(s) will be conducted pursuant to the provisions of SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11, and 46-2-17. These are contested case hearings pursuant to procedures contained in SDCL 1-26.

Following the hearing(s), the Water Management Board can:

1. Suspend Permit No(s). 1915-2 until either the 1987 Questionnaire is submitted or for the period of up to one year;
2. Amend Permit No(s) 1257-2, 1258-2, 444-2 also held by R. LAMOUREAUX- L7 RANCH CO to require the Irrigation Water Use Questionnaire to be submitted each year;
3. Postpone any action;
4. Take no action.

The hearing(s) is an adversary proceeding. The permit owner 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.

Sincerely,



John Hatch, Chief Engineer
Water Rights Division

Note: If the questionnaire(s) are received in this office before the March 2 hearing date, you will no longer be in violation of your permit(s) and your name will be deleted from the agenda pertaining to these hearings.



Department of Water & Natural Resources

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

February 16, 1988

444-2
1257-2
1258-2
1915-2

R. Lamoureux
L-7 Ranch
Box 329
Mission SD 57555

Dear Mr. Lamoureux:

I am writing to acknowledge receipt of your 1987 Irrigation Questionnaire(s). A notice was sent to you January 29, 1988 regarding the requirement to submit the Irrigation Questionnaire(s) for Water Permit No. 444-2, 1257-2, 1258-2, 1915-2 and the hearing date before the Water Management Board.

Since your questionnaire was received prior to the March 2, 1988 Water Management Board Meeting, your name has been deleted from the Board Meeting agenda. If you have any questions, please contact us.

Very truly yours,

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



January 29, 1993

NOTICE

444-2

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

TO: BARRY DJNN- L7 RANCH CO
HCR 14 BOX 221B
MISSION SD 57555

FROM: Ron Duvall, Natural Resources Engineer IV
for JOHN HATCH, Chief Engineer
Water Rights Division

RE: Violation of Water Permit No(s) 444-2, 1257-2 & 1258-2, 1915-2 and 1992 Irrigation
Questionnaire Requirements

Our records indicate that the 1992 Irrigation Questionnaire has not been submitted for Permit No(s) 444-2, 1257-2 & 1258-2, 1915-2. The request for the Questionnaires was dated October 16, 1992. The Water Management Board has directed that owners of water permits who have not submitted the 1992 Irrigation Questionnaire be given notice of permit violation and a hearing to be held by the Board. The hearing held by the Board will be to determine if Permit No(s) 444-2, 1257-2 & 1258-2 should be amended to require the Questionnaire to be submitted each year and to determine action to be taken for violation of Water Permit No(s) 1915-2 qualification:

"This permit is approved subject to the Irrigation Water Use Questionnaire being submitted each year."

The hearing will be held at 9:30 am, March 3, 1993, at the Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol, Pierre SD and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to SDCL 1-26. According to SDCL 46-1-12, the Board may suspend a permit for a period of up to one year for the first violation of a permit qualification or up to three years for a second violation, or cancel a permit for a third violation. Following the hearing, the Water Management Board can:

1. Suspend or cancel Permit No(s) 1915-2 in accordance with applicable provisions of SDCL 46-1-12;
2. Amend Permit No(s) 444-2, 1257-2 & 1258-2 to require the Irrigation Water Use Questionnaire to be submitted each year;
3. Postpone any action or take no action.

The hearing is an adversary proceeding. The permit owner 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. Prior to February 22, 1993, contact the Water Rights Division, 523 E Capitol, Pierre SD 57501-3181 (605 773-3352) to assure access to the meeting room for the handicapped or to obtain an interpreter for the hearing impaired.

NOTE: If the questionnaires are received in this office before the March 3rd hearing date, you will no longer be in violation of your permit and your name will be deleted from the Board agenda.



444-2

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

February 19, 1993

444-2
1257-2
1258-2
1915-2

Barry Dunn
L7 Ranch Company
HCR 14 Box 221B
Mission, SD 57555

Dear Mr. Dunn:

I am writing to acknowledge receipt of your 1992 irrigation questionnaires. You may disregard the January 29, 1993, Notice of Violation of Water Permit Nos. 444-2, 1257-2, 1258-2 & 1915-2 and 1992 Questionnaire Requirements.

The questionnaires were received in our office prior to the Water Management Board meeting, your name has been deleted from the agenda.

If you have any questions, please contact me.

Sincerely,

Genny McMath
Natural Resources Analyst
Water Rights Division
(605) 773-3352



444-2

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

February 14, 1996

444-2 ✓
1257-2
1258-2

Roger Waldo
Waldo Realty
PO Box 467
O'Neill, NE 68763-0467

Dear Mr. Waldo:

Enclosed, as you requested, are copies of Water Right Nos. 444-2, 1257-2 and 1258-2. These water rights are currently listed in the name of L-7 Ranch Company.

Also enclosed are partially completed *Notice of Transfer of Ownership* forms for use in filing ownership changes with the water rights. Please complete the forms in the area marked *to be transferred to (name & address)*.... The forms will need to be signed in the presence of a notary public by the new owner. Upon completion, please return the forms to our office with a required filing fee of \$2.50 each (total of \$7.50).

If you have any questions about the water rights or need assistance in completion of the transfer forms, please contact me.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352

enclosures

NOTICE OF TRANSFER OF OWNERSHIP

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



No. 444-2

Date: March 1st, 1996

I/We request that Water Right No. 444-2

formerly owned by: L-7 Ranch Company

be transferred to: (name & address) Tom O. Milligan and Barbara A. Milligan
P. O. Box 32
Hooper, NE 68031-0032 Telephone No. 402-654-3822

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

145 acres - SE 1/4 SW 1/4, S 1/2 SE 1/4 Sec 19; N 1/2 NE 1/4, SE 1/4 NE 1/4 Sec 30; E 1/2 NW 1/4 Sec 32; all in T38N, R28W

I/We understand that the validity of Water Right No. 444-2 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 attached to cover the filing fees as required under SDCL 46-2-13.

STATE OF NEBRASKA)

County of Dodge)

I/We Tom O. Milligan 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, and that I know of my own personal knowledge that the information herein stated is true.

Tom O. Milligan
(Signed)

Subscribed and sworn to before me this 1st day of March, 19 96.

 GENERAL NOTARY State of Neb. 
DUANE G. DIVIS
My Comm. Exp. July 28, 1998

Duane G. Divis
(Notary Public)

NOTE: Water permits may be canceled for nonconstruction within the five year construction period. 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.

RECEIPT

Division of Water Rights
South Dakota Department of Environment and Natural Resources

414839

Pierre, _____ March 7, 19 96

RECEIVED OF Tripp & Todd Title Co. for Tom & Barbara Milligan, P.O. Box 1832, Winner, SD
the following amount in fees for services rendered as provided for by law: 57580

Fee for Application for Permit No. _____ and to put water to beneficial use _____	to Appropriate Water, to construct	
Fee for Application for Permit No. _____ Use _____	to Appropriate Water, for Future	
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 _____	Water Right No. 444-2	
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)		
Total		2 50

By Jak. Hatch
Chief Engineer



444-2

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

March 18, 1996

No. 444-2
1257-2
1258-2

Tripp and Todd Title Company
P.O. Box 1831
Winner, SD 57580

Dear Sirs:

Enclosed are receipts in the amount of \$2.50 each which you paid for the transfer of Water Right Nos. 444-2, 1257-2 and 1258-2.

Our records now show Tom O. and Barbara A. Milligan as the owner of Water Right Nos. 444-2, 1257-2 and 1258-2.

Sincerely,

Cheryl F. Frost
Secretary
Water Rights Program
(605) 773-3352

enclosure

c: Tom O. and Barbara A. Milligan

NOT TO SCALE

103-L

32.4 7.5

OK
25.5

L7 Ranch Co.

32

38-28

W/R 444-2

26.8

103L

42.3

ARCHIE TATE

900 R pivot

136.0

6 AC

38-28

118-R

DP#

58.3

mees

w/r 444-2

Div. pt. is located
between two &

118-R

58.3

PPPS

030

L7
RANCH

Road

+

38

104-L

183.0

33.4

L7

RANCH

Pivot #1

WELL #1

27.2 AC

center

20.1

8.7

26.7

center

15.2 AC

Pivot #2

29

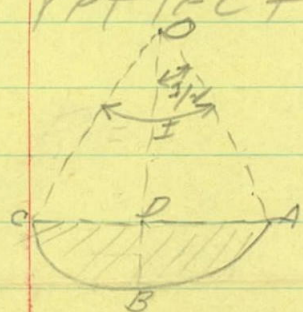
5.0

38 28

NOT TO SCALE

Computations for Appl. # 444-2 on Antelope Creek

There is a 48 inch Cnc P which carries the overflow from Mission Dam besides the auxillary spillway. This slope of this pipe is $s = 0.20$. An estimated flow 0.2' deep flows out of this pipe practically all year. There is considerable seepage thru the dam so the calculated flow thru the pipe will by no means reflect the total inflows.



$$R = OC = OB = OA = 24''$$

$$DB = .2' \text{ or } 2.4'' \text{ (estimated)}$$

$$\cos \frac{I}{2} = \frac{21.6}{24} = .9000$$

$$\frac{I}{2} = 25^{\circ} 51' \quad I = 51^{\circ} 42' \text{ or } 51.7^{\circ}$$

$$\text{Arc } L = \frac{51.7^{\circ}}{360^{\circ}} \times 2 \times 3.1416 \times 24 = .1436 \times 6.2832 \times 24 = 21.65''$$

$$DA = \sqrt{24^2 - 21.6^2} = \sqrt{576 - 466.56} = \sqrt{109.44} = 10.44$$

$$A = (24 \times 3.1416 \times .1436) - \left(\frac{10.8}{21.6} \times 20.88 \right) =$$

$$= 260.2 - 225.50 = 34.7 \text{ in}^2 \text{ or } \frac{34.7}{144} = .24 \text{ ft}^2$$

$$R = \frac{A}{P} = \frac{34.7}{21.65} = 1.6$$

$$V = \frac{1.486}{.015} \times 1.6^{\frac{2}{3}} \times \sqrt{.2} = 99.07 \times 1.368 \times .45 = 135.43 \text{ in/sec}$$

$$\text{or } \frac{135.43}{12} = 11.29 \text{ ft/sec}$$

$$Q = .24 \times 11.29 = 2.71 \text{ cfs}$$

undetermined seepage thru the Dam.

The only USGS
reading on Antelope
Creek was taken
in the SW $\frac{1}{4}$ Sec 28, T38N, R26W
near Hidden timber and
reflected a flow
of 1.65 cfs. This reading was
taken on Oct. 30, 1952

WATER RIGHTS OF RECORD ON ALTELOPE CREEK (KEYA PAHA RIVER)

<u>Appl.No</u>	<u>Name of Applicant</u>	<u>Amount of Water Claimed</u>	<u>Location of Diversion Point</u>	<u>Status</u>
137-2	Nels Nelson	1.66	NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 7	suspended
138-2	Olof Nelson	1.66	Twp 38N, R27W SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 15	7/12/1912 suspended
251-2	Rosebud Boarding School	0.5 ✓	Twp 38N, Rge 27W 2 points in the SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 3,	2/12/1912 Water License issued 5/8/40
273-2	Rosa C. Clausen George H. Clausen Fred E. Einspahr	0.64 ✓	Twp 28N, R28W NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 23, Twp 38N, Rge 27W	Permit issued 5/8/40
274-3	Jay H. Tate	0.714 ✓	NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 30 Twp 38N, Rge 26W	Permit issued 4/19/38
314-2	C. R. Clinkenbeard	1.17	NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 19 Twp 38N, Rge 28W	Cancelled
334-2	Peter & Rosa Clausen	2.40	SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 6 Twp 38N, Rge 28W	Abandon 6/30/55
335-2	Peter & Rosa Clausen	0.85	NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 6, Twp 38N, Rge 28W	Abandon 6/30/55
336-2	Peter & Rosa Clausen	0.93	SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 7, Twp 38N, Rge 28W	Abandon 6/30/55
394-2	Archie H. Tate	1.17 ✓	NE $\frac{1}{4}$ SW $\frac{1}{4}$ SEC 19 Twp 38N, Rge 28W	Permit issued 6/12/53
417-2	Peter Clausen and Rosa Clausen	4.18 ✓	SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 6, Twp 38N, Rge 28W and SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 7, Twp 38N, Rge 28W.	Permit issued

Total water which is possibly appropriated
and still in use.

7.20 c.f.s.

March 16, 1957

STREAM DATA

7.90 0+00 W.S.

6.3 7.9 10.0 10.5 10.0 7.9 6.3
~~9.75~~ 6 17.5 9.75 11.50 19.5
 0 8

Water 7.5 wide

3.8 7.6

7.87 1+00 W.S.

7.76 2+00

4.8 9.7 10.0 9.7 4.8
~~4.0~~ 4.5 2 4.5 10 4.5 10
 0 5.5 10 14.5 2.0

Water 9.0 wide

4.5

Same H.I.

stream Channel meandering
 clean of brush $n = 0.06$?

estimated velocity 1'/sec to
 1 1/2'/sec (check made with float
 and watch)

This N-value should be
 about .04
 low

NEAR THE NW COR. 1/4 3, BETWEEN SPCS 2 & 4, T58N, R28W
At the SE Corner of Mission, S. Dak.

PLAN
of
PROPOSED BRIDGE SITE

Mission-Valentine Road
Scale 1"=50' Hor. 1"=5' Vertical
Engineer C.F. Malvin

Transposed 4/25/57 Low

970

965

H.W. 1931 Elev. 967.3

Note: This H.W. mark was established when
the Fish and Game dam, 1 mile above bridge site
broke in 1931

Normal Water Level
T. 102' 960.9

BM #2A.
Elev. 960.57
on PT Hub 33' Left.
of Sta. 11+16.5

12+00

13+00

14+00

15+00

16+00

17+00

18+00

19+00

$$\begin{aligned} A &= 3.8 \\ P &= 14.04 \\ \frac{A}{P} &= \frac{14.04}{3.8} = 3.7 \\ S &= .0035 \\ N &= .040 \text{ (assumed)} \\ V &= \frac{2103}{.040} = 5.26 \\ Q &= 3.8 \times 5.26 = 19.99 \text{ cfs} \end{aligned}$$

W.L. 200' 960.2

Antelope Cr.

W.L. 100' 960.5

17+00

16+61

16+30 W.L. 960.9

16+18 W.L. 960.9

16+00

15+89

W.L. 100' 961.2

W.L. 200' 961.6

PLAN AND PROFILE

A profile of the crossing should be shown extending several hundred feet each side of the bridge site. This profile should show the present and proposed grade lines, all vertical curves and the proposed elevation of the bridge floor.

Cross sections should be taken at least every fifty feet across the stream at right angles to the roadway and especially at points where abutments or piers are likely to be located.

An accurate location of all soundings and a sketch showing types and depths of materials, should be given.

Give the location, description and elevation of all bench marks.

Show the present and proposed alignment together with all fences, trees, buildings and other topographical features.

On skewed crossings, the angle of skew should be shown together with a profile at right angles with the direction of high water flow.

Show the course of the stream 250 feet above and below the site and indicate the water edges accurately.

Give the direction of flow and the elevation of the water surface at the site and 100 and 200 feet above and below the site.

Show points on the plan where floods are likely to scour the banks or bed of the stream together with any information as to any pot holes at or near the site. Indicate where wing walls should be longer than that shown on the standards.

Give stationing and elevation of at least two points as well as the vertical and horizontal scales.

Give full data on the structure in place together with a sketch showing the size and dimensions of all parts of the structure. Attach photographs if possible.

State whether the stream is a river, creek, drainage ditch, ravine or dry run.

Give the kind of material available for backfilling.

State whether the water at the time of the survey is above, at or below normal stage and give its elevation.

Make a thorough study up and downstream to determine whether there are or will be conditions developing which will increase the gradient of the stream channel.

Bridge over Antelope Creek Section 55 Township 38 Range 28
Station 15± Federal Aid, State Aid or County Project No. _____
Located Approx. 1/4 mile from Mission on the Nearest RR is at Wood or possibly Nebraska Railroad
Name and number of the State or County Highway 308A. Todd N.R.H.
Survey made by C.F. Malvin Address White River
Date 1934

DESIGN AND COST DATA

Locator will not fill this in

Opening required _____ Opening furnished _____
Superstructure _____ Substructure _____
El. Rdwy. _____ H.W. _____ L.W. _____ F.L. _____ Footings _____
Designed by _____ Traced by _____ Checked by _____
Bridge sheet received _____ Plans finished _____

ITEM	UNIT	TOTAL	UNIT COST	TOTAL COST
CONCRETE CL. A	C. Y.			
CONCRETE CL. H. R.	C. Y.			
STEEL REINFORCEMENT	LB.			
STEEL STRUCTURAL	LB.			
PILING, TEST	EA.			
PILING	LIN. FT.			
TIMBER	M.F.B.M.			
EXCAVATION STR.	C. Y.			
EXCAVATION UNCLASS.	C. Y.			
DATE	TOTAL			

Contract let _____ Total contract price \$ _____
Date actual work commenced _____ Date contract completed _____

- Is stream subject to sudden rises _____
- Frequency, duration and season of floods Summer, short lived, infrequent
- Approximate velocity of high water 5 ft./sec (approx. - cal.)
- Features causing unusual high waters Dam breaks, cloud bursts, Excessive snows
- Amount and character of ice and drift No drift, amount of ice negligible
- Are ice jams to be feared No
- Elevation at which ice goes out 960.9
- Elevation at which highest drift occurs No drift
- Do banks or bed show scour very little
- Is stream cutting, remaining stationary or silting remain about stationary
- Unusual features causing erosion None
- Is stream inclined to meander No
- Will bank protection be necessary No (presence of willows removes danger of bank erosion)
- Is a channel change necessary No Possible _____ Cost _____

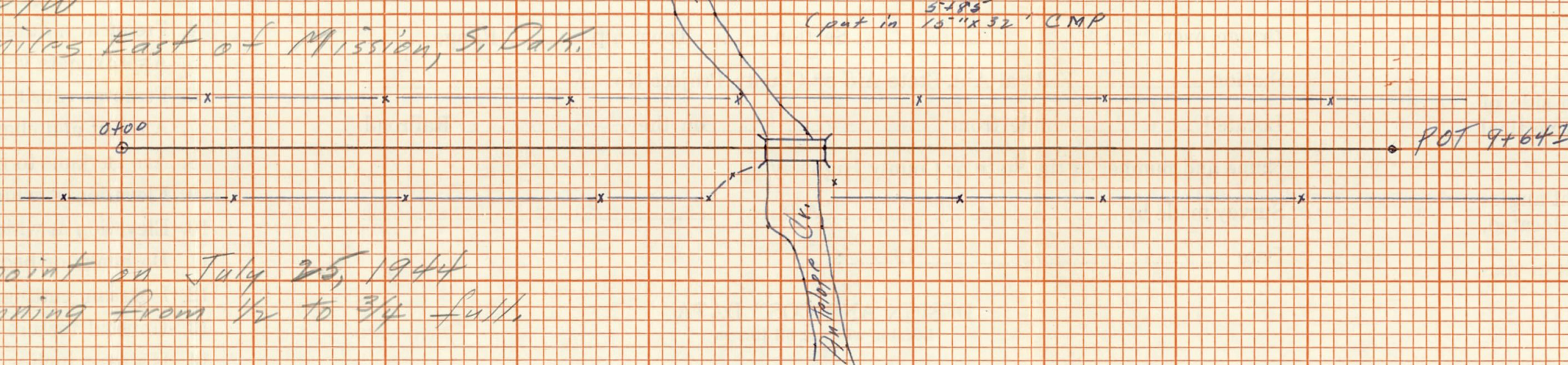
GENERAL DATA

- Area of drainage basin 130,000 Character Prairie
- Size, distance and location of other structures on same stream 32' wood bridge upstream 2000 feet
- Does old structure have sufficient opening No
- Is location such as to require special treatment from the aesthetical standpoint _____
Why _____
- Will sidewalks be necessary No If only one which side ✓
- Can new structure be built without interference from old Yes
- Will old structure have to be removed No
- Can traffic be detoured without special construction Yes
- Will contractor be compelled to maintain traffic No
- Recommendations. Type ✓ Span ✓ Roadway 24' Rd.

MATERIALS

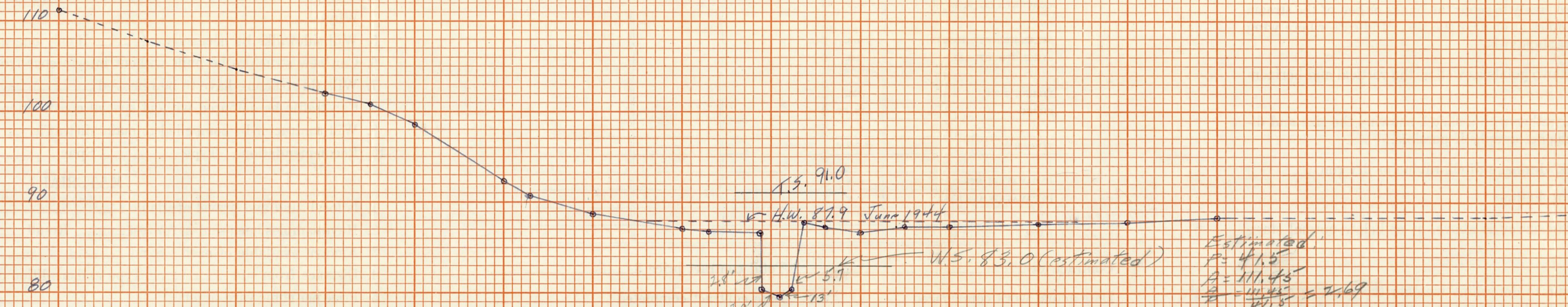
- Is local sand and gravel available No
- Have samples been sent in for test No Result _____
- Amount available of each. Sand None Gravel None
- Distance from site _____ Type and condition of haul roads ✓
- Price per cubic yard in pit ✓

Drillings Nos. 15 & 24, 1961, NW
 About 3 1/2 miles South and 9 miles East of Mission, S. Dak.



A photograph taken at this point on July 25, 1944
 showed the channel to be running from 1/2 to 3/4 full.

Transposed 2/25/57 L.H.



Estimated:
 $P = 41.5$
 $A = 111.43$
 $\frac{A}{P} = \frac{111.43}{41.5} = 2.69$

PLAN AND PROFILE

A profile of the crossing should be shown extending several hundred feet each side of the bridge site. This profile should show the present and proposed grade lines, all vertical curves and the proposed elevation of the bridge floor.

Cross sections should be taken at least every fifty feet across the stream at right angles to the roadway and especially at points where abutments or piers are likely to be located.

An accurate location of all soundings and a sketch showing types and depths of materials, should be given.

Give the location, description and elevation of all bench marks.

Show the present and proposed alignment together with all fences, trees, buildings and other topographical features.

On skewed crossings, the angle of skew should be shown together with a profile at right angles with the direction of high water flow.

Show the course of the stream 250 feet above and below the site and indicate the water edges accurately.

Give the direction of flow and the elevation of the water surface at the site and 100 and 200 feet above and below the site.

Show points on the plan where floods are likely to scour the banks or bed of the stream together with any information as to any pot holes at or near the site. Indicate where wing walls should be longer than that shown on the standards.

Give stationing and elevation of at least two points as well as the vertical and horizontal scales.

Give full data on the structure in place together with a sketch showing the size and dimensions of all parts of the structure. Attach photographs if possible.

State whether the stream is a river, creek, drainage ditch, ravine or dry run.

Give the kind of material available for backfilling.

State whether the water at the time of the survey is above, at or below normal stage and give its elevation.

Make a thorough study up and downstream to determine whether there are or will be conditions developing which will increase the gradient of the stream channel. Such conditions

Bridge over Antelope Creek Section 23d Township 38N Range 27W
Station Federal Aid, State Aid or County Project No. W.E.R. 12-A
Located 3.5 mile from wood on the C. & N.W. Railroad
Name and number of the State or County Highway
Survey made by C. King Address Winnier
Date Oct. 24 1944:

DESIGN AND COST DATA
Locator will not fill this in

Opening required Opening furnished
Superstructure Substructure
El. Rdwy. H.W. L.W. F.L. Footings
Designed by Traced by Checked by
Bridge sheet received Plans finished

ITEM	UNIT	TOTAL	UNIT COST	TOTAL COST
CONCRETE CL. A	C. Y.			
CONCRETE CL. H. R.	C. Y.			
STEEL REINFORCEMENT	LB.			
STEEL STRUCTURAL	LB.			
PILING, TEST	EA.			
PILING	LIN. FT.			
TIMBER	M.F.B.M.			
EXCAVATION STR.	C. Y.			
EXCAVATION UNCLASS.	C. Y.			
DATE	TOTAL			

Contract let Total contract price \$.....
Date actual work commenced Date contract completed

4. Frequency, duration and season of floods Spring & Summer
5. Approximate velocity of high water 5 mi. per hr.
6. Features causing unusual high waters Rapid runoff
7. Amount and character of ice and drift Considerable
8. Are ice jams to be feared Yes (stream flows the year round)
9. Elevation at which ice goes out
10. Elevation at which highest drift occurs
11. Do banks or bed show scour Yes
12. Is stream cutting, remaining stationary or silting Cutting
13. Unusual features causing erosion Sandy soil
14. Is stream inclined to meander Yes
15. Will bank protection be necessary No
16. Is a channel change necessary No Possible Cost

GENERAL DATA

1. Area of drainage basin Character Hilly
2. Size, distance and location of other structures on same stream
3. Does old structure have sufficient opening No
4. Is location such as to require special treatment from the aesthetical standpoint No
Why
5. Will sidewalks be necessary No If only one which side
6. Can new structure be built without interference from old No
7. Will old structure have to be removed Yes
8. Can traffic be detoured without special construction No
9. Will contractor be compelled to maintain traffic
10. Recommendations. Type Span Roadway

MATERIALS

1. Is local sand and gravel available No
2. Have samples been sent in for test Result
3. Amount available of each. Sand Gravel
4. Distance from site Type and condition of haul roads
5. Price per cubic yard in pit