



NOTICE
These forms are the
property of the State
of Montana and must
be returned.

STATE OF MONTANA
STATE ENGINEERS OFFICE
Water Resources Survey

FORM WR-1-2M 12-47

Code No. 22 B

County Custer

T. 4N R. 47

Name of Land Owner Baskerville, Florence L Address 616 Yellowstone, Miles City
Name of Operator Reeves, Earl Address Miles City (T.R.S.)

Part A

**TO BE FILED BY THOSE OBTAINING IRRIGATION WATER FROM
A DITCH COMPANY OR IRRIGATION DISTRICT**

1. Water is delivered by: _____
Name of Ditch, Ditch Company or District Supplying Water
2. State the number of acres you irrigate under this system. _____ Shares you hold _____
3. If you obtain water from more than one Company, give the number of shares, acres irrigated and the name of the Company under "Remarks." If you obtain water from a Ditch Company and also have a private system fill in both Part A and Part B.

Part B

**TO BE FILED BY THOSE WHO HAVE A PRIVATE DITCH, PUMP OR IRRIGATION SYSTEM
or those who have a private water right under a Ditch Company**

4. In what year was this land first irrigated? Date _____
5. Give the name of the original appropriator (first user): J. P. Huxtable
6. Give the date appropriated 4/6/03 Amount filed on: Miners Inches 1000 C. F. S. _____
7. State the total number of acres irrigated under this system: _____
8. Give the point of diversion: SW 1/4 NE 1/4 Section 22 Township 4N Range 47

Part C

TO BE FILED BY ALL WATER USERS IN ADDITION TO PART A OR PART B

9. Source of Water: Jack Creek
Name of stream or lake from which water is originally diverted
10. Water is obtained by: (Check one) Gravity ☒ Pumping _____ Other _____
11. What is the greatest number of acres you have irrigated? 104 Date 1910
12. How many acres did you irrigate in 1947? (Crop and pasture) 56.0
13. State the total number of additional acres that could be irrigated by increasing the water supply, land leveling, etc. 48.0 This land is under what ditch? Jack C. flood ditch
14. How many acres of seeped land do you have which could be drained and put into production? _____
15. What is the condition of your irrigation system? Fair
16. Is your water supply adequate? Yes _____ No ☒ Explain It is not
17. REMARKS: _____

NOTE: The foregoing questions apply only to irrigated land shown on this plat.

DESCRIPTION AND MAP OF FARM

18. Legal Description of this Farm Sec 14, 143, SE 1/4 NW 1/4, SW 1/4, E 2, Sec 22



IRRIGATED LAND



NON-IRRIGATED LAND

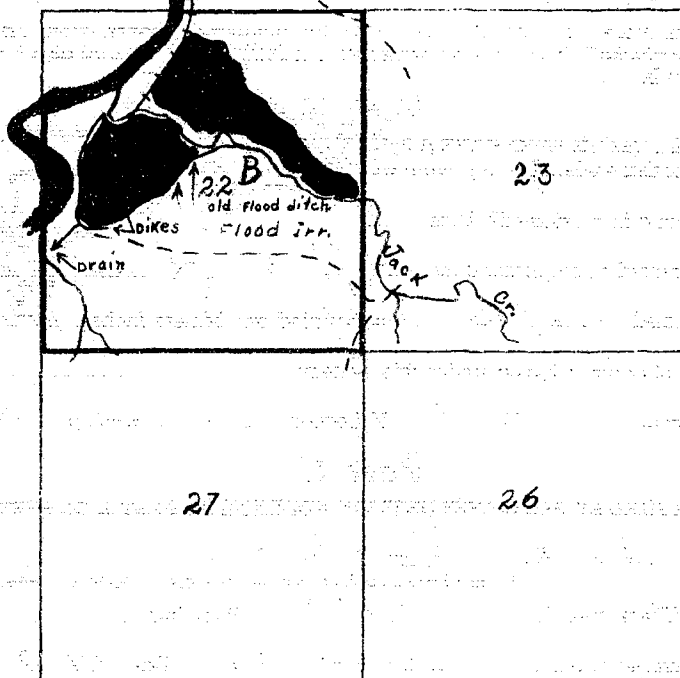


Potential Land

North

Tongue River

old Incompleted N & S R.R. Grade



Ownership covers
only irrigated land.
All ownership for
dry land not shown.

South

19. If the above land is irrigated from more than one ditch please give the acreage under each ditch in 19A and indicate the location of the land irrigated from each on the above map.

19A. Ditch: Jack Creek flood ditch Acres: 56.0

Ditch: _____ Acres: _____

Information supplied by:

Name See attached form Address _____ Date _____

REMARKS: _____

If you cannot answer all of the questions on this form answer as many as you can and return the form to us as soon as possible.

STATE ENGINEERS OFFICE
Water Resources Survey

COUNTY Custer

FILE NO. 49-T4N-R47E

Owner Baskerville, Florence L. Address 616 Yellowstone Miles City
90 Earl Reeves
AAA Owner _____ Address _____
Operator Reeves, Earl Address Miles City, (Tongue River Stage)
New Owner _____ Address _____
New Operator _____ Address _____

Assessment Record None

Assessed Acreage 0

Legal Description of This Farm Lots 1 & 3, SE⁴ NW⁴, SW⁴ E², Sec. 22; T. 4N-R. 47E

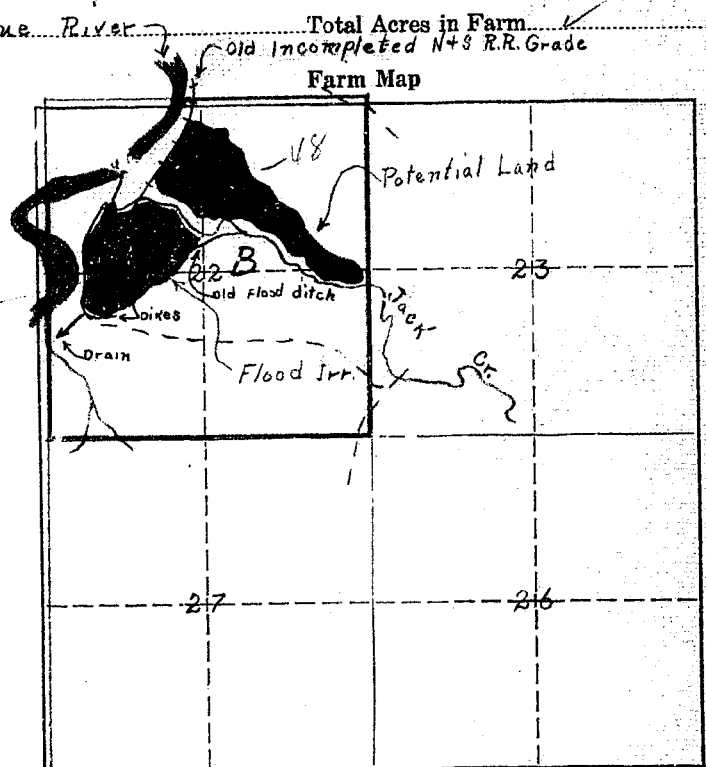
Code Number 22B Total Acres in Farm ✓
Photo No. Ma 13-176 old Incompleted N+S R.R. Grade
AAA Contract No. _____ Farm Map
AAA Total Cropland Acreage _____
App. No. 934 glar
Decree No. _____
Land is located in

Twp. 4N Rge. 47E Twp. _____ Rge. _____

Twp. _____ Rge. _____ Twp. _____ Rge. _____

Filed in Twp. 4N Rge. 47E

Remarks _____



Ownership, correct
only irrigated land.
All ownership for
dry land not shown.

Tongue River Basin

Farm Checked

STATE OF MONTANA

Code No. 22BBy Joe, JimSTATE ENGINEER'S OFFICE
WATER RESOURCES SURVEYCounty CusterArea GarlandT 4N R 47E Sec 22Date 6/5/47Photo No. MA-13-176Legal Land Owner Reeves, EarlAddress Tongue River StageOperator Same

Address

Water is delivered by:

Federal Project

Pres.

Pot.

Ditch Company

Pres.

Pot.

Irrigation District

Pres.

Pot.

Private System ☒

Pres.

Pot.

Maxim.

48

56

39

Totals

Flood ☒

Pump

Reservoir ☒

Gravity

Size and Capacity, Pump, etc. ☒Original Appropriator, Company ☒

App. No.

Original Appropriator, Private J.P. HuxtableApp. No. 934

(Show date of appropriation under Remarks)

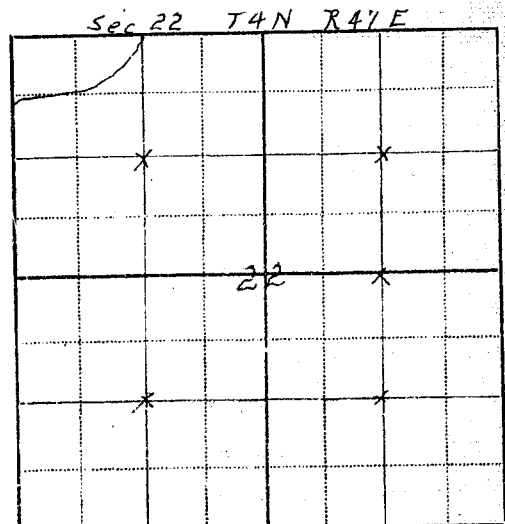
Is the system an extension of another system?

Yes ☒ No ☒

Is all land irrigated from one system?

Yes ☒ No ☒

(If No, show break down on map)

Source of Water Flood water from Jack Creek,Acres Irrigated 1946 56 acresPotential Acres 34 Seeped 0Explain need dam and dikes to irr on n. side of Jack CrkCondition of System FairAdequate Supply ☒ Yes ☒ No ☒Explain depends on Rain in Jack CreekTopography Tongue River bottom landInformation From Earl ReevesRemarks 934-4/16/09

original works put in by Huxtable included one or two dams in Jack Creek and dykes to spread the water. These works are now out but water still spreads out on land and is controlled by dykes around lower side of field and drain into river. Old N.S. rr. bed is used as dyke. Flooded land is all S.W. of Jack Crk. but there is 34 acres (AAA fig.) N.E. side of Jack Crk. which could be irrigated by putting dam in crk.



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STATE OF MONTANA
STATE ENGINEERS OFFICE

Water Resources Survey

FORM WR-1-2M 12-47

Code No. 320

County Custer

T. 4N R. R47

Name of Land Owner P. T. Bennett Address Barland, Mont.

Name of Operator _____ Address _____

Part A

TO BE FILED BY THOSE OBTAINING IRRIGATION WATER FROM
A DITCH COMPANY OR IRRIGATION DISTRICT

1. Water is delivered by: _____
Name of Ditch, Ditch Company or District Supplying Water
2. State the number of acres you irrigate under this system _____ Shares you hold _____
3. If you obtain water from more than one Company, give the number of shares, acres irrigated and the name of the Company under "Remarks." If you obtain water from a Ditch Company and also have a private system fill in both Part A and Part B.

Part B

TO BE FILED BY THOSE WHO HAVE A PRIVATE DITCH, PUMP OR IRRIGATION SYSTEM
or those who have a private water right under a Ditch Company

4. In what year was this land first irrigated? Date See attached filings
5. Give the name of the original appropriator (first user): _____
6. Give the date appropriated _____ Amount filed on: Miners Inches _____ C. F. S. _____
7. State the total number of acres irrigated under this system: _____
8. Give the point of diversion: _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ Section _____ Township _____ Range _____

Part C

TO BE FILED BY ALL WATER USERS IN ADDITION TO PART A OR PART B

9. Source of Water: H. addow Creek
Name of stream or lake from which water is originally diverted
10. Water is obtained by: (Check one) Gravity ☒ Pumping _____ Other _____
11. What is the greatest number of acres you have irrigated? ? Date _____
12. How many acres did you irrigate in 1947? (Crop and pasture) 12.0
13. State the total number of additional acres that could be irrigated by increasing the water supply, land leveling, etc. 0 This land is under what ditch? _____
14. How many acres of seeped land do you have which could be drained and put into production? 0
15. What is the condition of your irrigation system? Fair
16. Is your water supply adequate? Yes ☒ No ☐ Explain Flood Dam
17. REMARKS: _____

See field form filed in
T3N R47E

Over

NOTE: The foregoing questions apply only to irrigated land shown on this plat.

DESCRIPTION AND MAP OF FARM

18. Legal Description of this Farm S2, Sec 32, T4N R47E

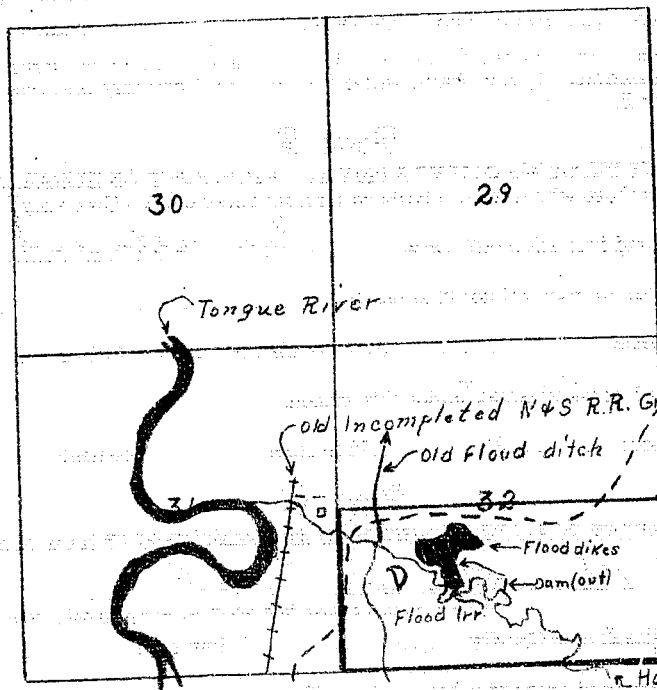
☒ IRRIGATED LAND

☐ NON-IRRIGATED LAND

North

West

East



South

Ownership shown
only irrigated land.
All ownership for
dry land not shown.

19. If the above land is irrigated from more than one ditch please give the acreage under each ditch in 19A and indicate the location of the land irrigated from each on the above map.

19A. Ditch: Haddow Creek flood irr. Acres: 12.0

Ditch: _____ Acres: _____

Information supplied by:

Name P. T. Bennett Address _____ Date 2/8/47

REMARKS: _____

If you cannot answer all of the questions on this form answer as many as you can and return the form to us as soon as possible.

STATE ENGINEERS OFFICE
Water Resources Survey

COUNTY Custer

FILE NO. 49-T. 4N-R47E

Owner Bennett, P.T. Address Garland, Montana

AAA Owner _____ Address _____

Operator " " Address " "

New Owner _____ Address _____

New Operator _____ Address _____

Assessment Record None

Assessed Acreage 2

Legal Description of This Farm S² Sec. 32; T. 4N-R.

Total Acres in Farm ✓

Code Number 32D

Photo No. Ma 32-63

AAA Contract No. _____

AAA Total Cropland acreage _____

App. No. 783, 785, (1910 on field form?)

Decree No. _____

Land is located in

Twp. 4N Rge. 47E Twp. 3N Rge. 47E

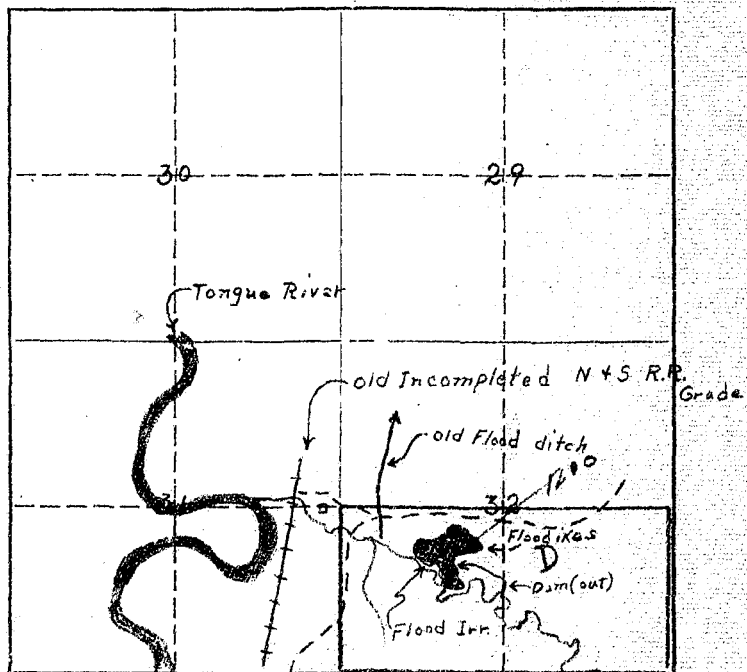
Twp. _____ Rge. _____ Twp. _____ Rge. _____

Filed in Twp. 4N Rge. 47E

Remarks also owns some land

near Sec. 6; T. 3N-R. 47E

Farm Map



Ownership covers
only irrigated land.
All ownership for
dry land not shown.

Tongue River Basin



NOTICE
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STATE OF MONTANA STATE ENGINEERS OFFICE

FORM WR-1-2M 12-47

Code No. 12A-13A

County Custer

T. 4N R. 47E

Water Resources Survey

Name of Land Owner Glenn H. Birkle Address Wilder City, T.R.S.

Name of Operator _____ Address _____

Part A

TO BE FILED BY THOSE OBTAINING IRRIGATION WATER FROM A DITCH COMPANY OR IRRIGATION DISTRICT

1. Water is delivered by: _____
Name of Ditch, Ditch Company or District Supplying Water
2. State the number of acres you irrigate under this system _____ Shares you hold _____
3. If you obtain water from more than one Company, give the number of shares, acres irrigated and the name of the Company under "Remarks." If you obtain water from a Ditch Company and also have a private system fill in both Part A and Part B.

Part B

TO BE FILED BY THOSE WHO HAVE A PRIVATE DITCH, PUMP OR IRRIGATION SYSTEM or those who have a private water right under a Ditch Company

4. In what year was this land first irrigated? Date No data
5. Give the name of the original appropriator (first user): _____
6. Give the date appropriated _____ Amount filed on: Miners Inches _____ C. F. S. _____
7. State the total number of acres irrigated under this system: _____
8. Give the point of diversion: _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ Section _____ Township _____ Range _____

Part C

TO BE FILED BY ALL WATER USERS IN ADDITION TO PART A OR PART B

9. Source of Water: No name Couleer
Name of stream or lake from which water is originally diverted
10. Water is obtained by: (Check one) Gravity ☒ Pumping ☒ Other _____
11. What is the greatest number of acres you have irrigated? ? Date _____
12. How many acres did you irrigate in 1947? (Crop and pasture) 5.0
13. State the total number of additional acres that could be irrigated by increasing the water supply, land leveling, etc. 102.0 This land is under what ditch? Pump ditch from Tongue R.
6.00 (Flood Irrigation - Couleer)
14. How many acres of seeped land do you have which could be drained and put into production? _____
15. What is the condition of your irrigation system? I flood fair
16. Is your water supply adequate? Yes ☒ No ☒ Explain On Tongue no
17. REMARKS: on Couleer,
Also 6.0 acres of potential by flood from
no name Couleer

Over

NOTE: The foregoing questions apply only to irrigated land shown on this plat.

DESCRIPTION AND MAP OF FARM

18. Legal Description of this Farm

See attached form



IRRIGATED LAND



NON-IRRIGATED LAND

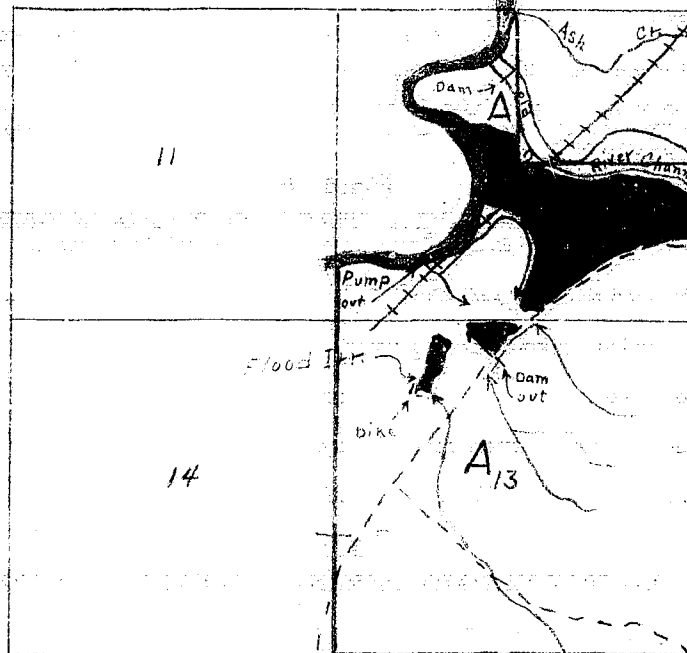


Potential Land

North

old Incompleted N+S R.R. grade

Tongue River



West

East

South

Ownership covers
only irrigated land.
All ownership for
dry land is shown.

19. If the above land is irrigated from more than one ditch please give the acreage under each ditch in 19A and indicate the location of the land irrigated from each on the above map.

19A. Ditch: *No name Coulee flood ditch* Acres: *5.0*

Ditch: _____ Acres: _____

Information supplied by:

Name *See attached form* Address _____ Date _____

REMARKS: _____

If you cannot answer all of the questions on this form answer as many as you can and return the form to us as soon as possible.

STATE ENGINEERS OFFICE
Water Resources Survey

COUNTY Custer

FILE NO. 49-T-4N-R-47E

Owner Bickle, Glenn H Address Miles City-Tongue River Stage

AAA Owner Address

Operator " " Address " " "

New Owner Address

New Operator Address

Assessment Record None

Assessed Acreage 0

Legal Description of This Farm Lot 5, — the part of the NE¹ east of Tongue River;
lots 6, 8, 9, SE¹, Sec. 12, all of Sec. 13, T. 4N-R. 47E

Code Number 12A, 13A

Photo No. Ma 13-176

AAA Contract No.

AAA Total Cropland Acreage

App. No. N.E. Record by Discript.

Decree No.

Land is located in

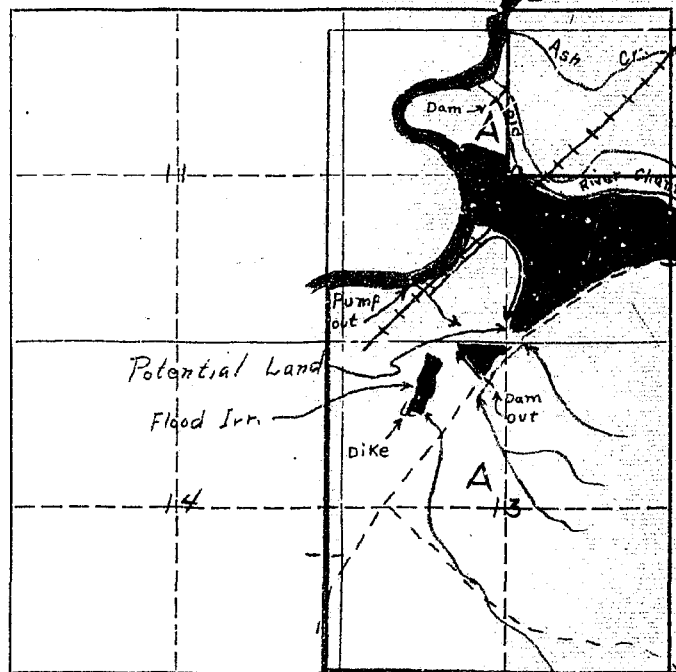
Twp. 4N Rge. 47E Twp. Rge.

Twp. Rge. Twp. Rge.

Filed in Twp. 4N Rge. 47E

Remarks

Total Acres in Farm 0
old Incompleted NYS RR. Grade
Farm Map (Tongue River)



Ownership covers
only irrigated land.
All ownership for
dry land not shown.

Tongue River Basin

47E
River Stage

Upper River



Farm Checked

STATE OF MONTANA

FORM 7-1 - GAZETTE 1965-2M-1-47

By Collins & Joe

STATE ENGINEER'S OFFICE

Code No. 12A, 13A

Area Tongue

WATER RESOURCES SURVEY

County Custer

Date 5/23/47

T. 4N R. 47E Sec. 12, 13

Legal Land Owner Bickle, G. H.

Photo No. MA 13-176

Address Wile City Tongue River Stage

Operator Same

Address

Water is delivered by:

Federal Project Tongue River Pump ditch

Pres. 0 Pot. 102.0

Ditch Company

Pres. Pot.

Irrigation District

Pres. 5.0 Pot. Max.

Private System Flood

Pres. 5.0 Pot. 6.0

Totals

Flood ☒ Pump out Reservoir Gravity

Size and Capacity, Pump, etc. 8" Submerged - 10' lift Tractor

Original Appropriator, Company App. No.

Original Appropriator, Private None App. No. (Show date of appropriation under Remarks)

Is the system an extension of another system? Yes No

Is all land irrigated from one system? Yes No

(If No, show break down on map)

Source of Water No name Creek

Acres Irrigated 19 46 50

Potential Acres Seeped 0

Explain

Condition of System fair

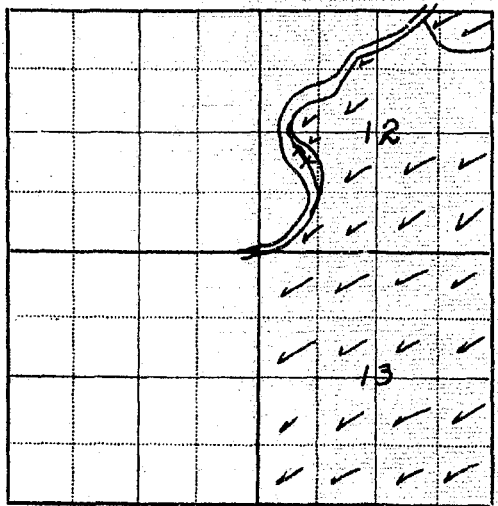
Adequate Supply Yes No ☒

Explain flood only

Topography

Information From C. H. Bickle

Remarks pump not in use, no intention at this time





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STATE OF MONTANA
STATE ENGINEERS OFFICE
Water Resources Survey

FORM WR-1-2M 12-47

Code No. 14B

County Center

T. 4N R. 47E

Name of Land Owner Chas. H. Hunt Address Wilm City - T. R. S.

Name of Operator _____ Address _____

Part A

**TO BE FILED BY THOSE OBTAINING IRRIGATION WATER FROM
A DITCH COMPANY OR IRRIGATION DISTRICT**

1. Water is delivered by: _____
Name of Ditch, Ditch Company or District Supplying Water
2. State the number of acres you irrigate under this system. _____ Shares you hold _____
3. If you obtain water from more than one Company, give the number of shares, acres irrigated and the name of the Company under "Remarks." If you obtain water from a Ditch Company and also have a private system fill in both Part A and Part B.

Part B

**TO BE FILED BY THOSE WHO HAVE A PRIVATE DITCH, PUMP OR IRRIGATION SYSTEM
or those who have a private water right under a Ditch Company**

4. In what year was this land first irrigated? Date See attached filings
5. Give the name of the original appropriator (first user): _____
6. Give the date appropriated _____ Amount filed on: Miners Inches _____ C. F. S. _____
7. State the total number of acres irrigated under this system: _____
8. Give the point of diversion: _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ Section _____ Township _____ Range _____

Part C

TO BE FILED BY ALL WATER USERS IN ADDITION TO PART A OR PART B

9. Source of Water: Dry Creek, No name Coulee & Tongue R.
Name of stream or lake from which water is originally diverted
10. Water is obtained by: (Check one) Gravity ☒ Pumping ☒ Other _____
11. What is the greatest number of acres you have irrigated? 32 Date _____
12. How many acres did you irrigate in 1947? (Crop and pasture) 20
13. State the total number of additional acres that could be irrigated by increasing the water supply, land leveling, etc. 120 This land is under what ditch? Tongue R. pump ditch
14. How many acres of seeped land do you have which could be drained and put into production? 0
15. What is the condition of your irrigation system? Pump system out
16. Is your water supply adequate? Yes ☒ No ☒ Explain Yes in Tongue
17. REMARKS: Ant no in Coulee & Dry Creek,

NOTE: The foregoing questions apply only to irrigated land shown on this plat.

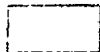
DESCRIPTION AND MAP OF FARM

18. Legal Description of this Farm

Lots 1, 5, 6, 8, 9, NW 25W 4, SE 4SW 4,
SE 2SE 4, Sec 14, T4N R47E.



IRRIGATED LAND



NON-IRRIGATED LAND



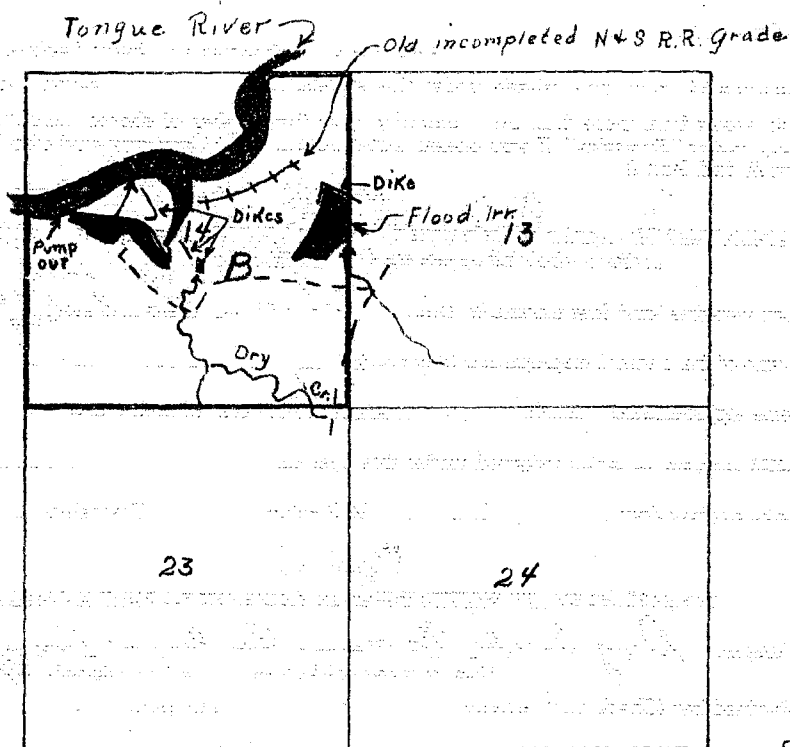
Potential Land

North

West

East

South



Ownership covers
only irrigated land.
All ownership for
dry land not shown.

19. If the above land is irrigated from more than one ditch please give the acreage under each ditch in 19A and indicate the location of the land irrigated from each on the above map.

19A. Ditch: Long Creek flood Acres: 8.0

Ditch: The name Center Flood Acres: 12.0

Information supplied by: Tongue River pump potential 12.0

Name See attached form Address _____ Date _____

REMARKS: _____

If you cannot answer all of the questions on this form answer as many as you can and return the form to us as soon as possible.

Farm Checked

STATE OF MONTANA

Code No. 14B, 11C.By Collins & Joe

STATE ENGINEER'S OFFICE

County CusterArea Tongue

WATER RESOURCES SURVEY

T. 4N R. 47E Sec. 11, 14Date 5/22/47Photo No. MA 13-176Legal Land Owner Hoot, Chas. H.Address Miles City TongueOperator Hoot, BobAddress same

Water is delivered by:

Federal Project	Pres.	Pot.
Ditch Company	Pres.	Pot.
Irrigation District	Pres.	Pot. <u>20</u>
Private System <u>Flood</u>	Pres. <u>20</u>	Pot. <u>20</u>
Totals		
Flood	Pump	Reservoir
Gravity		

Size and Capacity, Pump, etc.

Original Appropriator, Company App. No.

Original Appropriator, Private Flora B. Howard App. No. 2172

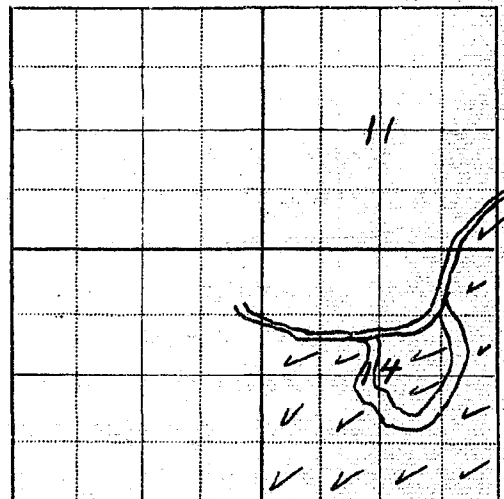
(Show date of appropriation under Remarks)

Is the system an extension of another system? Yes No ☒Is all land irrigated from one system? Yes ☒ No

(If No, show break down on map)

Source of Water No name creek & Dry CreekAcres Irrigated 19 46 35 20.0Potential Acres Flood 20 pump 14 Seeped 0Explain no pump in, ditches fairCondition of System flood system newAdequate Supply Yes No ☒Explain Flood onlyTopography Bottom & 1st terraceInformation From Bob Hoot

Remarks



(over)

Has no tractor at present to pump with.

Bob Heet says that his dad's first wife, Bessie Howard, took out an appropriation on this no name creek. Our records show a Flora B. Howard on a no name creek but he wasn't sure that this was the same person.

A neighbor, G. H. Bickle says that his lawyer could find no app. on this same creek.

STATE ENGINEERS OFFICE
Water Resources Survey

COUNTY ClusterFILE NO. 49-T4N-R47EOwner Haut, Chas. H. Address Miles City, (Tongue River Stage)

AAA Owner _____ Address _____

Operator Haut, Bob Address " "

New Owner _____ Address _____

New Operator _____ Address _____

Assessment Record NoneAssessed Acreage 0

Legal Description of This Farm lot 3, Sec. 11; lots 1, 5, 6, 8, 9, W²SW⁴, SE⁴SW⁴,
 S²SE⁴, Sec. 14, T. 4N-R. 47E

Total Acres in Farm ✓Code Number 14R, 11C (No Irrigation)Photo No. Ma 13-176

AAA Contract No. _____

AAA Total Cropland Acreage _____

App. No. 961; 2172

Decree No. _____

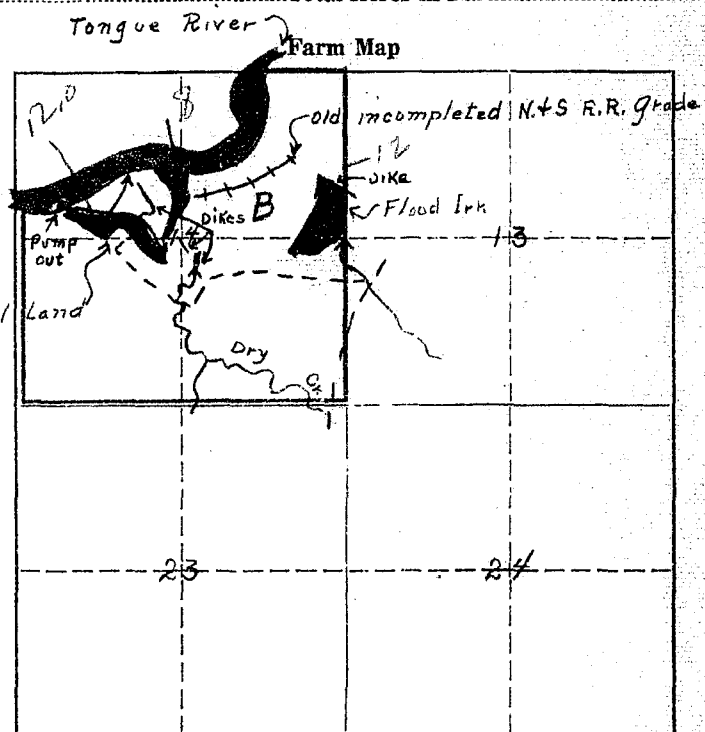
Land is located in

Twp. 4N Rge. 47E Twp. _____ Rge. _____

Twp. _____ Rge. _____ Twp. _____ Rge. _____

Filed in Twp. 4N Rge. 47E

Remarks _____



Ownership covers
 only irrigated land.
 All ownership for
 dry land not shown.

Tongue River Basin



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STATE OF MONTANA
STATE ENGINEERS OFFICE

Water Resources Survey

FORM WR-1-2M 12-47

Code No. 11 B-12 E

County Custer

T. 41Y R. R 41E

Name of Land Owner Carol & Elise Howard Address 117 N. Center St. Miles City

Name of Operator _____ Address _____

Part A

**TO BE FILED BY THOSE OBTAINING IRRIGATION WATER FROM
A DITCH COMPANY OR IRRIGATION DISTRICT**

1. Water is delivered by: _____
Name of Ditch, Ditch Company or District Supplying Water
2. State the number of acres you irrigate under this system _____ Shares you hold _____
3. If you obtain water from more than one Company, give the number of shares, acres irrigated and the name of the Company under "Remarks." If you obtain water from a Ditch Company and also have a private system fill in both Part A. and Part B.

Part B

**TO BE FILED BY THOSE WHO HAVE A PRIVATE DITCH, PUMP OR IRRIGATION SYSTEM
or those who have a private water right under a Ditch Company**

4. In what year was this land first irrigated? Date No data
5. Give the name of the original appropriator (first user): _____
6. Give the date appropriated _____ Amount filed on: Miners Inches _____ C. F. S. _____
7. State the total number of acres irrigated under this system: _____
8. Give the point of diversion: _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ Section _____ Township _____ Range _____

Part C

TO BE FILED BY ALL WATER USERS IN ADDITION TO PART A OR PART B

9. Source of Water: Plumbet Creek & Coulees
Name of stream or lake from which water is originally diverted
10. Water is obtained by: (Check one) Gravity ☒ Pumping _____ Other _____
11. What is the greatest number of acres you have irrigated? 7 Date _____
12. How many acres did you irrigate in 1947? (Crop and pasture) 161.0
13. State the total number of additional acres that could be irrigated by increasing the water supply, land leveling, etc. 0 This land is under what ditch? _____
14. How many acres of seeped land do you have which could be drained and put into production? 0
15. What is the condition of your irrigation system? Flood Dyke System, fair
16. Is your water supply adequate? Yes _____ No ☒ Explain Flood Dyke
17. REMARKS: _____

Perry J. McKay filed on dry creek
for lands in 12 & 13, but don't not think
it was for this land, but land South of
the Tongue River
Over

NOTE: The foregoing actions apply only to irrigated land shown on this plat.

DESCRIPTION AND MAP OF FARM

18. Legal Description of this Farm

See attached form

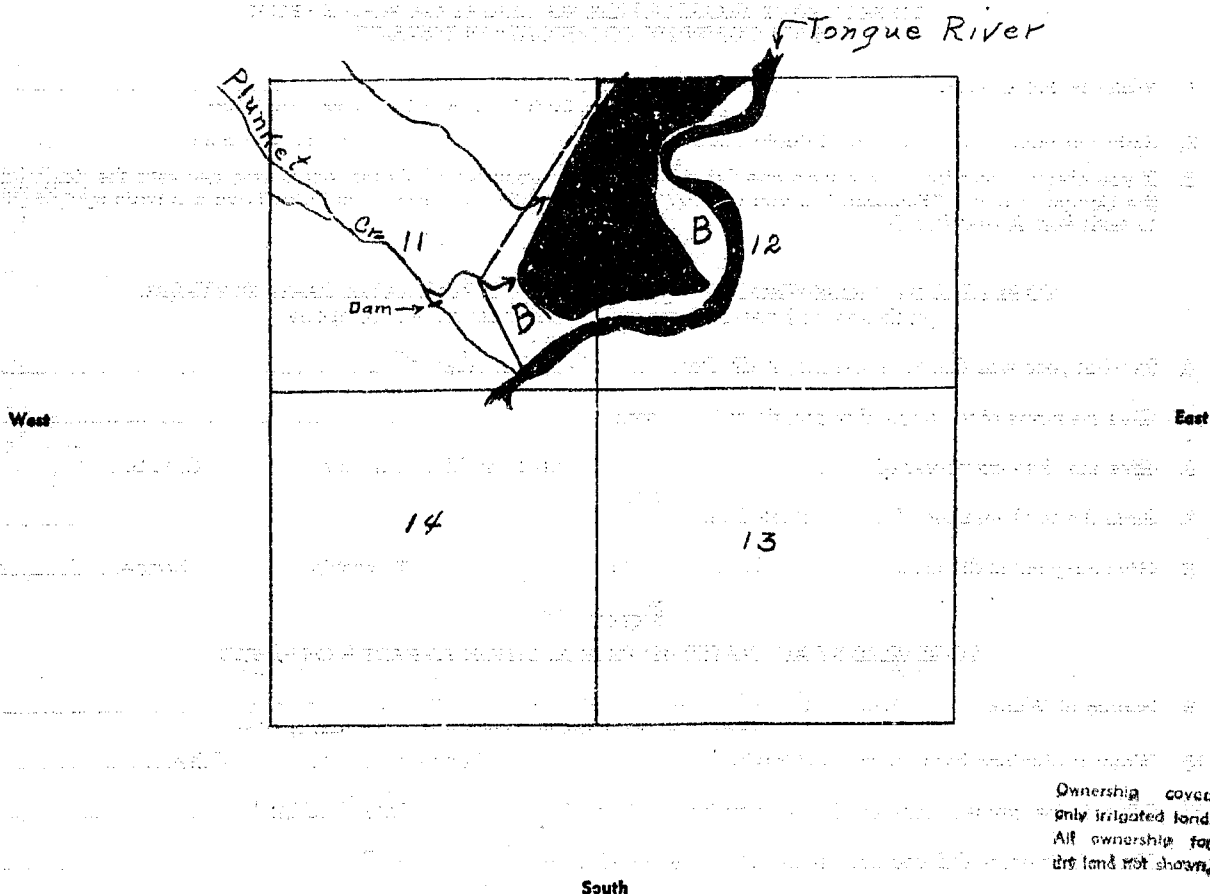


IRRIGATED LAND



NON-IRRIGATED LAND

North



Ownership covers
only irrigated land.
All ownership for
dry land not shown.

19. If the above land is irrigated from more than one ditch please give the acreage under each ditch in 19A and indicate the location of the land irrigated from each on the above map.

19A. Ditch: *Plunket Cr + Coulee flood Irr* Acres: *161.0*

Ditch: _____ Acres: _____

Information supplied by:

Name *Field survey* Address _____ Date *6/5/47*

REMARKS: *Johnson & Pauliat*

If you cannot answer all of the questions on this form answer as many as you can and return the form to us as soon as possible.

STATE ENGINEERS OFFICE
Water Resources Survey

COUNTY Cluster

FILE NO. 49-T-4N-R-47E

Owner Howard, Elise & Carol Address 117 N. Center St., Miles City

AAA Owner Address

Operator " " " Address " " "

New Owner Address

New Operator Address

Assessment Record None

Assessed Acreage 0

Legal Description of This Farm lots 3, 4, 7, NW 1/4, Sec. 12; Part of E 1/2 (Neels & Bounds)
of Sec. 11; T. 4N-R. 47E

Code Number 11B, 12B

Photo No. 42-13-176

AAA Contract No.

AAA Total Cropland Acreage

App. No. 538 - app. for

Decree No. other lands
in Sec 12-4-13

Land is located in

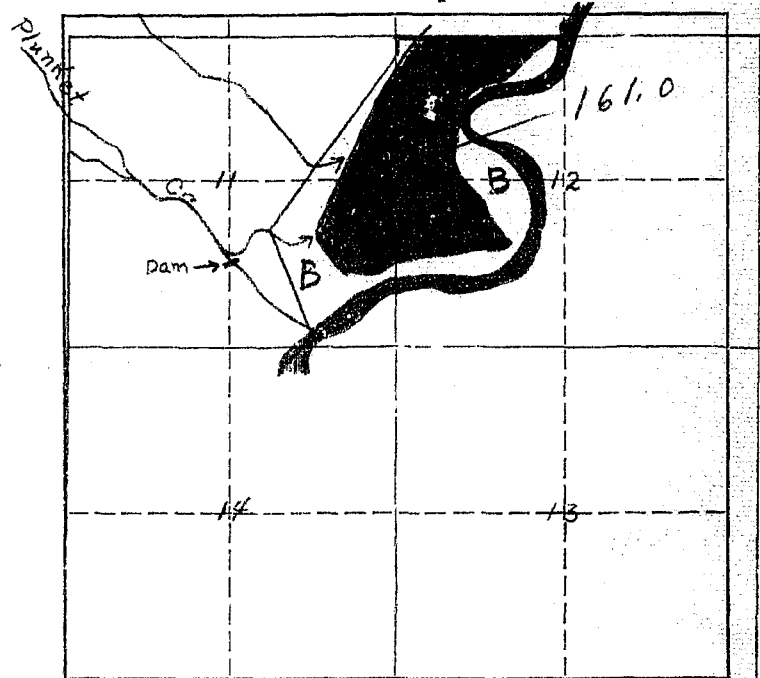
Twp. 4N Rge. 47E Twp. 4N Rge. 48E

Twp. Rge. Twp. Rge.

Filed in Twp. 4N Rge. 47E

Remarks

Total Acres in Farm ✓
Tongue River
Farm Map



Ownership covers
only irrigated land.
All ownership for
dry land not shown.

Tongue River Basin



NOTICE
These forms are the
property of the State
of Montana and must
be returned.

STATE OF MONTANA
STATE ENGINEERS OFFICE

Water Resources Survey

FORM WR-1-2M 12-47
200-29A-30A-31A
Code No. 32A

County Custer

T. 4N R. 47

Name of Land Owner Hutchinson Elsworth Corp Address Aberdeen, S. Dak.
Name of Operator C. Bilger Address Miller City

Part A

TO BE FILED BY THOSE OBTAINING IRRIGATION WATER FROM
A DITCH COMPANY OR IRRIGATION DISTRICT

1. Water is delivered by: _____
Name of Ditch, Ditch Company or District Supplying Water
2. State the number of acres you irrigate under this system. _____ Shares you hold _____
3. If you obtain water from more than one Company, give the number of shares, acres irrigated and the name of the Company under "Remarks." If you obtain water from a Ditch Company and also have a private system fill in both Part A and Part B.

Part B

TO BE FILED BY THOSE WHO HAVE A PRIVATE DITCH, PUMP OR IRRIGATION SYSTEM
or those who have a private water right under a Ditch Company

4. In what year was this land first irrigated? Date See attached water right
5. Give the name of the original appropriator (first user): _____
6. Give the date appropriated _____ Amount filed on: Miners Inches _____ C. F. S. _____
7. State the total number of acres irrigated under this system: _____
8. Give the point of diversion: _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ Section _____ Township _____ Range _____

Part C

TO BE FILED BY ALL WATER USERS IN ADDITION TO PART A OR PART B

9. Source of Water: Tongue River
Name of stream or lake from which water is originally diverted
10. Water is obtained by: (Check one) Gravity _____ Pumping ☒ Other _____
11. What is the greatest number of acres you have irrigated? 233 Date P
12. How many acres did you irrigate in 1947? (Crop and pasture) 97.0
13. State the total number of additional acres that could be irrigated by increasing the water supply, land leveling, etc. 136.0 This land is under what ditch? old flood ditch
14. How many acres of seeped land do you have which could be drained and put into production? _____
15. What is the condition of your irrigation system? Good
16. Is your water supply adequate? Yes ☒ No _____ Explain _____
17. REMARKS: _____

NOTE: The foregoing questions apply only to irrigated land shown on this plat.

DESCRIPTION AND MAP OF FARM

18. Legal Description of this Farm

See attached form for map & description



IRRIGATED LAND



NON-IRRIGATED LAND

North

West

East

South

Ownership covers
only irrigated land.
All ownership for
dry land not shown.

19. If the above land is irrigated from more than one ditch please give the acreage under each ditch in 19A and indicate the location of the land irrigated from each on the above map.

19A. Ditch: *Old Flood Ditch from Haddock Cr.* Acres: *136.0*

Ditch: *Hutchinson pump ditch Tongue River* Acres: *97.0*

Information supplied by:

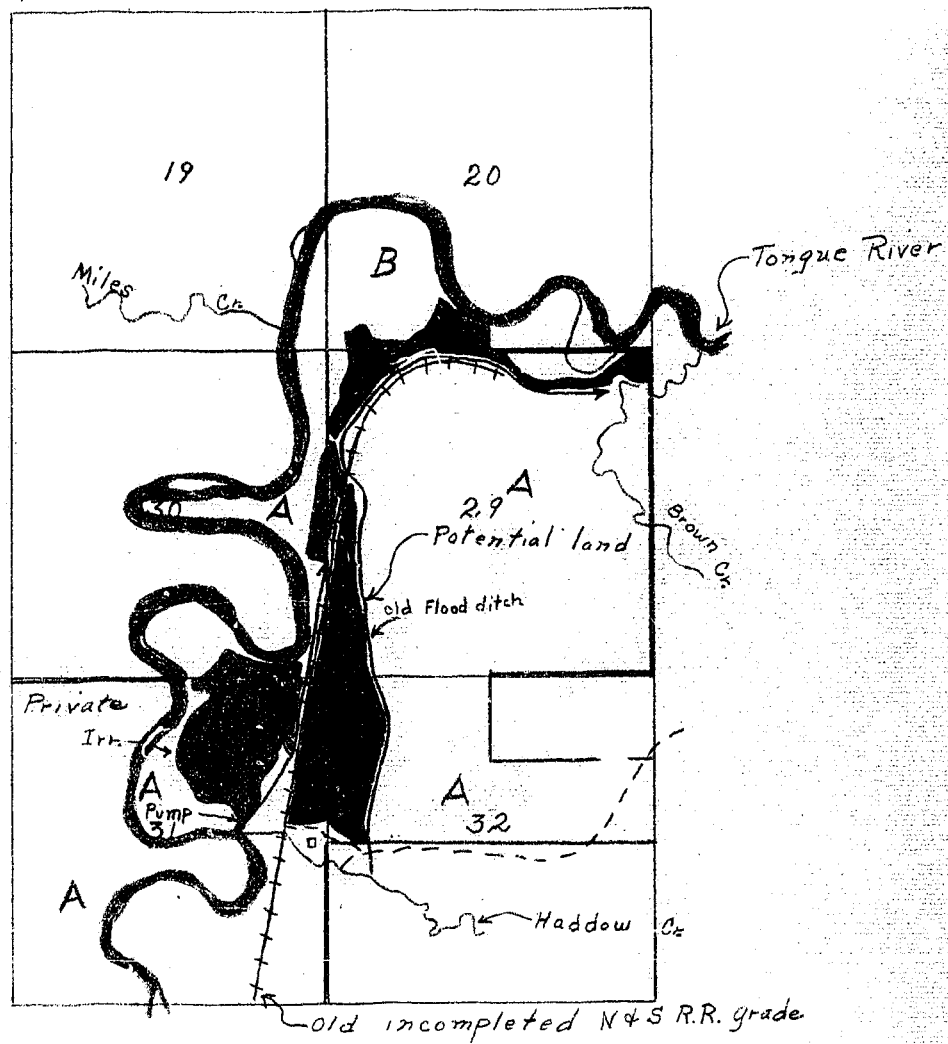
Name _____ Address _____ Date _____

REMARKS: _____

If you cannot answer all of the questions on this form answer as many as you can and return the form to us as soon as possible.

WR-2

T4N-R47E



STATE ENGINEERS OFFICE
Water Resources Survey

COUNTY Custer

FILE NO. 49-T.4N-R.47E

Owner Hutchinson Ellsworth Corp. Address R.R. Express, Aberdeen, S.Dak
90 Dewey Wreck

AAA Owner Address

Operator Bilges, O. (Buying Land - will have deed shortly) Address Miles City, (Tongue River Stage)

New Owner Address

New Operator Address

Assessment Record None

Assessed Acreage 0

Legal Description of This Farm Lots 27, 9, SW 1/4, Sec. 20; Lots 1, 7, 8, 17, Sec. 30;
all of Sec. 29; NW 1/4, S 1/2 NE 1/4, Sec. 32; Lots 1, 6, 7, 13, E 1/2 NE 1/4,
SE 1/4 SE 1/4, Sec. 31; T. 4N-R. 47E

Total Acres in Farm ✓

Code Number 22B, 22A, 30A, 31A, 32A

Farm Map

Photo No. Ma 32-61, Ma 32-63

AAA Contract No.

AAA Total Cropland Acreage

App. No. 782; 1912

Decree No.

Land is located in

Twp. 4N Rge. 47E Twp. Rge.

Twp. Rge. Twp. Rge.

Filed in Twp. 4N Rge. 47E

Remarks

Ownership covers
only irrigated land.
All ownership for
dry land not shown.

Tongue River Basin

ue River

Farm Checked

By Collins & Joe

Area Tongue

Date 5/22/47

Legal Land Owner Met. Kinson & Ellsworth Corp. Address Aberdeen S. Dak.

Operator O. Bilges (buying will have deed shilled) Address 5 Miles City Tongue River State

Water is delivered by:

Federal Project _____ Pres. _____ Pot. _____

Ditch Company _____ Pres. _____ Pot. _____

Irrigation District _____ Pres. 97.00 Pot. 136.0

Private System Pump Pres. 135 Pot. 300

Totals _____

Flood _____ Pump ✓ Reservoir _____ Gravity _____

Size and Capacity, Pump, etc. 10" booster, 1836 H.P. Tractor 12' lift.

Original Appropriator, Company _____ App. No. _____

Original Appropriator, Private _____ App. No. 1910
(Show date of appropriation under Remarks)

Is the system an extension of another system? Yes _____ No ✓

Is all land irrigated from one system? Yes ✓ No _____

(If No, show break down on map)

Source of Water Tongue River

Acres Irrigated 19 46 135 97.0

Potential Acres 300 Seeped 0

Explain _____

Condition of System good

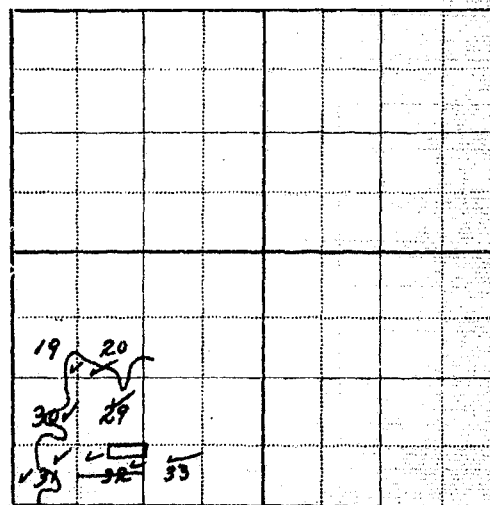
Adequate Supply Yes ✓ No _____

Explain _____

Topography bottom

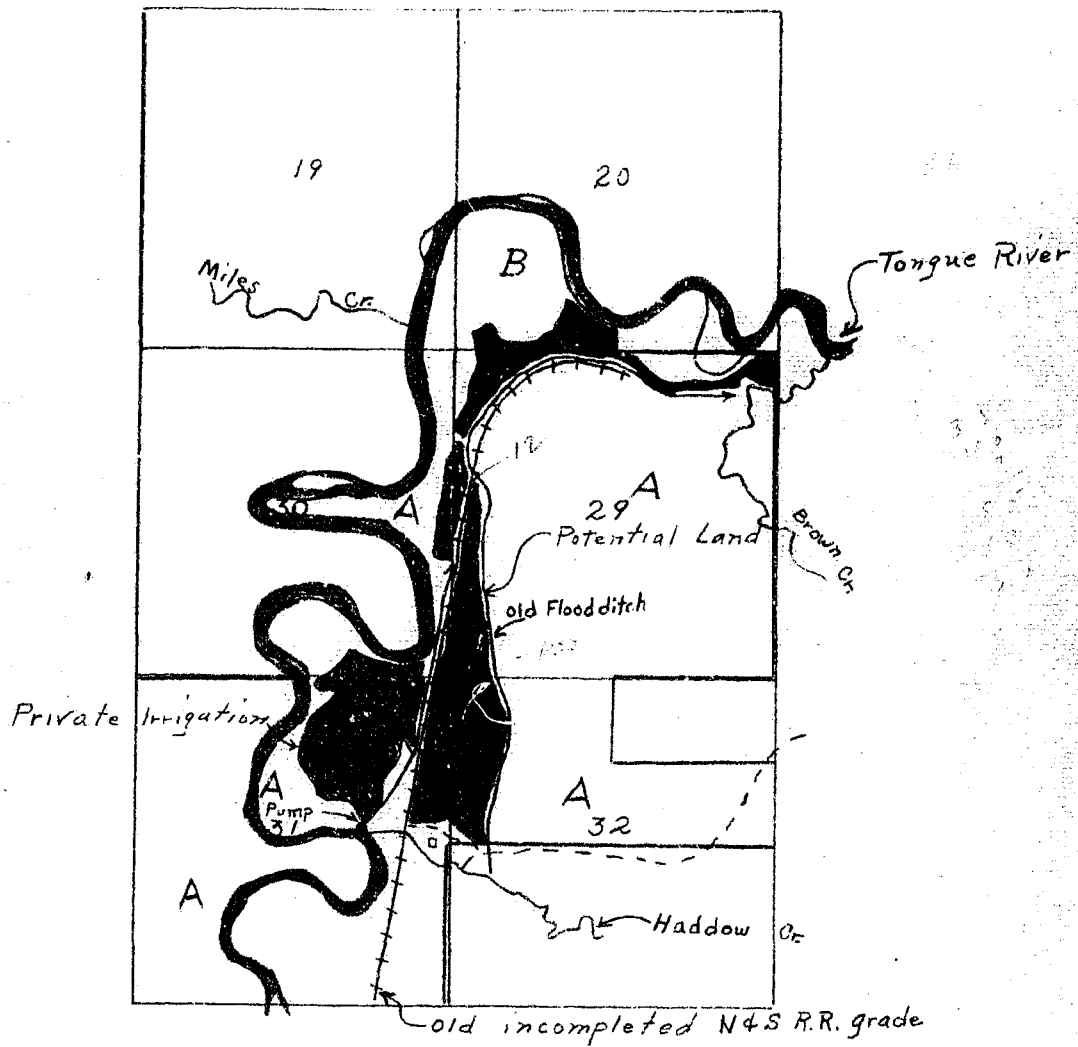
Information From O. Bilges

Remarks _____



WR-1

T4N-R47E





NOTICE
These forms are the
property of the State
of Montana and must
be returned.

STATE OF MONTANA
STATE ENGINEERS OFFICE

Water Resources Survey

FORM WR-1-2M 12-47

Code No. 12C-1A

County Custer

T. 4N R. 42E

Name of Land Owner Charlie Johnson Address Millar City - T.R.S.

Name of Operator _____ Address _____

Part A

TO BE FILED BY THOSE OBTAINING IRRIGATION WATER FROM
A DITCH COMPANY OR IRRIGATION DISTRICT

1. Water is delivered by: _____
Name of Ditch, Ditch Company or District Supplying Water
2. State the number of acres you irrigate under this system _____ Shares you hold _____
3. If you obtain water from more than one Company, give the number of shares, acres irrigated and the name of the Company under "Remarks." If you obtain water from a Ditch Company and also have a private system fill in both Part A and Part B.

Part B

TO BE FILED BY THOSE WHO HAVE A PRIVATE DITCH, PUMP OR IRRIGATION SYSTEM
or those who have a private water right under a Ditch Company

4. In what year was this land first irrigated? Date See attached form
5. Give the name of the original appropriator (first user): _____
6. Give the date appropriated _____ Amount filed on: Miners Inches _____ C. F. S. _____
7. State the total number of acres irrigated under this system: _____
8. Give the point of diversion: _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ Section _____ Township _____ Range _____

Part C

TO BE FILED BY ALL WATER USERS IN ADDITION TO PART A OR PART B

9. Source of Water: Ash Creek & Couleer
Name of stream or lake from which water is originally diverted
10. Water is obtained by: (Check one) Gravity ☒ Pumping _____ Other _____
11. What is the greatest number of acres you have irrigated? 100 Date _____
12. How many acres did you irrigate in 1947? (Crop and pasture) 100
13. State the total number of additional acres that could be irrigated by increasing the water supply, land leveling, etc. 50 This land is under what ditch? flood plain ash Cr.
14. How many acres of seeped land do you have which could be drained and put into production? _____
15. What is the condition of your irrigation system? Fair
16. Is your water supply adequate? Yes _____ No ☒ Explain _____
17. REMARKS: _____

NOTE: The foregoing questions apply only to irrigated land shown on this plat.

DESCRIPTION AND MAP OF FARM

18. Legal Description of this Farm Sec. 1, S2 NE4, N2 NE4, Sec 12



IRRIGATED LAND

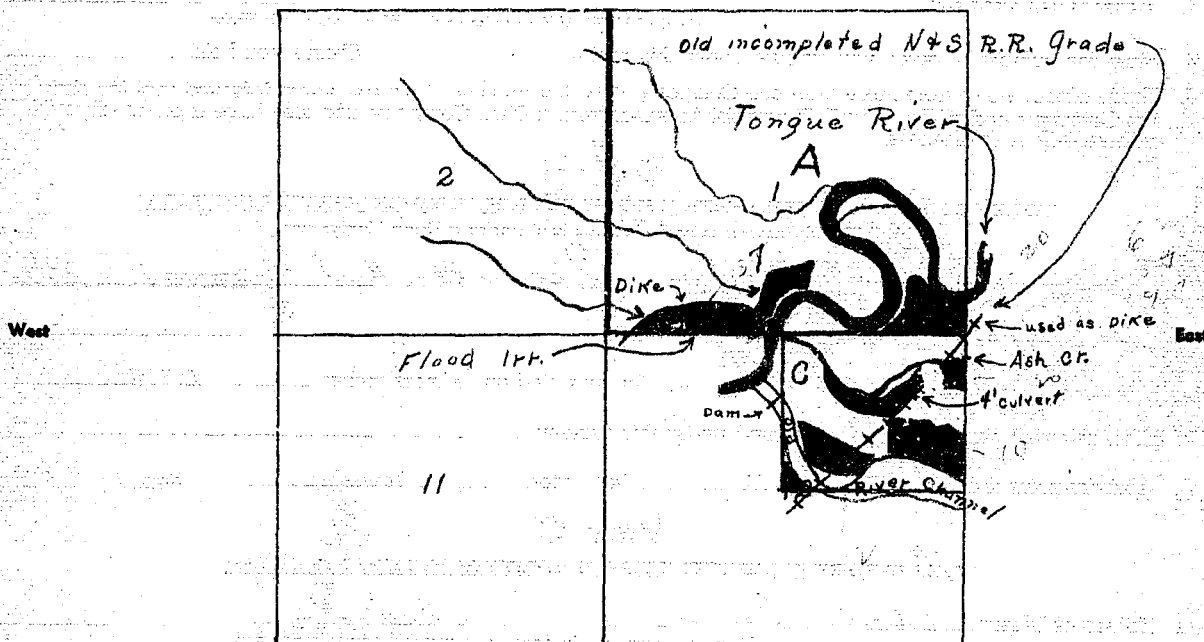


NON-IRRIGATED LAND



Potential Land

North



Ownership covers
only irrigated land.
All ownership for
dry land not shown.

South

19. If the above land is irrigated from more than one ditch please give the acreage under each ditch in 19A and indicate the location of the land irrigated from each on the above map.

19A. Ditch: Ash Creek flood Irr Acres: 63.0

Ditch: Culvert flood Irr Acres: 37.0

Information supplied by:

Name See attached form Address _____ Date _____

REMARKS: _____

If you cannot answer all of the questions on this form answer as many as you can and return the form to us as soon as possible.

STATE ENGINEERS OFFICE
Water Resources Survey

COUNTY Cluster

FILE NO. 19-T-4N-R-47E

Owner Johnson, Charles Address Miles City (Tongue River Stage)

AAA Owner Address

Operator " " Address " "

New Owner Address

New Operator Address

Assessment Record None

Assessed Acreage 0

Legal Description of This Farm (N.P.R.R.) all of Sec. 1, S² NE⁴, and part of T¹ NE⁴, Sec. 12;
ash - 63
Circle - 37
T-4N-R-47E

Total Acres in Farm 0

Code Number (N.P.R.R.) 1A, 12C

Photo No. Ma. 13-177; Ma. 13-176

AAA Contract No.

AAA Total Cropland Acreage

App. No. See field form.
Morris Appropriation

Decree No.

Land is located in

Twp. 4N Rge. 47E Twp. 4N Rge. 48E

Twp. Rge. Twp. Rge.

Filed in Twp. 4N Rge. 47E

Remarks

Farm Map

Ownership covers
only irrigated land.
All ownership for
dry land not shown.

Tongue River Basin

Code No. 12C, 1A

County Custer

County Custer
4N 4E

T. 4N R. 47E Sec. 1, 12

Photo No. MA 13-177

Address Tongue River Stage

Address _____

Pres. _____ Pot. _____

Pres. _____ Pot. _____

Pres. _____ Pot. _____

Pres. 100 Pot. 50

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2
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11

App. No. _____

App. No. _____

THE

also filed in 4N-

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

1 + 511

at present, 1, 1000

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The number of transformed cells was determined by the number of colonies obtained on the selective medium. The results are the mean of three independent experiments. Error bars represent standard deviation.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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also filed in 4N-4FE.

A 10x10 grid with a 2x2 sub-grid in the top right corner. The sub-grid contains the number 12 and four checkmarks.

Land orig. owned by Morris who filed on water
out of Ash Cr., then Howard, later Mrs. Johnson
Johnson. Now owned by Johnson. Land is diked
hay meadow which is flooded by creek in spring
only. Dams have been put in to flood oftener
but wash out. Johnson intends to put check
dam across creek with headgate in dam to
direct more water and include about 50 A.
additional. Has tried putting small dams in
creek for pumping but was not successful so
gave it up. He shows no feeling for this land
but Johnson says there was one by Morris