

File No.

DUPLICATE

T. 16 R. 52County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 14 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Dec 31, 1956Owner Liquid Audum Address Glendora Mont.

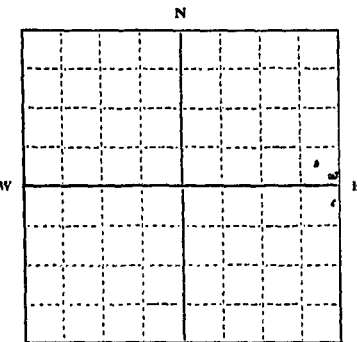
Contractor (if any)

Address of Contractor

Date Started..... Date Completed.....

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. flowing Springs

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use stock water9 months useSE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 24 T. 16 R. 52

Indicate point of appropriation and place of use, if possible.

NE $\frac{1}{4}$, SE $\frac{1}{4}$ Sec 24 T16 R52Signature of Owner Liquid AudumDate Dec 31, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

286883

STATE OF MONTANA
County of Dawson

Filed for record this 31st day of
December, A. D. 1963, at
3:30 o'clock P. M.

Gordon W. Russell
County Clerk and Recorder.

By Thye Schuithe Deputy.

GW2

File No.

T 16 R 52

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER JAN 14 1964

**Notice of Completion of Groundwater
Appropriation by Means of Well**

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground
(Elev. above sea level.....)

7 Black loam and gravel
25 Sand rock
4 blue shale
5 coal slack with little coal
3 water sand 1 gal min.
48 grey shale
6 water sand 2 gal min
4 grey shale

Total depth 100 feet

Owner Kenneth Edwards Address Glendive, MontanaDriller Ira C. Bond Address Terry, Montana

Date of Notice of Appropriation of Groundwater

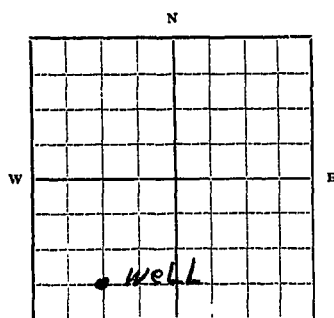
Date well started December 24, 63 Date Completed 12/28/63

Type of well Drilled Equipment Used Cable
(dug, driven, bored or (Churn, drill, rotary or
drilled) other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5 5/8"	4" ID 21.7	surface	100	5/16 burned	38 89	48 98



Indicate location of well and place of use, if possible. Each small square represents 10 acres.

100 feet

Show exact depth of bottom.

Static Water Level for non-flowing Well 25 feet feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 95 feet at 3 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested pump Length of Test 3 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of

acres irrigated, if used for irrigation)

37

Driller's License Number

Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

32001

A blank sheet of graph paper with a grid pattern. The grid consists of small squares formed by thin lines. There are two thicker vertical lines and one thicker horizontal line, dividing the page into three columns and two rows of larger sections. The top-left section contains some faint, illegible markings.

[illegible]

286895

STATE OF MONTANA
County of Dawson

Filed for record this 31st day of December A. D. 1963, at 3:30 o'clock P. M.

5:30 o'clock M.
Garson W Russell
 County Clerk and Recorder.

By _____ Deputy.

File No. _____

DUPLICATE

T. 16 R. 52
County: DAWSON

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED

JAN 14 1964

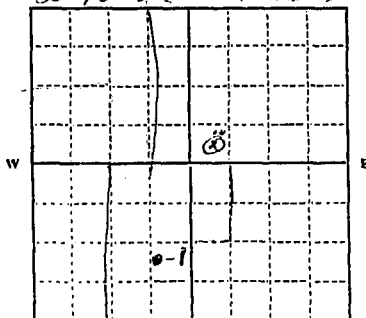
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. R. J. Walker, of LINDSAY (Name of Appropriator) (Address) (Town)
County of DAWSON State of MONTANA
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

30-16-52 N 29-16-52



31-16-52

1/4 Sec 31 T 16 R 52

Indicate point of appropriation and place of use, if possible. Each small square represents 40 acres.

29-16-52

2. The beneficial use on which the claim is based Stock Water
Household Water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1961
1972

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 300 gal per minute
300 gal per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
4+ acres Sprinkler
R. J. Walker

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal P.W.P.P.
P.W.P.P.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater July 1961
1972

8. The depth of water table 213 feet 10 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 213 feet Deep Hand dug
10 feet deep 6 inch casing

10. The estimated amount of groundwater withdrawn each year 250,000 gal 169,000 gal.

11. The log of formations encountered in the drilling of each well if available NOT AVAILABLE

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record None

Signature of Owner

R. J. Walker

Date Dec 15, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

31687

286546

STATE OF MONTANA
County of Dawson

Filed for record this 22nd day of
December A. D. 1963, at
1:00 o'clock P. M.
Gordon W. Russell
County Clerk and Recorder.

By _____ Deputy.
Heidi S. cc

GROUNDWATER INDEX

Page 1 of 1County Dawson Twp. 16 N Rge. 53E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
2	Metzgerberger, Andrew & Ed	Hw 4	286783	
4	Mickelson, E. F.	Hw 4	286720	
4	Nentwig, Morton	Hw 4	286525	
5	Mickelson, E. F.	Hw 3	286719	
5	Mickelson, E. F.	Hw 4	286720	See Sec. 4 Above
6	Waltz, William	Hw 4	286612	
6	Waltz, William	Hw 3	286613	
7	Malkuch, Frank	Hw 2	300619	
8	Mickelson, E. F.	Hw 3	286719	See Sec. 5 Above
8	Mickelson, E. F.	Hw 4	286720	See Sec. 4 Above
10	Malkuch, Frank & Esther	Hw 4	287146	
11	Metzgerberger, Andrew & Edwin	Hw 4	286783	See Sec. 2 Above
14	Malkuch, James R.	Hw 2	389534	
14	Malkuch, Frank & Esther	Hw 3	287147	
14	Malkuch, Frank & Esther	Hw 3	287147	See Sec. 14 Above
17	Malkuch, Frank & Esther	Hw 3 4	287147	See Sec. 14 Above
18	Malkuch, Frank & Esther	Hw 3	287147	See Sec. 14 Above
19	Edwards, Kenneth	Hw 3	286892	
20	Undem, Sig	Hw 2	306740	
20	Undem, Sigurd & Hudson	Hw 3	286881	
21	Undem, Sigurd & Hudson	Hw 3	286888	
22	Undem, Sigurd	Hw 3	286887	
22	Undem, Sigurd & Hudson	Hw 3	286882	
25	Edwards, Kenneth	Hw 2	286895	T 11.4.4. 50 F
26	Undem, Sigurd & Hudson	Hw 3	286886	
27	Undem, Sig	57 Well Log		
28	Nentwig, Morton	Hw 4	286525	
29	Edwards, Kenneth E.	Hw 4	286902	
30	Edwards, Kenneth E.	Hw 2	286894	
35	Undem, Sigurd & Hudson	Hw 3	286885	

GW

Approved Stock Form—State Publishing Co., Helena, Montana—42234

File No.

T. 16 R. 53

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

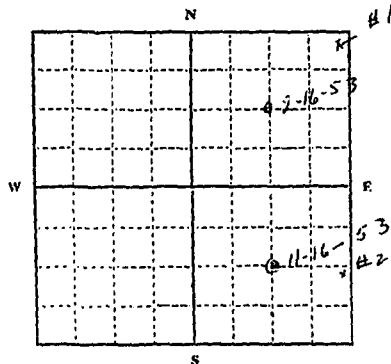
JAN 14 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

zenberger
1. Andrew Mutzenberger and Edwin J. Mutzenberger Mut. of Circle Route, Glendive
(Name of Appropriator) (Address) (Town)
County of Dawson State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



11 16 53
1/4 Sec 2 T. 16 R. 53

Indicate point of appropriation
and place of use, if possible. Each
small square represents 10 acres.

2. The beneficial use on which the claim is based. #1, livestock; #2, domestic and livestock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. #1, 1951 continuous; #2, 1938 continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute). #1, 10 gallons per minute; #2, 5 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. None
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. #1, windmill pump jack; #2, windmill pump jack
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. #1, 1951; #2, 1938
8. The depth of water table. #1, 120'; #2, 28'
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. #1, drilled, 6-5/8" casing 151' deep; #2, drilled, 4" casing, 42' deep
10. The estimated amount of groundwater withdrawn each year. #1, 2,592,000 gallons; #2, 1,296,000 gallons
11. The log of formations encountered in the drilling of each well if available. None
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. None

Signature of Owner:

Date December 30, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

31900

286783

STATE OF MONTANA
County of Dawson

Filed for record this 20th day of
December A. D. 1963, at
4:00 o'clock P.M.
Gordon W. Russell
County Clerk and Recorder.

By _____ Deputy.

GW

Approved Stock Form—State Publishing Co., Helena, Montana—42234

File No.

T 16 R 53
County Dawson

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 14 1964

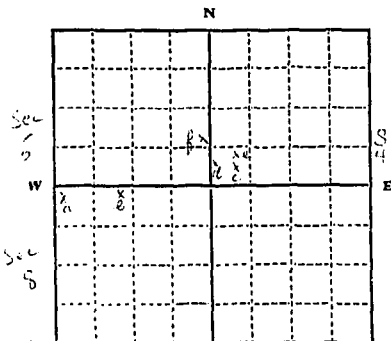
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. E. F. Nicholson, of Circle Rte Glendive
(Name of Appropriator) (Address) (Town)

County of Dawson State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec 36 T14N R53
1/4 Sec 35 T14N R53
1/4 Sec 34 T14N R53
1/4 Sec 33 T14N R53

Indicate point of appropriation
and place of use, if possible. Each
small square represents 10 acres.

2. The beneficial use on which the claim is based and d of
stockwater, cattle households
3. Date or approximate date of earliest beneficial use; and how continuous the use has been at 8 April 1950 to Jan 1959 intermittent
at 1950 to present continuous at 1956 to present
continuous at 1950 1960 continuous at 1960 to present
continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) not applicable at unknown
at 10 gal/min; at 10 gal/min; at 2 gal/min; at 5 gal/min
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
not applicable
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal grounded pump;
at a gasoline pump
at a gasoline pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater at 20 well dug prior to 1950, at well dug
1950; at well dug 1950; at well dug 1950
8. The depth of water table at 25 ft; at 60 ft; at 80 ft; at unknown
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
at a unknown
at a hand dug 27 ft
at a hand dug 24 ft
at a hand dug 24 ft
10. The estimated amount of groundwater withdrawn each year 50,000
11. The log of formations encountered in the drilling of each well if available
not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record
none

Signature of Owner E. F. NicholsonDate 12-30-62

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

31837

286720

STATE OF MONTANA
County of Dawson

Filed for record this 30th day of
December A. D. 1965, at
4:00 o'clock P.M.

Barbara W. Russell
County Clerk and Recorder.

By _____ Deputy

File No.

T. 16 R. 53

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

RECEIVED
JAN 14 1964
STATE ENGINEER

Date of Appropriation of Groundwater.....

Owner E. F. Mickelson Address Circle Rte, GlenviewContractor (if any) not applicableAddress of Contractor not applicableDate Started not applicable Date Completed not applicableDescribe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring

Sec 8 used for stockwater, and d
pumped in irrigating - electric
motor used, d gasoline motor used

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use.....

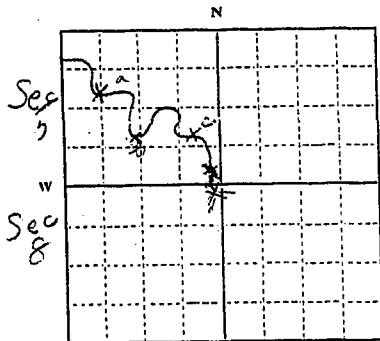
50 h @ 30 gal per day 600,000Irrigated with 5 inch pump 3000 gal per hrSignature of Owner E. F. MickelsonDate 12-30-1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.



..... 1/4 Sec. 5-8 T. 16 R. 53
Indicate point of appropriation
and place of use, if possible.

286719

STATE OF MONTANA
County of Dawson

Filed for record this 30th day of
December A. D. 1963, at
4.00 o'clock P. M.

Gordon H. Russell
County Clerk and Recorder.

By Fry Schmitt Deputy.

File No.

T. ~~1916~~ R. ~~1953~~

DUPLICATE

County Cameron

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

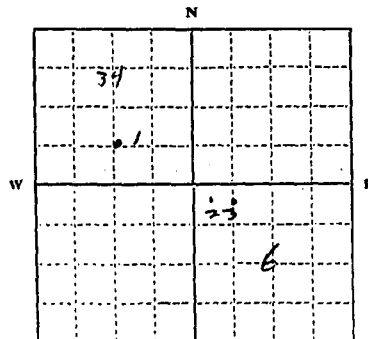
RECORDED
JAN 14 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. William Wolff, of Lindsey
(Name of Appropriator) (Address)
County of Cameron State of Mont
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



34-17-52
1/4 Sect 36 T. 6N R. 3E

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

2. The beneficial use on which the claim is based 193 stock
7 house
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1-1960 203-1911 cont.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1-2.3 70 gal per min.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
716
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric
motor & pump.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1-1960 203 1911

8. The depth of water table 1-100 ft. 203-70 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.

1 1/2 inch casing 115 ft deep. 203 11 inch casing
35 ft deep.

10. The estimated amount of groundwater withdrawn each year 193 750,000 gal 2-500,000

11. The log of formations encountered in the drilling of each well if available.

unknown

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner

William Wolff
Date 12-27-63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

31750

286612

STATE OF MONTANA
County of Dawson

Filed for record this 27th day of
December A. D. 1963, at

4:00 o'clock P. M.

Lyndon E. Russell

County Clerk and Recorder.

By _____ Deputy:

STATE OF MONTANA
County of Dawson

Filed for record this _____ day of
_____ A. D. 19____, at

_____ o'clock _____ M.

County Clerk and Recorder.

By _____ Deputy.

File No.

T. 16 R. 53

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 14 1964

Notice of Completion of Groundwater Appropriation **ENGINEER**
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1959Owner William Welf Address Kindred

Contractor (if any)

Address of Contractor

Date Started 1959 Date Completed 1959Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Water in creekbed run cont.

.....

.....

.....

.....

.....

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use Estimateof 3,000,000 gal per year. Neverfreezes over

.....

.....

.....

.....

.....

Signature of Owner William WelfDate 12-27-63

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

286613

STATE OF MONTANA
County of Dawson

Filed for record this 27th day of
December A. D. 1963, at
4:00 o'clock P. M.

Gordon W. Russell
County Clerk and Recorder.

By _____ Deputy.

File No.

RECEIVED

T. 16 R. 53

DUPLICATE

OCT 27 1967

County Dawson

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARDNotice of Completion of Groundwater
Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

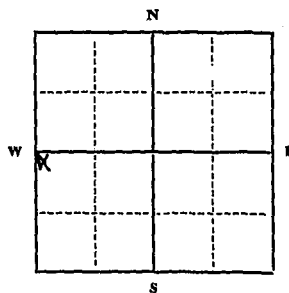
Owner Frank J. Melbush Address Circle R. Road
Driller C. J. Starr Address Box 1183 - H.

Date of Notice of appropriation of groundwater.....

Date well started 9-17-67 Date completed 9-23-67Type of well drilled Equipment used Churn drill
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5 1/2" to 140'	4" 10'	0'	158'		148'	158'
4" to 165'	11" pipe			1 1/8" w 8" c		

Static Water Level for non-flowing well
107' feet.

Shut-in Pressure for Flowing Well.....

Pumping Water Level 145' feet
at 8 gal gal. per minute.

Discharge in gal. per min. of flowing well

How Tested BaileyLength of Test 2 hrsRemarks: (Gravel packing, cementing, packers, type of shutoff) Gravelpacking from 165'
up to 148'

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Driller's License Number

Driller's Signature

42, 444

RECEIVED BY MAIL 11/1/67

RECEIVED BY MAIL 11/1/67

(Under Chapter 227 Montana Session Laws 1961 as amended)

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[Faint, mostly illegible text in the lower section.]

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[Faint, mostly illegible text in the lower section.]

[Handwritten notes and signatures in the right margin, including "John J. Russell" and "Deputy".]

300619

STATE OF MONTANA
County of Dawson
Filed for record this 26th day of
October A. D. 1967 at
10:05 o'clock P. M.
London H. Russell
County Clerk & Recorder
By Satricia J. Russell Deputy

T 16 R 53

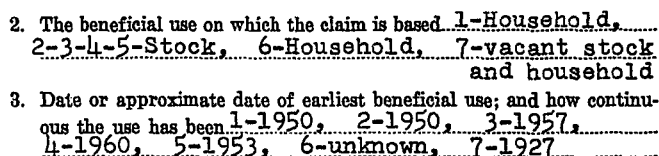
County Dawson

JAN 16 1964

STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

County of Dawson State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



4. The amount of groundwater claimed (in miner's inches or gallons per minute) All wells about 2 gal per min.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal-2 shallow pressure pump; 3-4 pump jack with electric motor; 5-Hand pump; 6-Hand pump; 7-Hand pump.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Same as no. 3

8. The depth of water table. About 10 ft from top of ground

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. 1-

2- 34 ft deep - 6" casing	6- 12 ft deep
3- 15 ft deep - 6" casing	7- 8 ft deep - 4 ft cir.
4- 30 ft deep - 6" casing	
5- 9 ft deep - 4" circurrent	

10. The estimated amount of groundwater withdrawn each year.....800,000 gal

11. The log of formations encountered in the drilling of each well if available.....unknown

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.....none.....

Signature of Owner Frank Mankuch

Date January 10, 1964

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

33217

1. The first section of the document is a list of items, each preceded by a number and a letter. The items are as follows:

- 1- A. 1st section - 1st section
- 1- 30 1st section - 1st section
- 3- 12 1st section - 1st section
- 3- 13 1st section - 1st section

2. The second section of the document is a list of items, each preceded by a number and a letter. The items are as follows:

- 1- 30 1st section - 1st section
- 3- 12 1st section - 1st section
- 3- 13 1st section - 1st section

3. The third section of the document is a list of items, each preceded by a number and a letter. The items are as follows:

- 1- 30 1st section - 1st section
- 3- 12 1st section - 1st section
- 3- 13 1st section - 1st section

4. The fourth section of the document is a list of items, each preceded by a number and a letter. The items are as follows:

- 1- 30 1st section - 1st section
- 3- 12 1st section - 1st section
- 3- 13 1st section - 1st section

5. The fifth section of the document is a list of items, each preceded by a number and a letter. The items are as follows:

- 1- 30 1st section - 1st section
- 3- 12 1st section - 1st section
- 3- 13 1st section - 1st section

6. The sixth section of the document is a list of items, each preceded by a number and a letter. The items are as follows:

- 1- 30 1st section - 1st section
- 3- 12 1st section - 1st section
- 3- 13 1st section - 1st section

7. The seventh section of the document is a list of items, each preceded by a number and a letter. The items are as follows:

- 1- 30 1st section - 1st section
- 3- 12 1st section - 1st section
- 3- 13 1st section - 1st section

8. The eighth section of the document is a list of items, each preceded by a number and a letter. The items are as follows:

- 1- 30 1st section - 1st section
- 3- 12 1st section - 1st section
- 3- 13 1st section - 1st section

9. The ninth section of the document is a list of items, each preceded by a number and a letter. The items are as follows:

- 1- 30 1st section - 1st section
- 3- 12 1st section - 1st section
- 3- 13 1st section - 1st section

10. The tenth section of the document is a list of items, each preceded by a number and a letter. The items are as follows:

- 1- 30 1st section - 1st section
- 3- 12 1st section - 1st section
- 3- 13 1st section - 1st section

287146

STATE OF MONTANA
County of Dawson

Filed for record this 10th day of
January A. D. 1964, at
3:30 o'clock P.M.

Gordon H. Russell
County Clerk and Recorder.

By Laura Schmitt Deputy.

GW 2

File No. _____

DUPLICATE

LOG

0 - Top of Ground
 15 - yellow sandy clay (Elev. above sea level)
 15 - grey clay
 38 - water sand
 41 - grey shale
 50

RECEIVED

MAY 29 1973

MONTANA DEPARTMENT OF NATURAL
RESOURCES AND CONSERVATION

File 319534

Date MAY 25, 1973

Time 3:00 p.m. SW - SW 1/4

Sec. 14 T. 16 R. 53
 Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Approved Stock Form—State Publishing Co., Helena, Montana—46805

T. 16 R. 53

County Dawson

STATE OF MONTANA
 ADMINISTRATOR OF GROUNDWATER CODE
 STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater
 Appropriation by Means of Well
 DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237 Montana Session Laws, 1961, as amended)

Owner James M. Maltud Address Glendive, MT
 Driller C. H. Starr Address Box 1183 - 84

Date of Notice of appropriation of groundwater _____

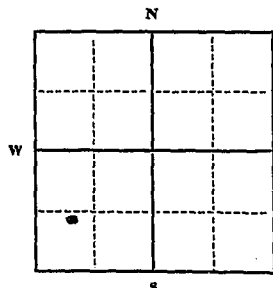
Date well started April 1 Date completed April 6 - 73

Type of well drilled Equipment used Cable tool
 (Dig, driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
 Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kid Size	From (Feet)	To (Feet)
5 5/8 to 35'	4"	0	43'	8"	38'	41'
4" to 50'	11# per'			6"		
				length		



Static Water Level for non-flowing well 21 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 41 feet
 at 5 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested BailerLength of Test 1 hr.

Remarks: (Gravel packing, cementing, packers, type of shutoff) _____

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition).

Driller's License Number

Driller's Signature

53,275

[Faint, mostly illegible handwritten notes and markings in the upper left quadrant of the page.]

319584

STATE OF MONTANA

County of Dawson

Filed for record this 25 day of

May A. D. 19 13 at

3:40 o'clock P. M.

Harold H. Russell

County Clerk & Recorder

By Madeline K. Russell Deputy

Approved Stock Form—State Publishing Co., Helena, Montana—42262

File No.

T 16 R 53

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

R JAN 16 1964

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater..... 1926
Malkuch
Owner Frank & Esther/ Address Circle Route
Glendive, Montana
Contractor (if any) none
Address of Contractor

Date Started..... Date Completed.....

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. natural springs

A 6x6 grid map of a coastal area. The top edge is labeled 'N' and the bottom edge 'S'. The left edge is labeled 'W' and the right edge 'E'. A horizontal line divides the grid into two 3x6 sections. The middle row of the top section contains the numbers 18, 16, and 14 from left to right. The bottom row of the bottom section contains 'x' marks in the first, fourth, and fifth columns.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use.....

For livestock ~~EXEMPT~~ except when froze over

..... $\frac{1}{4}$ Sec..... T..... R.....

Indicate point of appropriation
and place of use, if possible.

SESW 18-16-53

SWSE 18-16-53

SESE 16-16-53

SWSW 14-16-53

Signature of Owner

Date January 10, 1964

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

287147

STATE OF MONTANA
County of Dawson

Filed for record this 10th day of
January A. D. 1964, at
13:30 o'clock P.M.

Gordon W. Russell
County Clerk and Recorder.

By Lupe Scheitlin Deputy.

File No.

T. 16 R. 53

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 14 1964

Notice of Completion of Groundwater Appropriation
Without Well

STATE ENGINEER

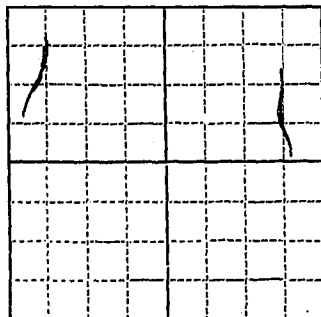
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1912 2 springsOwner Kenneth Edwards Helena, Mont.Contractor (if any) none

Address of Contractor

Date Started Date Completed

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. natural springs



NW
NE 1/4 Sec. 19, T. 16, R. 53

Indicate point of appropriation
and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate. estimate high amount. If use is intermittent

estimate approximate lengths of periods of use.

used year around
these two springs will use less than
unlimited amount 53 gals
per minute

Signature of Owner Kenneth EdwardsDate 12/20/63

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

31998

286892

STATE OF MONTANA
County of Dawson

Filed for record this 31st day of

December A. D. 1963, at
3:30 o'clock P.M.

Garland W. Russell
County Clerk and Recorder.

By _____ Deputy.

File No. _____

MONTANA WATER RESOURCES BOARD
RECEIVED

T. 16 R. 53

QUADREPLICATE

County Dawson

LOG

SEP 25 1969

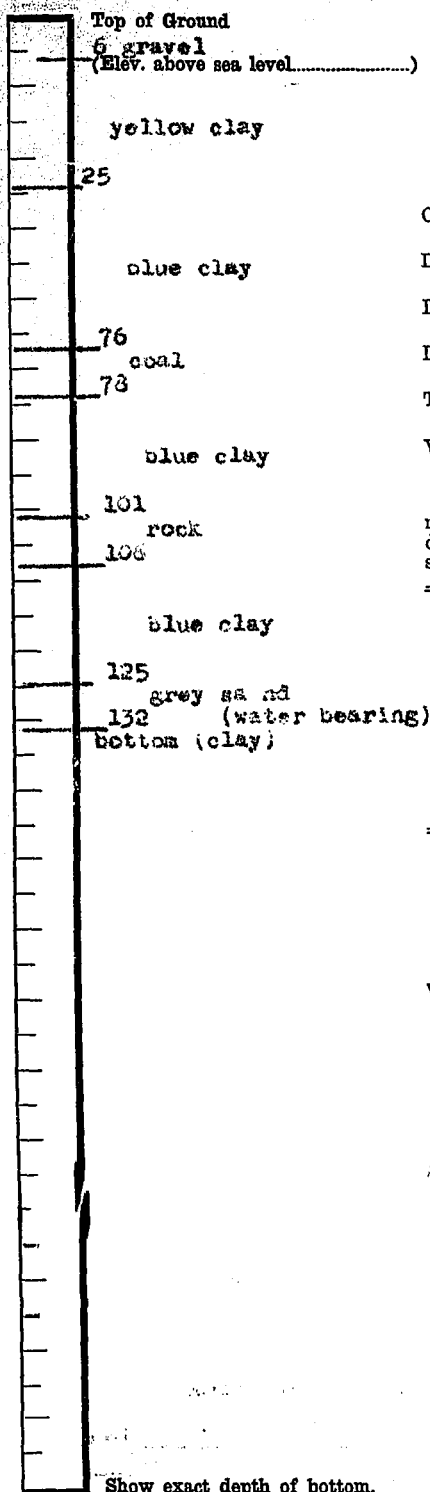
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD**Notice of Completion of Groundwater
Appropriation by Means of Well**

DEVELOPED AFTER JANUARY 1, 1962

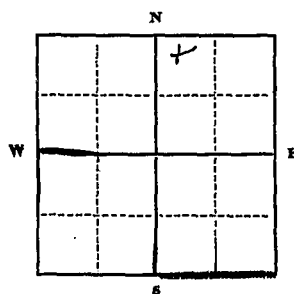
(Under Chapter 237 Montana Session Laws, 1961, as amended)

Owner Big Under Address Glendive, MontanaDriller David A. Lindsay Address Lindsay, MontanaDate of Notice of appropriation of groundwater 7/8/69Date well started 7/1/69 Date completed 7/8/69Type of well Drill Equipment used Churn drill
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.



Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5 1/2"	4" ID plastic 1 1/2" per ft.	9"	132	sawed slots 2" long diagonally	122	132

Static Water Level for non-flowing well 30 feet.Shut-in Pressure for Flowing Well not appPumping Water Level 4 feet at _____ gal. per minute.Discharge in gal. per min. of flowing well not applicableHow Tested bailedLength of Test 2 hrs.Remarks: (Gravel packing, cementing, packers, type slotted)
1 1/2" gravel packed

Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition). not applicableBig Under

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Driller's License Number 13

Driller's Signature.

45669

File No.

MONTANA WATER RESOURCES BOARD

T. 16 R. 43

QUADRUPLICATE

RECEIVED

County: Carbon

LOG

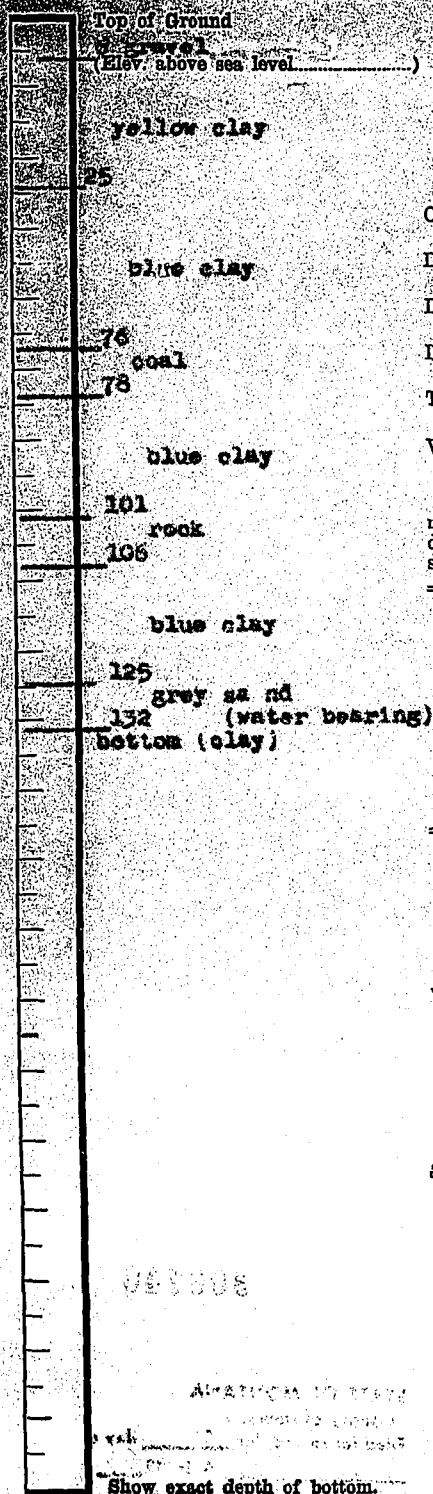
SEP 25 1969

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD**Notice of Completion of Groundwater
Appropriation by Means of Well**
DEVELOPED AFTER JANUARY 1, 1962

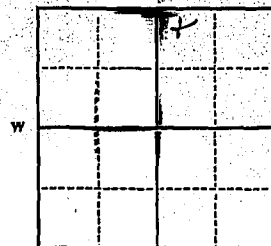
(Under Chapter 237 Montana Session Laws, 1961, as amended)

Owner: 215 Underm Address: Glendive, MontanaDriller: Daniel G. Harverty Address: Glendive, MontanaDate of Notice of appropriation of groundwater: 7/6/69Date well started: 7/1/69 Date completed: 7/8/69Type of well: drilled Equipment used: Churn Drill
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.



Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5 1/4"	4" ID plastic 1 1/2" per ft.	9"	132	sawed slots 2" long diagonally	122	132



NE. 20 16 53
 Sec. T. R.
 Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing well: 30 feet.Shut-in Pressure for Flowing Well: not appPumping Water Level: 4 feet at 4 gal. per minute.Discharge in gal. per min. of flowing well: not applicableHow Tested: balledLength of Test: 2 hrs.Remarks: (Gravel packing, cementing, packers, type of shutoff) outside gravel packed

(Continue on reverse side)

USE—If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e.: Lot, Block and Addition). not applicable215 Underm

Show exact depth of bottom.

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Driller's License Number 13Driller's Signature 45669

306740

STATE OF MONTANA

County of Dawson

Filed for record this 10 day of
July A. D. 19 69 at
3:50 o'clock P. M.

Dorothy A. Russell
County Clerk & Recorder

By Cathleen Peterson Deputy

GW 3

Approved Stock Form—State Publishing Co., Helena, Montana—42199

File No.

T. 16 R. 53

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 14 1964

Notice of Completion of Groundwater Appropriation
Without Well

STATE ENGINEER

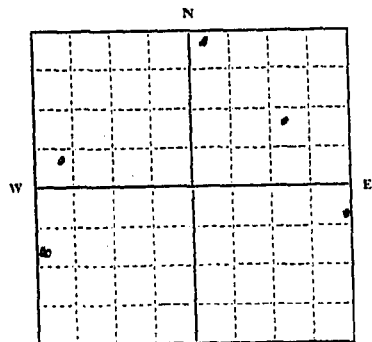
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Dec. 31, 1956Owner Sign: Land & Indemnity address Glendive, Mont.

Contractor (if any)

Address of Contractor

Date Started..... Date Completed.....

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Springs flow

SE 1/4 Sec. 20 T. 16 R. 53

Indicate point of appropriation and place of use, if possible.

NE 1/4; NW 1/4;

SW 1/4 Sec 20-16-53

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use. Stock water190 head cattle April thru Dec.Signature of Owner. Sign: Land & IndemnityDate Dec. 31, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

31987

286881

STATE OF MONTANA
County of Dawson

Filed for record this 31st day of

December A. D. 1963, at

3:30 o'clock P.M.

Gordon H. Russell
County Clerk and Recorder.

By Faye Scheithi Deputy.

OW 3

Approved Stock Form—State Publishing Co., Helena, Montana—42199

File No.

T. 16 R. 53

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 14 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Dec 31, 1963

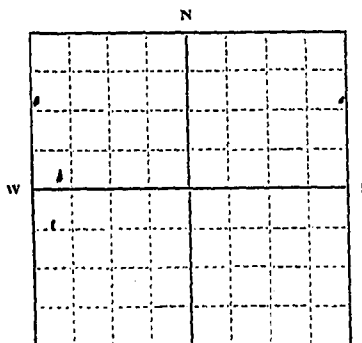
Owner Liquid & Indem Address Glendive, Mont.

Contractor (if any)

Address of Contractor

Date Started..... Date Completed.....

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring flow



N. 1/4 Sec. 21 T. 16 R. 53

Indicate point of appropriation and place of use, if possible.

NE 1/4, SW 1/4
Sec 21, 16-53

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use. Stock water

April thru Dec.

Signature of Owner Liquid & Indem

Date Dec 31, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

31994

286888

STATE OF MONTANA
County of Dawson

Filed for record this 31st day of

December A. D. 1963, at
3:30 o'clock P. M.

Gordon H. Russell
County Clerk and Recorder.

By Gaye Scheithin Deputy.

File No.

T. 16 R. 53

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 14 1964
STATE ENGINEER

**Notice of Completion of Groundwater Appropriation
Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

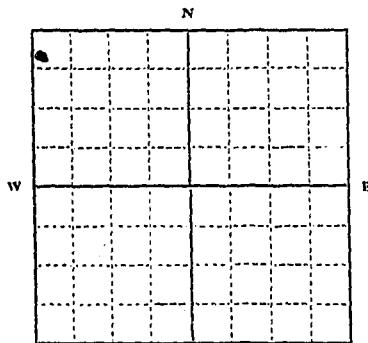
Date of Appropriation of Groundwater Dec 31, 1963Owner Liquid Under Address Blondine, Mont

Contractor (if any)

Address of Contractor

Date Started Date Completed

Describe means of obtaining groundwater without a well "as by
sub-irrigation and other natural processes". Include depth to
water when applicable flowing Spring



N.W. 1/4 Sec. 22 T. 16 R. 53

Indicate point of appropriation
and place of use, if possible.

Quantity of water developed and used with explanation of method
used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use Stock water
about 9 months

Signature of Owner Liquid UnderDate Dec 31, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana
Bureau of Mines and Geology and Quadruplicate for the Appropriator.

286887

STATE OF MONTANA
County of Dawson

Filed for record this 31st day of
December A. D. 1963, at
3:30 o'clock P. M.

Gordon H. Russell
County Clerk and Recorder.

By Larry Schmitz Deputy.

GW 3

Approved Stock Form—State Publishing Co., Helena, Montana—42199

File No. _____

T. 16 R. 53

DUPLICATE

County Mussouri

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 14 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

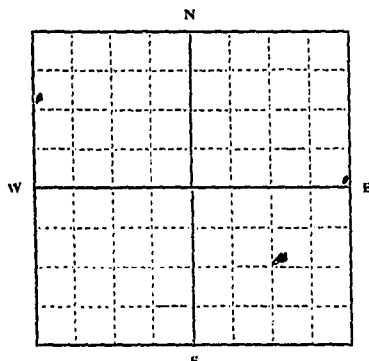
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Dec 31, 1956Owner Liquid Tenders Address Blendive mod.

Contractor (if any) _____

Address of Contractor _____

Date Started _____ Date Completed _____

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Spring flow need piping out and trenching

NW 1/4 NW 1/4 Sec. 22 T. 16 R. 53

Indicate point of appropriation and place of use, if possible.

SE 1/4 & NE 1/4;
NE 1/4 & SE 1/4;

Sec. 22 T. 16 R. 53

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use Stock waterPasture year around.Signature of Owner Liquid TendersDate Dec 31, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

31988

286882

STATE OF MONTANA
County of Dawson

Filed for record this 31st day of

December A. D. 1963, at
3:30 o'clock P.M.

Gordon H. Russell
County Clerk and Recorder.

By Faye Smith Deputy.

File No.

T. 16 R. 53

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 14 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

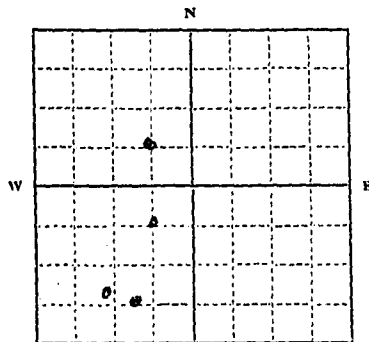
(Under Chapter 237 Montana Session Laws, 1931)

Date of Appropriation of Groundwater Dec 31, 1955Owner Edmund Hudon Address C.R. Hudon, Mondak

Contractor (if any)

Address of Contractor

Date Started..... Date Completed.....

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Springs flow

SW 1/4 Sec 26 T. 16 R. 53
Indicate point of appropriation
and place of use, if possible.

SE 1/4; NW 1/4-26-16-53

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use Stock water for 150 head cattleSignature of Owner Edmund HudonDate Dec 31, 1963

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

286886

STATE OF MONTANA
County of Dawson

Filed for record this 31st day of

December A. D. 1963, at

3:30 o'clock P. M.

Gordon H. Russell
County Clerk and Recorder.

By Faye Scheitlin Deputy.

RECEIVED

MAY 15 1959

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

T. 16 N R. 53 E 27
County Dawson

WATER WELL LOG

	X	

Owner: Sig Lundem Address: C.B.R. Lundem, Mont.
Driller: Dan Haggerty Address: Lundem, Mont.
Date Started: March 19, 1959 Date Completed: March 20, 1959
Location: Sec. 27 T. 16 N. R. 53 E 1/4 sec. S.W. 1/4

Type of well: drilled (Dug, driven, bored, or drilled) Equipment used: Spaulder (Churn drill, rotary, other)

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other:

Casing: 10.8 ft. to 10.8 ft. Type: Steel Size: 4 inch

Cs: ft. to ft. Type: Size:

Casing: ft. to ft. Type: Size:

Perforated or Screened: Ft. 83 to ft. 10.8 Ft. to ft.

Type of screen or perforations: 1/2 inch

Static Water level, for non-flowing well: 51 ft from top feet.

Shut-in pressure, for flowing well: lb./sq. in. on: (date)

Pumping water level: 90 feet at 6 six gal. per min.

How tested: bailer & pump with motor

Length of test: 45 min bailer & 8 hrs with Pump & motor

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

Log of Well

[illegible]

GW

Approved Stock Form—State Publishing Co., Helena, Montana—38496

File No.

T 16 R 53 - 28

DUPLICATE

T 15 R 53 - 4
County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

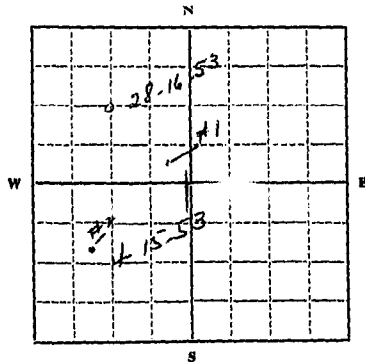
RECEIVED
DEC 30 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Merton Nentwig of Cracker Box Route Glendive
(Name of Appropriator) (Address) (Town)
County of Dawson State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 Sec. 28 T 16 R 53
NW 1/4 Sec. 4 T 15 R 53

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based... #1 Livestock... #2 Livestock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been... #1 1912... #2 1928
4. The amount of groundwater claimed (in miner's inches or gallons per minute)... #1 5 G.P.M. #2 5 G.P.M.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof... None
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal... #1 windmill pump jack #2 windmill pump jack
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater... #1 1912 #2 1928
8. The depth of water table... #1 60' #2 30'
9. So far as it may be available, the type, size and depth of each well or the construction of any other works for the withdrawal of groundwater... #1 windmill pump jack 25' deep 4" casing #2 windmill pump jack 60' deep 4" casing
10. The estimated amount of groundwater withdrawn each year... Both wells 1,296,000 gal per year
11. The log of formations encountered in the drilling of each well if available... none available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record... none

Signature of Owner

Date December 26, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

14255

286525

STATE OF MONTANA
County of Dawson

Filed for record this 26th day of
December A. D. 1963, at
4:30 o'clock P. M.

John W. Russell
County Clerk and Recorder.

By _____ Deputy.

Res. B. L. 200

File No.

T. 16 R. 53

DUPLICATE

County Dawson

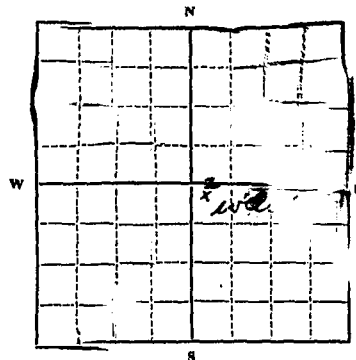
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 14 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Kenneth Edwards of C B Route 1 Glendine
(Name of Appropriator) (Address) (Town)
County of Dawson State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec. 53 T. 16 R. 53

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

The beneficial use which the claim is based on
Domes and livestock use

3. The date of earliest beneficial use; and how continuous the use has been
since 1909

4. The amount of water claimed (in miner's inches or gallons per minute)
350 gallons per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
no

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
pump + jacks

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
about 1909

8. The depth of water table
Don't know

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
hand dug and drilled well 70' deep

10. The estimated amount of groundwater withdrawn each year
no idea

11. The log of formations encountered in the drilling of each well if available
none

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record
none

Signature of Owner

Date 12/30/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

32008

File No.

T. 16 R. 53

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 14 1964

Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

- Top of Ground
(Elev. above sea level.....)
- 7 gravel, mixed with sandy blackloam
 - 15 yellow shale
 - 14 gray shale
 - 4 yellow shale
 - 12 gray shale
 - 4 yellow shale
 - 6 gray shale
 - 18 hard sandrock
 - 10 soft gray shale
 - 2 coal, with water, 2 gpm
 - 8 gray shale
 - 11 water sand, 14 gpm
 - 1 hard blue shale

Owner Kenneth Edwards Address Glendive, Mont.

Driller Ira C. Bond Address Terry, Montana

Date of Notice of Appropriation of Groundwater

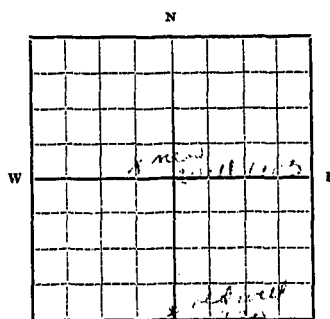
Date well started 12/3/63 Date Completed 12/7/63

Type of well Drilled Equipment Used Drill
(dug, driven, bored or (Churn, drill, rotary or
drilled) other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5 5/8"	11# 4" I.D.	Sur-face	102'	5/16 Torch-ed	90'	101'



SP. 11-53
NE 1/4 Sec. 3 T. 16 R. 53
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well 30' feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 20' feet at 12 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Bailer Length of Test 1 1/2 hr.

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of

acres irrigated, if used for irrigation) (see attached)

10' of dug in 11' to 12' deep

cement casing and used for

water supply etc. & tested at 37

102

Show exact depth of bottom.

1

Driller's License Number

Ira C. Bond
Driller's Signature

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

32000

[illegible]

1961

1. General Information
 2. Object of the Study
 3. Methodology
 4. Results and Discussion
 5. Conclusion
 6. References
 7. Appendices
 8. Index
 9. Summary
 10. Abstract
 11. Introduction
 12. Background
 13. Statement of the Problem
 14. Objectives of the Study
 15. Significance of the Study
 16. Scope of the Study
 17. Limitations of the Study
 18. Organization of the Study
 19. Definition of Terms
 20. Review of Related Literature
 21. Theoretical Framework
 22. Conceptual Framework
 23. Methodology
 24. Research Design
 25. Study Area
 26. Population and Sample
 27. Data Collection
 28. Data Analysis
 29. Ethical Considerations
 30. Results and Discussion
 31. Conclusion
 32. References
 33. Appendices
 34. Index
 35. Summary
 36. Abstract
 37. Introduction
 38. Background
 39. Statement of the Problem
 40. Objectives of the Study
 41. Significance of the Study
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 47. Theoretical Framework
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 57. Conclusion
 58. References
 59. Appendices
 60. Index
 61. Summary
 62. Abstract
 63. Introduction
 64. Background
 65. Statement of the Problem
 66. Objectives of the Study
 67. Significance of the Study
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 71. Definition of Terms
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 73. Theoretical Framework
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 84. References
 85. Appendices
 86. Index
 87. Summary
 88. Abstract
 89. Introduction
 90. Background
 91. Statement of the Problem
 92. Objectives of the Study
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 108. Results and Discussion
 109. Conclusion
 110. References
 111. Appendices
 112. Index
 113. Summary
 114. Abstract
 115. Introduction
 116. Background
 117. Statement of the Problem
 118. Objectives of the Study
 119. Significance of the Study
 120. Scope of the Study
 121. Limitations of the Study
 122. Organization of the Study
 123. Definition of Terms
 124. Review of Related Literature
 125. Theoretical Framework
 126. Conceptual Framework
 127. Methodology
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 136. References
 137. Appendices
 138. Index
 139. Summary
 140. Abstract
 141. Introduction
 142. Background
 143. Statement of the Problem
 144. Objectives of the Study
 145. Significance of the Study
 146. Scope of the Study
 147. Limitations of the Study
 148. Organization of the Study
 149. Definition of Terms
 150. Review of Related Literature
 151. Theoretical Framework
 152. Conceptual Framework
 153. Methodology
 154. Research Design
 155. Study Area
 156. Population and Sample
 157. Data Collection
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 159. Ethical Considerations
 160. Results and Discussion
 161. Conclusion
 162. References
 163. Appendices
 164. Index
 165. Summary
 166. Abstract
 167. Introduction
 168. Background
 169. Statement of the Problem
 170. Objectives of the Study
 171. Significance of the Study
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 175. Definition of Terms
 176. Review of Related Literature
 177. Theoretical Framework
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 179. Methodology
 180. Research Design
 181. Study Area
 182. Population and Sample
 183. Data Collection
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 185. Ethical Considerations
 186. Results and Discussion
 187. Conclusion
 188. References
 189. Appendices
 190. Index
 191. Summary
 192. Abstract
 193. Introduction
 194. Background
 195. Statement of the Problem
 196. Objectives of the Study
 197. Significance of the Study
 198. Scope of the Study
 199. Limitations of the Study
 200. Organization of the Study
 201. Definition of Terms
 202. Review of Related Literature
 203. Theoretical Framework
 204. Conceptual Framework
 205. Methodology
 206. Research Design
 207. Study Area
 208. Population and Sample
 209. Data Collection
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 211. Ethical Considerations
 212. Results and Discussion
 213. Conclusion
 214. References
 215. Appendices
 216. Index
 217. Summary
 218. Abstract
 219. Introduction
 220. Background
 221. Statement of the Problem
 222. Objectives of the Study
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 236. Data Analysis
 237. Ethical Considerations
 238. Results and Discussion
 239. Conclusion
 240. References

286894

STATE OF MONTANA
County of Dawson

Filed for record this 31st day of
December A. D. 1963, at
3:30 o'clock P.M.
Gordon W. Russell
County Clerk and Recorder.

By _____ Deputy.

GW 3

Approved Stock Form—State Publishing Co., Helena, Montana—42199

File No.

T. 16 R. 53

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 14 1964

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Dec 31, 1955Owner Alvin L. Indem Address C. E. R. Indem, Mont.

Contractor (if any)

Address of Contractor

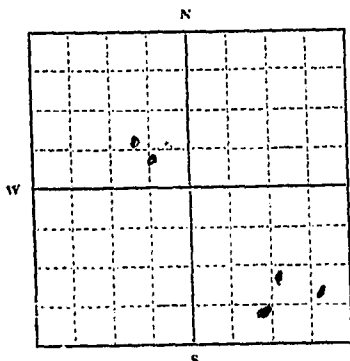
Date Started Date Completed

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Springs flow

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use Stock water

fall winter and Spring pasture
some garden & potatoe irrigation
by pump

Signature of Owner Alvin L. IndemDate Dec 31, 1963

SE 1/4 Sec. 35 T. 16 R. 53

Indicate point of appropriation and place of use, if possible.

SE 1/4, SE 1/4
SW 1/4 SE 1/4

This form to be prepared by contractor (if any), otherwise by the owner.

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

31991

286885

STATE OF MONTANA
County of Dawson

Filed for record this 31st day of
December A. D. 1963, at
3:30 o'clock P. M.

Gordon H. Russell
County Clerk and Recorder.

By Faye Schittler Deputy.

GROUNDWATER INDEX

Page 1 of 1County Dawson Twp. 16 N Rge. 54E

Sec.	Name of Appropriator	Type of Form	County File No.	Remarks
1	Newton, Ralph & Sons	Hw 3	286704	-
4	Newton, Ralph & Sons	Hw 4	286706	-
5	Newton, Ralph & Sons	Hw 4	286706	See Sec 4 Above
6	Newton, Ralph & Sons	Hw 3	286704	See Sec 4 Above
6	Jennet, Alfred	Hw 4	286716	T. 20 N - R. 54 E
6	Jedaco, Inc.	Hw 4	280707	-
6	Jedaco, Inc.	Hw 574	574	-
7	Newton, Ralph & Sons	Hw 3	286704	See Sec 4 Above
7	Jedaco, Inc.	Hw 4	280702	-
7	Skittles, William	Hw 3	286510	-
8	Newton, Ralph & Sons	Hw 4	286707	-
9	Newton, Ralph & Sons	Hw 4	286706	See Sec 4 Above
13	Horst, John C.	Hw 3	286963	-
14	Horst, John C.	Hw 3	286963	See Sec 13 Above
14	Horst, John C.	Hw 4	286924	-
18	Skittles, William	Hw 3	286510	See Sec 7 Above
18	Skittles, William	Hw 34	286509	-
23	Horst, John C.	Hw 3	286963	See Sec 13 Above
24	Horst, John C.	Hw 3	286963	See Sec 13 Above
24	Kinney, H. F.	Hw 3	286974	-
25	Horst, John C.	Hw 3	286965	-
26	Horst, John C.	Hw 3	286965	See Sec 25 Above
28	Highland U.	574	574	-
28	Highland U.	574	574	-
31	Pederson, Clifford M.	Hw 3	286474	-
32	Pederson, Clifford M.	Hw 3	286472	-
32	Pederson, Clifford M.	Hw 4	286475	-
33	Pederson, Clifford M.	Hw 3	286470	-
34	Pederson, Clifford M.	Hw 3	286473	-

File No.

T. 16 R. 54-55

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 14 1964

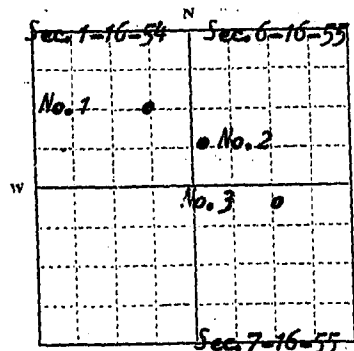
STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Dec. 30, 1963Owner Ralph Newton & Sons Address Glendive, MontanaContractor (if any) Davis & Engle, and Milton HoodAddress of Contractor Glendive, Mont.Date Started 1958 Date Completed Same

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Dug channel with backhoe about 40 feet long and average depth of 3 feet. Put perforated orangeberg in channel with out let into stock tank



Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use flow is continuous
about 3 gallons per minute. Each spring
Measured in gallon can

Indicate point of appropriation and place of use, if possible.

Signature of Owner Ralph Newton & SonsDate DEC 30 1963This form to be prepared by contractor (if any), otherwise by the owner. Prepared by owner

Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology and Quaduplicate for the Appropriator.

Springs No 1 & 2 are developed very similar and flow about the same
Spring No. 3 has a shorter drainage channel, about 30 feet and flows
a little less water.

Subscribed and sworn to before me this 30th day of December 1963.

Witness my hand and the seal of the County of Dawson, State of Montana, this 30th day of December 1963.

2nd 1-12-64

1st 3 0

0 40 5

1st 1 0

2nd 1-12-64 2nd 1-12-64

Witness my hand and the seal of the County of Dawson, State of Montana, this 30th day of December 1963.

1963

2nd

Witness my hand

Subscribed and sworn to before me this 30th day of December 1963.

Witness my hand and the seal of the County of Dawson, State of Montana, this 30th day of December 1963.

Witness my hand and the seal of the County of Dawson, State of Montana, this 30th day of December 1963.

286704

STATE OF MONTANA
County of Dawson

Filed for record this 30th day of

December A. D. 1963, at
3:00 o'clock P. M.

Gordon H. Russell
County Clerk and Recorder.

By Faye Scheithun Deputy.

File No.

T. 16 R. 54

DUPLICATE

County Dawson

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

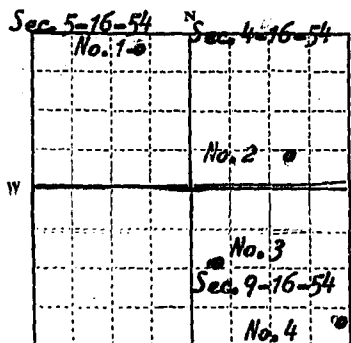
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

JAN 14 1964

STATE ENGINEER

1. Ralph Newton & Sons, of Glenlivet, Mont.
(Name of Appropriator) (Address) (Town)
County of Dawson State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



4-5-9
1/4 Sec. T. 16 R. 54

Indicate point of appropriation
and place of use, if possible. Each
small square represents 10 acres.

2. The beneficial use on which the claim is based.
Stock water wells
3. Date or approximate date of earliest beneficial use; and how continuous the use has been.
In 1914 1958 & 1959 No. 2 was drilled
and used continuously since drilled
4. The amount of groundwater claimed (in miner's inches or gallons per minute).
Five gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof.
No irrigation
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.
Wind mill at each well
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.
Exact date not known
8. The depth of water table.
No. 1 about 180 feet No. 2-16 feet No. 3-12 feet No. 4 30 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.
No. 2 & 3 wells dugby hand, 4 foot hole
No. 1 & 4 wells drilled 4 inch hole
10. The estimated amount of groundwater withdrawn each year.
300 gallons per hour, at 10 hours per day, and 200 days each year on the four wells = 2,400,000 gallons each year
11. The log of formations encountered in the drilling of each well if available.
Not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.
None

Signature of Owner Ralph Newton & SonsDate 12/30/63

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; Duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

31823

NOT RECORDED
ALL OTHERS ARE TO BE KEPT ON THE SAME DATE = 3:00 PM. ANY OTHERS
TO BE KEPT ON THE SAME DATE = 3:00 PM. ANY OTHERS

NO. 1 & 2 BEING KEPT ON THE SAME DATE
NO. 3 & 4 BEING KEPT ON THE SAME DATE
NO. 5 & 6 BEING KEPT ON THE SAME DATE
NO. 7 & 8 BEING KEPT ON THE SAME DATE
NO. 9 & 10 BEING KEPT ON THE SAME DATE
(NOTE: THESE ARE THE ONLY TWO)

ALL OTHERS ARE TO BE KEPT ON THE SAME DATE

NO. 1 & 2 BEING KEPT ON THE SAME DATE

THE OTHERS ARE TO BE KEPT ON THE SAME DATE

THE OTHERS ARE TO BE KEPT ON THE SAME DATE
NO. 1 & 2 BEING KEPT ON THE SAME DATE
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NO. 1 & 2 BEING KEPT ON THE SAME DATE
NO. 3 & 4 BEING KEPT ON THE SAME DATE
NO. 5 & 6 BEING KEPT ON THE SAME DATE
NO. 7 & 8 BEING KEPT ON THE SAME DATE
NO. 9 & 10 BEING KEPT ON THE SAME DATE

286706
286706

STATE OF MONTANA
County of Dawson

Filed for record this 30th day of
December A. D. 1963, at
3:00 o'clock P. M.

Gordon H. Russell
County Clerk and Recorder.

By Faye L. Smith Deputy

GW

Approved Stock Form—State Publishing Co., Helena, Montana—38496

File No.

T. 16N R. 54E

DUPLICATE

County Dawson

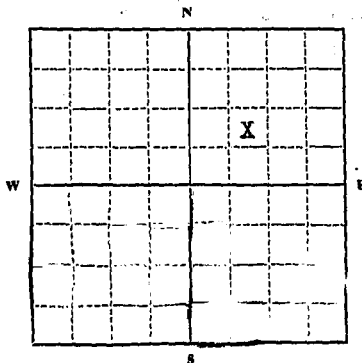
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
SEP 25 1962
STATE ENGINEER

Dedication of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. TEXACO, Inc. of Box 1432 Williston
(Name of Appropriator) (Address) (Town)
County of Williams State of North Dakota
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 NE Sec. 6 T. 15N R. 54E

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres

2. The beneficial use on which the claim is based to dissolve salt in adjacent oil producing well.
J. M. Elpel No. 1

3. Date or approximate date of earliest beneficial use; and how continuous the use has been water has been used continuously since completion of well, April 6, 1961.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 gallons per minute

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
Not used for irrigation

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Subsurface electric well pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater commenced drilling: April 5, 1961
completed drilling: April 6, 1961

8. The depth of water table 35' Static Water Level

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater only one well:
Total Depth - 63'
4-1/2" OD Slotted Casing set at 63'.

10. The estimated amount of groundwater withdrawn each year 85,000 gallons

11. The log of formations encountered in the drilling of each well if available See Reverse

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record Not Applicable

Signature of Owner TEXACO, Inc. by H.H. Bush
Dist. Supt.
Date 9/5/62

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

LOG OF FORMATIONS

DEPTH-FT.

DESCRIPTION

0-2	Silt and gravel
2-4	Clay
4-6	Gravel
8-18	Fine sand & sandy clay
18-25	Yellow sandy clay
25-30	Fine sand & brittle rock shell
30-39	Yellow clay
39-44	Hard rock
44-54	Fine sand
54-58	Clay and coal streaks
58-61	Coal
61-63	Coal and clay

280701

STATE OF MONTANA
County of Dawson

Filed for record this 25th day of
Sept A. D. 1962, at

11:00 o'clock A.M.

Gordon W. Russell
County Clerk and Recorder

By Alvin Anthony Deputy

See pd.

T. 16-N R. 54-E

County DAWSON

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

			X

Owner Selaco Inc.

Address Glendive

Driller William Water Well Dr.

Address Glendive

Date Started 4-5-61

Date Completed 4-6-61

Location: Sec. 6 T. 16-N R. 54-E 1/4 sec. NE 1/4 NE 1/4

Type of well Drilled

(Dug, driven, bored, or drilled)

Equipment used Rotary

(Churn drill, rotary, other)

Water use: Domestic

☐

Municipal

☐

Stock

☐

Irrigation

☐

Industrial

☐

Drainage

☐

Other: trench for oil well

Casing: 0 ft. to 62 ft.

Type: 2 1/2" Kelly size 4 1/2"

Casing: ft. to ft.

Type: Size:

Casing: ft. to ft.

Type: Size:

Perforated or Screened: 53 ft. to 62 ft.

Ft. to ft.

Type of screen or perforation: sand slot

Static Water level, for non-flowing well: 38' feet.

Shut-in pressure, for flowing well: lb./sq. in. on:

(date)

Pumping water level: 50 feet at 15 gal. per min.

How tested: Baild

Length of test: 3 1/2 Hrs.

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of shut-off)

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	2	Fill gravel
2	4	Clay
4	8	Gravel
8	18	fine sand to sandy clay
18	25	yellow sandy clay
25	30	fine sand & brittle rock
30	39	yellow clay
39	44	Hard rock
44	54	fine sand
54	58	Clay & Coal
58	61	Coal
61	63	Coal & Clay

File No. _____

T. 16N R. 54E

DUPLICATE

County Dawson

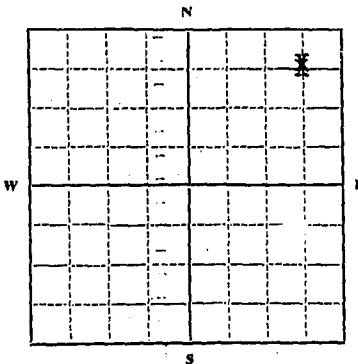
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
SEP 26 1962
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. TEXACO, Inc. of P.O. Box 1432, Williston
(Name of Appropriator) (Address) (Town)
County of Williams State of North Dakota
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 NE Sec. 7 T.16 R.54E

Indicate point of appropriation
and place of use, if possible.
Each small square represents 10
acres.

2. The beneficial use on which the claim is based to dissolve salt in adjacent oil producing well.
NPWG (NCT-8) No. 1

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Water has been used continuously since completion of well, Aug. 17, 1960.

4. Amount of groundwater claimed (in miner's inches or gallons minute). 20 gallons per minute.

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
Not used for irrigation

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Subsurface electric well pump.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Commenced Drilling: August 15, 1960
Completed Drilling: August 17, 1960

8. The depth of water table. 40' static water level

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Only one well:
Total Depth - 250'
4-1/2" OD Casing set at 240'
Perforated Intervals: 168-172'; 200-210'; 232-240'.

10. The estimated amount of groundwater withdrawn each year. 600,000 gallons

11. The log of formations encountered in the drilling of each well if available. See Reverse

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. Not Applicable

Signature of Owner TEXACO, Inc. by H.H. Bush
Dist. Supt.

Date 9/25/62

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.

Please answer all questions. If not applicable, so state, otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.