



13

File No. ....

T. 14N R. 21W

DUPLICATE

County Missoula

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 OFFICE OF STATE ENGINEER

RECEIVED  
 JAN 3 1964  
 STATE ENGINEER

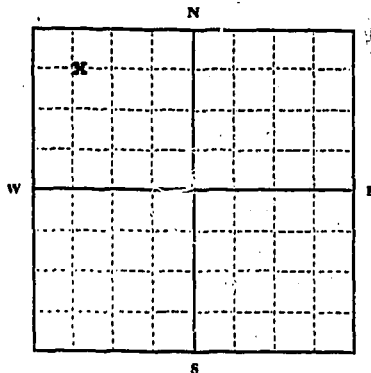
**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

1. Victor Loisells of Route 2 Missoula  
 (Name of Appropriator) (Address) (Town)

County of Missoula State of Montana

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



1/4 Sec. 13 T.14N R. 21W

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 Domestic, stock watering and lawn.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been No. 1 - 1955; No. 2 - 1897

4. The amount of groundwater claimed (in miner's inches or gallons per minute) No. 1 - 50 gals minute  
No. 2 - 10 gals 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 Domestic, stock watering and lawn.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 2 H.P. electric pump for both

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater No. 1 - 1955  
No. 2 - 1897

8. The depth of water table 20 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. 1 - 161 feet 6 inch casing  
No. 2 - 25 feet - 3 foot dug wall concrete casing

10. The estimated amount of groundwater withdrawn each year one million gallons

11. The log of formations encountered in the drilling of each well if available  
No. 1 - gravel and qucksand  
No. 2 - gravel

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 Victor Loisells

Date December 13, 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.

20292

1173

I received and filed the instrument for  
 record on the 31<sup>st</sup> day of Dec 1963  
 at 12 o'clock P.M. permanent files  
 of Missoula County, State of Montana  
 Witness my hand  
 By Ethel Lane County Recorder  
 Fee \$ 1.00 Deputy Paid

MISSOULA COUNTY CLERK  
 MISSOULA, MONTANA  
 1963

MISSOULA COUNTY CLERK  
 MISSOULA, MONTANA  
 1963

File No. ....

T. 24 N R 21 W 13  
County .....

DUPLICATE

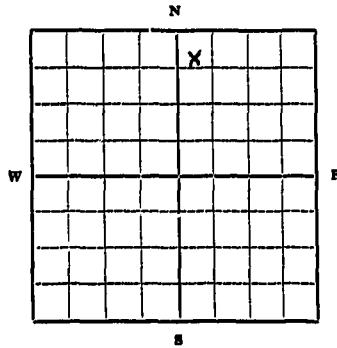
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 3 1963  
STATE ENGINEER

Declaration of Vested Groundwater Rights  
(Under Chapter 237, Montana Session Laws, 1961)

1. Margaritta L. Miller of Rt. #2, Grass Valley, Missoula  
(Name of Appropriator) (Address) (Town)

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



N.W. 1/4 NE 1/4 Sec. 13, T. 14, R. 21  
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 Livestock water and household

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Well first used approximately 1862. Used intermittently since

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 100 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 applicable

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater well hand excavated approximately 1862. Other information unavailable.

8. The depth of water table 20 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 Hand excavated well, 18 inches in diameter. Approximately 25 feet in depth, cased with 18 inch C.M.P. 16 gauge. Various hand and mechanical pumps used. Gasoline powered mechanical pump last used.

10. The estimated amount of groundwater withdrawn each year 15,000 gallons per 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.

Signature of Owner Margaritta L. Miller

Date December 27, 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.

671

215051

I received and <sup>copy</sup> filed this instrument for  
 record on the 20 day of July 1969  
 at 10:27 o'clock A.M., permanent files  
 of Missoula County, State of Montana  
 Witness my hand:  
 MARTIN S. BISHOP, County Recorder  
 By Martin S. Bishop Deputy  
 Fee \$ 2.00 Paid

MISSOULA COUNTY RECORDER  
 MISSOULA, MONTANA

213

File No. \_\_\_\_\_

T. 14 N R 21 W

DUPLICATE

County MISSOULA

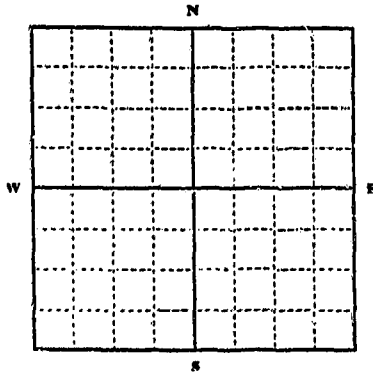
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 3 1963  
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Waldo W. & Doris Williams, of 1953 South 36th, Missoula  
(Name of Appropriator) (Address) (Town)  
County of Missoula State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 Sec. 13, T. 14, R. 21

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

Tract in S.W. 1/4 SE 1/4

2. The beneficial use on which the claim is based. for operating of plumbing fixtures and washing of trucks and equipment

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1958 and constant use since that time

4. The amount of groundwater claimed (in miner's inches or gallons per minute). 85 gallons

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. Electric pump located in well house over the well, approx. 180 feet from the S.W. corner of the property.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Nov. 1958, Drilled well with 6 in. casing

8. The depth of water table. 25 to 90 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. This well is a drilled well and has a depth of about 90 feet, water is pumped by the use of an electric pump.

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

11. The log of formations encountered in the drilling of each well if available. none available, the formation is deep top soil, clay and gravel

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 Waldo W. Williams  
Doris Williams

Date 2-27-63

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.

1998?

783 215191

I received and filed this instrument for  
record on the 21<sup>st</sup> day of Dec 1927  
at 2:45 o'clock P. M., pursuant to  
the laws of the State of Montana  
Witness my hand  
M. J. EINHORN, County Recorder  
By *Med. J. EINHORN* Deputy  
Fee \$ 2.00 Paid





Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	18	Clay
18	26	" gravel sand
26	140	fine sand water
140	146	Gravel water

I received and used this instrument for  
 from 1st of 1st to 27th of 2nd 1958  
 of 3750 14th P. I. program files  
 of 100 14th C. 1958 of 100  
 With: P. I. 14th  
 H. H. V. J. D. G. R. S. G. R.  
 by: Mary G. D. G. R. S. G. R. Deputy  
 fee 5.50 paid

#24

150683

copy

Form No. 18  
8-60

#6

T. 14 N R. 21 W  
County Missoula

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
OCT 18 1961

WATER WELL LOG

STATE ENGINEER


Owner Waldorf-Roeder Paper Products Co Address Missoula, Mont  
Driller Glenn Camp 705 Alder Address Missoula, Mont  
Date Started June 30, 1961 Date Completed Aug 12, 1961  
Location: Sec. 17 T. 14 N R. 21 W 1/4 sec. 5 W

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

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other \_\_\_\_\_

Casing: 5' from top of pit to 169'-4" ft. Type Seamless Size 16" pipe 64 lbs to foot

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or Screened: Ft. 140'-4" to ft. 155'-4" . Ft. 159'-4" to ft. 162'-4"

Type of screen or perforations Mills Knife 3/8 by 3" slots, 12 holes to the foot

Static Water level, for non-flowing well: 22'-4" from top of casing in pit feet.

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

Pumping water level 38'-4" feet at 1900 gal. per min.

How tested: Test Pump

Length of test 10 hours

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

Fast in exact location and date all 3  
Copies with County Clerk & Recorder

(over)



Form No. 18  
2-60

Purchasing Order # 55404

13

T. 14 N R. 81 W

County Missoula

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
OCT 16 1957

WATER WELL LOG

STATE ENGINEER


Owner Waldorf-Horn & Paper Products Address Missoula, Montana

Driller Glenn Camp 705 Alder Address Missoula, Montana

Date Started May 23, 1957 Date Completed May 15, 1957

Location: Sec. 13 T. 14N R. 81W 1/4 sec. SW

Type of well Drilled Equipment used Clam Drill  
(Dug, driven, bored, or drilled) (Cable, drill, rotary, other)

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other Paper Mill

Casing: 2' above ground to 176'-6" ft. Type Seamless 63 lbs Size 16 O.D. 3/8" S.W.

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or Screened: Ft. 155 to ft. 171 . Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations 16' of Perforations  
Hills Knife 3/8" by 3" Slots 10 holes to the foot

Static Water level, for non-flowing well: 21' from top of pipe feet.

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

Pumping water level 42 feet at 1500 gal. per min.

How tested: Test Pump (Turbine Pump)

Length of test 8 hours

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

(over)



Form No. 18  
8-60

Well # 2 13

T. 14 N R. 21 W  
County Missoula

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
OCT 16 1961

WATER WELL LOG

Purchasing Order # 55404


Owner Waldorf- Hoener Paper Products Address Missoula, Montana

Driller Glenn Camp 705 Alder Address Missoula

Date Started April 30, 1957 Date Completed May 21, 1957

Location: Sec. 13 T. 14 N R. 21 W  $\frac{1}{4}$  sec. SW

STATE ENGINEER

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

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other Paper mill

Casing: 2' above fill to 174' ft. Type Seamless 63 lbs. Size 16 O.D. 3/8 S.W.

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or Screened: Ft. 148 to ft. 168 . Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations Mills Knife 3/8 by 3" slots 10 slots to the foot

Static Water level, for non-flowing well: 22 feet.

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

Pumping water level 48 feet at 1500 gal. per min.

How tested: Turbine test pump

Length of test 8 hours

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	7'	Top soil
7'	30'	Gravel & sand, some water at 25 to 30'
30'	80'	Sandy clay some gravel
80'	112'	Sandy clay
112'	116'	Clay
116'	142'	Sandy clay
142'	169'	Big gravel, sand and water
169'	174'	Clay, gravel and boulders

I received and filed this instrument for record on the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_  
 at \_\_\_\_\_, in the County of \_\_\_\_\_, State of Mississippi  
 at \_\_\_\_\_, in the Parish of \_\_\_\_\_, State of Louisiana  
 MARTIN S. BUREAU, Clerk, General Recorder  
 By \_\_\_\_\_, Clerk of the Court  
 Fee \$ \_\_\_\_\_ paid

437  
186083

Form No. 18  
8-60

Well # ~~14~~ #3 (Waldorf)  
13

Purchasing Order 554 04  
T. 14 N R. 21 W

County Missoula

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

Purchasing Order 55404

WATER WELL LOG

RECEIVED  
OCT 15 1961

STATE ENGINEER


Owner Waldorf- Hoener Paper Products Address Missoula, Montana

Driller Glenn Camp 705 Alder Address Missoula, Montana

Date Started March ~~April~~ 7, 1957 Date Completed April 10, 1957

Location: Sec. 13 T. 14 N R. 21 W  $\frac{1}{4}$  sec. SW

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

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other Paper Mill

Casing: 2' above fill ft. to 173' ft. Type Seamless Size 16 O.D. 3/8 S.W.

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or Screened: Ft. 147 to ft. 168 . Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations Mills Knife 3/8 by 3" slots 8 holes to the foot

Static Water level, for non-flowing well: 22'- 10" feet.

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

Pumping water level 52' feet at 1500 gal. per min.

How tested: Turbine Pump

Length of test 8 hours

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

Hole was drilled to 202' . Caved in from 173'-9" to 202' during surging in

developing well.

(over)



Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	7	Fill dirt & gravel
7'	26'	Gravel & water (water from 23 to 26')
26'	95'	Sandy Clay
95'	112'	Sand with very small gravel & water
112'	118'	Yellow Clay
118'	132'	Sandy clay
132'	142'	Small gravel, sand, clay with water
142'	145'	Sand, small gravel some water
145'	146'	Yellow clay
146'	168'	Coarse gravel & sand with water
168'	169'	Yellow clay and gravel
169'	202'	Clay, gravel and boulders

I received and filed this instrument for  
 record on the 12 day of Dec. 1926  
 at Jackson, Miss. by  
 of Mississippi, Clerk of the Court.  
 My office is at Jackson, Mississippi.  
 MARTIN S. STEWART, Clerk, Records  
 By *[Signature]*  
 Notary Public

# 88  
186084

Form No. 18  
8-60

Well # 4

13

T. 14 N R. 21 W

County Missoula

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
OCT 15 1961

WATER WELL LOG

STATE ENGINEER


Owner Waldorf- Hoener Paper Products Address Missoula, Montana

Driller Glenn Camp 705 Alder Address Missoula, Montana

Date Started May 13, 1960 Date Completed May 27, 1960

Location: Sec. 13 T. 14 N R. 21 W  $\frac{1}{4}$  sec. SW

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

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other Paper Mill

Casing: 1' above G. Lft. to 174' ft. Type Seamless 63 lbs Size 16 O.D. 3/8 S.W.

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or Screened: Ft 157' to ft. 169' . Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations Mills Knife 3/8 by 3" slots 10 holes to foot

Static Water level, for non-flowing well: \_\_\_\_\_ 29' feet.

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

Pumping water level \_\_\_\_\_ feet at \_\_\_\_\_ gal. per min.

How tested: \_\_\_\_\_

Length of test \_\_\_\_\_

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

Not tested at this time.

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	7'	Gravel fill
7'	26'	Gravel and sand some water at 25'
26'	80'	Sandy clay with some gravel
80'	112'	Sandy clay
112'	120'	Clay
120'	142'	Sandy clay
142'	148'	Clay and some boulders
148'	153'	Smaller gravel and sand ( some water)
153'	170'	Sand ,coarser gravel and water
170'	174'	Blue - green clay ( no water)

I received and filed this instrument  
 Record on file of \_\_\_\_\_  
 of \_\_\_\_\_  
 at \_\_\_\_\_  
 on \_\_\_\_\_  
 WITNESSES  
 \_\_\_\_\_ County Recorder  
 \_\_\_\_\_ Deputy  
 \_\_\_\_\_

#89  
 186085

Form No. 18  
8-60

Well # 5 13

T. 14 N R. 21 W  
County Missoula

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
OCT 16 1961

WATER WELL LOG

STATE ENGINEER


Owner Waldorf - Hoener Paper Products Address Missoula, Montana  
Driller Glenn Camp 705 Alder Address Missoula, Montana  
Date Started July 16, 1960 Date Completed Aug 4, 1960  
Location: Sec. 13 T. 14 N R. 21 W 1/4 sec. SW

Type of well Drilled Equipment used Churn Drill  
(Dig, driver, bored, or drilled) (Churn, drill, rotary, other)

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other Paper Mill

Casing: 7" above G.M. to 183'-7" ft. Type Seamless 64 Lbs Size 16 O.D. 3/8 S.W.

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or Screened: Ft. 152 to ft. 170 . Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations Mills Knife 3/8 by 3" 220 holes

Static Water level, for non-flowing well: 21' feet.

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

Pumping water level 35 feet at 1200 gal. per min.

How tested: Turbine pump

Length of test 8 hours

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

2" foot plug in bottom of casing

(over)



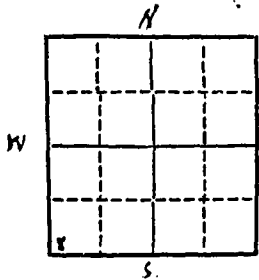
T. 14 N R. 21 W 13  
County Missoula

RECEIVED

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

STATE ENGINEER

WATER WELL LOG



Owner Waldo Williams Address Box 94 Missoula, Mont.  
Driller John Farrell Address Arlee, Mont.  
Date Started May 2 - 1960 Date Completed May 6 1960  
Location: Sec. 13 T. 14 N R. 21 W  $\frac{1}{4}$  sec.

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

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other: \_\_\_\_\_

Casing: 0 ft. to 6' 4" ft. Type \_\_\_\_\_ Size \_\_\_\_\_  
Casing: 6' ft. to 148' ft. Type Steel Size 5"  
Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or Screened: Ft. \_\_\_\_\_ to ft. \_\_\_\_\_ Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations: \_\_\_\_\_

Static Water level, for non-flowing well: \_\_\_\_\_ feet.

Shut-in pressure, for flowing well: \_\_\_\_\_ lb./sq. in. on: May 6 - 1960 (date)

Pumping water level: 50 feet at 2.7 gal. per min.

How tested: Backer

Length of test: 1 Hr

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	6'	<i>pit</i>
<del>6'</del>	<del>28'</del>	<del>gravel clay</del>
6'	28'	gravel clay
28'	140'	Quick sand water
140'	142'	Water and gravel

I received and filed this instrument for  
 record on the 17 day of June 1953  
 at 8:30 o'clock P.M. Per General  
 of Missouri County, State of Missouri  
 Whereof NY Reg. I  
 MARTIN S. DENVER, County Recorder  
 By: CLAY Clerk of Court  
 Fee 1.00 Paid

52

17/823

*copy*

GW.

Approved Stock Form—State Publishing Co., Helena, Montana—4234

File No. \_\_\_\_\_

T. 12<sup>N</sup> R. 21<sup>W</sup>

DUPLICATE

County Missoula

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

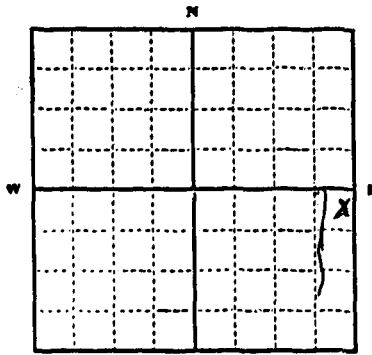
STATE WATER CONSERVATION BOARD

Declaration of Vested Groundwater Rights APR 4 1966

(Under Chapter 237, Montana Session Laws, 1961)

Wille \_\_\_\_\_ McDermott \_\_\_\_\_  
Butzer \_\_\_\_\_ McNulty \_\_\_\_\_  
Coyle \_\_\_\_\_ Morten \_\_\_\_\_  
Missoula \_\_\_\_\_ Sullivan \_\_\_\_\_  
Wickert \_\_\_\_\_ (Town)

1. Gursky Bernard A, of RR # 2,  
(Name of Appropriator) (Address)  
County of Missoula St. of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Sec. 7, T. 14, R. 21

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. Domestic use
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Continuous for past twenty years
- 4. The amount of groundwater claimed (in miner's inches or 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 \_\_\_\_\_
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. ONE HP electric Pump

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. unknown
- 8. The depth of water table. 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. driven well approx 35'
- 10. The estimated amount of groundwater withdrawn each year. 10000 gal per year
- 11. The log of formations encountered in the drilling of each well if available. Not known
- 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 Bernard G. Gursky  
Date 3-31-66

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 to the Appropriator.

40933



88

248793

I received and filed this Instrument for  
 record on the 31 day of Mar, 1966  
 at 4:50 o'clock P.M., permanent files  
 of Missoula County, State of Montana  
 Witness my hand:  
 Veronice R. Cross, County Recorder  
 By June Beinhart Deputy  
 Fee \$ 2.00 Paid

*[Faint, mostly illegible text, likely bleed-through from the reverse side of the page]*

RECEIVED  
 MAR 11 1958  
 Montana Bureau of  
 Mines and Geology

RECEIVED  
 MAR 31 1958

T 14 R 21 24  
 County Missoula

STATE ENGINEER  
 MONTANA BUREAU OF MINES AND GEOLOGY  
 Butte, Montana

WATER WELL LOG

				X

Owner Henry Kramer Address R. 2 Missoula

Driller John Farrell Address Arlee Mont.

Date Started Feb 5 - 1957 Date Completed Feb 16 - 1958

Location: Sec. 24 T. 14 R. 21 1/4 sec. E 1/2 NE 1/4

Type of well Drilled domestic Equipment used X  
(Dug, driven, bored, or drilled) (Churn drill, rotary, other)

Water use: Domestic  Municipal  Stock  Irrigation   
 Industrial  Drainage  Other: \_\_\_\_\_

Casing: 0 ft. to 140 ft. Type Black Size 5"

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or Screened: Ft. \_\_\_\_\_ to ft. \_\_\_\_\_ Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations \_\_\_\_\_

Static Water level, for non-flowing well: 31' feet.

Shut-in pressure, for flowing well: \_\_\_\_\_ lb./sq. in. on: Feb 16 - 1958 (date)

Pumping water level: 60' feet at \_\_\_\_\_ gal. per min. 50

How tested: Compressor

Length of test: 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	27	Clay gravel
27	137	Water fine sand
137	140	Coarse gravel

Copy

150684

#25

I received and read this instrument for  
 record on the 27 day of May 1938  
 at 117 84th St. M. permanent files  
 of Lincoln County State of Montana.  
 WHEREBY my name  
 EVELYN L. H. D. Copy Receiver  
 Mary E. Stalling Deputy  
 For 1938 Paid

24

File No. \_\_\_\_\_

T. 14 N. R. 21 W

DUPLICATE

County \_\_\_\_\_

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

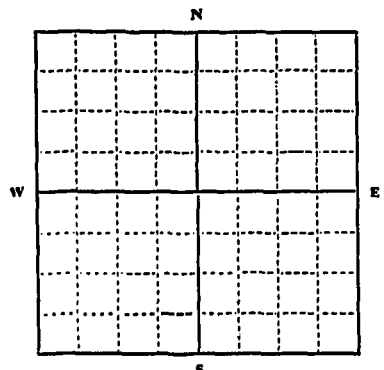
RECEIVED  
JAN 2 1964

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

Helena or  
1. Henry J. La Casse, of Rt. 2 Missoula, Montana  
(Name of Appropriator) (Address) (Town)

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



N.E. 1/4 Sec. 24, T. 14, R. 21

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 house hold irrigation garden - lawn - water Cattle
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been Nov. 1950. used steady since
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10-15 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 one acre of lawn and garden
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal 1/4 horse power pump under house

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater June 1950
- 8. The depth of water table 1.2 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 3/4 ft. 4 in Steel Casing
- 10. The estimated amount of groundwater withdrawn each year 1,200.00
- 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 Henry J. La Casse  
Date Dec 31, 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.

17670

880

215 353

Copy

I received and filed this instrument for  
record on the 31<sup>st</sup> day of Dec 1923  
at 10:08 o'clock P.M. permanent files  
of Missoula County, State of Montana  
Witness my hand:  
MARTIN S. EDWIN, Deputy Recorder  
By *Martin S. Edwin* Deputy  
Fee \$ 2.00 Paid

24

T. \_\_\_\_\_ R. \_\_\_\_\_  
County Missoula **RECEIVED**  
MAY 1 1957

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

STATE ENGINEER

WATER WELL LOG


Owner Waldorf Paper Products Company Address Missoula, Montana  
Driller A.R. Nowbray Address 1518 So. 14th St  
Missoula, Montana  
Date Started April 30, 1957 Date Completed May 21, 1957  
Location: Sec. 24 T. 14N R. 21W 1/4 sec. NE 1/4

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

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other: \_\_\_\_\_

Casing: from 2 ft. above full level 17 1/2 ft. Type 3/8" sidewall Size 16"  
seamless

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or screened: Ft. 149 to ft. 169 Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations Mills knife 3/8" X 3" slots 10 holes per ft. 20' of perf.

Static Water level, for non-flowing well: 22 ft. from top of pipe feet.

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

Pumping water level 48' feet at 2000 gal. per min.

How tested: Turbine pump

Length of test 8 hours

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	7 ft.	Top soil
7	30 ft.	Gravel and sand; some water at 23' to 30'
30	80 ft.	Sandy clay with some gravel
80	112 ft.	Sandy clay
112	116 ft.	Clay
116	142 ft.	<del>(Sandy clay)</del> Sandy clay
142	169 ft.	Big gravel, sand and water
169	174	Clay, gravel and boulders

I received and filed this instrument for record on the 12<sup>th</sup> day of August 1957 at 10:07 a. m. in the office of the Recorder of Deeds, St. Louis County, State of Missouri.

Witness my hand:  
**FRED W. BROWN**  
 County Recorder  
 St. Louis County, Missouri

By \_\_\_\_\_  
 Fee \$ 4.20 Paid \_\_\_\_\_

F29  
 144948  
 [Signature]

24

T. \_\_\_\_\_ R. \_\_\_\_\_

County Missoula

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
JUL 1 1957

WATER WELL LOG

STATE ENGINEER


Owner Waldorf Paper Products Company Address Missoula, Montana

Driller A.R. Mowbray Address 1515 So. 14th St  
Missoula, Montana

Date Started March 7, 1957 Date Completed April 10, 1957

Location: Sec. 24 T. 14N R. 21W 1/4 sec. NE 1/4

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

Water use: Domestic  Municipal  Stock  Irrigation

Industrial  Drainage  Other: \_\_\_\_\_

Casing: 2 ft. above fill level ft. to 173' 9" ft. Type 3/8" sidewall Size 1 1/2"  
seamless

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or Screened: Ft. 147 1/2 to ft. 168 ft. Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations Mills knife 3/8 X 3 perforation; 6 holes to foot

Static Water level, for non-flowing well: 22 ft. 10 in. feet.

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

Pumping water level 52 ft. from top feet at 2000 gals gal. per min.

How tested: Turbine pump

Length of test 8 hours

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	7 ft.	Fill dirt and gravel
7	26 ft.	Gravel
26	95 ft.	Sandy clay
95	112 ft.	Sand and very small gravel with water
112	118 ft.	Yellow clay
118	132 ft.	Sandy clay
132	142 ft.	Small gravel, sand and some clay with water
142	145 ft.	Sand and small gravel with water
145	146 ft.	Yellow clay
146	160 ft.	Coarse gravel, sand with water
160	169 ft.	Yellow clay and gravel
169	202 ft.	Clay, gravel and boulders

I certify and find this to be a true and correct copy of the original log of the well as shown to me by the owner of the same, and as the same is a part of the records of the State of Missouri.

Recorded by: *[Signature]*  
 State of Missouri  
 Recorder  
 at St. Louis, Mo.

3  
 144947  
*[Signature]*

T. 24 R. 11W  
 County Missoula 1957

MONTANA BUREAU OF MINES AND GEOLOGY STATE ENGINEER  
 Butte, Montana

WATER WELL LOG


Owner Waldorf Paper Products Company Address Missoula, Montana  
 Driller A. R. Mowbray Address 1518 So. 14th St. Missoula, Montana  
 Date Started May 23, 1957 Date Completed June 15, 1957  
 Location: Sec. 24 T. 14N R. 11W 1/4 sec. NE1 NW1

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

Water use: Domestic  Municipal  Stock  Irrigation   
 Industrial  Drainage  Other: \_\_\_\_\_

Casing: 2' above fill level ft. to 176' 6" ft. Type 3/8" sidewall seamless Size 16"

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Casing: \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Type \_\_\_\_\_ Size \_\_\_\_\_

Perforated or ~~slotted~~ Ft. 155 to ft. 171 Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of ~~perforations~~ Wells knife: 3/8" X 3" slots, 10 holes per ft. 16' of perf.

Static Water level, for non-flowing well: 21 ft. from top of pipe feet.

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

Pumping water level 42 ft. from top feet at 2000 gal. per min.

How tested: Turbine pump

Length of test: 8 hours

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

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(over)



File No. ....

T 14N R 21W MPH

DUPLICATE

RECEIVED  
DEC 30 1963

County Missoula

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

Notice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Waldorf-Hoerner Paper Products Company Address: Drawer D, Missoula

Driller: Glass Camp Address: Missoula, Montana

Date of Notice of Appropriation of Groundwater.....

Date well started: June 30, 1961 Date Completed: Aug. 12, 1961

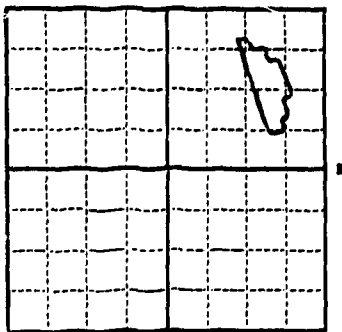
Type of well: 1 1/2" od, 3/8" wall. Equipment Used: Cable tool  
(dug, driven, bored or split, drilled Churn, drill, rotary or drilled) other)

Water Use: Domestic  Municipal  Other  Irrigation   
Industrial  Drainage  Stock

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 water rises in the well.

See log on file in Missoula County Courthouse

Size of Drilled Hole	Size and Weight of Casing	From (Foot)	To (Foot)	PERFORATIONS		
				Kind Size	From (Foot)	To (Foot)
				3/8" slot, 3" long, 8 holes per ft.	148'	155'
					159'	162'



N 1/4 Sec. 24 T. 14N R. 21W  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom. 169'4"

Static Water Level for non-flowing Well 22 feet.

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

Pumping Water Level 38 feet at 1300 gal. per minute.

Discharge in gal. per min. of flowing well.....

How Tested Turbine pump Length of Test 8 hrs.

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).....

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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

214860

558

*Copy*

I received and filed this instrument for  
 record on the 26 day of Dec 1943  
 at 10:26 o'clock A.M., permanent files  
 of Missoula County, State of Montana  
 Witness my hand:  
**MARTIN S. BEHNER**, County Recorder  
 By Martin S. Behner, Deputy  
 Fee \$ 2.00 Paid

RECORDED	INDEXED
FILED	FILED
NOV 11 1943	NOV 11 1943
MISSOULA	MISSOULA

APR 31

File No. ....

T. 14N R. 21W NPM

DUPLICATE

RECEIVED  
DEC 30 1963

County Missoula

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Top of Ground **STATE ENGINEER**  
(Elev. above sea level.....)

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

(Under Chapter 237, Montana Session Laws, 1961)

Owner Waldorf-Hoerner Paper Products Company Address Drawer D, Missoula

Driller Glenn Camp Address Missoula, Montana

Date of Notice of Appropriation of Groundwater.....

Date well started July 16, 1960 Date Completed Aug. 4, 1960

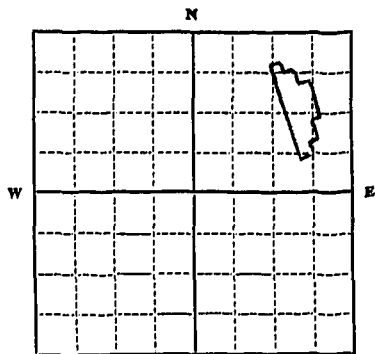
Type of well 3/8" wall, 16" od, smls, drilled Equipment Used Cable tool  
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

Water Use: Domestic  Municipal  Other  Irrigation   
Industrial  Drainage  Stock

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 water rises in the well.

See log on file in Missoula County Courthouse

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
				3/8" slot 3" long, 8 holes per ft.	152'	170'



NW 1/4 Sec. 24 T. 14N R. 21W

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

Show exact depth of bottom. 183' 7"

Static Water Level for non-flowing Well 21 feet.

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

Pumping Water Level 35 feet at 1200 gal. per minute.

Discharge in gal. per min. of flowing well.....

How Tested Turbine pump Length of Test 8 hrs.

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).....

no 7  
Driller's License Number  
Glenn Camp  
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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

557

214859

*Copy*

I received and filed this instrument and record on the 26 day of Dec, 1943 at 10.26 o'clock A.M., permanent files of Missoula County, State of Montana

Witness my hand:  
**MARTIN S. BEHNER**, County Recorder  
 By [Signature], Deputy  
 Fee \$ 2.00 Paid

FILED

MISSOULA COUNTY

RECORDED

INDEXED

DEC 26 1943

File No. ....

T. 14N R. 21W MPH

DUPLICATE

County Missoula

RECEIVED  
DEC 30 1963

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

STATE ENGINEER

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

(Under Chapter 237, Montana Session Laws, 1961)

Owner Waldorf-Hoerner Paper Products Company Address Drawer D, Missoula

Driller Glenn Camp Address Missoula, Montana

Date of Notice of Appropriation of Groundwater.....

Date well started May 3, 1960 Date Completed May 27, 1960

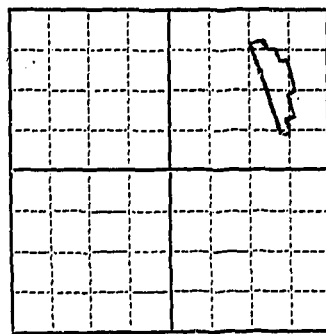
Type of well 16" od, 3/8" wall, cable tool Equipment Used Cable tool  
(dug, driven, bored or soils, drilled (Churn, drill, rotary or drilled) other)

Water Use: Domestic  Municipal  Other  Irrigation   
Industrial  Drainage  Stock

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 water rises in the well.

See log on file in Missoula County Courthouse

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
				3/8" slot 3" long, 8 holes per ft.	157'	169'



NW 1/4 Sec 24 T14N R21W  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom. 174'

Static Water Level for non-flowing Well..... 29 feet.

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

Pumping Water Level Not pumped feet at..... gal. per minute.

Discharge in gal. per min. of flowing well.....

How Tested Turbine pump Length of Test 8 hrs

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).....

No 7  
Driller's License Number

Glenn Camp  
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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

15158



214858

656

*Copy*  
 I received and filed this instrument for  
 record on the 24 day of Dec 1923  
 at 10:24 o'clock A.M., permanent files  
 of Missoula County, State of Montana  
 Witness my hand:  
**MARTIN S. BRINER**, County Recorder  
 By Martin S. Briner, Deputy  
 Fee \$ 2.00 Paid

RECORDED  
 INDEXED  
 2013  
 30 11 20

MISSOULA COUNTY  
 RECORDS

File No. ....

T 14N R 21W MPH

DUPLICATE

RECEIVED  
DEC 30 1963

County Missoula

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Top of Ground STATE ENGINEER

(Elev. above sea level.....)

Notice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Waldorf-Hoerner Paper Products Company Address Drawer D, Missoula

Driller Glenn Camp Address Missoula, Montana

Date of Notice of Appropriation of Groundwater.....

Date well started Mar. 7, 1957 Date Completed April 10, 1957

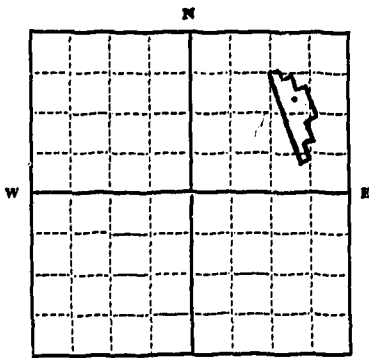
Type of well 16" od, 3/8" wall, cable tool Equipment Used Cable tool  
(dug, driven, bored or snals, drilled (Churn, drill, rotary or drilled) other)

Water Use: Domestic  Municipal  Other  Irrigation   
Industrial  Drainage  Stock

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 water rises in the well.

See log on file in Missoula County Courthouse

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
				3/8" slot 3" long, 8 holes per ft.	147'	168'



Sec. 24 T. 14N R. 21W  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom. 173'9"

Static Water Level for non-flowing Well... 22' 10" .....feet.

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

Pumping Water Level..... 52' .....feet at 1500 .....gal. per minute.

Discharge in gal. per min. of flowing well.....

How Tested... Turbine Pump..... Length of Test... 8 hrs.....

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).....

Driller's License Number no 7

Driller's Signature Glenn Camp

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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

553

314855

I received and filed this instrument for  
record on the 21<sup>st</sup> day of Dec, 1925  
at 11:18 o'clock A.M., permanent files  
of Missoula County, State of Montana  
Witness my hand:  
MARTIN S. BEHNER County Recorder  
By Martin S. Behner Deputy  
Fee \$ 0.25 Paid

1925  
DEC 21 11:18 AM  
RECORDED

File No. \_\_\_\_\_  
DUPLICATE

T. 14N R. 21W MPM  
County Missoula

RECEIVED  
DEC 30 1963

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

Notice of Completion of Groundwater  
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Waldorf-Hoerner Paper Products Company Address Drawer D, Missoula

Driller Glenn Camp Address Missoula, Montana

Date of Notice of Appropriation of Groundwater.....

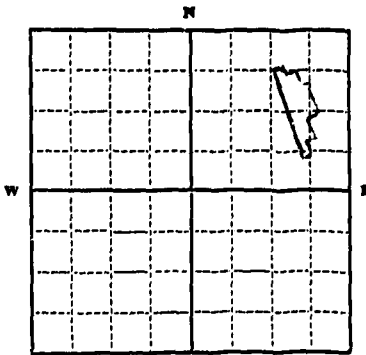
Date well started Apr. 30, 1957 Date Completed May 21, 1957

Type of well 16" od, 3/8" wall, cable tool Equipment Used cable tool  
(dug, driven, bored or bits, drilled (Churn, drill, rotary or other)

Water Use: Domestic  Municipal  Other  Irrigation   
Industrial  Drainage  Stock

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 water rises in the well.  
See log on file in Missoula County Courthouse

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
				3/8" slot 3" long, 8 holes per ft.	148'	168'



NW 1/4 Sec. 24 T. 14N R. 21W  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom. 174 ft.

Static Water Level for non-flowing Well..... 22..... feet.

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

Pumping Water Level..... 48..... feet at..... 1500..... gal. per minute.

Discharge in gal. per min. of flowing well.....

How Tested Turbine pump Length of Test 3 hrs

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).....

Mo 7  
Driller's License Number  
Glenn Camp  
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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

554

814856

I received and filed this instrument for  
 record on the 26 day of Dec 1923  
 at 8:20 o'clock P.M., permanent files  
 of Missoula County, State of Montana  
 Witness my hand:  
 MARTIN E. BEHMER, County Recorder  
 By *Martin E. Behmer* Deputy  
 Fee \$ *2.00* Paid

RECORDED IN THE COUNTY OF MISSOULA  
 STATE OF MONTANA  
 DECEMBER 26 1923

GW 2

File No.

DUPLICATE

RECEIVED  
DEC 30 1963

T 14N R 21W NPM

County Missoula

STATE ENGINEER

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

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

(Under Chapter 237, Montana Session Laws, 1961)

Owner Waldorf-Hoerner Paper Products Company Address Drawer D, Missoula

Driller Glenn Camp Address Missoula

Date of Notice of Appropriation of Groundwater.....

Date well started May 23, 1957 Date Completed June 15, 1957

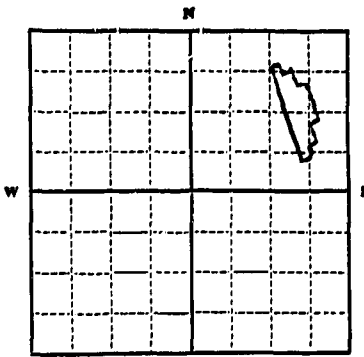
Type of well 16" od, 3/8" wall, drilled Equipment Used Cable tool  
(dug, driven, bored or drilled (Churn, drill, rotary or other))

Water Use: Domestic  Municipal  Other  Irrigation   
Industrial  Drainage  Stock

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 water rises in the well.

See log on file in Missoula County Courthouse

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
				3/8" slot 3" long, 8 holes per ft.	155'	171'



MM 1/4 Sec. 24 T. 14N R. 21W

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

Show exact depth of bottom. 176' 6"

Static Water Level for non-flowing Well..... 21..... feet.

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

Pumping Water Level..... 42..... feet at..... 1500..... gal. per minute.

Discharge in gal. per min. of flowing well.....

How Tested..... Turbine pump..... Length of Test..... 8 hrs.

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).....

No 7  
Driller's License Number

Glenn Camp  
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 Montana Bureau of Mines and Geology and Quadruplicate for the Appropriator.

555

814859

I received and filed this instrument for  
record on the 26 day of Dec 1963  
at 10:22 o'clock A.M., permanent files  
of Missoula County, State of Montana  
Witness my hand:  
MARTIN S. BEHNER, County Recorder  
By *[Signature]* Deputy  
Fee \$..... Paid

1963  
DEC 26  
10 22 AM  
MISSOULA COUNTY  
RECORDS

GW1

File No. ....

T 14N R 21W MPH 24

DUPLICATE

County Missoula

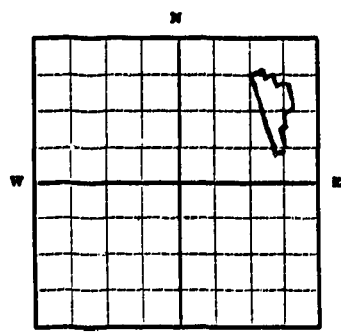
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
DEC 30 1963

Notice of Appropriation of Groundwater  
(Under Chapter 237, Montana Session Laws, 1961) STATE ENGINEER

- I, Waldorf-Hoerner Paper Products Co., of Missoula  
(Name of Appropriator) (Address) (Town)  
County of \_\_\_\_\_, State of \_\_\_\_\_, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
- The beneficial use to which water is to be applied is Industrial Use  
(describe lands to be benefited, if for irrigation)
- The rate of use in gallons per minute or miner's inches of groundwater claimed 20,000 gpm
- The annual period (inclusive dates) of intended use Continuous
- The probable or intended date of first beneficial use by April 1957
- The probable or intended date of commencement and completion of the well\* or wells\*  
Start in March 1957
- The location, type, size and depth of well or wells contemplated Up to ten wells (10)  
16" dia., 200' deep, in the plant area per sketch
- The probable or estimated depth of the water table or artesian aquifer 30 feet
- Name, address and license number of the driller engaged Glen Camp, Missoula  
License No. 7

10. Give such other similar information as may be useful in carrying out the policy of this act.....



NW 1/4 Sec. 24 T. 14N 21W

Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator W.C. Halge Aust Levy  
Date December 23, 1963

\* As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn."

Three copies of this notice are to be filed with 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 School of Mines and Quadruplicate for the Appropriator.



552

214854

I received and filed the instrument for  
record on the 21<sup>st</sup> day of Dec. 1963  
at 10:16 o'clock A.M., permanent files  
of Missoula County, State of Montana  
Witness my hand:  
MARTIN S. BEHNER, County Recorder  
By Martin S. Behner Deputy  
Fee \$ 2.00 Paid

File No. ....

T. 14 N. 21 W. 24

DUPLICATE

County Missoula

LOG

JUL 20 1970

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

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

(Under Chapter 237, Montana Session Laws, 1961)

0-3 Gravel & Brown Clay

3-23 Sand and Gravel

23-32 Sandy Clay and Water

32-58 Sand and Clay

58-60 Small Gravel & Water

60-62 Tan Clay

62-77 Sand and water

77-79 Sandy Clay

79-138 Silty sand & Water

138-165 Sand, Gravel & Water

165-168 1/2 Tan Clay

Owner.....HQERNER, WALDORF.....Address.....Missoula, Montana  
CAMP WELL DRILLING &  
1522 S. 14th W.

Driller.....PUMP SUPPLY.....Address.....Missoula, Montana

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

Date well started.....June 19, 1970.....Date completed.....June 24, 1970.....

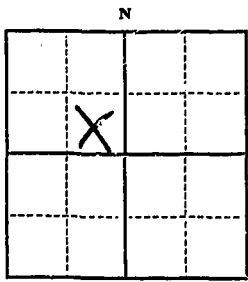
Type of well.....Drilled.....Equipment used.....Churn Drill  
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)

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)
6" I.D.	6" I.D. 17 lb per ft.	1' 6" above g.l.	168 1/2'	Mills knife 3/2 x 3"	152' 5 holes to rd 6" apart total 100 holes	162'

Doc. No. 292831  
Filed for record  
this 8 day of July  
A. D. 19 70, at 2:35 P. M.



Static Water Level for non-flowing well .....27.....feet.

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

Pumping Water Level.....32.....feet  
at.....125.....gal. per minute.

Discharge in gal. per min. of flowing well .....

How Tested.....Air Compressor.....

Length of Test.....5 hours.....

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

.....1/4..... Sec. 24 T. 14N R. 21W  
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).

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.

License # 7  
Driller's License Number

Glen Camp  
Driller's Signature CAMP WELL


DRILLING & PUMP SUPPLY  
46660

2012

292831

I received and filed this Instrument for  
 record on the 8<sup>th</sup> day of July, 1972,  
 at 3:35 o'clock P.M. permanent files  
 of Missoula County, State of Montana  
 Witness my hand:  
Vermaas R. Cyruse, County Recorder  
 By [Signature], Deputy  
 Fee \$2.00 Paid [Signature]

Year	Month	Day	Time	Amount	By	For
1972	July	8	3:35 P.M.	\$2.00	[Signature]	Recording Fee
1972	July	15	10:00 A.M.	\$5.00	[Signature]	Recording Fee
1972	August	1	9:00 A.M.	\$3.00	[Signature]	Recording Fee
1972	August	15	11:00 A.M.	\$4.00	[Signature]	Recording Fee
1972	September	1	10:30 A.M.	\$2.50	[Signature]	Recording Fee
1972	September	15	9:30 A.M.	\$3.50	[Signature]	Recording Fee
1972	October	1	11:00 A.M.	\$4.50	[Signature]	Recording Fee
1972	October	15	10:00 A.M.	\$3.00	[Signature]	Recording Fee
1972	November	1	11:30 A.M.	\$4.00	[Signature]	Recording Fee
1972	November	15	10:30 A.M.	\$3.50	[Signature]	Recording Fee
1972	December	1	11:00 A.M.	\$4.50	[Signature]	Recording Fee
1972	December	15	10:00 A.M.	\$3.00	[Signature]	Recording Fee
1973	January	1	11:30 A.M.	\$4.00	[Signature]	Recording Fee
1973	January	15	10:30 A.M.	\$3.50	[Signature]	Recording Fee
1973	February	1	11:00 A.M.	\$4.50	[Signature]	Recording Fee
1973	February	15	10:00 A.M.	\$3.00	[Signature]	Recording Fee
1973	March	1	11:30 A.M.	\$4.00	[Signature]	Recording Fee
1973	March	15	10:30 A.M.	\$3.50	[Signature]	Recording Fee
1973	April	1	11:00 A.M.	\$4.50	[Signature]	Recording Fee
1973	April	15	10:00 A.M.	\$3.00	[Signature]	Recording Fee
1973	May	1	11:30 A.M.	\$4.00	[Signature]	Recording Fee
1973	May	15	10:30 A.M.	\$3.50	[Signature]	Recording Fee
1973	June	1	11:00 A.M.	\$4.50	[Signature]	Recording Fee
1973	June	15	10:00 A.M.	\$3.00	[Signature]	Recording Fee
1973	July	1	11:30 A.M.	\$4.00	[Signature]	Recording Fee
1973	July	15	10:30 A.M.	\$3.50	[Signature]	Recording Fee
1973	August	1	11:00 A.M.	\$4.50	[Signature]	Recording Fee
1973	August	15	10:00 A.M.	\$3.00	[Signature]	Recording Fee
1973	September	1	11:30 A.M.	\$4.00	[Signature]	Recording Fee
1973	September	15	10:30 A.M.	\$3.50	[Signature]	Recording Fee
1973	October	1	11:00 A.M.	\$4.50	[Signature]	Recording Fee
1973	October	15	10:00 A.M.	\$3.00	[Signature]	Recording Fee
1973	November	1	11:30 A.M.	\$4.00	[Signature]	Recording Fee
1973	November	15	10:30 A.M.	\$3.50	[Signature]	Recording Fee
1973	December	1	11:00 A.M.	\$4.50	[Signature]	Recording Fee
1973	December	15	10:00 A.M.	\$3.00	[Signature]	Recording Fee

25 

File No. MAR 16 1966

T. 14<sup>N</sup> R. 21<sup>W</sup>

DUPLICATE  
Bills: McDermott  
Bills: McNulty  
Co: Morton  
Director: Sumner  
District: \_\_\_\_\_

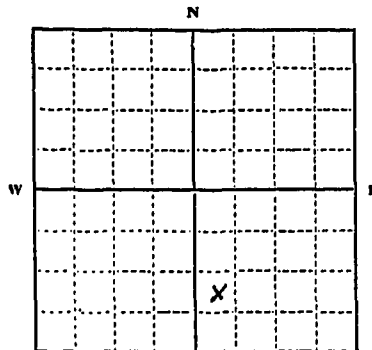
County Missoula

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

### Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Warren W Danforth, of Rt #2 Missoula  
(Name of Appropriator) (Address) (Town)  
County of Missoula State of Montana  
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 SW Sec. 25 T. 14 R. 21

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 domestic purposes
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been since 1958  
used continuously since
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) approximately 40 gals 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 pump

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater same as above
- 8. The depth of water table not known
- 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  
Depth 45 ft. 4 in casing
- 10. The estimated amount of groundwater withdrawn each year Do not know
- 11. The log of formations encountered in the drilling of each well if available not known
- 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 known

Signature of Owner Warren W Danforth  
Date 3-14-66

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.

40292

#1583

248048

I received and filed this Instrument for  
record on the 14<sup>th</sup> day of Mar 1966  
at 11:00 o'clock P.M., permanent office  
of Missouri County, State of Montana  
Witness my hand:  
Cerrano J. Croose County Recorder  
By Bozella A. Cunningham Deputy  
Fee \$ 2.00 Per cash

File No. STATE WATER CONSERVATION BOARD

T. 14N R. 21W

25

ORIGINAL

APR 25 1966

County Missoula

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

**Notice of Appropriation of Groundwater**  
(Under Chapter 237, Montana Session Laws, 1961)

- 1. Waldorf - Hoerner Paper Products Company of Drawer D, Missoula  
(Name of Appropriator) (Address) (Town)  
County of Missoula, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
- 2. The beneficial use to which water is to be applied is Industrial & Domestic supply necessary for operation of paper products plant.  
(describe lands to be benefited, if for irrigation)
- 3. The rate of use in gallons per minute or miner's inches of groundwater claimed Sixteen Thousand Gallons Per Minute
- 4. The annual period (inclusive dates) of intended use Jan. 1, through Dec. 31,
- 5. The probable or intended date of first beneficial use June 1, 1966
- 6. The probable or intended date of commencement and completion of the well\* or wells\* Start 3/28/66; Complete one 2000 GPM unit every thirty days.
- 7. The location, type, size and depth of well or wells contemplated Sec. 25 T. 14N R. 21W 18" to 24" wells; 150' to 180' deep.
- 8. The probable or estimated depth of the water table or artesian aquifer Aquifer 115 - 160; Water table approximately eight feet from surface.
- 9. Name, address and license number of the driller engaged Liberty Drilling & Pump Co. William F. Osborne, 2500 Reserve Street, Missoula, Montana Water Well Contractor License #52, Public Contractor License #1592A
- 10. Give such other similar information as may be useful in carrying out the policy of this act.

By the drilling of test wells and through investigations conducted by the US Geological Survey, Montana Bureau Of Mines and Appropriator. A large aquifer capable of producing clear sand free, uncontaminated water has been found at this location. Through the drilling of wells and proper management thereafter, Appropriator plans to develop this as a dependable long range source of water supply for their operations in this area.

		X					
		X					
		X					
		X					
		X					
		X					
		X					
		X					
		X					

SW 1/4 Sec. 25 T. 14N R. 21W

Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator Waldorf Paper Prod. Co.  
Date April 14, 1966

\* As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn."

Three copies of this notice are to be filed with 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 School of Mines and Quadruplicate for the Appropriator.

41003

1576

249484

I received and filed this Instrument for  
record on the 21... day of April 1966...  
at 10:30... o'clock A.M., permanent files  
of Missoula County, State of Montana  
Witness my hand:  
Vermae R. Crouse, County Recorder  
By *M. M. Cunningham*, Deputy  
Fee \$2.00... Paid *h*

File No. \_\_\_\_\_

T 14N R 21W

TRIPPLICATE

County Missoula

RECEIVED  
JUN 14 1973

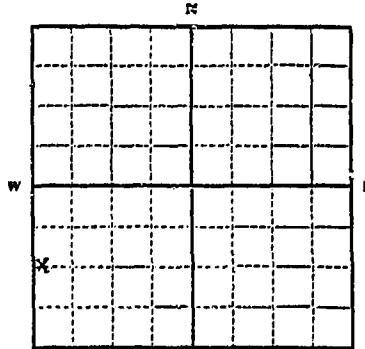
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

Notice of Appropriation of Groundwater  
(Under Chapter 237, Montana Session Laws, 1961)

- I, Berner Waldorf Corporation of Drawer D Missoula  
(Name of Appropriator) (Address) (Town)  
County of Missoula, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
- The beneficial use to which water is to be applied is Industrial  
(describe lands to be benefited, if for irrigation)
- The rate of use in gallons per minute or miner's inches of groundwater claimed 2000 GPM
- The annual period (inclusive dates) of intended use Continuous
- The probable or intended date of first beneficial use July, 1973
- The probable or intended date of commencement and completion of the well\* or wells\*  
June, 1973 July, 1973
- The location, type, size and depth of well or wells contemplated Mill Division -  
Drilled - Eighteen inch - 162 ft.
- The probable or estimated depth of the water table or artesian aquifer 10 feet from surface
- Name, address and license number of the driller engaged William F. Osborne dba/Liberty  
Drilling Company, Water Well Contractors License No. 52, Public  
Contractors License No. 1592 CANSB
- Give such other similar information as may be useful

in carrying out the policy of this act. Drilling,  
Furnishing and Installing Casing &  
Drive Shoes as necessary, Sampling,  
Screening, Developing and Capacity  
Testing an eighteen inch well



File 2500, 33394

Date June 12, 1973

Time 8:00 a.m.

SW 1/4 Sec. 25 T 14N R 21W

Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator Ray Countryman

Date June 11, 1973

\* As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn."

Three copies of this notice are to be filed with 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.



2500

333194

I received and filed this instrument for  
record on the 12 day of Jan, 1973  
at 8:00 o'clock A.M., permanent files  
of Missoula County, State of Montana  
Witness my hand:  
Dorothy L. Head, County Recorder  
By Shirley M. Sloan, Deputy  
Fee \$ 2.00 Paid ca

STATE WATER CONSERVATION BOARD  
File No. W - H No. Seven

T. 14N R. 21W  
County Missoula

NOV 9 1966

DUPLICATE

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Waldorf - Hoerner

Owner Paper Products Co. Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater 4/19/66

Date well started 8/23/66 Date completed 9/12/66

Top of Ground  
(Elev. above sea level 3088')

#### Formations Log:

0 - 1 1/2 Black dirt.  
1 1/2 - 19 Sand, gravel, cobbles & boulders with some tan to gray silt mixed in.

19 - 27 Tan silt mixed with gravel & cobbles.

27 - 41 Fine brown sand mixed with a few gravels & tan clay in thin alternate layers.

41 - 53 Tan sandy clay with some gravel imbedded.

53 - 64 Fine gray sand mixed with tan silt.

64 - 90 Brown sandy clay with gravel imbedded.

90 - 94 Gray sand and gravel mixed with tan silt.

94 - 104 Gravel imbedded in reddish tan clay.

104 - 107 Very fine tan silty sand, gravel and cobbles.

107 - 110 Very fine tan silty sand & coarse gravel imbedded in tan clay.

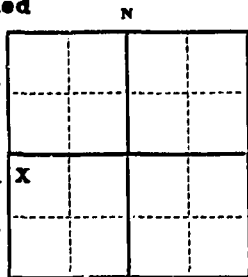
110 - 113 Fine tan sand mixed with very coarse gravel & cobbles.

113 - 121 Fine tan sand with fairly well graded gravels.

121 - 134 Fine tan sand with well graded fine to coarse gravels.  
contd.

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.

From (Feet)	To (Feet)	PERFORATIONS		
		Kind Size	From (Feet)	To (Feet)
+30"	111	18" telescope size Johnson close rodded Arcco Iron Well Screen	109	144
144	163	Tail pipe with a solid closed bottom		



Static Water Level for non-flowing well  
10.9m feet.

Shut-in Pressure for Flowing Well Non-f

Pumping Water Level 36.17m feet at 2000 gal. per minute.

Discharge in gal. per min. of flowing well

Non-flowing

How Tested Air Lift Pump

Length of Test 3 1/2 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) An 18 inch telescope size Johnson close rodded Arcco Iron Well Screen is set from 109 feet to 144 feet. The slot openings are

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).

Pulp & Paper Mill

Show exact depth of bottom.  
Bottom of hole 163'

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.

52  
Driller's License Number  
Willie B. Osborne  
Driller's Signature

41,594

Formations Log contd,

- 134 - 139 Fine tan sand with fairly well graded gravels.
- 139 - 144 Fine tan sand mixed with coarse gravels and cobblestones.
- 144 - 152 Fine sand and coarse gravel mixed with reddish brown clay.
- 152 - 163 Rock. Gray Limestone.

110 - 113	90/1000 slot
113 - 121	90/1000 slot
121 - 134	100/1000 slot
134 - 139	90/1000 slot
139 - 144	80/1000 slot

The screen is fitted with a tightly swaged lead packer top and a 19 foot tail pipe with a solid closed bottom. All water entering the well is coming through the slots in this screen.

Development Log:

Well was initially developed with a solid block surge, a valved surge and sand pump until gravel pack was built up around screen and formation stabilized. Development was then completed by surging and pumping with compressed air. During the air development phase well was pumped in excess of 4000 gallons per minute.

Water Log:

Well was pumped at rates exceeding 4000 gallons per minute during development phase with compressed air. While accurate drawdown readings are not obtainable using this method of pumping all indications are that this well will produce 2000 gallons per minute with less than forty feet of drawdown from static level. When pumping was stopped well recovered, nineteen minutes after pumping was stopped. Static water level at completion of well was 10'9" from surface.

The water rises in the well 10'9" from surface.

Received and filed this instrument for  
 record on the 4<sup>th</sup> day of June, 1966.  
 J. M. N. Permanent Files  
 Nevada County, State of Nevada  
 James H. Cooper, County Recorder  
 Nevada County, Nevada  
 100  
 Filed

100  
 255-316

GW1

File No. ....

DUPLICATE

*no number*

T. 14N R. 21W

County Missoula

25

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

CONSERVATION BOARD

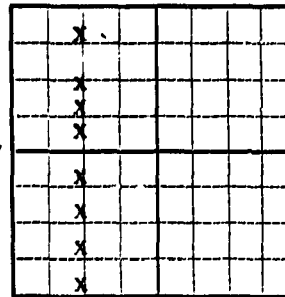
**Notice of Appropriation of Groundwater**

(Under Chapter 237, Montana Session Laws, 1961)

18 1966  
Waldorf  
Hoerner  
Paper  
Co.  
Sullivan

1. **Waldorf - Hoerner Paper Products Company**, of **Drawer D, Missoula**, (Name of Appropriator) (Address) (Town) County of **Missoula**, State of **Montana**, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.
2. The beneficial use to which water is to be applied is **Industrial & Domestic supply necessary for operation of paper products plant.**  
(describe lands to be benefited, if for irrigation)
3. The rate of use in gallons per minute or miner's inches of groundwater claimed **Sixteen Thousand Gallons Per Minute**
4. The annual period (inclusive dates) of intended use **Jan. 1. through Dec. 31.**
5. The probable or intended date of first beneficial use **June 1. 1966**
6. The probable or intended date of commencement and completion of the well\* or wells\* **Start 3/28/66; Complete one 2000 GPM unit every thirty days.**
7. The location, type, size and depth of well or wells contemplated **Sec 25 T 14N R 21W 18" to 24" wells; 150' to 180' deep**
8. The probable or estimated depth of the water table or artesian aquifer **Aquifer 115 - 160; Water table approximately eight feet from surface.**
9. Name, address and license number of the driller engaged **Liberty Drilling & Pump Co. William F. Osborne, 2500 Reserve Street, Missoula, Montana Water Well Contractor License #2. Public Contractor License #1592A**
10. Give such other similar information as may be use-

ful in carrying out the policy of this act By the drilling of test wells and through investigations conducted by the US Geological Survey, Montana Bureau Of Mines and Appropriator. A large aquifer capable of producing clear sand free, uncontaminated water has been found at this location Through the drilling of wells and proper management thereafter, Appropriator plans to develop this as a dependable long range source of water supply for their operations in this area.



SW 1/4 Sec 25 T14N R 21W

Locate well or other means of development as accurately as possible on the plat.

Signature of Appropriator *Waldorf Hoerner Paper Prod Co.*  
*W.C. Hoerner, Secy.*  
Date **April 14, 1966**

\* As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn."

Three copies of this notice are to be filed with 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 School of Mines and Quadruplicate for the Appropriator.

40977