GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—40472

File No.....

T 32 N R 16 E 4

DUPLICATE

Havre townsite

County Hill

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
SEP 28 1964
STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

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

0 TO 5	Soil
5	Sandy Brown Clay
15	Runny Sand - Trace
19	of Water
33	Silty Brown Clay
36	Grey Sand - Trace of
	Gravel + Water
41	Blue-Grey Clay (Soft)
44	Grey Sand - Gravel -
	Water (Approx 12 GPM)
	(1.0 PPM Iron - Shut Off)
49	Grey Clay
57	Silty Grey Clay
59	Sand + Coarse Gravel
63	Silty Grey Clay
64½	Coarse Gravel,
	Considerable Silt +
	Sand. (Unable To Clear)
67	Grey Sand, Silt + Coal Particles
76	Grey Clay
79	Yellowish-Brown Shale
88	Brown Sandstone,
	Water - Approx 11 GPM
88	Yellowish-Grey Shale Below 88'

Show exact depth of bottom.

Owner DAVID H. TURNER Address 849 5TH ST N HAVRE, MONT

Driller HI-LINE DRILLING SERVICE Address HAVRE, MONTANA

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

Date well started SEPT 12, 1964 Date Completed SEPT 19, 1964

Type of well DRILLED (dug, driven, bored or drilled) Equipment Used CABLE TOOL RIG (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.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
6 5/8"	6 1/8" I.D. 13# PER FOOT	0	79	No Perforations Casing Set Directly Above Sandstone At 79 Ft. Sandstone From 79'-88' Left Open. (Not Cased)		

Static Water Level for non-flowing Well 11 feet.

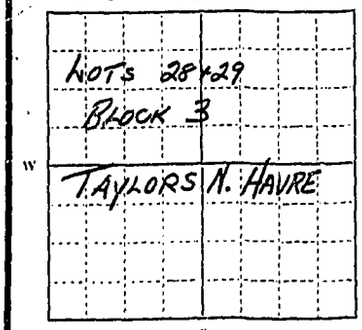
Shut-in Pressure for Flowing Well NOT APPLICABLE

Pumping Water Level 77 feet at 10 gal. per minute.

Discharge in gal. per min. of flowing well NOT APPLICABLE

How Tested BAILER + PUMP Length of Test 12 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) WATER AT 44 FT LEVEL CASED OFF DUE TO IRON + HARDNESS + 64½ FT VEIN SHUT OFF DUE TO CONSIDERABLE SILTING CONDITION



.....¼..... Sec 4 S T 32 N R 16 E

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

HARDNESS 7 GR. PER GALLON
IRON 0.3 PPM
P.H. 8

46
Driller's License Number

Herbert Greier
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.

38491

Doc. No. 400400

DAVID H. TURNER

TO

THE PUBLIC

NOTICE OF COMPLETION OF
GROUNDWATER APPROPRIATION BY
MEANS OF WELL

STATE OF MONTANA,
COUNTY OF HILL } ss.
Filed at 10:30 *o'clock* a. *m.*

ON SEP 25 1964

L E Blom
COUNTY CLERK

By _____
DEPUTY

Fee $2.00 pd

GW
FILE NO.

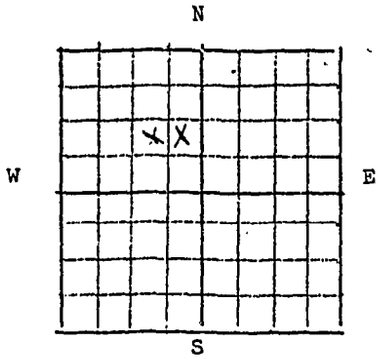
TWP 32 N RGE 16 E
COUNTY

RECEIVED
JAN 1 8 1964
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Laurence L Whaley, of 179 FARLEY AVE
(Name of Appropriator) (Address) (Town)
County of HILL, State of MONTANA
Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:



NW¼SE Sec 4 T 32 R 16

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 Lawn Garden

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1960

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 House Yard

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

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

8. The depth of water table It is not so

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

10. The estimated amount of groundwater withdrawn each year 360 000

11. The log of formations encountered in the drilling of each well if available Do not know

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 Laurence L Whaley

Date Dec 31 — 1963

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

31160

397102

LAURENCE L. WHALEY

TO

THE PUBLIC

DECLARATION OF VESTED
GROUNDWATER RIGHTS

STATE OF MONTANA }ss.
COUNTY OF HILL }
Filed at 11 *o'clock* a *m.*

ON DEC 31 1963

COUNTY CLERK

by _____ DEPUTY

FEE: $2.00 pd.

GW 4
FILE NO. _____

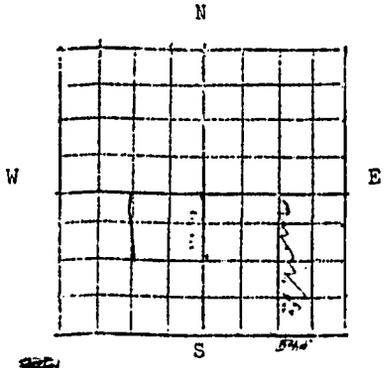
TWP 32 N RGE N. of 16 E.M.M.
COUNTY Hill

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

JAN 1 1962
STATE ENGINEER

1. Charles Mynia & Violet Mae Mynia, of 174 Farley Ave., Havre
(Name of Appropriator) (Address) (Town)
County of Hill, State of Montana
have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:



~~SE~~ ~~NE~~ ¼ SW Sec. 4 T 32N R 16 E.M.M.
NE

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 and irrigation (5) five wells

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
30 yrs. plus continuous
though some wells haven't been used for 10 yrs the others are in use.

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
5,000 G.P.H. 100 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
0.86

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
motor & jive pumps

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater well five completed June 13, 1954 the others were prior. (new well started Jan 63 but not in will be #6).

8. The depth of water table 46ft.

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
(1,2,3,4,) not known 5 8" 46'

10. The estimated amount of groundwater withdrawn each year

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

Date 12-31-63

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

31269

GW-4
FILE NO._____

TWP 32 N RGE N. of 16 E.M.M.
COUNTY Hill

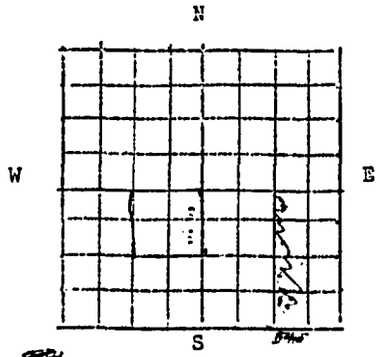
4

RECEIVED
JAN 13 1964
STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Charles Wynia & Violet Mae Wynia, of 174 Farley Ave., Havre
(Name of Appropriator) (Address) (Town)
County of Hill, State of Montana
have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:



NE ¼ SW Sec 4 T 32N R 16 E.MM.
NE

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 and irrigation (5) five wells

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
30 yrs. plus continuous
though some wells haven't been used for
10 yrs the others are in use.

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
5,000 G.P.H. 100 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
0.86

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
motor drive pumps

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater well five completed Aug 13, 1954
the others were prior. (new well started Aug 63 but not in will be #6).

8. The depth of water table 56ft.

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
(1,2,3,4,) not known 5 2" 86'

10. The estimated amount of groundwater withdrawn each year

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

Date 12-31-63

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

31269

397218

CHARLES & VIOLET WYNIA

TO

THE PUBLIC

DECLARATION OF VESTED
GROUND WATER RIGHTS

STATE OF MONTANA)
COUNTY OF HILL) ss.
Filed at 11 o'clock A.M.

NOV 1963

COUNTY CLERK

DEPUTY

FEE: $2.00 pd.

CW-4
FI[redacted] NO. [illegible]

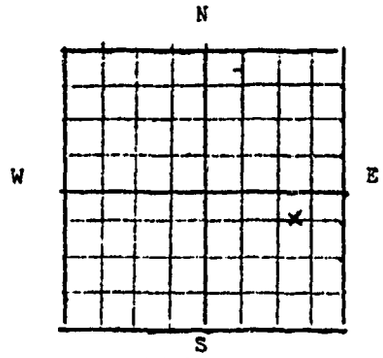
TWP 32 N RGE 16 E
COUNTY [illegible]

[redacted] 5

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. [illegible], of [illegible] [illegible]
(Name of Appropriator) (Address) (Town)
County of _____, State of _____
Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:



Barnaman Dist.
HO NE ~~SE~~ ¼ Sec 5 T 32 R 16

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
Household & garden

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
1959 Continuous

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1957

8. The depth of water table 40 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
50 ft. Sandpoint 1½" pipe

10. The estimated amount of groundwater withdrawn each year 100,000 gal

11. The log of formations encountered in the drilling of each well if 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 [illegible]

Date 12-31-63

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

31172

397114

RENE BEAUCHENE

TO

THE PUBLIC

DECLARATION OF VESTED
GROUNDWATER RIGHTS

STATE OF MONTANA)ss.
COUNTY OF HILL)
Filed at 11 o'clock a m
OCT 30 1983
COUNTY CLERK
DEPUTY

FEE: $2.00 pd.

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
MAR 2 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County Hill 5

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES 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)

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, last copy to be retained by driller.

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

Owner ARTHUR DE LONG

Address 647 5TH AVE. NO.
HAVRE, MONTANA

Date well started 10/4/71
completed 10/8/71

Type of well DRILLED
(Dug, driven, bored or drilled)

Equipment used CABLE TOOL RIG
(Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

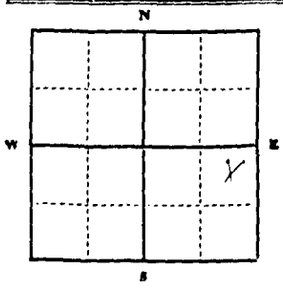
*Describe

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).

ESTIMATED ANNUAL WITHDRAWAL 600,000 GALLONS

For Administrator's Use
File 42392 Mar 1 1972
10:15 a.m.
GW 1

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8 5/8"	8 5/8 O.D. 24# PER FT.	7 FEET BELOW GROUND LEVEL	71			
8 1/4"	5 9/16" O.D. PVC 160#	65	105	3/16" DRILLED	76	103



NE ¼ SE ¼ Sec. 5
T. 32 N/S R. 16 E/W

Static water level 21 ft.*
Pumping water level 101 ft.*
at 9 3/4 gallons per minute,
measured 180 minutes after pumping began.
*Measured from ground level.
Well developed by BAILER + PUMP
for 3 hours.
Power ELECTRIC Pump 1/3 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) HOLE REAMED TO 8 1/4" DIAMETER FROM 71-105 FT LEVEL. PERFORATED 5 9/16" PVC CASING INSTALLED + GRAVEL PACKED FROM 105 BACK TO 74 FT LEVEL. PUT COARSE SAND FILLER ABOVE GRAVEL TO 72 1/2 FT TO HOLD BACK CEMENT GROUT, WHICH WAS PLACED ABOVE FILLER BETWEEN 5 7/16 + 8 5/8 PIPE FROM 72 1/2 FT BACK TO TOP OF 5 9/16" CASING AT 65 FT LEVEL.

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature Hubert Greise - HI-LINE DRILLING SERVICE

Driller's Address 1173 6TH ST. NO
HAVRE, MONTANA LICENSE NO. 46

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0 TO	8	EXISTING WELL PIT
	14	GRAVEL + CLAY MIX
	18	GRAVELLY GREY CLAY
	21	BROWN SAND - SOME
		LARGE GRAVEL - FIRST FOUND WATER - (CASED OFF)
	33	SANDY BROWN CLAY
	37	BROWN SAND - TRACE OF GRAVEL - WATER - NOT CLEARING - (CASED OFF)
	61	SANDY BROWN CLAY
	62	BROWN SAND - SOME WATER
	70	SANDY + GRAVELLY BROWN CLAY
	74	SHALEY BROWN SANDSTONE
	76	FINE-GRAINED SANDSTONE
	85	SHALEY GREY SANDSTONE - WATER - APPROX. 1/2 GPM
	85 1/2	HARD LIMESTONE SHELL
	89	SANDY GREY SHALE - WATER - APPROX 1/2 GPM
	91	BLUE-GREY SHALE
	95	SANDY BLUE-GREY SHALE - FIRM
	98	BLUE-GREY SHALE
	100	SANDY LT. BROWN SHALE
	103	GREY SHALE
	105	SANDY GREY SHALE - WATER - APPROX. 3/4 GPM
		NOTE: HOLE DRILLED TO 147 FT LEVEL IN QUEST OF MORE WATER BUT TO NO AVAIL. PICKED UP SMALL YIELD OF 1/2 GPM IN FIRM SANDSTONE AT 131-141 FT LEVEL BUT DID NOT WARRANT CASING WELL TO THIS DEPTH. PLUGGED HOLE WITH GRAVEL BACK TO 106 FT LEVEL, INSTALLED PERFORATED 5 9/16" PVC CASING, GRAVEL PACKED + CEMENTED + COMPLETED WELL

105 Show exact depth of bottom

49,951

423862

ARTHUR DE LONG

TO

THE PUBLIC

WATER WELL

STATE OF MONTANA, }ss
COUNTY OF HILL }
Filed at 10:15 o'clock A.M.
MAR 1 1972
R. E. Blom
COUNTY CLERK
Marie E. May
DEPUTY

Fee:$2.00 pd.

INDEX

Approved Stock Form—State Publishing Co., Helena, Montana—41338

File No.....

T. 32 R. 16 E

DUPLICATE

County.....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

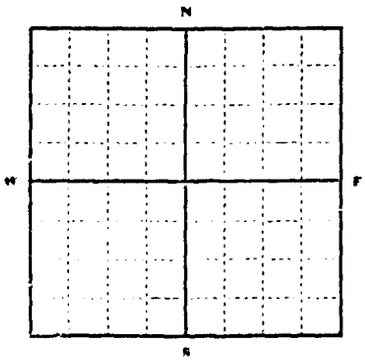
RECEIVED
SEP 13 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Mrs Anna Dranger of 234 N. S Harve
(Name of Appropriator) (Address) (Town)

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



NE¼SE Sec. 5 T. 32 R. 16

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. Household

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

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

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 May 10 1963 May 15 1963

8. The depth of water table 30 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 51 ft

10. The estimated amount of groundwater withdrawn each year

11. The log of formations encountered in the drilling of each well if available
0-4 ft topsoil & sand 4-15 brown clay 15-47 fine sand & gravel
47-51 water 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

Signature of Owner Mrs Anna Dranger

Date Sept 11 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.

5266

395189

MRS. ANNA DRAEGER

TO

THE PUBLIC

DECLARATION OF VESTED GROUND WATER RIGHTS

STATE OF MONTANA)
COUNTY OF HILL) ss.
Filed at 2:30 o'clock P m.

ON SEP 11 1963

R. E. Blom
COUNTY CLERK

By _____ DEPUTY

Fee: $2.00 pd.

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED
OCT 10 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

County HILL 5

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES 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)

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, last copy to be retained by driller.

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

Owner CHARLES & GAYNELLE A. DURWARD

Address 505 5TH ST. NO
HAVRE, MONTANA

Date well started 12/16/70
completed 12/28/70

For Administrator's Use
File 425968
Oct. 6, 1972 2:45 p.m.
GW 1

Type of well DRILLED (Dug, driven, bored or drilled)

Equipment used CABLE TOOL RIG (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*Describe

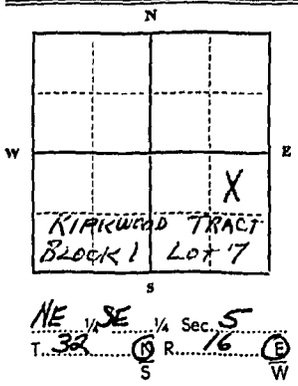
USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL 1,500,000 GALLONS

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)
10"		0	15
6 5/8"	6 5/8" O.D. GALVANIZED 13# PER FT.	1 FOOT ABOVE GROUND LEVEL	47

PERFORATIONS

Kind Size	From (Feet)	To (Feet)
JOHNSON STAINLESS STEEL 20 SLOT TELESCOPE TYPE 304 6" WELL SCREEN CONSISTING OF LEAD PACKER, 2½ FT OF SCREEN SECTION AND 4" OF 5 5/16" CASING WELDED TO BOTTOM OF SCREEN WITH BOTTOM WELDED SHUT (OVERALL LENGTH OF UNIT - 4 FT) INSTALLED FROM 46½' TO 50½' FROM GROUND LEVEL OR 47½' TO 51½' FROM TOP OF CASING		



NE ¼ SE ¼ Sec. 5
T. 32 N R. 16 E

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Static water level 13 ft.*
Pumping water level 35 ft.*
at 70 gallons per minute, measured 180 minutes after pumping began.
*Measured from ground level.
Well developed by BAILER, SURGE BLOCK & AIR COMPRESSOR for 12 hours.
Power ELECTRIC Pump ½ HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) ADLE REAMED TO 10" DIAMETER TO 15 FT LEVEL. UPON COMPLETION OF WELL ANNULAR SPACE AROUND 6 5/8" CASING FILLED WITH DRILLING MUD

Driller's Signature Herbert Dreiss - HI-LINE DRILLING SERVICE

Driller's Address 1173 6TH ST. NO.
HAVRE, MONTANA LICENSE NO. 46

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	2	SOIL
	15	SANDY BROWN CLAY
	18	BROWN SAND & SILT - VERY LITTLE CLAY
	21	SANDY GREY CLAY - SOFT
	23	RUNNY GREY SAND - WATER
	28	SILTY GREY CLAY
	29	GREY SILT & SAND - SOME GRAVEL - WATER
	34	SANDY GREY CLAY
	36	GREY SAND - GRAVEL - WATER
	39	GREY SILT
	40	GREY SAND - SOME GRAVEL - WATER - APPROX. 6 GPM HARDNESS - 426 GR. IRON - 3 PPM SULFATE - MODERATE
	45½	SOFT SANDY GREY CLAY
	49	GREY SAND - FINE TO COARSE - SOME GRAVEL WATER - APPROX 7 GPM
	50½	SANDY GREY CLAY
		SCREEN INSTALLED FROM 47½ TO 51½ FEET FROM TOP OF CASING, WHICH IS 1 FOOT ABOVE GROUND LEVEL. WELL DEVELOPED BY BAILER, SURGE BLOCK & AIR COMPRESSOR. CONSIDERABLE AMOUNT OF FINE SAND & SILT TAKEN OUT. FORMATION ALSO HAD QUITE A BIT OF CLAY PARTICLES, MAKING CLEARING OF WATER A PROBLEM. BAILED WELL FOR YIELD OF 18-20 GPM

50½ Show exact depth of bottom

51,559

425968

CHARLES DURWARD & GAYNELLE
A. DURWARD

TO

THE PUBLIC

WATER WELL

STATE OF MONTANA,)ss.
COUNTY OF HILL)
Filed at 2:45 o'clock P m

OCT 6 1972

R. E. Blom
COUNTY CLERK

By Carole E. Day
DEPUTY

Fee:$2.00 pd.

INDEXED

News, Malta

File No. _____ **RECEIVED** T. 32 N R. 16 E 5

DUPLICATE DEC 23 1971 County HILL

MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground
(Elev. above sea level ___

10 brown clay
28 brown sandstone
32 rock
53 sandy blue shale
78 sandstone and water

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner JAMES ENGLAND Address NORTH HAVRE

Driller SIMPSON DRILLING CO Address HAVRE, MONTANA

Date of Notice of appropriation of ground water _____

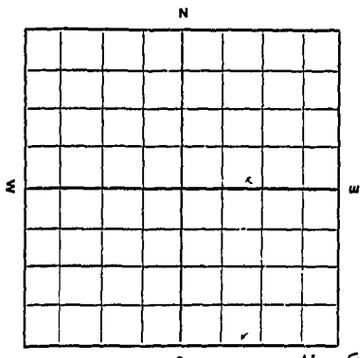
Date well started 12/1/1971 Date Completed 12/3/1971

Type of well DRILLED (dug, driven, bored or drilled) Equipment used CABLE TOOLS (Churn, drill, rotary or other)

Water use: Domestic [X] 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, cte. 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 3/4	5½ 15LBS	12"A.G.	78'	¼" holes	53	78



SW¼ NE Sec. 5 T. 32 R. 16

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

Static Water Level for non-flowing well 28 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 65 feet at 10 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested BAILER

Length of Test ½ hour

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) _____

4230.51

Filed for record this 20 day of December A. D. 1971, at 2:50 o'clock P M.

78 Show exact depth of bottom.

15
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 Appropriator.

49631

423251

JAMES ENGLAND

TO

THE PUBLIC

STATE OF MONTANA
COUNTY OF HILL
2:50 o'clock P
DEC 20 1971
COUNTY CLERK
DEPUTY

Fee:$2.00 pd

INDEXED

GW 4

Approved Stock Form—State Publishing Co., Helena, Montana—41338

5

File No.....

T. 32 N R. 16 E

DUPLICATE

County Hill

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

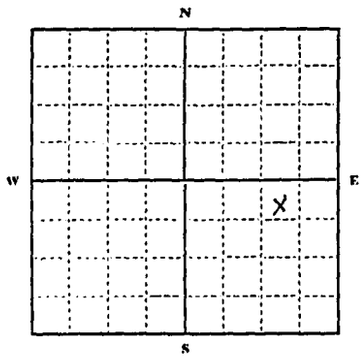
RECEIVED
OCT 30 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1 Charles Arthur & Donald George Gameon, of 308½ Hill, North Side Havre
(Name of Appropriator) (Address) (Town)

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



NE ¼ SE¼ Sec. 5 T. 32 R. 16

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Sept. 20, 1958 constant

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 7 gpm

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 electric

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater started Sept. 16, 1958 finished Sept. 20, 1958

8. The depth of water table 54 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 drilled, 6" diameter, 99 ft. depth

10. The estimated amount of groundwater withdrawn each year 3,679,200

11. The log of formations encountered in the drilling of each well if available clay, sandstone, shale, 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 C. A. Gameon
D. G. Gameon
Date 10-29-63

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.

6699.

395855

CHARL S ARTHUR & DONALD GEORGE
GAMEON

to

THE PUBLIC

DECLARATION OF VES ED GROUND
WATER RIGHTS

STATE OF MONTANA)
COUNTY OF HILL)ss.
Filed at 10 o'clock A.M.

ON OCT 29 1963

R. E. Blom
COUNTY CLERK

BY _____
DEPUTY

Fee: $2.00 pd.

GW

Approved Stock Form—State Publishing Co., Helena, Montana—39687

File No. 391623

DUPLICATE

32 N R16E

T. ~~30~~ R. ~~13~~ 5/9

County

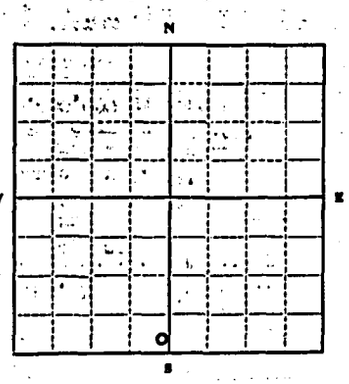
RECEIVED DEC 17 1962 STATE ENGINEER

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Great Northern Railway Company (Name of Appropriator), of 175 E. 4th St., St. Paul, Minnesota (Address) (Town)
County of Hill State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



Se ¼ SW¼ Sec. 26 T. 30N R. 13E

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

Well at Box Elder

2. The beneficial use on which the claim is based Railroad Purposes

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1930

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

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 N/A

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Well at Box Elder and Well at Havre

(for location of Well at Havre, see reverse side)

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater N/A

8. The depth of water table N/A

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 4'x4' dug well, 33' deep

10. The estimated amount of groundwater withdrawn each year 100,000 gallons

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

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 N/A

GREAT NORTHERN RAILWAY COMPANY

~~Signature of Owner~~ By: H. H. Holmquist
Superintendent of the Butte Division
Date 11-2-62

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.

2739.

Sec. T. R.

Location of Well at
Havre

Well No. 1
SE¼ SE¼ Sec.5, T 32N., R16E
3. Nov. 5, 1929
4. 395 GPM
7. 9-30-29 - 11-5-29
8. Static level, 12'
9. 16" gravel wall well, 120' deep, cased 103'
10. 10,000,000 gallons
11. See attached log sheet

Well No. 2
SE¼ SE¼ Sec.5, T32N, R-16E
3. May 15, 1940
4. 220 G.P.M.
7. Jan. 16, 1940 - May 15, 1940
8. Static level, 20'.
9. 12" gravel wall well, 80' deep, cased 61'.
10. 10,000,000 gallons
11. See attached log sheet

Well No.9
NE¼ NW¼ Sec.9, T32N, R16E
3. Feb. 8, 1956
4. 140 G.P.M.
7. Jan.3,1956-Feb.8, 1956
8. Static level, 27'
9. 12" drilled well, 96' deep.
10. 3,000,000 gallons
11. See attached log sheet

391623

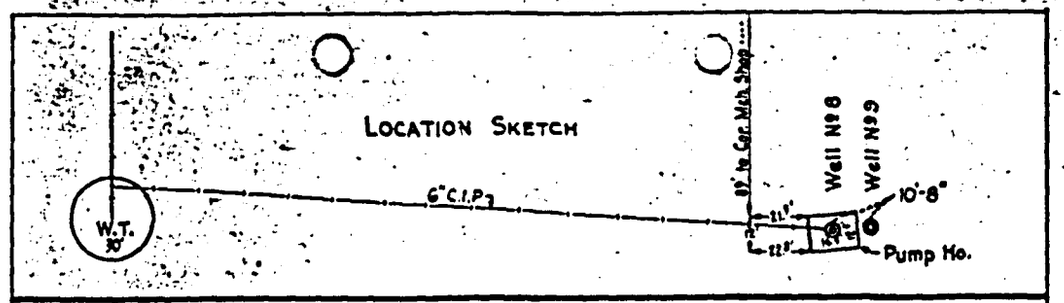
GREAT NORTHERN RAILWAY COMPANY

to

THE PUBLIC

DECLARATION OF VESTED GROUND WATER RIGHTS

STATE OF MONTANA } ss.
COUNTY OF HILL }
Filed at 8 o'clock A.M.
ON DEC 12 1962
G. [illegible] COUNTY CLERK
By [illegible] DEPUTY
Fee $2.00 pd.

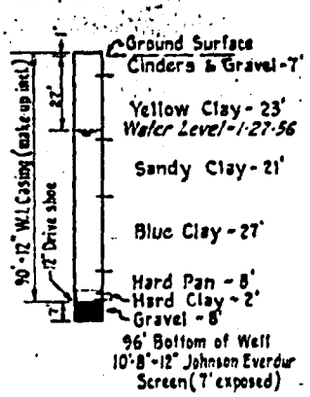


HAVRE, MONT.

WELL No 9

Water stood at 27' from surface and pumped down to 36' when pumping at rate of 140 G.P.M.

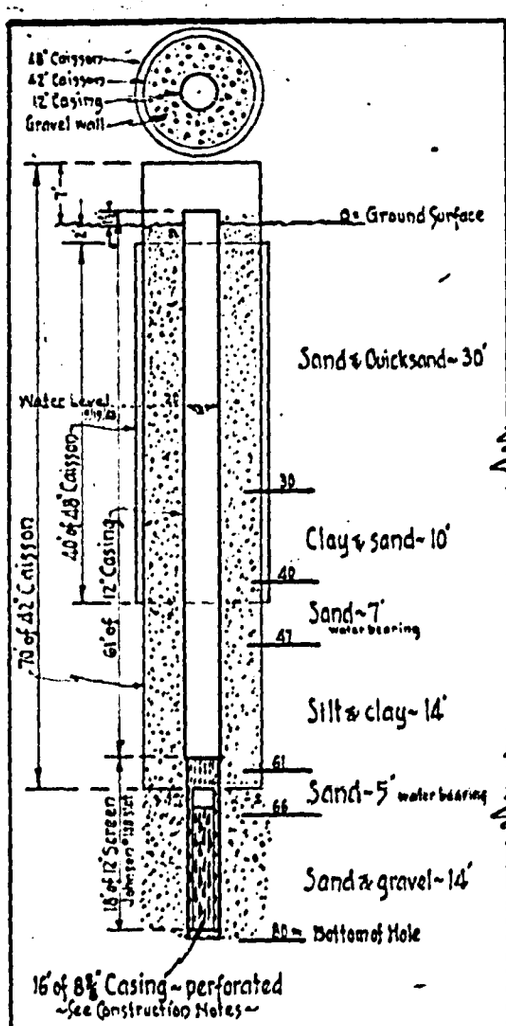
Drilling began Jan. 3 and finished Feb. 8, 1956



Well put down by Ry. Co. force & machine, C.M. Wick driller. Afe 86163

Engr. Water Service

ID-1200-304



~ HAVRE, Montana ~
~ Afe 57897 ~

Log of Gravel Wall Well #2 put down by Ry. Co. force and machine.~ ~ ~ C.M. Wick, driller
Work started Jan. 16th and finished May 15th 1940.
Pumping test:~ Water level was at 20' below Surface and lowered to 46' when delivering 220 G.P.M.

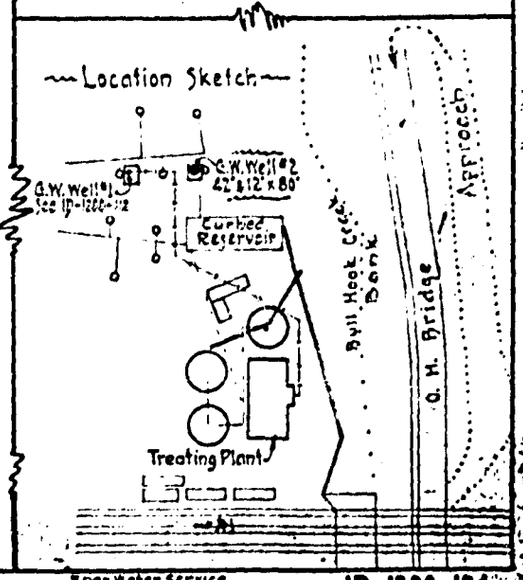
Construction Notes:-

Excavation started with 48" Caisson and tapered to 42" with 36" to depth of 80'.~ Concentrically, 12" Casing with 12" Screen-18' lg. was placed with bottom of Screen at 79' below Surface. ~ Gravel was placed between 12" string and caisson-the 36" pulled and recovered; the 42" & 48" left in place.

~ ~ ~

A cloudburst (in June '40) flooded the flat where Wells are located - causing settlement around new well [also G.W. Well #1]. It was learned when lowering permanent pumping unit that Screen had collasped and to increase the supply was necessary to move in drill machine and sweage out Screen so could insert 8⅝" Casing as reinforcement and to prevent further damage.

~ Location Sketch ~

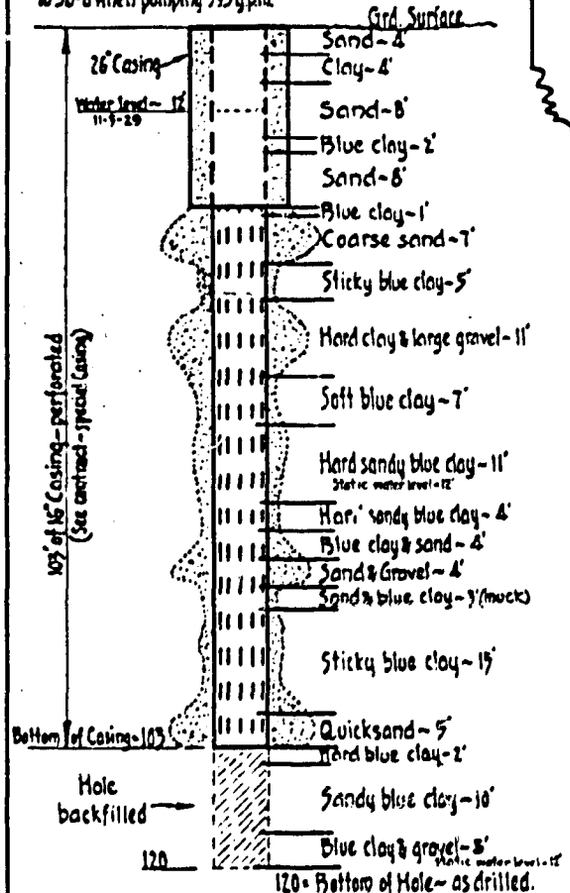


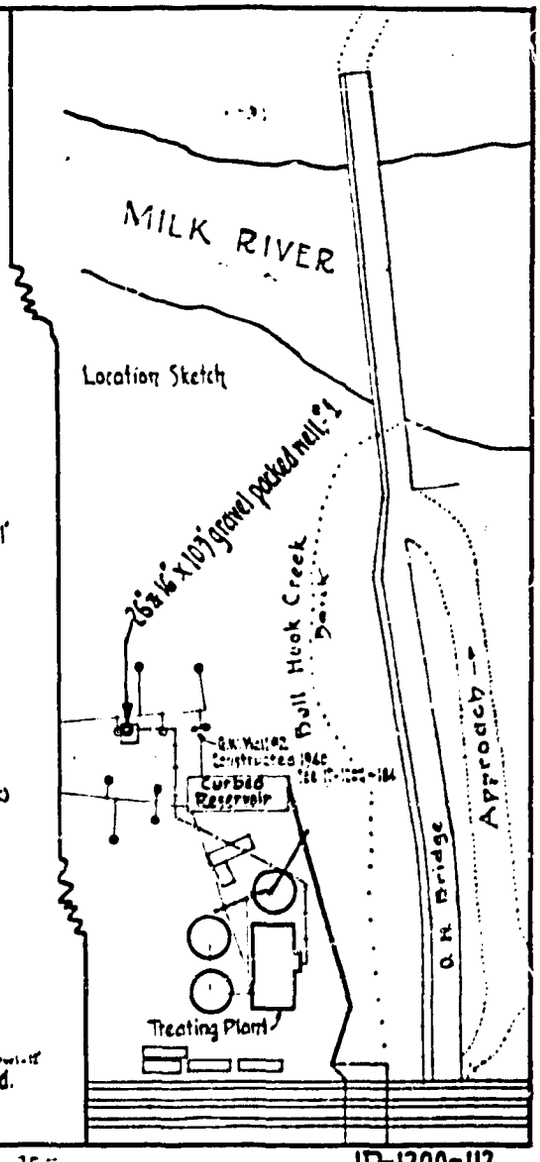
Engr. Water Service ID-1200-184

AFE 40231

HAVRE, MONT.

Log of 26" & 16" x 103' gravel packed well No 1 put down by Fairbanks-Morse Water Supply Co. under contract #9291- dated July 9th 1929.- Work began Sept. 30th & completed Nov. 5th 1929.- Water level was at 12' & lowered to 30'-8" when pumping 995 g.p.m.





Office of Engr. Water Service

ID-1200-112

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

32N-16E
County HILL 5

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES 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)

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, last copy to be retained by driller.

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

Owner HERMON & BETTY HEAD

Address 533 5TH AVE. NO
HAVRE, MONTANA

Date well started FEBRUARY 26, 1973
completed FEBRUARY 28, 1973

For Administrator's Use
File 427336
MARCH 14, 1975
GW 1 9:00 A.M.

Type of well DRILLED (Dug, driven, bored or drilled)

Equipment used CABLE TOOL RIG (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

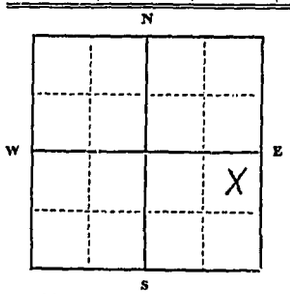
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*Describe

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).

ESTIMATED ANNUAL WITHDRAWAL EXCEEDING 500,000 GALLONS

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
8"	5 9/16" O.D. PVC PLASTIC 160#	3½ FT. BELOW GROUND LEVEL	65½	5/32" DRILLED	40½	60½



NE ¼ SE ¼ Sec. 5
T. 32 (N) R. 16 (E)
S W

Static water level 13 ft.*
Pumping water level 61½ ft.*
at 18 gallons per minute,
measured 60 minutes after pumping began.
*Measured from ground level.
Well developed by BAILER & PUMP for 6 hours.
Power ELECTRIC Pump 1/3 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) HOLE REAMED TO 8" DIAMETER, CASING INSTALLED TO 65½ FT. LEVEL AND GRAVEL PLACED AROUND OUTSIDE OF 5 9/16" PVC CASING FROM 65½ FT. BACK TO 36 FOOT LEVEL, CRUSHED GRAVEL PLACED ABOVE GRAVEL PACK TO 34½ FOOT LEVEL. CEMENT GROUT PLACED ABOVE CRUSHED GRAVEL BACK TO APPROX. 25 FOOT LEVEL TO CEMENT OFF HIGH IRON WATER AT 25-27½ FT. DRILLING MUD FILLED IN ABOVE CEMENT TO BOTTOM OF WELL PIT

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature Robert Grain HI-LINE DRILLING SERVICE

Driller's Address 1173 6TH ST. NO. PHONE 265-4210
HAVRE, MONTANA 59501 LICENSE NO. 46

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0 TO	7	EXISTING WELL PIT
	16	BROWN SILT + SAND — VERY LITTLE CLAY
	23	BROWN SAND - SATURATED
	25	SANDY BROWN CLAY
	27½	BROWN SAND - LARGE GRAVEL - WATER - HIGH IRON CONTENT — (CASED OFF)
	29	SANDY BROWN CLAY
	31	GREY CLAY
	37½	BLUE-GREY SHALE
	38	HARD BROWN SANDSTONE RIB
	41	SANDY LT. BROWN SHALE - TRACE OF WATER
	45	BROWN SANDSTONE - WATER - APPROX 3½ GPM. MOST OF WATER COMING IN AT 44 FOOT LEVEL.
	51	BROWN SANDSTONE - WATER INCREASED TO APPROX. 9 GPM
	61	BLUE-GREY SHALE
	65	SANDY LT. BROWN SHALE
	65½	HARD SANDSTONE
NOTE:		WATER YIELD INCREASED
	TO	10 GPM AFTER REAMING
	HOLE	TO 8" DIAMETER

65½ Show exact depth of bottom

50,640

427336

HERMON & BETTY HEAD

TO

THE PUBLIC

WATER WELL

STATE OF MONTANA
COUNTY OF HILL } SS
Filed at 9:00 o'clock A M

ON MAR 14 1973
R. E. Blom
COUNTY CLERK
BY David E. Ray
DEPUTY

Fee:$2.00 pd.

INDEXED

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—45642

File No.....

T. 32N R. 16E 3

DUPLICATE

County Hill

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)

Owner James Head Address 663 5th Ave. No. Havre, Montana

Driller Hi-Line Drilling Service Address Havre, Montana

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

Date well started 8-24-65 Date completed 9-7-65

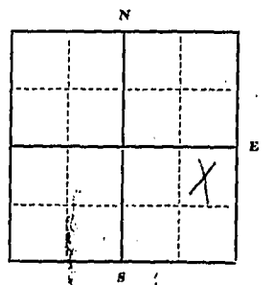
Type of well Drilled (Dug, driven, bored or drilled) Equipment used Cable tool rig (Churn drill, rotary or other)

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)
9"	6 5/8" O.D. 13#/foot	2 feet above ground level	185	1/8" x 4" Slotted	18	36
					42	49
					70	83
					87	91
					115	118
					136	139
					160	170

0 to 11	Top of Ground (Elev. above sea level.....) Gravelly brown clay
17	Sandy brown clay
25	Brown clay
29	Grey clay
35	Brownish-yellow shale
37	Sandstone - water - 2½ GPM
42	Shaley sandstone
49	Sandstone - water - 1½ GPM
54	Blue shale
56	Grey shale
59	Blue-grey shale
59½	Hard shell
70	Blue-grey shale
82½	Sandstone - water - approx. 7 GPM
87½	Hard sandstone
91	Shaley sandstone
97	Grey shale
107	Blue-grey shale
110	Dark grey shale
115½	Grey shale
117½	Sandstone - water - 3 GPM
126	Light grey shale
136	Blue-grey shale
139	Sandy grey shale
140	Sandy Lt. brown shale
159	Blue-grey shale
160	Hard sandstone shell
170	Grey sandstone water - approx. 8 GPM
181	Blue-grey shale
185	Sandy blue-grey shale
185	Show exact depth of bottom.



NE ¼ SW ¼ Sec. 5 T. 32 R. 16

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

Static Water Level for non-flowing well 18 feet.

Shut-in Pressure for Flowing Well Not Appl.

Pumping Water Level 175 feet at 2.2 gal. per minute.

Discharge in gal. per min. of flowing well Not Applicable

How Tested Baler & pump

Length of Test 8 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Hole reamed to 9" diameter to 185 feet. Casing installed & gravel placed around casing from 185 foot level back to 17 foot level. Cemented above 17 ft. level (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).

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.

46
Driller's License Number

Herbert Isaacs
Driller's Signature.

45,030

412993

JAMES HEAD

TO

THE PUBLIC

NOTICE OF COMPLETION OF
GROUNDWATER APPRIPRIATION

STATE OF MONTANA,)
COUNTY OF HILL } ss.
Filed at 10:45 o'clock A.M.

FEB 26 1969

R. E. BLOM
COUNTY CLERK

By _____
DEPUTY

fee: $2.00 paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4232.

File No.....

T. 32N R. 16E 5

DUPLICATE

County.....Hill.....

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)

LOG

	Top of Ground
	(Elev. above sea level.....)
0 to 3	Gravel & clay fill
19	Sandy brown clays
28	Soft grey clay
32	Sand-trace of gravel & water
36	Yellowish-grey shale
39	Grey sandstone-trace water
43	Blue-grey shale
49	Sandy blue-grey shale
53	Light grey shale
59	Shaley sandstone (dry)
61	Blue shale
62	Brown shale
64	Grey shale
73	Grey sandstone-Water-Approx. 14 GPM by baler test, baling from 73'.
73	Show exact depth of bottom.

Owner.....James Head.....Address..Havre, Montana.....

Driller.Hi-Line Drilling Service..Address..Havre, Montana.....

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

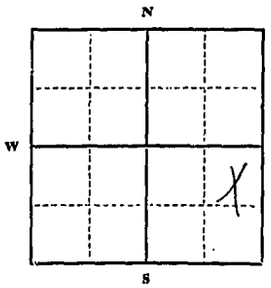
Date well started.Sept. 24, 1964.....Date completed.Sept. 26, 1964.....

Type of well.....Drilled.....Equipment used....Cable tool rig.....
(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 5/8"	6 1/8" ID 13# per '	0	64	No perforations Casing driven to top of sandstone at 64' leveled Sandstone left uncased.		



NE 1/4 SE 1/4 Sec. 5 T. 32 R. 16
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing well .....20.....feet.

Shut-in Pressure for Flowing Well Not appl.

Pumping Water Level.....63.....feet at.....10.....gal. per minute.

Discharge in gal. per min. of flowing well Not applicable.

How Tested.....Baler & pump.....

Length of Test.....4 hours.....

Remarks: (Gravel packing, cementing, packers, type of shutoff) Cement grout placed around casing to prevent surface contamination.

.....(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).

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.

46
Driller's License Number

Herbert Meier
Driller's Signature

45,029

412994

JAMES HEAD

TO

THE PUBLIC

NOTICE OF COMPLETION OF
GROUND WATER APPROPRIATION

STATE OF MONTANA)
COUNTY OF HILL) ss.
Filed at 10:45 o'clock A m

FEB 26 1969
R. E. BLOM
COUNTY CLERK

By _____
DEPUTY

fee: $2.00 paid

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4855.

File No.....

T. 32N R. 16E 5

DUPLICATE

County HILL

LOG

RECEIVED APR 16 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 EVERETT HOMAD Address 1701 S. CARNAHAN SPOKANE, WASHINGTON

Driller HI-LINE DRILLING SERVICE Address HAVRE, MONTANA

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

Date well started AUGUST 5, 1968 Date completed AUGUST 13, 1968

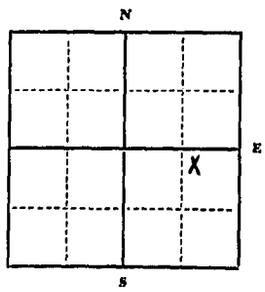
Type of well DRILLED (Dug, driven, bored or drilled) Equipment used CABLE TOOL RIG (Churn drill, rotary or other)

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)
8¼"		0	96			
	6⅝" O.D. 13# PER FT	1½ FEET ABOVE GROUND LEVEL	8			
	5 9/16" O.D (.190 WALL) PLASTIC	6	96	3/16" DRILLED	33	95

Top of Ground (Elev. above sea level.....)	
0 to 5	FILL GRAVEL
5 to 8	BROWN SAND + GRAVEL MIX
8 to 14	SOFT SANDY BROWN CLAY
14 to 17	SOFT GREY CLAY
17 to 20	RUNNY SAND - WATER
20 to 21	SAND + GRAVEL - WATER - VERY HARD - APPROX 10 GPM (CASED OFF WITH 8⅝" O.D SURFACE CASING)
21 to 23	GREY CLAY
23 to 28	BROWN SANDSTONE - WATER - APPROX. 2 GPM - OVER 50 GRAINS HARDNESS - (CASED OFF)
28 to 33	BLUE-GREY SHALE
33 to 48	BROWN SANDSTONE - WATER - 2½ GPM
48 to 51	BLUE SHALE
51 to 52	SANDY GREY SHALE
52 to 53	SANDY GREY SHALE - STREAKS OF BROWN SHALE
53 to 61	SHALEY BROWN SANDSTONE - WATER - 1 GPM
61 to 62	HARD BROWN SANDSTONE
62 to 64	SANDY YELLOWISH-BROWN SHALE
64 to 66	HARD SHELL
66 to 73	SHALEY BROWN SANDSTONE - WATER - 1 GPM
73 to 75	GREY SHALE
75 to 79	BLUE-GREY SHALE
79 to 80	FIRM BLUE SHALE
80 to 82	SANDY BROWN SHALE
82 to 85	SANDY GREY SHALE
85 to 87	SHALEY GREY SANDSTONE
87 to 89	FIRM SANDY BROWN SHALE
89 to 95	GREY SANDSTONE - WATER - 2½ GPM
95 to 96	SANDY GREY SHALE
96	Show exact depth of bottom.



NE¼ SE¼ Sec. 5 T. 32N R. 16E

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

Static Water Level for non-flowing well 13 feet.

Shut-in Pressure for Flowing Well NOT APPL.

Pumping Water Level 92 feet at 7½ gal. per minute.

Discharge in gal. per min. of flowing well NOT APPLICABLE

How Tested PUMP

Length of Test 8 HOURS

Remarks: (Gravel packing, cementing, packers, type of shutoff) HOLE REAMED TO 8¼" DIAMETER TO 96 FT LEVEL. PERFORATED 5 9/16" PLASTIC CASING INSTALLED TO 96 FT. GRAVEL PLACED AROUND CASING BACK TO 32 FT LEVEL. CEMENTED FROM 32 FT BACK TO 16 FT TO ISOLATE HARD WATER VEINS. CASING OVERLAP AT 6-8 FT LEVEL CEMENTED (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).

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.

46
Driller's License Number

Herbert Greier
Driller's Signature.

45, 146

413339

KATHRYN HOMAD

THE PUBLIC

NOTICE OF COMPLETION OF
GROUNDWATER APPROPRIATION

ATE OF MONTANA, }ss.
UNTY OF HILL }
Filed at 8:00 o'clock ___ M.

APR 15 1969

R. E. BLOM
COUNTY CLERK

DEPUTY

fee: $2.00 paid

Approved Stock Form—State Publishing Co., Helena, Montana—41338

5

File No. .....

T. 32N R. 16E

DUPLICATE

County Hill

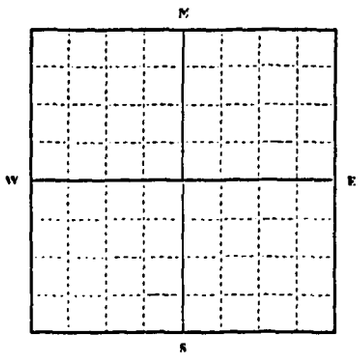
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
NOV 20 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Tina H. Jones (Name of Appropriator), of 289 Hill St (Address) Havre (Town)
County of Hill State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



.....¼..... Sec. 5 T. 32 R. 16

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.
45' X 104 in NESE

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been drove down a sand point april 1946 had a 4 inch casing put down in the same hole Oct 1-1961

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gal a 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 Electric pump.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater used the water since since apr 1946 - drilled same hole Oct 1-1961

8. The depth of water table 69-70 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 none

10. The estimated amount of groundwater withdrawn each year 2000 gal.

11. The log of formations encountered in the drilling of each well if available 0-6 pit
6-69 sand

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 static 12 ft

Signature of Owner Tina H. Jones

Date Nov 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.

7333

396103

TINA H. JONES

TO

THE PUBLIC

DECLARATION OF VESTED GROUND WATER RIGHTS

STATE OF MONTANA)
COUNTY OF HILL)ss.
Filed at 1 o'clock P.M.

ON NOV 18 1963

R. E. Blom
COUNTY CLERK

BY _____ DEPUTY

5

RECEIVED
1958
STATE ENGINEER

T. 22 N. R. 1 E.

County 111

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner [illegible] Address [illegible]

Driller [illegible] Address [illegible]

Date Started [illegible] Date Completed [illegible]

Location: Sec. [illegible] T. [illegible] R. [illegible] ¼ sec. [illegible]

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

Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

Industrial ☐ Drainage ☐ Other:

Casing: 0 ft. to 33 ft. Type [illegible] Size 5 3/8 [illegible]

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated ~~or Screened~~ Ft. 32 to ft. [illegible] Ft. to ft.

Type of ~~screen or~~ perforations 3/16" [illegible]

Static Water level, for non-flowing well: 10 [illegible] feet.

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

Pumping water level 3 feet at 7 gal. per min.

How tested: [illegible]

Length of test [illegible]

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

(over)

5

RECEIVED
DEC 5 1958
STATE ENGINEER

T. 32 N R. 16 E

County Hill

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

Owner Bob T. La Croix Address 201 Hill St. Havre

Driller Hugh Simpson Address Helena

Date Started 22 Sept. Date Completed 23 Sept. 58

Location: Sec. 5 T. 32 R. 16 ¼ sec. [illegible] of [illegible]

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

Water use: Domestic [X] Municipal [ ] Stock [ ] Irrigation [ ]

Industrial [ ] Drainage [ ] Other:

Casing: 0 ft. to 32 ft. Type Steel Size 5 5/8 Inches

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated ~~by/Screened~~ Ft. 32 to ft. 33½ Ft. to ft.

Type of ~~screen or~~ perforations 3/16 Holes drilled in pipe

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

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

Pumping water level 13 feet at 7 gal. per min.

How tested: Air

Length of test 2 hr.

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

Bob La Croix

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	33	Brown sand
33	60	Gravel sand
60	34	Gravel sand water
34	74	Grey black shale (Cloggett)?

DOCUMENT NO. 369060

BOB T. LA CROIX
TO
EHE PUBLIC

WATER WELL LOG

STATE OF MONTANA,)ss.
COUNTY OF HILL)
Filed at 1:30 *o'clock* P. *m.*

ON DEC 4 1958

G. C. YEON
COUNTY CLERK

By _____ DEPUTY

G

Approved Stock Form—State Publishing Co., Helena, Montana—41338 3

5

File No.....

T. 32 R. 16

DUPLICATE

County Hill

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
SEP 9 1963
STATE ENGINEER

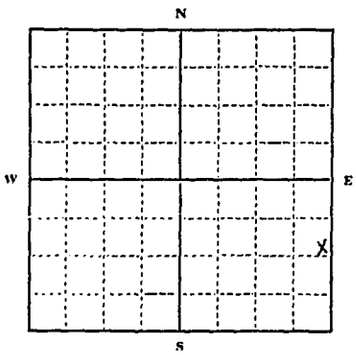
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Mrs. Allena E. Larson, of Havre
(Name of Appropriator) (Address) (Town)

County of Hill State of Montana

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



NE 1/4 SE 1/4 Sec. 5 T. 32 R. 16

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 and lawn.

3. Date or approximate date of earliest beneficial use; and how continuous the use has been Spring 1940 every day since.

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 3 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 Electric pump.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater both about 4 days. It is a driven sand point.

8. The depth of water table 10 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 about 75 ft. deep

10. The estimated amount of groundwater withdrawn each year

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

Signature of Owner Mrs. Allena E. Larson

Date Sept 6 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.

5783.

395132

MRS. ELLENA E. LARSON

TO

THE PUBLIC

DECLARATION OF VESTED
GROUNDWATER RIGHTS

STATE OF MONTANA)
COUNTY OF HILL) ss.
Filed at 10:10 o'clock A.M.

ON SEP 6 1963
R. E. Blom
COUNTY CLERK

BY _____ DEPUTY

Fee: $2.00 pd

3 GW 2 Revised 1969
13—3M—10/69

RECEIVED
MAR 9 1972
MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

32N-16E
County Hill 5

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES 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)

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, last copy to be retained by driller.

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

Owner MRS. THEO LARSON

Address 418 7TH AVE. NO
HAVRE, MONTANA

Date well started 9/29/71
completed 10/4/71

For Administrator's Use
File 423903 Mar. 7, 1972
2:45 p.m.
GW 1

Type of well DRILLED (Dug, driven, bored or drilled)

Equipment used CABLE TOOL RIG (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*Describe

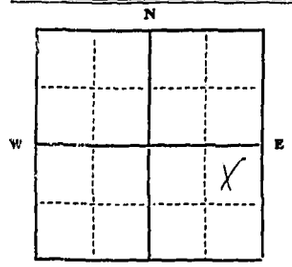
USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition).

ESTIMATED ANNUAL WITHDRAWAL 2,000,000 GALLONS

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)
12"		0	15
6 5/8"	6 5/8" O.D. GALVANIZED STEEL (.188 WALL) 13# PER FT	1 FOOT ABOVE GROUND LEVEL	79 1/2

PERFORATIONS

Kind Size	From (Feet)	To (Feet)
JOHNSON STAINLESS STEEL 304 TRUESCOPE TYPE 6" 25-SLOT SCREEN CONSISTING OF 3 1/2" LEAD PACKER, 2 1/2' OF SCREEN SECTION & 1 FT OF 5 1/16" CASING (OVERALL LENGTH OF 3' 9 1/2") INSTALLED FROM 79 FT TO 82' 9 1/2" FROM GROUND LEVEL OR 80 FT TO 83' 9 1/2" BELOW TOP OF CASING		



NE 1/4 SE 1/4 Sec. 5
T. 32 (N) (S) R. 16 (E) (W)

Static water level 14 ft.*
Pumping water level 17 ft.*
at 10 gallons per minute,
measured 120 minutes after pumping began.
*Measured from ground level.
Well developed by BAILER, AIR & PUMP
for 12 hours.
Power ELECTRIC. Pump 1/3 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) ANNULAR SPACE AROUND CASING FILLED WITH DRILLING MUD FROM 15 FT. LEVEL BACK TO 6 FT. LEVEL

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature Kenneth Irwin - HI-LINE DRILLING SERVICE

Driller's Address 1173 6TH ST. NO
HAVRE, MONTANA LICENSE NO. 46

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	2	SOIL
	16	SANDY & SILTY BROWN CLAY
	17	BROWN SAND - COAL FRAGMENTS
	24	SANDY BROWN CLAY
	26	BROWN SAND - TRACE OF GRAVEL - WATER (CASED OFF)
	29	GREY CLAY - TACKY
	32	GREY SAND & SILT - WATER - (CASED OFF)
	34	GRAVELLY GREY CLAY
	35	GREY SAND & GRAVEL - WATER - (CASED OFF)
	42	SANDY GREY CLAY - SOFT
	43 1/2	SAND & GRAVEL - WATER - (CASED OFF)
	46	GREY SAND & SILT
	51	GRAVELLY GREY CLAY
	53	SAND & SOME GRAVEL
	57	SANDY GREY CLAY
	62 1/2	SANDY & SILTY GREY CLAY
	64 1/2	GREY SAND - SOME GRAVEL - WATER - NOT CLEARING WELL - SAND HEAVING UP IN CASING
	77	PREDOMINATELY SANDY & SILTY CLAY - SOFT - CASING SETTLED BY ITSELF FROM 64 TO 77 FT WHILE DRILLING OUT SAND & GRAVEL FROM CASING
	82	GREY SAND - FINE TO COARSE - VERY LITTLE GRAVEL - HEAVING UP IN CASING DUE TO CLAY PARTICLES & SMALL BITS OF SHALE IN FORMATION RESTRICTING FREE FLOW OF WATER TAKE SAND. SCREEN INSTALLED & FORMATION STABILIZED WATER INCREASED & CLEARING
	82'9"	SANDY GREY CLAY

82'-9" Show exact depth of bottom

59006

423903

Mrs. THEO LARSON

TO

THE PUBLIC

WATER WELL

STATE OF MONTANA, }ss.
COUNTY OF HILL }
Filed at 2:45 o'clock P m

MAR 7 1972

R. E. Blom
COUNTY CLERK

Dorothy E. Guy
DEPUTY

Fee:$2.00 pd.

NWSE 5-32-16

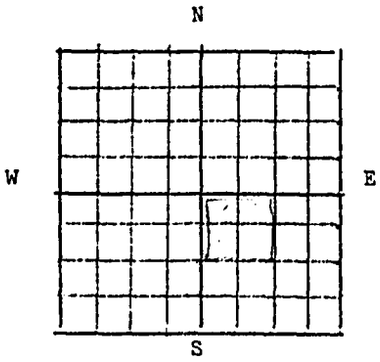
GW-4
FILE NO._____

TWP 32 RGE 16 E
COUNTY [illegible]

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

1. Mamie McGee Lucas, of 315 N. 3rd ST. Havre
(Name of Appropriator) (Address) (Town)
County of Hill, State of Montana
Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:



NW ¼ SE Sec 5 T 32 R 16

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 AND IRRIGATION

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1917 TO THE PRESENT TIME

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

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 TEN ACRES NWSE 5-32-16 Mamie McGee Lucas

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal ELECTRIC PUMP IN WELL

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater IN SUMMER 1917

8. The depth of water table [illegible] 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 Cased: ~~Two~~ one hundred feet deep - 5 5/8 casing.

10. The estimated amount of groundwater withdrawn each year VARIES

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 Mamie McGee Lucas

Date December 30, 1963

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

31193

397135

MAMIE MOORE LUCAS

TO

THE PUBLIC

DECLARATION OF VESTED
GROUNDWATER RIGHTS

STATE OF MONTANA)
COUNTY OF HILL) ss.
Filed at 11 o'clock 8 m.
OCT 31 1963
L E Blom
COUNTY CLERK
DEPUTY

FEE: $2.00 pd.

GW FILE NO. _____

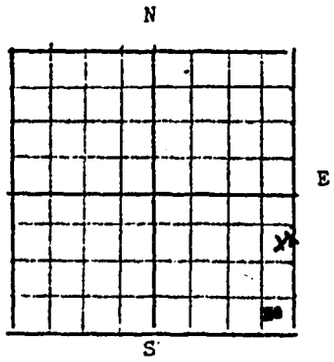
TWP 32 N RGE 16 E
COUNTY Hill

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DECLARATION OF VESTED GROUNDWATER RIGHTS
(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED JAN 1 STATE ENGINEER

1. L D McFADDEN, of 742 [illegible] Havre
(Name of Appropriator) (Address) (Town)
County of Hill, State of Mont
Have appropriated groundwater according to the Montana laws in effect prior to Jan. 1, 1962 as follows:



SW NE Sec 5 T 32 R 16

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 [illegible]

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1940 [illegible]

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 5 [illegible]

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 [illegible] Pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1940

8. The depth of water table [illegible]

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 [illegible]

10. The estimated amount of groundwater withdrawn each year 50,000 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 ____

Signature of Owner [illegible]

Date [illegible] 1963

Three copies to be filed by the owner with the County Clerk & 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 & Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

31268

397217

L. D. MC FADDEN

TO

THE PUBLIC

DECLARATION OF VESTED
GROUNDWATER RIGHTS

STATE OF MONTANA)ss.
COUNTY OF HILL)
Filed at 11 o'clock a.m.
ON 3 1 1963
COUNTY CLERK
DEPUTY

FEE: $2.00 pd.

GW

Approved Stock Form—State Publishing Co., Helena, Montana—39089

File No.....

T. 32 N R. 16 E

DUPLICATE

County Hill

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED DEC 12 1963 STATE ENGINEER

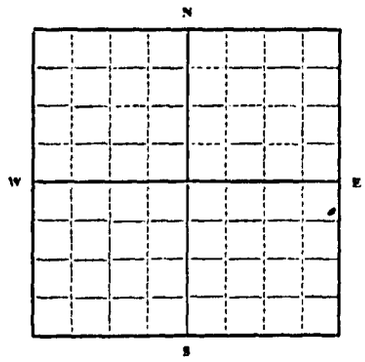
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. [illegible], of [illegible]
(Name of Appropriator) (Address) (Town)

County of Hill State of Montana

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



NW ¼ Sec. 5 T. 32 R. 16

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 [illegible]

3. Date or approximate date of earliest beneficial use; and how continuous the use has been [illegible]

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

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 [illegible]

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal [illegible]

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

8. The depth of water table [illegible] 17 feet [illegible]

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 [illegible]

10. The estimated amount of groundwater withdrawn each year [illegible]

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

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 [illegible]

Signature of Owner [illegible]

Date 12-11-1963

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.

8686

CHARLES W. MOORE

TO

THE PUBLIC

DECLARATION OF VESTED
GROUNDWATER RIGHTS

STATE OF MONTANA)ss.
COUNTY OF HILL)
Filed at 11 o'clock A.m

OCT 1 1963

R. E. Blom
COUNTY CLERK

DEPUTY

Fee $2.00 pd.

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—4b... 3

File No.....

MONTANA W...

T. 32N R. 16E 5

DUPLICATE

County Hill

LOG

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)

0 to 4	Top of Ground (Elev. above sea level.....) Sandy soil
14	Sandy brown clay
17	Tacky grey clay
20	Grey silt &sand-some water
27	Grey silt & sand-decayed vegetation
28	Sand & gravel-water
32	Gravelly grey clay
36	Sandy grey clay
38	Grey silt & sand
44	Grey clay
46	Grey sand & silt-water
49	Grey sand & clay mix
54	Grey clay
55	Grey sand(Fine to Medium) Water - Approx. 8 GPM.
56	Grey sand & gravel- Water exceeding 15 GPM at 30 feet from ground level by bailer test.
56	Show exact depth of bottom.

Doc. No. 41830D
Filed for record
this 18 day of June
A. D. 19 70, at 4:00
o'clock p M.

Owner Mrs. Esther Naber Address 542 5th St. No.-Havre

Driller Hi-Line Drilling Service Address Havre, Montana

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

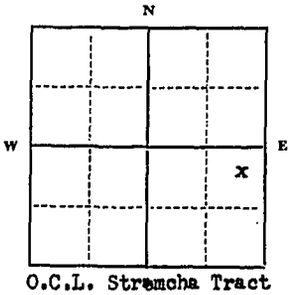
Date well started 11/20/69 Date completed 11/22/69

Type of well Drilled (Dug, driven, bored or drilled) Equipment used Cable Tool Rig (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 5/8"	6 5/8" O.D. .188 wall 13# per ft.	1 ft. above ground level	56	No perforations. Water coming thru bottom of drive collar at 56 ft. level.		



O.C.L. Stremcha Tract Lot 3

NE ¼ SE ¼ Sec. 5 T 32N R 16E

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

Static Water Level for non-flowing well 12 feet.

Shut-in Pressure for Flowing Well Not appl.

Pumping Water Level 23 feet at 13 gal. per minute.

Discharge in gal. per min. of flowing well Not applicable

How Tested Test Pump

Length of Test 8 hours

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).

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.

46
Driller's License Number

Herbert Dreis
Driller's Signature.

46594

418307

MRS. ESTHER NABER

TO

THE PUBLIC

COMPLETION OF GROUNDWATER APPROPRIATION

STATE OF MONTANA,)
COUNTY OF HILL)ss.
Filed at 4:00 o'clock P.m
ON JUN 18 1970
R. E. BLOM
COUNTY CLERK
By Dorothy E. Day
DEPUTY
fee: $2.00 paid

32N-16E

County HILL 5

3 GW 2 Revised 1969
STATE PUBLISHING COMPANY

RECEIVED JUN 2 5 1973 MONTANA BUREAU OF MINES AND GEOLOGY

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES 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)

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, last copy to be retained by driller.

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

Owner CHARLES A. NELSON

Address 337 5TH ST. NO
HAVRE, MONTANA

Date well started 11/14/69
completed 11/20/69

For Administrator's Use
File 428324
June 25, 1973
GW 1 12:15

Type of well DRILLED (Dug, driven, bored or drilled)

Equipment used CABLE TOOL R16 (Churn drill, rotary or other)

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

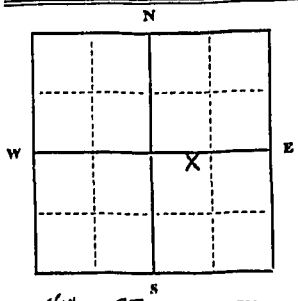
Industrial ☐ Drainage ☐ Other ☒* Garden/Lawn ☒

*Describe MACHINE & WELDING SHOP

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).

ESTIMATED ANNUAL WITHDRAWAL EXCEEDING 300,000 GALLONS

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS Kind Size	From (Feet)	To (Feet)
9"	6 5/8 O.D. (188 WALL) BLACK STEEL	4 FEET BELOW GROUND LEVEL	17			
	6 1/4" O.D. (.190 WALL) PLASTIC.	16 1/2	82	3/16" DRILLED	37	79



NW ¼ SE ¼ Sec 5
T. 32 N/S R. 16 E/W

Static water level 39 ft.*
Pumping water level 78 ft.*
at 7 gallons per minute,
measured 120 minutes after pumping began.
*Measured from ground level.
Well developed by BAILER + PUMP
for 6 hours.
Power ELECTRIC Pump 1/2 HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) WELL GRAVEL PACKED FROM BOTTOM BACK TO 30 FT LEVEL. CEMENT GROUT PLACED ABOVE GRAVEL TO APPROX. 12 FOOT LEVEL TO SEAL OFF SURFACE CONTAMINATION

INDICATE LOCATION OF WELL AND PLACE OF USE, IF POSSIBLE. EACH SMALL SQUARE REPRESENTS 40 ACRES.

Driller's Signature Robert Brown HI-LINE DRILLING SERVICE

Driller's Address 1173 6TH ST NO PHONE 265-4210
HAVRE, MONTANA 59501 LICENSE NO. 46

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground (Elev. above sea level)

From (Feet)	To (Feet)	
0	TO 2	GRAVELLY SOIL
	21	GRAVELLY BROWN CLAY
	22½	BOULDER
	35	GRAVELLY GREY CLAY
	37	BOULDER
	39	GREY SHALE
	40	HARD BROWN SANDSTONE
	44	SHALEY BROWN SANDSTONE - TRACE OF WATER
	49	LT BROWN SHALE - FIRM
	52	SANDY GREY SHALE
	56	SHALEY GREY SANDSTONE - WATER - APPROX 16 GPM
	73	BLUE-GREY SHALE
	78	GREY SANDSTONE - WATER - APPROX 3 GPM
	81	SANDY BLUE-GREY SHALE
	82	BLUE-GREY SHALE

82 Show exact depth of bottom

53,850

428324

CHARLES A. NELSON

TO

THE PUBLIC

WATER WELL

STATE OF MONTANA } SS.
COUNTY OF HILL
Filed at 12:15 o'clock P M
ON JUN 25 1973
R. E. Blom
COUNTY CLERK
BY Dorothy E. Day
DEPUTY

Fee:$2.00 pd.

INDEXED

5

T. 32 N R. 16 E

County Hill

ERNEST O. LEE, DRILLING
1200 3RD STREET HAVRE

WATER WELL LOG

Owner Hannah Nelson Address 296 North Side, Havre

Driller Herbert Freier Address 281 N State St., Havre

Date Started October 25, 1961 Date Completed October 26, 1961

Location: Sec. 5 T. 32 R. 16 ¼ sec. Lot 1 Kirkwood Tract.

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

Water use: Domestic [X] Municipal [ ] Stock [ ] Irrigation [ ]

Industrial [ ] Drainage [ ] Other:

Casing: 0 ft. to 52 ft. Type Spang-seamless Size 7"

Casing: 49 ft. to 72 ft. Type Spang-seamless Size 5 1/2"

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 50 to ft. 70 Ft. to ft.

Type of screen or perforations 1/4" X 5" Perforations

Static Water level, for non-flowing well: 20 feet.

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

Pumping water level 60 feet at 16 gal. per min.

How tested: Baler

Length of test 1 1/2 hours

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

Hannah Nelson

Drilled by Ernest Lee

(over)

Log of Well

Depth, feet From	Depth, feet To	Description of Material Drilled
0	15	Sandy Clay--Gravel
15	43	Quick-sand
43	48	Soft Blue Clay
48	53	Grey Clay
53	63	Yellow Clay
63	71	Sandstone--Water--Approx. 18 gal. per min.
71	72	Blue-Grey Shale

DOCUMENT NO. 386754

HANNAH NELSON
TO
THE PUBLIC

WATER WELL LOG

STATE OF MONTANA)
COUNTY OF HILL) ss.
Filed at 4:30 *o'clock* P *m.*

ON DEC 22 1961
G.C.YEON
COUNTY CLERK

By _____ DEPUTY

53	63	Yellow Clay
63	71	Sandstone--Water--Approx. 18 gal. per min.
71	72	Blue-Grey Shale

N 3

Approved Stock Form—State Publishing Co., Helena, Montana—39318

5

File No.....

T. 32 R. 16

DUPLICATE

County Hill

RECEIVED AUG 8 1963 STATE ENGINEER

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)

Date of Appropriation of Groundwater.....

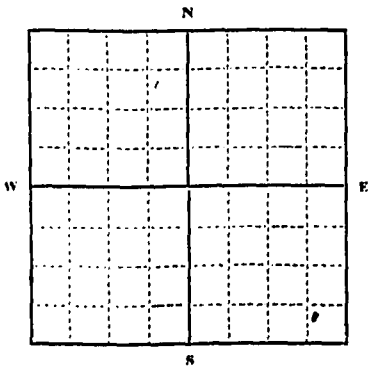
Owner John Neumiller Address 228 Ma Side

Contractor (if any) Sand point

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.....



NE ¼ NE ¼ Sec. 5 T. 32 R. 16

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.....for Irrigation and household

Signature of Owner John Neumiller

Date 8-2-63

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.

5298

394731

JOHN NEUMILLER

TO

THE PUBLIC

NOTICE OF COMPLETION OF GROUND
WATER APPROPRIATION WITHOUT WELL

STATE OF MONTANA,
COUNTY OF HILL) ss.
Filed at 2:30 o'clock P. M.
ON AUG 7 1963
R. E. Blom
COUNTY CLERK
By
DEPUTY

Fee:$2.00 pd.

Approved Stock Form—State Publishing Co., Helena, Montana—41921

File No. .....

T. 32 N R. 8-16 E

DUPLICATE

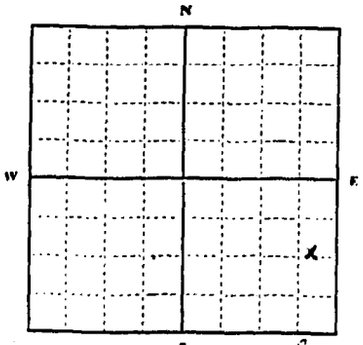
County .....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

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



Lots 4 + 5

N ..... ¼ ..... Sec. ..... T. ..... R. .....

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 5/28/61

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 GPM at 30 Feet

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 pump
~~337 North Side~~
East of House

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 5/27/61 - 5/28/61

8. The depth of water table 54 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
Size of Drilled Hole 5"
Size and Weight of Casing 4" 11 Bls
From (Feet) 0
To (Feet) 54

10. The estimated amount of groundwater withdrawn each year

11. The log of formations encountered in the drilling of each well if available
1 top soil
51 brown clay & sand
52 sand
54 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

Signature of Owner Frank Spell

Date 12-10-63

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.

9280

306529

FRANK PAPIILO

TO

THE PUBLIC

DECLARATION OF VESTED ROUND
WATER RIGHTS

STATE OF MONTANA)ss.
COUNTY OF HILL)
Filed at 3 o'clock P m.

ON 1 2 1963

R. E. Blom
COUNTY CLERK

BY _____
DEPUTY

Fee:$2.00 pd.

Approved Stock Form—State Publishing Co., Helena, Montana—41921

File No. .....

T. 32 N. R. 16 E

DUPLICATE

County Hill

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

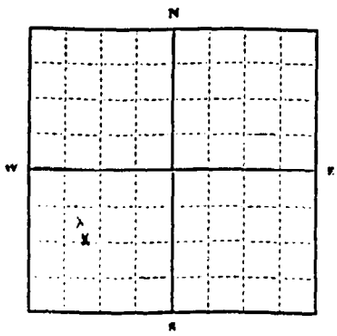
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. [illegible] (Name of Appropriator), of [illegible] (Address) [illegible] (Town)

County of Hill State of Montana

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



NW 1/4 Sec. 5 T. 32 R. 16

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 Home [illegible]

3. Date or approximate date of earliest beneficial use; and how continuous the use has been [illegible] 4-1927

4. The amount of groundwater claimed (in miner's inches or gallons per minute) [illegible] 70 [illegible]

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 [illegible]

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater [illegible]

8. The depth of water table [illegible]

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 .....

10. The estimated amount of groundwater withdrawn each year [illegible]

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

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 .....

Date [illegible]

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.

9279