

259692

259692

I received and filed this Instrument for
 record on the 13 day of 19.....
 at 9:30 o'clock A.M. permanent files
 of Missoula County, State of Montana
 Witness my hand:
 Verance R. Crouse, County Recorder
 By *Scott H. Burman*, Deputy
 Fee \$ 2.00 Paid

RECORDED IN MISSOULA (2014) REGISTER OF DEEDS BOOK 1115
 PAGE 201

File No.

T. 12 N R. 20

DUPLICATE

County Missoula

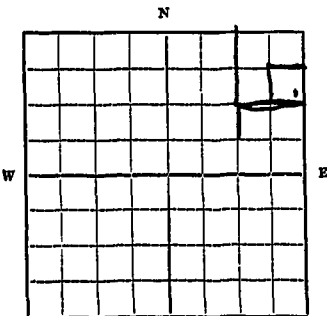
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1963)

1. William J. & Kathryn A. Ahern, of Rt. # 3, 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:



Plat B-1 & Plat A

NE 1/4 NE Sec. 10 T. 12 R. 20

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 and Irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1946 approximate date continuously

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1,400 Gals. --Per Hr.

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 2 acres of lawn, garden, and pasture (approximate)

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Approximate 1946

8. The depth of water table 84 ft. of water; 10 ft. to water; 6 ft. pit.

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 Six inch drilled well, 84 ft. deep, 10 ft. to water 84 ft. water. Pumping water level approximate 40 ft. One 1 hp. electric submersible pump.

10. The estimated amount of groundwater withdrawn each year 3,400,000

11. The log of formations encountered in the drilling of each well if available Exact log no available but approximate 80 ft. of quick 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.

William J. Ahern
Signature of Owner Kathryn A. Ahern

Date

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.

833 215241

I received and filed this instrument for record at 10:30 o'clock AM of 1963 of Missoula County, State of Montana
Witness my hand
By Michael S. Berner County Recorder
Fee \$ 2.00 Paid Deputy



Vertical text on the left side of the page, possibly a recording or filing stamp, including the words "RECORDED" and "INDEXED".

File No.

T. 12 N R. 20 W

DUPLICATE

County Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER DEC 3 1963

RECEIVED

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 7' Pit

7' to 12' Gravel & clay

12' to 18' clay

18' to 19' Gravel & water

19' to 26' Clay

26' to 31' ^{12 1/2} water

31' to 50' Clay, sand & gravel

50' to 58' Clay

58' 66' Sand, gravel, broken red rock, some water

66' to 73' Clay broken red rock

Well close to Pines

Owner Dr. C. LeRoy Anderson Address 1705 S. 5th W.

Driller Glenn Camp 705 Alder Address Missoula, Montana

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

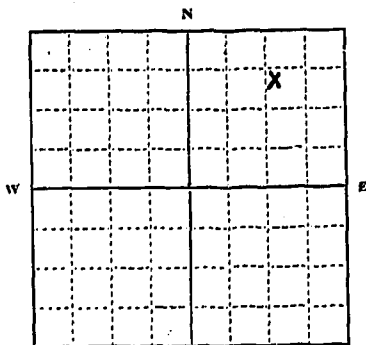
Date well started 10/11/63 Date Completed 10/16/63

Type of well Drilled Equipment Used Churn drill
(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.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6" I.D. 18.97	6" above floor of pit	62'-4"	none		



NE 1/4 Sec. 10 T. 12 N R. 20 W
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 39 from S.L. feet.

Shut-in Pressure for Flowing Well Does Not Apply

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

Discharge in gal. per min. of flowing well Does not apply

How Tested Pump Length of Test 2 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).....

None

License #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.

7718

357

213430

Copy

I received and filed this instrument for record on the 21 day of Nov 1927 at 11:00 o'clock P.M., permanent files of Missoula County, State of Montana.

Witness my hand:
MARTIN S. BEHNER, County Recorder
 By: Walter A. Behner, Deputy
 Fee \$ 2.00 Paid

book

record 5

part

of

to

1.00 worth of

book

19-20 of the

1927

of

book

noted paid 1927 of 100

noted paid, book 100

noted, 1927, book 100

paid 1927 of 100

book

2 items, paid 1927 of 100

noted 1927 of 100

paid 1927 of 100

noted 1927 of 100

File No. _____

T. 17 N. R. 20 W. 15

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

County _____
RECEIVED
JAN 3 1963

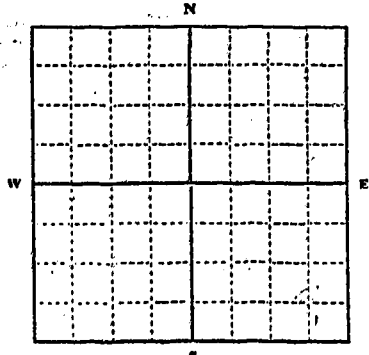
Declaration of Vested Groundwater Rights

STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

I, Martin T & Ellen R Backstrom, of Route 13, 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:



SE 1/4 SW 1/4 S10 T12N R20W
NE 1/4 NW 1/4 Sec. 15 T. 12N. R. 20W

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 irrigation & stock watering
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been. Approx. 10 years ago
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute). Approx. 20 gallons per minute
- 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof. Lawn irrigation only
- 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. Approx. 10 years ago (1963)
- 8. The depth of water table. unknown
- 9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. unknown
- 10. The estimated amount of groundwater withdrawn each year. unknown
- 11. The log of formations encountered in the drilling of each well if available. unknown
- 12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. none

Signature of Owner Ellen R. Backstrom

Date December 30, 1963

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

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

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

1173

I received and filed this instrument for
record on the 31 day of Dec 19 19 93
at 6:30 P.M. permanent files
of Missoula County, State of Montana
Witness my hand
By Matthias J. [Signature] Deputy Recorder
Fees \$ 7.25 Paid

MISSOULA COUNTY RECORDER
MISSOULA, MONTANA

K-10

File No. _____

APR 14 1966

T. 12N R. 20W

DUPLICATE

LOG

Blife _____ McDermott _____ County Missoula
 Butzer n _____ McNulty _____
 Coyle _____ Mcrton _____ STATE OF MONTANA
 Darlington _____ ADMINISTRATOR OF GROUNDWATER CODE
 Dickert _____ OFFICE OF STATE ENGINEER



Top of Ground _____
 (Elev. above sea level 3142')
 Formations Log

- 0 - 1 Dirt and broken rock
- 1 - 105 Red sandstone
- 105 - 117 Broken red sandstone Water

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner Ruth D. &/or Vernon L. Beattie Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None Filed

Date well started 11/2/65 Date completed 11/9/65

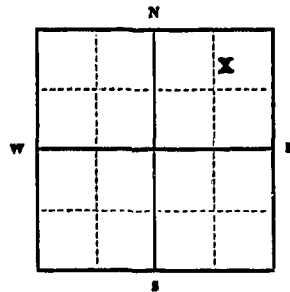
Type of well Drilled Equipment used Air Rotary Cable Tools
 (Dug, Driven, bored or drilled) (Churn drill, rotary or other)

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"	6 5/8 OD	41	8 1/2	Torch Cut	98	116
	7 5/8 OD	8 1/2	65			
	5 9/16 OD	41	116			

Water rises in well 87 1/2 feet from surface



Static Water Level for non-flowing well 87 1/2 feet.
 Shut-in Pressure for Flowing Well Non-F
 Pumping Water Level 112 feet
 at 20 gal. per minute.
 Discharge in gal. per min. of flowing well Non-flowing
 How Tested Air Lift Pump
 Length of Test Six hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) The 7 5/8 OD casing is grouted in the rock continuously between 8 1/2 feet and 65 feet from surface. All water entering well is coming through perforations and open bottom of 5 9/16 OD casing, between 98 & 116 feet
 (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).

Four Acres more or less
Cochise Drive, Painted Hills Estates, a subdivision in the planning stage and not yet recorded.

Show exact depth of bottom.
 Bottom of hole 117'

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

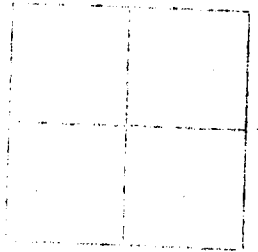
Driller's License Number _____
William F. Adams
 Driller's Signature

40969

1543

249120

I received and filed this instrument for
record on the 12 day of April 1966
at 10:40 o'clock P.M. permanent files
of Missoula County, State of Montana
Witness my hand:
Veranda R. Crouse, County Recorder
By *M. M. [Signature]* Deputy
Fee \$2.00 *[Signature]*



MISSOULA COUNTY RECORDERS OFFICE

MISSOULA COUNTY RECORDERS OFFICE

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 HENRY A. BLASTIC JR.
Address RT. 3 BITTERROOT RD.
MISSOULA, MONTANA
59801
Date well started DO NOT KNOW
completed

For Administrator's Use	
File	<u>25,761,334,373</u>
Issue	<u>29, 1973</u>
GW 1	<u>4 1/2 p.m.</u>

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

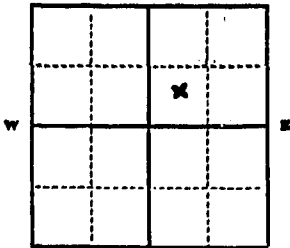
Water Use: Domestic Municipal Stock Irrigation

Industrial Drainage Other Garden/Lawn
Home is APPROX. 30 YEARS OLD - I DON'T
*Describe KNOW THE ORIGINAL OWNERS WHO BUILT

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 DONT KNOW

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
<u>UNKNOWN</u>	<u>UNKNOWN</u>	<u>UNKNOWN</u>	<u>UNKNOWN</u>	<u>UNKNOWN</u>	<u>UNKNOWN</u>	



S. 1/4 N.E. 1/4 Sec. 10
T. 12 R. 20 E

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

Driller's Signature UNKNOWN

Driller's Address UNKNOWN

LICENSE NO.

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) UNKNOWN

From (Foot)	To (Foot)	
		<u>ALL UNKNOWN</u>

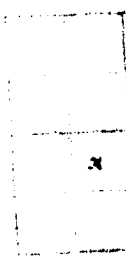
Table with 3 columns: From (Foot), To (Foot), and Log Description. All entries are blank or 'UNKNOWN'.

APPROX. 60' Show exact depth of bottom

334373

576

I received and filed this Instrument for
 record on the 29 day of Sept 1973
 at 4:16 o'clock P.M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
 Dorothy L. Head, County Recorder
 By [Signature], Deputy
 Fee \$ 2.00 Paid



MISSOULA COUNTY RECORDER
 MISSOULA, MONTANA
 RECEIVED
 SEP 29 1973
 DOROTHY L. HEAD, COUNTY RECORDER
 BY [Signature], DEPUTY

RECEIVED

County Missoula 10

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE AUG 11 1971
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.

Blue Mountain Water Development Assn-
Owner _____

Address Missoula, Montana

Date well started May 4, 1971

completed May 14, 1971

Type of well Drilled

Equipment used Churn Drill

Water Use: Domestic Municipal Stock Irrigation

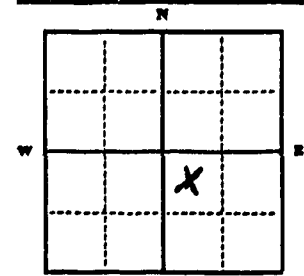
Industrial Drainage Other * Garden/Lawn

*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 unknown

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	24 lbs. per ft.	0	85	3/16x5	75	85



NW 1/4 SE 1/4 Sec. 10
T. 12 N. R. 20 W.

Static water level 38 ft.*
Pumping water level 72 ft.*
at 70 gallons per minute,
measured 100 minutes after pumping
began.
*Measured from ground level.
Well developed by balling
for 3 hours.
Power _____ Pump _____ HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)
1 ft. gravel pack

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

Driller's Signature Revall Drilling Co.

Driller's Address Box 27, Victor, Montana

LICENSE NO. 200

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	3	Topsoil
3	27	Clay, gravel, fine sand
27	61	Red gravel, sand Tight packed
61	78	Red gravel, sand Water bearing
78	85	Sand, gravel - coarse Water bearing

85 Show exact depth of bottom

48896

216

306.530

I received and filed this instrument for
 record on the 17 day of Aug, 1921
 at 1:27 o'clock P.M., permanent files
 of Missoula County, State of Montana
 Witness my hand
 Verance R. Crouse, County Recorder
 By S. H. [Signature] Deputy
 Fee 50.00 Paid

RECORDED
 MISSOULA COUNTY
 MONTANA
 AUG 21 1921

Produced Pursuant to
 State of Montana
 1921

File No.

T. 12 N. R. 20 W. 10

DUPLICATE

County MISSOULA

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
MAY 27 1965

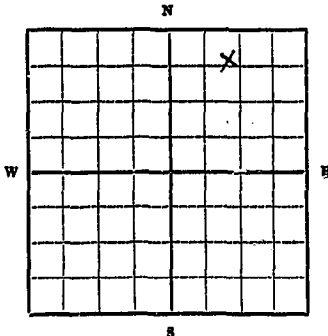
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

JOHN F. BOYLE AND/OR LUCINA S. BOYLE of ROUTE 3 BITTERROOT ROAD, 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. 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, STOCK, IRRIGATION, OTHER

3. Date or approximate date of earliest beneficial use; and how continuous the use has been. DATE OF PURCHASE 12/31/65 - CONTINUOUS AS POSSIBLE

4. The amount of groundwater claimed (in miner's inches or gallons per minute) TWO (2) GALLONS PER MINUTE (NATURAL SPRING)

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.E. 1/4 OF SECTION 10, T12N R20W

JOHN F. BOYLE AND/OR LUCINA S. BOYLE

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. NATURAL SPRING - DEEPENED & ENLARGED

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater MAY 15, 1965

8. The depth of water table NATURAL SPRING

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. WELL - DRILLED - 219 FT. CASED 6" - 16 GALLONS A MINUTE - 150,000 GALLONS

10. The estimated amount of groundwater withdrawn each year 150,000 GALLONS

11. The log of formations encountered in the drilling of each well if available. 0-2' DIRT, 2-132' RED ROCK, 132'-158' RED ROCK, 158'-219' RED & GREEN ROCK IN ALTERNATE LAYERS TWO TO FOUR FEET THICK, FRACTURED WATER IN CRACKS & SEAMS

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.....

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

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.

39151

1504

237084

I received and filed this Instrument for record on the 25 day of May, 1965, at 9:44 o'clock A.M., pertinent files of Missoula County, State of Montana

Witness my hand:
 Veranoe R. Crouse, County Recorder
 By Deanna P. Ring, Deputy
 Fee \$ 2.00 Cash Paid

RECORDED
 MISSOULA COUNTY, MONTANA
 MAY 25 1965

MISSOULA COUNTY, MONTANA
 DEPT. OF CLERK & REC'D
 MISSOULA, MONTANA

File No. _____

T. 12N R. 20W 10

DUPLICATE

LOG

County _____

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
MAY 27 1965
STATE ENGINEER

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Lucina S. and/or

Owner Jahn E. Boyle Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

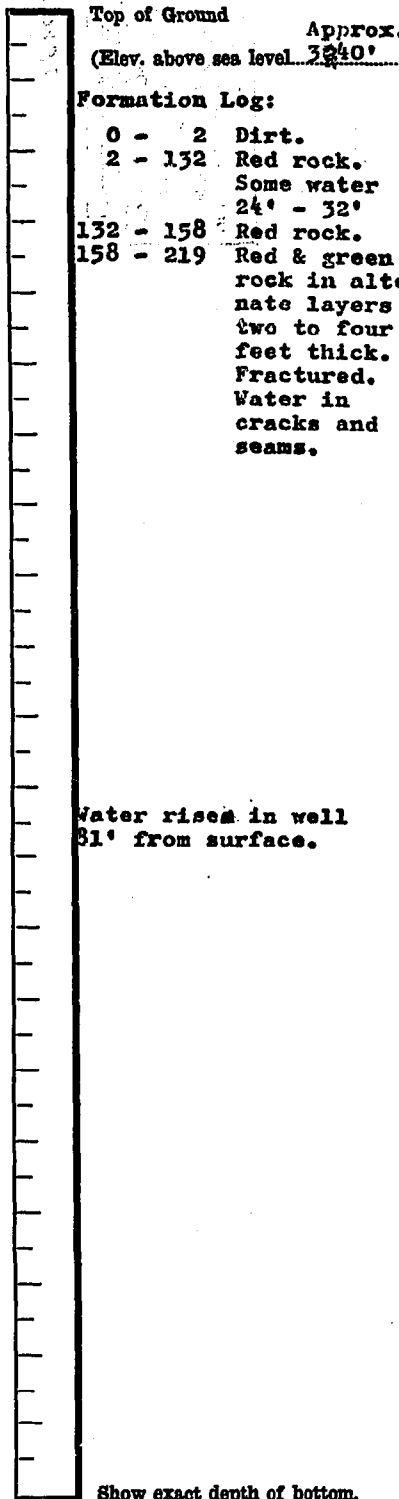
Date of Notice of appropriation of groundwater None-filed

Date well started 5/10/65 Date completed 5/18/65

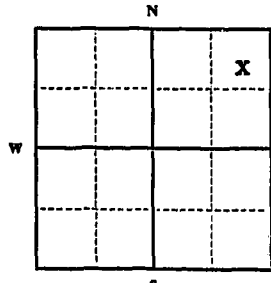
Type of well Drilled Equipment used Air Rotary
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)

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"	6 5/8 OD x 1/2 inch	+1 1/2	133 3/4	4 1/2 OD with sixteen 1/2" x 3" slots	131 161'	219 219'



NE 1/4 Sec. 10 T. 12N R. 20W
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Static Water Level for non-flowing well 81 feet.

Shut-in Pressure for Flowing Well Non-f Pumping Water Level 185 feet at 16 gal. per minute.

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

How Tested Air Lift Pump

Length of Test Six hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well through slots in four and one half inch liner from cracks and seams in rock from 161 feet to 219 feet.

.....(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).

Thirteen Acres

Show exact depth of bottom.
Bottom of hole 219'

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

William F. Osborne
Driller's Signature

29158

H
505

237085

I received and filed this Instrument for
record on the 25 day of May 1965
at 9:12 o'clock A.M., permanent files
of Missoula County, State of Montana
Witness my hand:
Verona E. Cross, County Recorder
By *Debra M. ...*, Deputy
Fee \$ *2.00* Paid

CLERK

Debra M. ...
 Clerk of Court
 1000 ...
 Missoula, Montana
 59701

GW 3

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

10

File No.....

T. 12 R. 20

DUPLICATE

County MISSOULA

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
DEC 30 1963

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 12-27-63

Owner Julia O. Hanson Address 3309 Russell

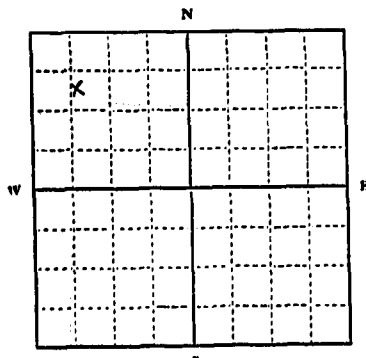
Contractor (if any) None

Address of Contractor

Date Started Date Completed

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

water from spring used for household water



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.

Continuous use 5 gallons per minute

N.W. 1/4 NW Sec. 10. T. 12 R. 20

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

Signature of Owner Julia O. Hanson

Date 12-27-63

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

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

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

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

152 53

650 2150 29

I received and filed this instrument for
record on the 27 day of Dec 1967
at 12 o'clock P.M. Permanent Files
of Missoula County, State of Montana
Witness my hand:
Walter S. Gehring County Recorder
By Walter S. Gehring Deputy
Fee \$ 2.00 Paid

GW 2

File No. _____

DUPLICATE

LOG

RECEIVED
MAR 19 1965

T. 12N R. 20W

County _____

STATE ENGINEER
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER
MAR 15 1965

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

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground
Approx (Elev. above sea level) 3140

Formation Log:

- 0 - 1 Top soil.
- 1 - 32 Gravel imbedded in tan clay
- 32 - 54 Tan sandy clay.
- 54 - 66 Gravel mixed in tan sandy clay
- 66 - 67 Sand & gravel. water.
- 67 - 69 1/2 Broken red rock. Water.

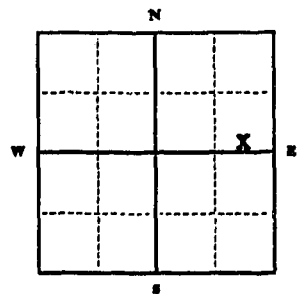
Type of well: Drilled Equipment used: Cable Tools
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)

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"	6 5/8 OD x 1/4 inch	+1	68 1/2	N	O	N

Section No. 7



Static Water Level for non-flowing well _____ feet.

Shut-in Pressure for Flowing Well _____ feet

Pumping Water Level _____ feet

at _____ gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested: Ballor

Length of Test: 4 1/2 hrs

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water is entering well through the open bottom of the six inch casing.

Sec. 10, T. 12N, R. 20W
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).
One and one-half acres

Show exact depth of bottom.
Bottom of hole 68 1/2'

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
William F. Dalme
Driller's Signature

39007

1480

233765

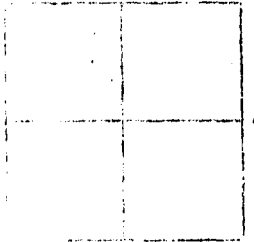
I received and filed this instrument for
 record at **10 p March 65**
 at **1:00** in the public files
 of the County of **Stevens**, State of **Montana**
 Witness my hand
 Veronique H. Crecus, County Recorder
 By **Nancy G. Head**, Deputy
 Fee \$ **2.00** Cash Paid

RECEIVED

STATE ENGINEER

RECEIVED

STATE ENGINEER



Vertical text on the right edge of the page, possibly a page number or reference code.

File No. _____

T.12N R. 20W 16

DUPLICATE

County. Missoula

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
APR 16 1965
STATE ENGINEER

LOG

Top of Ground Approx.
(Elev. above sea level 5142)

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

(Under Chapter 237, Montana Session Laws, 1961)

Ray W. and/or

Owner Thelma Stoddard Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

Date well started 10/12/64 Date completed 3/6/65

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

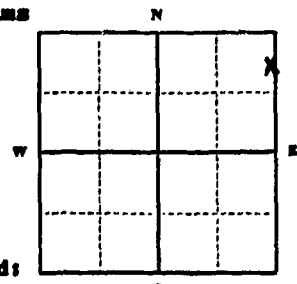
Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

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.

Formation Log:

- 0 - 2 Tree stump
- 2 - 10 Pink broken rock & tan silty clay.
- 10 - 15 Dark brown clay & silt with pink broken rock imbedded
- 15 - 46 Solid red rock
- 46 - 79 Red & gray rock in alternate layers two to four feet thick
- 79 - 86 Badly fractured gray rock. Caving
- 86 - 92 Badly fractured gray rock
- 92 - 108 Solid gray rock
- 108 - 124 Badly fractured red rock
- 124 - 197 Solid red rock
- 197 - 205 Fractured red rock. Water in cracks & seams
- 205 Solid red rock

Size of Drilled Hole	Size and Weight of Casing	From (Foot)	To (Foot)	PERFORATIONS		
				Kind Size	From (Foot)	To (Foot)
6"	6 5/8" OD x 1/2"	+1	131' 10"	NONE		



Static Water Level for non-flowing well 92 feet.

Shut-in Pressure for Flowing Well Non-flowing

Pumping Water Level 170 feet at 1.7 gal. per minute.

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

How Tested Air Lift Pump

Length of Test 6 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water is entering well through cracks and seams in the rock below 197 feet.

First water encountered:

79 - 86 Seeps of water not sufficient to make a well

1/4 Sec. 10 T.12N R. 20W
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).

Five Acres

Show exact depth of bottom.
Bottom of hole 205'

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

William F. Osborne
Driller's Signature

39074

1490

235297

I received and filed this Instrument for
 record on the 13 day of April, 1965
 at 3:00 o'clock PM, permanent files
 of Missoula County, State of Montana
 Witness my hand:
 Veronika R. Grouse, County Recorder
 By Mary Skelton Deputy
 Fee \$ 2.00 Paid

RECEIVED
 APR 13 1965

MISSOULA COUNTY RECORDER
 MISSOULA, MONTANA
 DEPT. OF REVENUE
 100 N. 2ND ST.
 MISSOULA, MONTANA 59801

File No. _____

T. 12^N R. 20^W 11

DUPLICATE

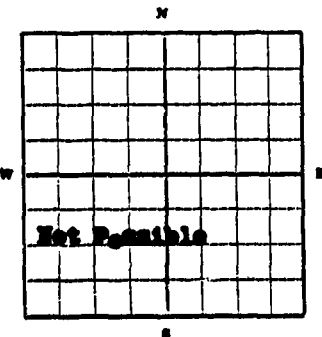
County _____

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 3 1963

Declaration of Vested Groundwater Rights
(Under Chapter 237, Montana Session Laws, 1962) STATE ENGINEER

1. Robert Boggess of Route 3 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. T. R.

Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres. **Not possible.**

2. The beneficial use on which the claim is based Domestic water and stock water and irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been July 26, 1962; continuous since that date.

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 1/4 NW 1/4 NE 1/4, Section 11, Township 11 North, Range 20 West; one acre; Owner - Robert Boggess

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric pump in farm yard

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Date well started - July 21, 1962; Date well completed July 26, 1962

8. The depth of water table Seventy 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 Size of drilled hole, 5"; Size and weight of casing, 5" I. D. 14 lb. seamless; From 2" above pit floor to 21'-0"

10. The estimated amount of groundwater withdrawn each year Unknown

11. The log of formations encountered in the drilling of each well if available 0 to 5' Pit; 5' to 17' Old well; 17' to 57' sand, some gravel & water; 57' to 83' sandy clay & gravel; 83' to 94' sand, some gravel & water; 94' to 96' sand, gravel, and water

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

Signature of Owner Robert O. Boggess
Date December 30, 1963

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

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

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

20000 (u)

801 215209

I received and filed this instrument for
recording at 7:18 o'clock P.M. of 12.6
at 7:18 o'clock P.M., permanent files
of Missoula County, State of Montana
Witness my hand:
M. W. S. BAKER, County Recorder
By: *Mad. J. Baker* Deputy
Fee \$..... Paid

3008 3008

The amount of 3008 Dollars has been received
for the purpose of recording this instrument.

RECORDED IN BOOK 1008 PAGE 1008
MAY 12 1908

RECORDED IN BOOK 1008 PAGE 1008
MAY 12 1908

RECORDED

RECORDED IN BOOK 1008 PAGE 1008
MAY 12 1908

RECORDED

RECORDED IN BOOK 1008 PAGE 1008
MAY 12 1908

File No.

T 12^N R 20^W 11

DUPLICATE

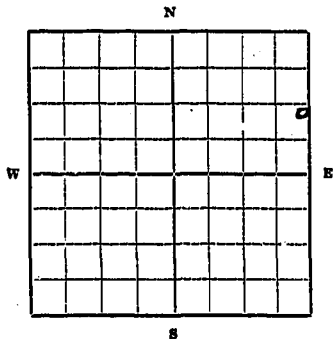
County

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. Clarence L. & Doris Jones, et. 3 Lower Miller Creek Road, 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:



In the SE 1/4, NE 1/4, Sect 11, T. 12N, R. 20W

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 and irrigation.
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been May 1, 1960.
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 40 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 2 Acres, Clarence L. & Doris Jones. In the SE 1/4, NE 1/4 Section or Lot 11, T. 12N, R. 20 W.
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Submersible pump.

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Commenced in January 1960 and completed in February 1960.
- 8. The depth of water table 35 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 6" casing, 200' deep.
- 10. The estimated amount of groundwater withdrawn each year 1,000,000 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 None.

Signature of Owner Clarence L. Jones
Doris Jones
Date Dec. 19, 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.

778 215186

NOV 21 1967

RECEIVED
COUNTY CLERK
MINEOLA COUNTY

I received and filed this document for record in the City of Deer on 12-27 at 7:30 o'clock P.M., permanent files of Mineola County, State of Montana.
Witness my hand and the seal of said County Recorder
By Walter S. Bishop County Recorder
Fee \$ 2.00 Paid

File No. _____

MONTANA WATER RESOURCES BOARD
REGISTRATION

T. _____

DUPLICATE

County Missoula

LOG
MAY 25 1970

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)

Clara C. Brown

Owner Marlin L. Brown Address 5820 Lori Court

Missoula, Montana

Driller Beebe Drilling Address Polson

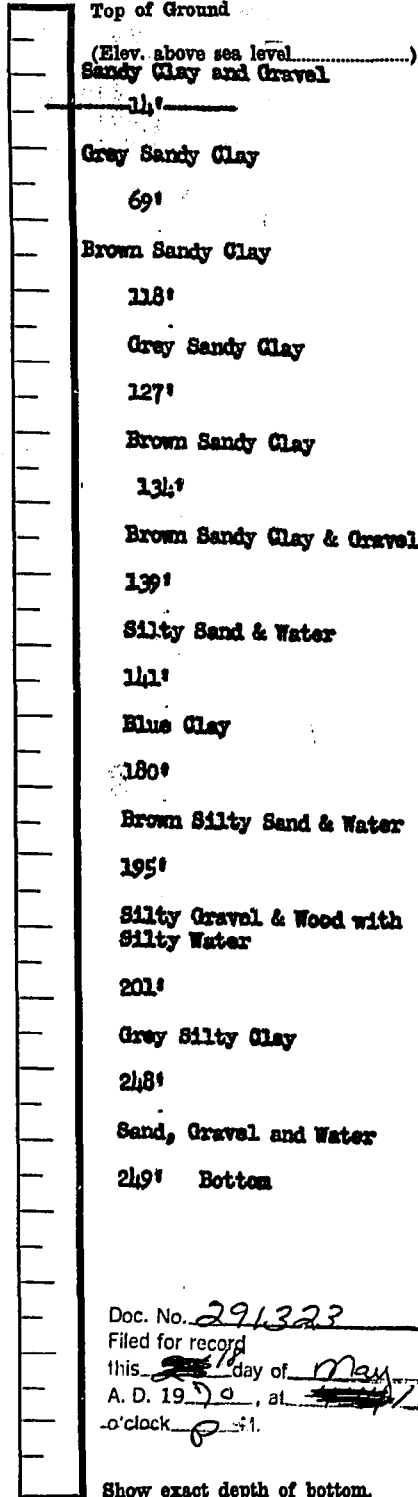
Date of Notice of appropriation of groundwater None

Date well started Sept. 9, 1968 Date completed Sept. 21, 1968

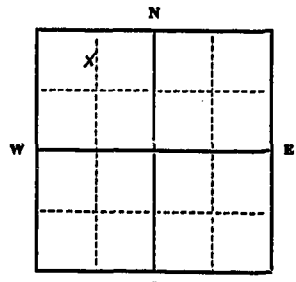
Type of well Drilled Equipment used Churn Drill
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

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"	6-5/8 17#	1' above ground level	249'	None		



Static Water Level for non-flowing well 82 feet.
Shut-in Pressure for Flowing Well N/A
Pumping Water Level 152 feet
at 14 gal. per minute.
Discharge in gal. per min. of flowing well N/A

How Tested Baller
Length of Test Two Hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) Well located Lot #8, Block 7, Linda Vista Addition, Missoula, Montana

N.W. 1/4 Sec. 13, T. 13, R. 20
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

Doc. No. 291323
Filed for record _____ (Continue on reverse side)
this 25 day of May, 1970 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).
at 10 o'clock P.
Single family dwelling (Domestic)
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.

163
Driller's License Number
Donald Beebe
Driller's Signature.

46482

1989

291323

I received and filed this instrument for record on the 18th day of May, 1970, at 12:00 o'clock, P.M., permanent files of Missoula County, State of Montana.

Witness my hand:
 Verance R. Crouse, County Recorder;
 By *M. M. Crouse*, Deputy
 Fee \$ 2.00 Paid *sh*

Missoula County, Montana
 Recorder's Office
 100 North Broadway
 Missoula, Montana 59802

File No. _____ NOV 15 1965 T 12N R 20W 12
 DUPLICATE Bill _____ McDermott _____
 Butcher _____ McNulty _____
 Co. In _____ Morton _____
 Dr. _____ Sullivan _____
 Dickert _____
 County Missoula

STATE OF MONTANA
 ADMINISTRATOR OF GROUNDWATER CODE
 OFFICE OF STATE ENGINEER



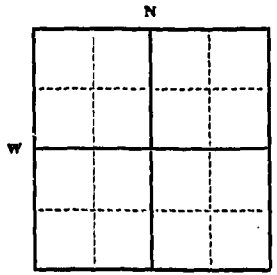
Top of Ground Approx. 3,300
 (Elev. above sea level 3,300)
 0 to 7' Pit.
 7 to 45' thin layers of clay, with sand and gravel.
 45 to 51' Dry sand.
 51 to 57' Clay and gravel.
 57 to 63' Dry gravel.
 63 to 67' Gravel with water about a 10' raise.
 67 to 73' Gravel and sand.
 73 to 81' Gravel sand and water.
 81 to 90' Sandy clay and gravel no water.

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

Owner Howard R. Cabs Address 3337 Raymond Court Missoula, Montana
 Driller Glen Camp Address 705 Alder Missoula, Montana
 Date of Notice of appropriation of groundwater None
 Date well started June 7, 1960 Date completed June 9, 1960
 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)
5" I.D.	15 lb.	6' below ground level	75' 2 in.	none		



Static Water Level for non-flowing well 56 feet.
 Shut-in Pressure for Flowing Well None
 Pumping Water Level 56 feet
 at 10 gal. per minute.
 Discharge in gal. per min. of flowing well None
 How Tested Baller
 Length of Test 2 hours

Lot 14 in Block 2 of Linda Vista, a platted subdivision in Missoula, Montana. Sec. 14 T. 12N R. 20W
 Indicate location of well and place of use, if possible. Each small square represents 40 acres.
 Remarks: (Gravel packing, cementing, packers, type of shutoff) None

(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).
None

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.

7
 Driller's License Number _____
 Driller's Signature Glen Camp

39823

1535

243643

I received and filed this instrument for record on the 12 day of Nov. 1965 at 2:20 o'clock P.M. permanent files of Missoula County, State of Montana
 Witness my hand
 Veranoe R. Crouse, County Recorder
 By M. M. Crouse, Deputy
 Fee \$2.00 Paid cash

RECORDED IN MISSOULA COUNTY, MONTANA
 NOV 12 1965
 MISSOULA COUNTY RECORDER'S OFFICE

10

MISSOULA COUNTY RECORDER

NOV 12 1965

MISSOULA

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

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.

(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 Donald P. and Lois J. Connolly

Address 3338 Helena Drive

Missoula, Montana

Date well started June 22, 1964

completed June 30, 1964

Type of well Drilled

Equipment used Cable tools

Water Use: Domestic Municipal Stock Irrigation

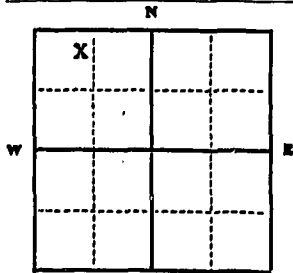
Industrial Drainage Other Garden/Lawn

*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). Lot 2, Block 5, Linda Vista Addition

ESTIMATED ANNUAL WITHDRAWAL 200,000

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6 5/8" OD x 3/4"	6	66	N	O	N E



NW 1/4 NW 1/4 Sec. 12
T. 12 N. R. 20 E. S. W.

Static water level 10 ft.*
Pumping water level 40 ft.*
at 40 gallons per minute,
measured 5 1/2 minutes after pumping
began. hours
*Measured from ground level.
Well developed by Air Lift
for 5 1/2 hours. Pump
Power G.A.S. Pump 100 HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff) All
water entering well
through open bottom of
six inch casing.

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

Driller's Signature W. D. ...

Driller's Address 2500 Reserve Street

Missoula, Montana LICENSE NO. 52

Top of Ground (Elev. above sea level) 3200'

From (Feet)	To (Feet)	
0	6	Pit
6	16	Sand and gravel mixed in tan clay.
16	21	Silty sand with some gravel mixed in. First water.
21	29	Tan clay. Some gravel imbedded.
29	56	Tan silty clay with some sand mixed in. Seep of water.
56	61	Sand and gravel. Water.
61	66	Clean coarse sand and gravel. Water.

66 ft. Show exact depth of bottom
Water rises in well 10 feet
from surface.

48175

2091

297780

I received and filed this instrument for
 record on the 24 day of Feb, 1971
 at 10 o'clock A. M., permanent files
 of Missoula County, State of Montana
 Witness my hand.
 Verance R. Crosse, County Recorder
 by J. M. C. [Signature] Deputy
 Fee \$ 2.00

File No. _____

JUL 10 1967

T. 12 R. 29

DUPLICATE

LOG

Bill _____ McDermott _____ County Missoula
Butcher _____ M.F. by _____ STATE OF MONTANA
Co. _____ No. ADMINISTRATOR OF GROUNDWATER CODE
Derrick _____ Sullivan _____ OFFICE OF STATE ENGINEER

Top of Ground	(Elev. above sea level _____)
G.L.	sand & gravel
4	
4	brown clay with gravel in bedded
14	
14	tan clay, sand & gravel
23	
23	tan clay with sand, gravel & water seams
24	
24	tan clay, sand & gravel
46	
46	sand, gravel and water
49	

Notice of Completion of Groundwater Appropriation by Means of Well DEVELOPED AFTER JANUARY 1, 1963

(Under Chapter 237, Montana Session Laws, 1961)

Owner ERNEST DeClare Address 3222 EUDORA LANE
MISSOULA, MONT.
Driller KEN WILLIAMS Address 1558 So. 5th W.
MISSOULA, MONT.

Date of Notice of appropriation of groundwater _____

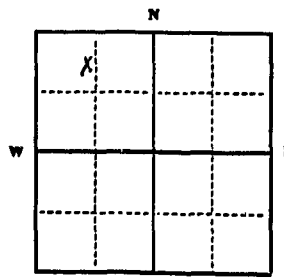
Date well started JUNE 28, 67 Date completed JUNE 29, 67

Type of well drilled Equipment used churn
(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)
8" I.D.	6 5/8" O.D. 17 lbs. 1/2" side wall	ground level	49'			



Static Water Level for non-flowing well 15 feet.
Shut-in Pressure for Flowing Well _____
Pumping Water Level 48 feet
at 45 gal. per minute.
Discharge in gal. per min. of flowing well _____
How Tested compressor test
Length of Test 2 hours
Remarks: (Gravel packing, cementing, packers, type of shutoff) _____

M. 1/4, N. 1/4, Sec. 12, T. 12 R. 20
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.

151
Driller's License Number

Ken Williams
Driller's Signature.

42,125

1721

262203

11 22 2 6 4 4

I received and filed this instrument for
 record on the 16 day of July 1947.
 at 1:10 o'clock P.M. Government files
 of Missoula County, State of Montana
 Witness my hand:
 Veramo R. Crouse, County Recorder
 By M. C. ... Deputy
 Fee \$2.00

MISSOULA COUNTY RECORDS
 262203
 JULY 16 1947
 MISSOULA, MONTANA

File No

T 12N R 20W

DUPLICATE

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground Approx. (Elev. above sea level 3200')

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

(Under Chapter 237, Montana Session Laws, 1961)

Jean L. Felton &/or

Owner John Felton Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

Date well started 3/27/68 Date completed 4/5/68

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

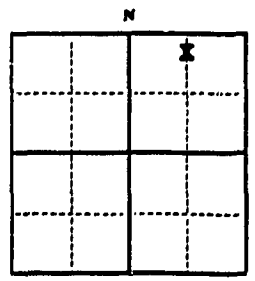
Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

Formations Log:

- 0 - 10 Pit.
- 10 - 19 Light tan clay.
- 19 - 27 Granitic sand.
- 27 - 41 Light brown sandy clay.
- 41 - 53 Sand & gravel mixed in clay.
- 53 - 57 Fine brown sand.
- 57 - 76 Sand & gravel mixed in clay.
- 76 - 89 Brown sandy clay.
- 89 - 119 Sand & gravel mixed in tan clay.
- 119 - 131 Sand & gravel mixed in tan & brown clay. Seeps of water.
- 131 - 136 Sand & gravel mixed in tan clay.
- 136 - 148 Brown sand mixed in tan silty clay.
- 148 - 164 Sand & gravel mixed in gray clay.
- 164 - 174 Clean coarse sand & gravel. Water.
- 174 - 178 Tan clay.
- 178 - 186 Blue green clay.

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)
131 - 136	6"	6 5/8" OD x 1/2"	-9	162	Shop Made Screen 5 9/16" trench cut	162	173'9"
148 - 164					A 5 9/16" blank tail pipe	173'9"	186'



Static Water Level for non-flowing well 102 feet.

Shut-in Pressure for Flowing Well None

Pumping Water Level 147 feet at 30 gal. per minute.

Discharge in gal. per min. of flowing well None flowing

How Tested Air Lift Pump

Length of Test Four hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well through slot opening in shop made screen. Wells in this area can be depended upon to produce clear sand.

N 1/4 NE Sec. 12 T. 12N. 20W

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

Free water year after year as long as they are not overpumped, i.e., they should be pumped at rates not in excess of 25 to 30 (cubic feet per acre) tested capacity of the aquifer.

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).

Lot 1 and 2 in Starlight Addition

Water rises in the well 102 feet from surface.

Show exact depth of bottom.
Bottom of hole 186'

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

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

Driller's License Number
William F. Osborne
Driller's Signature.

44,558

File No. _____

RECEIVED

T. 12N R. 20W

12

DUPLICATE

OCT 23 1970

County Missoula

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground: APPROX. 3200 ft.
(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)

Formations Log:

- 0 - 2 Dirt.
- 2 - 17 Sand and gravel.
- 17 - 39 Sand and gravel mixed with tan clay.
- 39 - 61 Fine brown and tan sand.
- 61 - 64 Coarse white and brown sand.
- 64 - 69 1/2 Clean coarse sand and gravel.

Owner Charles G. and Shirley A. Golden Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed.

Date well started 4/25/66 Date completed 4/26/66

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

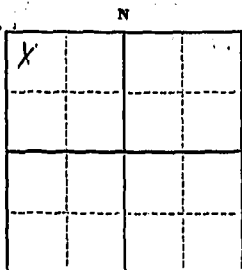
Water use: Domestic Municipal Stock Irrigation
Industrial Drainage Other

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.

Doc. No. 296031
Filed for record
this 20 day of October
A. D. 19 70, at 11:05
o'clock P. M.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6 5/8" x 1/4"	+1' 5"	69 1/2'	Torch cut	64'	69 1/2'

Water rises in well 18 1/2 feet from surface.



Linda Vista 8 15⁶ Supph
L. & 10- Blue K 5

NW 1/4 Sec. 12, T. 12N R. 20W

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

Static Water Level for non-flowing well 18 1/2 feet.

Shut-in Pressure for Flowing Well Non-f.
Pumping Water Level 55 feet
at 40 gal. per minute.

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

How Tested Air Lift Pump
Length of Test 4 hours

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming through perforations in the casing.

Wells in this area can be depended upon to produce clear sand free water year after year as long as they. (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).

Approximately 1/2 acre.

Show exact depth of bottom.
Bottom of well 69 1/2 ft.

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

William F. Adams
Driller's Signature

47665

296031

Received and filed the instrument for record on the 20 day of Oct. 1970 at 11:00 o'clock A. M. pursuant to the of Missoula County, State of Montana.
 Witness my hand:
Armand H. Brouse, County Recorder
 By Ann Beckwith, Deputy
 Fee \$ 2.00 Paid

are not overpumped, i.e., they should be pumped at rates less than 25 to 50 percent of the tested capacity of the aquifer.

DEPARTMENT OF WATER RESOURCES
 DIVISION OF WATER RESOURCES
 MISSOULA, MONTANA
 OFFICE OF THE DIRECTOR
 MISSOULA, MONTANA

2053
 TRADE



File No.

T. 20K R. 20K
12 12
County Missoula

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF 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 Approx.
3275)

- 0- 3 Dirt
- 3- 32 Sand & gravel
- 32- 93 Gravel mixed in tan silt
- 93-119 Gravel imbedded in yellow clay
- 119-131 Gravel mixed in tan silt
- 131-139 Fine silty sand
- 139-182 Silty sand and gravel. Some water.
- 182-185 Clean coarse sand and gravel. Water rises to 145 feet from surface.

Owner Horace W. Gregory Address 421 North Ave East
Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of Appropriation of Groundwater None filed

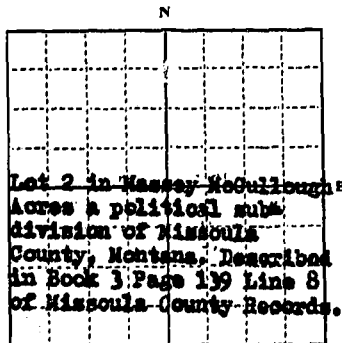
Date well started 8/10/62 Date Completed 8/19/62

Type of well Drilled Equipment Used Cable tools
(dug, driven, bored or drilled) (Churn, drill, rotary 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 in	6 5/8" OD 17 # pr ft	+1 1/2	185 1/2	N	O	N



1/4 Sec. 1 T. 20N R. 20W
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well 145 feet.

Shut-in Pressure for Flowing Well Non-flowing

Pumping Water Level 175 feet at 20 gal. per minute.

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

How Tested Sailor Length of Test 7 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) Water used for domestic supply, stock water and partial irrigation of 15 acres surrounding well.

Show exact depth of bottom.

Bottom of well 185 ft.

Driller's License Number
William F. Osborne
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.

20179

MISSOURI
RECORDS

1059

2155-34

I received and filed this instrument for record on the 31st day of Dec. 1960 at 4:15 o'clock P.M., permanent files of Missoula County, State of Montana
Witness my hand:
MARTIN S. BRINER, County Recorder
By Charles C. ... Deputy
Fee \$ 2.00 Paid

MISSOURI RECORDS
RECORDS SECTION
MISSOURI RECORDS
RECORDS SECTION

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MISSOURI RECORDS
RECORDS SECTION

File No. _____

STATE WATER CONSERVATION BOARD

T 12N R. 220W

DUPLICATE

JUN 9 1967

County Missoula

LOG

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)

Owner: **ERLING E. & ELIZABETH A. GUSTAFSON** Address: **3914 ELDORA LANE MISSOULA, MONT.**

Driller: **KEN WILLIAMS** Address: **1558 So. 5th W. MISSOULA, MONT.**

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

Date well started: **May 15, 67** Date completed: **May 24, 67**

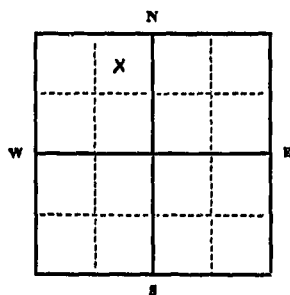
Type of well: **drilled** Equipment used: **churn**
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

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.

g1	top soil
1	
1	tan clay, sand & gravel
11	
11	brown clay & silt
24	
24	tan clay, sand & gravel
51	
51	silt water in decomposed granite
52	
52	tan clay, sand & gravel
61	
61	sand & silt in dirty water
70	
70	tan clay, sand & gravel
79	
79	heaving silt & sand
92	
92	tan clay, sand & gravel
97	
97	gray clay & silt
126	
126	tan clay, sand & gravel
129	
129	gray clay, sand, silt & gravel
146	
146	seep of water
146	
146	gray clay, silt, sand & gravel
187	
187	brown clay, silt & wood imbedded
195	
195	gray silt, sand, mica & water
201	
201	cemented gravel
203	
203	sand, gravel & water
205	6"

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6" I.D.	6 5/8" O.D.	ground level	205' 6"			
	17 lbs. per ft. 1/2" side wall					



Static Water Level for non-flowing well **43** feet.

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

Pumping Water Level..... **304** feet at..... **5** gal. per minute.

Discharge in gal. per min. of flowing well

How Tested..... **ball test**

Length of Test..... **6 hours**

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

NN 1/4 Sec. 12, T. 12N, R. 22W
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).

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.

151
Driller's License Number

Ken Williams
Driller's Signature

42,051

1713

261351

I received and filed this instrument for
 record on the 7 day of June 1947
 at 1:30 o'clock P.M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
 Veronae H. Crouse, County Recorder
 By Wesley L. Ward Deputy
 Fee \$ 2.00 Paid cash

Bohnert, General
 Clerk of Court
 Missoula, Montana

File No. _____

T. 12 R. 20W

DUPLICATE

County _____

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

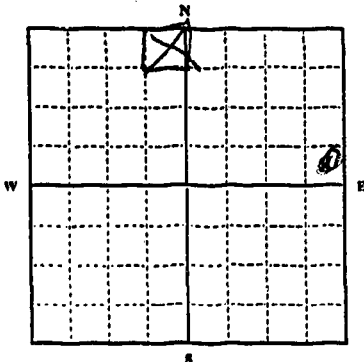
RECEIVED
DEC 30 1963

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Chris Starnes, of P3 Minnerda
(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 NW Sec. 12 T. 12N R. 20W

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 & irrigation

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
1949
continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
80 gallons per
271 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
10 acres NE 1/4 NW 1/4 Sec 12 T. 12N
Range 20W
Chris Starnes, owner

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
summer 1949

8. The depth of water table
40 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
drilled 6 inch casing
157 feet deep

10. The estimated amount of groundwater withdrawn each year
1000 gal per hour

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 _____

Date _____

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.

15217

615

214 927

I received and filed this instrument for
 record on the 27 day of Dec 1967
 at 9:23 P.M. 9:23 P.M., pursuant to the
 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. _____

STATE WATER CONSERVATION BOARD

T. 12 R. 20

DUPLICATE

MAY 1 1967

County Missoula

LOG

McDermott

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Top of Ground

(Elev. above sea level 2542)

Notice of Completion of Groundwater Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)



0-1 1/2 top soil

1 1/2-35 small gravel & clay

35 - 57 gravel & light tan clay

57 - 75 ~~fine~~ sand & gravel

75 - 150 gravel sand & red clay

150 - 180 gravel & light gray clay

180 - 210 water sand & gravel

210 - 220 gravel & water

Owner B. E. Hodges Address W. B. Miller Co.

Driller Harold K. Pickens Address 3624 So. Ave.

Date of Notice of appropriation of groundwater _____

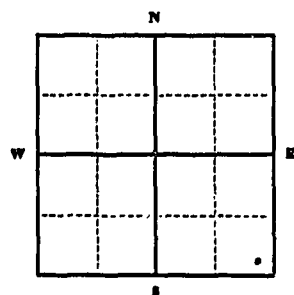
Date well started Sept. 24 1965 Date completed Sept 31 1965

Type of well Drilled Equipment used Cable Tool
(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)
8 in.	14.80	0	220			



Static Water Level for non-flowing well _____ feet.

Shut-in Pressure for Flowing Well _____ feet.

Pumping Water Level 161 feet

at 30 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested pumped

Length of Test 8 hrs.

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

Tract 8
Massey McCullough Acres

1/4 Sec. 12, T. 12, R. 20
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.

221 feet

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

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

Driller's License Number

Harold Pickens
Driller's Signature

41,950

641
DABYL

260104

I received and filed this Instrument for
record on the 26 day of April 19 67
at 1:30 o'clock P.M., permanent files
of Missoula County, State of Montana
Witness my hand.
Vernice H. Crouse, County Recorder
By *Hervey L. Head*, Deputy
Fee \$ 7.00 Paid cash

0

Original Instrument
Not to be returned

RECEIVED

File No. _____

T.12N R.20W

DUPLICATE

JUN 4 1970

County Missoula

LOG

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE STATE WATER CONSERVATION BOARD

Top of Ground (Elev. above sea level) Approx. 3200 ft.

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

Formations Log:

- 0 - 1 Black dirt and gravel.
- 1 - 34 Sand and gravel mixed in tan clay.
- 34 - 61 Fine tan sand with a few gravels mixed in.
- 61 - 63 Clean coarse gravel. Water.
- 63 Coarse gravel with some clay.

Owner: Charles A. and Emma Holbrook Address: Missoula, Montana

Driller: Liberty Drilling Co. Address: Missoula, Montana

Date of Notice of appropriation of groundwater: None filed.

Date well started: 9/13/66 Date completed: 9/14/66

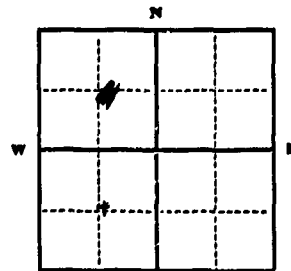
Type of well: Drilled Equipment used: Cable tools
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

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	From (Feet)	To (Feet)
6"	6 5/8" x 1/4"	+2	63	N	O	N

Water rises in well 14 feet from surface.



Static Water Level for non-flowing well 14 feet.

Shut-in Pressure for Flowing Well None

Pumping Water Level 31 feet at 60 gal. per minute.

Discharge in gal. per min. of flowing well None

How Tested Air Lift Pump

Length of Test 2 hours

Remarks: (Gravel packing, cementing, pack-ers, type of shutoff) All water is entering well through the open bottom of casing. Wells with open bottom completions in this area can be depended upon to produce clear sand free water year after year. (Continue on reverse side)

Filed for record this 29 day of May A. D. 19 70 at 10:45 o'clock A. M.

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). Approximately 1/2 acre, Lot 11, Block 5, Linda Vista, Missoula, Montana. First supplement.

Show exact depth of bottom. Bottom of well 63 ft.

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
William D. Deane
Driller's Signature.

46515

DISTRICT
No. 2
992

I received and filed this instrument for record on the 29 day of May 1970 at 10:45 o'clock A.M. pursuant to the of Missouri County, State of Montana
Witness my hand:
Veramoie B. Crouse County Recorder
By Donna A. [unclear] Deputy
Fee \$ 2.00 cash Paid

RECEIVED
JUN 4 1970

STATE WATER COMMISSION BOARD
ADMINISTRATIVE AND OPERATIVE CODE
BUREAU OF RESEARCH
REPORT

APPROVED BY MEASURE OF WOLF
STATE OF MONTANA

as long as they are not overpumped; i.e., they should be pumped at rates less than 25 to 50 percent of the tested capacity of the aquifer.

Indicate location of well and
depth of aquifer
Name of well
Location of well
Depth of well
Capacity of well
Date of test
Name of tester
Name of recorder
Name of witness

Q

File No.

STATE WATER CONSERVATION BOARD

T. 12 R. 20

DUPLICATE

JUN 9 1967

County Missoula

LOG

McDonnell STATE OF MONTANA
Administrator of Groundwater Code
Office of State Engineer

Top of Ground (Elev. above sea level) 3200'

Formations Log:

- 0 - 6 Pit.
6 - 15 Tan sandy clay & gravel.
15 - 25 Sandy clay. Seeps of water.
25 - 55 Tan clay sand & gravel.
55 - 65 Brown clay sand & gravel.
65 - 79 Brown silty clay & sand.
79 - 81 Sand & gravel. Silty water.
81 - 90 Clean sand & gravel. Water.
90 - 93 Sand, clay & gravel.

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

(Under Chapter 237, Montana Session Laws, 1961)

Owner Mrs Sylvia Kay Address Missoula, Montana

Driller Liberty Drilling Co. Address Missoula, Montana

Date of Notice of appropriation of groundwater None filed

Date well started 8/19/65 Date completed 8/23/65

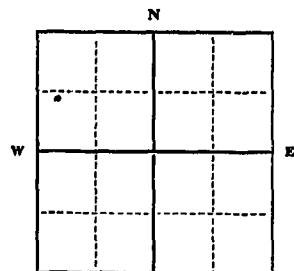
Type of well Drilled Equipment used Cable Tools
(Dug, driven, bored or drilled) (Churn drill, rotary or other)

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

Table with columns: Size of Drilled Hole, Size and Weight of Casing, From (Feet), To (Feet), PERFORATIONS (Kind Size, From (Feet), To (Feet)).

Water rises in the well 50 feet from surface.



Static Water Level for non-flowing well 60 feet.

Shut-in Pressure for Flowing Well Non-f.

Pumping Water Level 82 feet

at 8 gal. per minute.

Discharge in gal. per min. of flowing well

Non-flowing

How Tested Pump test

Length of Test Four hour

Lot 6 Block 3 Linda Vista Sub-Division

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

Remarks: (Gravel packing, cementing, packers, type of shutoff) All water entering well is coming through slots in shop made screen.

(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).

Approx. 3/4 Acre

Show exact depth of bottom.

Bottom of hole 93'

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

William F. Calver Driller's Signature

42,052

714

261355

received and filed this instrument for
 record on the 7 day of June 1967
 at 2.00 o'clock P.M. permanent files
 of Missoula County, State of Montana
 Witness my hand:
 Vermaas R. Couse, County Recorder
 By M. M. Conaway, Deputy
 Fee \$2.00 Paid

RECORDED
 JUN 11 1967
 MISSOULA COUNTY RECORDER

UNRECORDED INSTRUMENTS
 SECTION OF COUNTY CLERK
 MISSOULA, MONTANA

MISSOULA COUNTY RECORDER
 REC'D JUN 11 1967

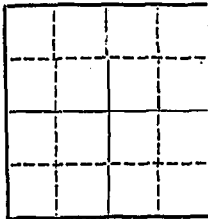
MISSOULA COUNTY RECORDER
 JUN 11 1967

RECEIVED
MAR 11 1958

T. 12 N R. 20 W 12
County: Missoula

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG



Owner: Donald J. Keffeler Address: Missoula

Driller: John Farrell Address: Aslee

Date Started: Dec 20 1957 Date Completed: Jan 9 - 1958

Location: Sec 12 T. 12 N R. 20 W 1/4 sec Lot 10 Lindse Vista Addition

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

Water use: Domestic Municipal Stock Irrigation

Industrial Drainage Other: Black

Casing: 5 ft. to 126 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: 33 feet.

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

Pumping water level: 120 feet at 120 gal. per min. 5

How tested: Pump

Length of test: 24 hrs

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

(over)

File No.

T. 12 N. 20 W.

DUPLICATE

County.....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

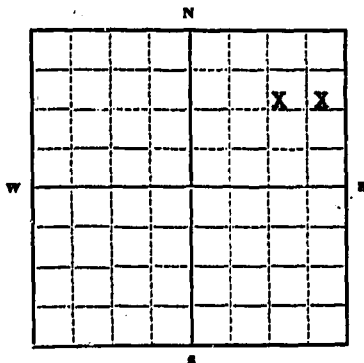
RECEIVED
JAN 3 1963
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Russell D. Kerr & Ferna A. Kerr of Miller Creek Rd. 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:



NENE
E 1/4 Sec. 12, T. 12 R. 20

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, irrigation, stock water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been.....
May 1955

4. The amount of groundwater claimed (in miner's inches or gallons per minute).....
100 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
NE 1/4 Sec. 12, T. 12, R. 20 W. and W 1/2 Sec. 7, T. 12, R. 19
Tract of approx. 30 acres - Russell D. & Ferna A. Kerr owners.

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal.....
Electric pump, 1 1/2 h.p. motor, 2 inch intake

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater.....
May 1955 Approximately 10 days.

8. The depth of water table.....
16 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.....
depth 115 feet, 6 inch steel casing, water stands 16 feet in well, no drawdown.

10. The estimated amount of groundwater withdrawn each year.....
at present, time amount unknown.
Capacity of use over 2 million gal. 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.....
None.

Signature of Owner.....
Russell D. Kerr
Ferna A. Kerr

Date.....December 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.

20104

987 215457

I received and filed this instrument
record on the 9th day of Dec 1917
at 11³⁰ o'clock A.M. permanent files
of Missoula County, State of Montana
Witness my hand
M. W. S. BEAN, County Recorder
By *West & Bell* Deputy
Fee \$ 2 Paid

49

MISSOULA COUNTY RECORDS DEPARTMENT
MISSOULA, MONTANA
RECORDED AND INDEXED
DEC 11 1917

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

DRILLER'S LOG

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL AUG 12 1971
Developed after January 1, 1962

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.

(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 Gordon Lanfear

Address

Date well started June 18, 1971
completed June 17, 1971

For Administrator's Use	
File	<u>306155</u>
	<u>August 6, 1971</u>
	<u>9:55PM</u>

Type of well Drilled

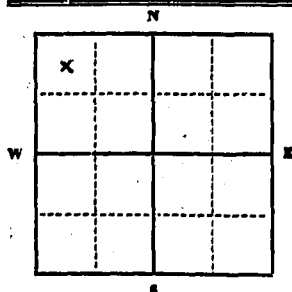
Equipment used Churn Drill

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
<u>8" I.D.</u>	<u>6" I.D. 17 lb per ft.</u>	<u>2' 8" above g.l.</u>	<u>53'</u>			



Static water level 30 ft.*
Pumping water level 35 ft.*
at 20 gallons per minute,
measured 3 minutes after pumping
began.
*Measured from ground level.
Well developed by pump
for 1/4 hours.
Power Electric Pump 3/4 HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)

N.W. 1/4 N.W. 1/4 Sec. 12
T. 12 (N) R. 20 E

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

Driller's Signature [Signature]
CAMP WELL DRILLING & PUMP SUPPLY
Driller's Address 1522 S. 14th W., Missoula, Montana

LICENSE NO. 7

Top of Ground		(Elev. above sea level)
From (Feet)	To (Feet)	
<u>0</u>	<u>2</u>	<u>Linda Vista</u>
		<u>Sand and Gravel</u>
<u>2</u>	<u>22</u>	<u>Brown Clay</u>
<u>22</u>	<u>35</u>	<u>Brown Clay & gravel</u>
<u>35</u>	<u>45</u>	<u>Clay</u>
<u>45</u>	<u>53</u>	<u>Sand Gravel & Water</u>

53' Show exact depth of bottom

2161

306155-

I received and filed this instrument for
 record on the 6 day of Aug, 19 71
 at 3:35 o'clock P.M. permanent time
 of Missoula County, State of Montana
 Witness my hand
 Verence R. Crouse, County Recorder
 By Henry Shelsky, Deputy
 Fee \$ 2.00 cash Paid

Public Record Fee
 \$ 2.00

File No. _____

T. 12 N R. 20 W

DUPLICATE

County Missoula
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER APR 29 1964

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)
Well in Linda Vista

Owner Henry Norton - Edna R. Norton 2540 England

Driller Glenn Camp 705 Alder Address Missoula

Date of Notice of Appropriation of Groundwater _____

Date well started 2/28/64 Date Completed 3/19/64

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

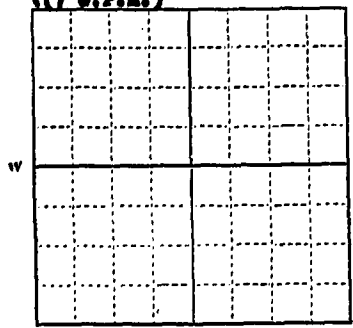
Water Use: Domestic Municipal Other Irrigation
Industrial Drainage Stock

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.

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

0 to 6' Pit
6' to 56' Clay & gravel
56' to 57' Gravel, trace of water
57' to 65' Clay & gravel
65' to 66' Gravel & water (2 G.P.M.)
66' to 71' Clay & gravel
71' to 93' Clay
93' to 117' Clay & gravel
117' to 118' Small Gravel & water (10 P.M.)
118' to 120' Clay & gravel
120' to 150' Clay
150' to 159' Gravel & water
159' to 181' Clay & gravel
181' to 182' Gravel & water
182' to 183' Sand & silt
183' to 188' Gravel & water (1/2 G.P.M.)
188' to 224' Gravel & clay
224' to 324' Clay & gravel
324' to 325' Gravel & water (17 G.P.M.)

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5"	5" I.P. seamless	14' to foot of pit	8' above floor of pit to 319'-8"	3 circles, 4 holes to circle.	186'	188'



N. 12 1/4 Sec. 12 T. 12 N. R. 20 W
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

Static Water Level for non-flowing Well 45 feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 155 feet at 10 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Test Pump Length of Test 4 1/2 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) _____

None

License # 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.

35634

1407

220556

Copy

I received and filed this instrument for
 record on the 13th day of April, 1964
 at 1:15 o'clock P.M., permanent files
 of Missoula County, State of Montana
 Witness my hand:
MARTIN S. BEHNER, County Recorder
 By [Signature] Deputy
 Fee \$ 3.00 Paid

MISSOULA COUNTY, MONTANA
 DEPARTMENT OF CLERK AND RECORDER
 MISSOULA, MONTANA

RECORDED

INDEXED

FILED

APR 13 1964

MISSOULA COUNTY, MONTANA

DEPARTMENT OF CLERK AND RECORDER

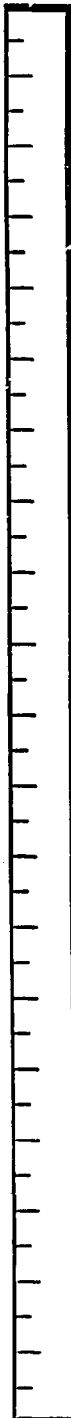
MISSOULA, MONTANA

File No. _____

T.12N R.20W 12

DUPLICATE

County Missoula
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER
RECEIVED
OCT 19 1964
STATE ENGINEER



Top of Ground Approx.
(Elev. above sea level 3,142)
0 - 6 Ft
6 - 55 Tan silty clay with some gravel imbedded.
55 - 56 Boulder.
56 - 78 Tan silty clay with gravel imbedded.
78 - 81 Sand and gravel. Water

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

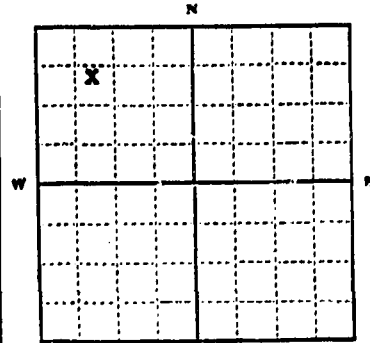
Owner Edward E. Mosier Address Missoula, Montana
Driller Liberty Drilling Co. Address Missoula, Montana
Date of Notice of Appropriation of Groundwater Non-Filed
Date well started March 14, 1964 Date Completed March 17, 1964

Type of well Drilled Equipment Used Cable Tools
(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.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6"	6 5/8" OD x 1/4"	-4	80'	NONE		



NW 1/4 Sec. 12 T.12N R.20W
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Static Water Level for non-flowing Well 60 feet.
Shut-in Pressure for Flowing Well Non-Flowing
Pumping Water Level 77 feet at 8 gal. per minute.
Discharge in gal. per min. of flowing well Non-Flowing
How Tested Ballor Length of Test 2 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) All water is entering the well through the open bottom of the six inch casing.

Show exact depth of bottom.
Bottom of hole 81'
Lot 19 Block 4 Linda Vista Sub-Division

52
Driller's License Number
William F. Obermo
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.

38571