

GW 2

MONTANA WATER RESOURCES BOARD

RECEIVED

Approved Stock Form—State Publishing Co., Helena, Montana—42325

File No.

SEP 17 1970

T 1 N R 35 East

DUPLICATE

County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

(Elev. above sea level)

0 Ft Soil

8 Soil

23 Brown Shale

65 Blue Shale

105 Blue Shale

110 Brown Shale

135 Blue Shale

160 Sand- water

165 Blue Shale

Owner Scott Land & Live. Address Hardin, Montana

Driller C. S. Jones Address Hardin, Montana

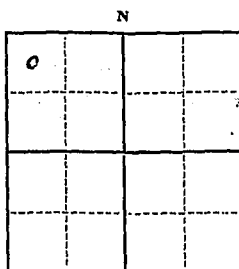
Date of Notice of appropriation of groundwater

Date well started 8/20/69 Date completed 8/23/69

Type of well drilled Equipment used
(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"	19#	0'	20'	None		
4 1/2"	P. V. C.	0'	165'	Perforated Bottom		80'



Static Water Level for non-flowing well _____ feet.

Shut-in Pressure for Flowing Well _____ feet.

Pumping Water Level 165 feet

at 10 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Bailor

Length of Test _____

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

NW 1/4 NW Sec. 28 T1N R. 35E

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.

81 Driller's License Number

Driller's Signature

47518

230282

PRIVATE

STATE OF MONTANA
County of Big Horn

The within instrument was filed
in my office at Hardin, Montana, this

SEP 16 1970 day of

at 11:15 o'clock A.M.

at 11:15 o'clock A.M.

at 11:15 o'clock A.M.

at 11:15 o'clock A.M.

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at 11:15 o'clock A.M.

at 11:15 o'clock A.M.

at 11:15 o'clock A.M.

GROUNDWATER INDEX

Page 1 of 1

County Bighorn Twp. 177 Rge. 36 E

[illegible]

RECEIVED

GW 3 Revised 1969
191-1500-10/69

SEP 7 1971

County BighornSTATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

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

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

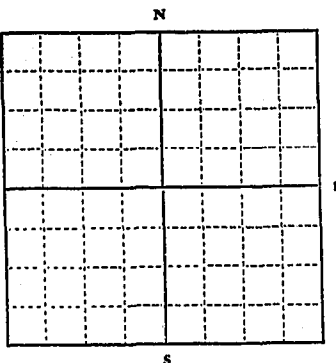
Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

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

For Administrator's Use

File 233575
September 3, 1971
3:03 PM

GW 1

Owner Davidson Cattle CoAddress Bighorn, MONTANAContractor (if any) Holmes PlumbingAddress of Contractor HARDIN, MONT.Date Started 8-20-70 Date Completed 8-26-701. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.) Develop Spring for Stock Water & possible irrigation2. Means of withdrawing water (gravity, pump, canal, etc.) gravity3. Depth of water table 6 to 8 Ft.4. Use of the water Stock Water5. Amount of groundwater claimed (in miner's inches or gallons per minute) From 3 to 6 gallons per minute. Depends on Season6. If used for irrigation, give number of acres and description of land Possible 5 acres7. Estimate amount of water used each year 3 to 6 gallons per minute8. Months of year spring flows 12

SE 1/4 NW 1/4 Sec. 1

T. 1 N. R. 36 E. 1

INDICATE POINT OF APPROPRIATION
AND PLACE OF USE, IF POSSIBLE.
Elevation of spring, if known or esti-mated NW 1/4 - NE 1/4
+ SE 1/4Signature of Owner Davidson Cattle Co.
T.M. DavidsonDate Sept 2, 1971

49021

233575

STATE OF MONTANA
County of Big Horn } ss.
The within instrument was filed
in my office at Hardin, Montana, this
SEP 3 1971 day of

A. D. 19

at 3:00 o'clock P. M.
[Signature]
County Recorder
Deputy

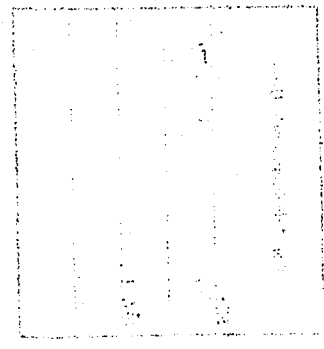
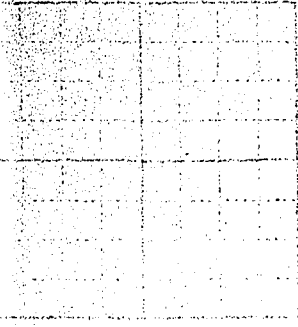
NEW TRUCKS MOTOR COLUMBIA AVE

COUNTY RECORDER

DEPUTY

13 SEP 1971

RECEIVED
COUNTY CLERK
HARDIN MONTANA
SEP 3 1971



County Big Horn 0001

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

FEB 8 1973

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.

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 Davidson Cattle
Co.

Address
Bighorn, Mont.

Date well started GW 1 10:15 A.M.

completed

Type of well ... Aug well

.....
(Dug, driven, bored or drilled)

Equipment used: dry line

(Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

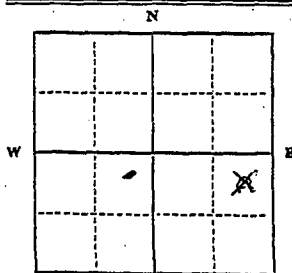
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

***Describe**

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
24"	24 in Cement	0	30	1" holes in Cement casing	0	8



Static water level 8 ft.*
Pumping water level 7 ft.*
at 3 gallons per minute,
measured 2.5 minutes after pumping
began.

*Measured from ground level.

Well developed by
for hours.

Power..... Pump..... $\frac{410}{1/2}$ HP

Remarks: (Gravel packing, cementing,

packers, type of shutoff)

Gravel bottom

Check off value on
bill

NE 1/4 SE 1/4 Sec. 1

T. 1 N R. 36 E

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

Davidson Cattle Co.

Driller's Signature John J. Harrison

Driller's Address

LICENSE NO.

Top of Ground

(Elev. above sea level)

[illegible]

30 Show exact depth of bottom

52,378

238994

STATE OF MONTANA } ss.
County of Big Horn }

The within instrument was filed
in my office at Hardin, Montana, this

_____ day of
FEB 2 1973 A. D. 19____

at 1015 o'clock A.M.

Joeye Lippert
County Recorder

By *Donny Jones* Deput

238995

STATE OF MONTANA } ss.
County of Big Horn

The within instrument was file
in my office at Hardin, Montana, this

_____ day of

FEB 2 1973 A. D. 19

at 10:20 o'clock A.M.

Joeye Lippert

County Recorder

By *Norothy Jones* Deputy

52,370

239002

STATE OF MONTANA } ss.
County of Big Horn }

The within instrument was file
in my office at Hardin, Montana, thi

day of

FEB 2 1973 A. D. 19

at 10:55 o'clock A.M.

Joyce Lippert

County Recorder

Dorothy Jones Deput

MONTANA WATER RESOURCES BOARD
RECEIVED
SEP 14 1971
GW 3 Revised 1969
191-1500-10/69

County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL
Developed After January 1, 1962

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

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

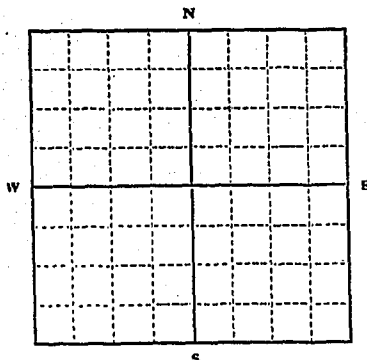
Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

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

For Administrator's Use

File # 233628
Sept. 10, 1971
4:10 P.M.

GW 1 _____



NE 1/4 NW 1/4 Sec. 12

T. 1 N R. 36 E
8 W

INDICATE POINT OF APPROPRIATION
AND PLACE OF USE, IF POSSIBLE.
Elevation of spring, if known or esti-

mated NW 1/4

Owner Davidson Cattle Co.
Address Big Horn, Montana
Contractor (if any) _____
Address of Contractor _____
Date Started Aug. 1968 Date Completed Aug. 1968

1. Describe means of obtaining groundwater (as by sub-irrigation,
developed spring, drains, etc.)

Ditched

2. Means of withdrawing water (gravity, pump, canal, etc.)

Gravity

3. Depth of water table 3 feet

4. Use of the water Stock water

5. Amount of groundwater claimed (in miner's inches or gallons
per minute) 1 1/2 gallons per minute

6. If used for irrigation, give number of acres and description
of land

7. Estimate amount of water used each year 1 1/2 gallons
per minute

8. Months of year spring flows 12 months

Signature of Owner Davidson Cattle Co.
by T. M. Hester

Date _____

49080

STATE OF MONTANA } ss:
County of Big Horn }

SEP 10 1971 day of

A. D. 19

4:10

10'clock M.

George Lippert
County Recorder

County Recorder

87 Ruby Wescicle Debut

SEP 7 1971

County Bighorn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL
Developed After January 1, 1962

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

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

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

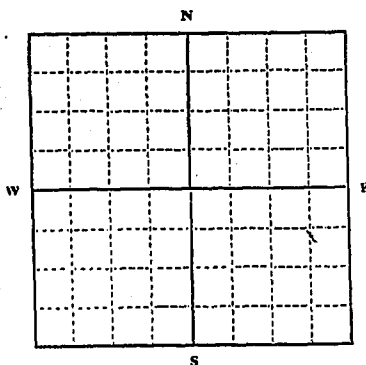
For Administrator's Use

File 233580
September 3, 1971
3:08 PM

GW 1 _____

Owner Davidson Cattle Co
Address Bighorn, Montana
Contractor (if any) - selves -
Address of Contractor _____
Date Started Aug 15, 1966 Date Completed Aug 16, 1966

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.) ditched + sub-irrigation



SW 1/4 NE 1/4 Sec 12

T. 1 N. R. 36 E. 4

INDICATE POINT OF APPROPRIATION AND PLACE OF USE, IF POSSIBLE.
Elevation of spring, if known or estimated NE 1/4

2. Means of withdrawing water (gravity, pump, canal, etc.) gravity
3. Depth of water table 4 to 6 Ft.
4. Use of the water Stock Water + sub-irrigation
5. Amount of groundwater claimed (in miner's inches or gallons per minute) _____
6. If used for irrigation, give number of acres and description of land 1 to 3 gallons per min.
7. Estimate amount of water used each year 1 to 3 gallons per minute
8. Months of year spring flows 12

Signature of Owner Davidson Cattle Co
T. M. Davidson

Date Sept 2, 1971

49016

233580

STATE OF MONTANA } ss.
County of Big Horn

The within instrument was filed
in my office at Hardin, Montana, this

SEP 8 1971

day of

A. D. 19

at 3:28 o'clock P. M.

Jaeger L. Lippert
County Recorder

Deputy

RECEIVED

AUG 1 1972

GW 3 Revised 1969
2057-1500-1/71

County Big Horn
MONTANA DEPARTMENT OF NATURAL
STATE OF MONTANA CONSERVATION
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

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

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

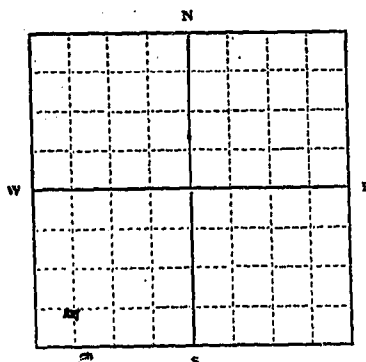
Please answer all questions. If not applicable, so state, otherwise the form may be returned.

For Administrator's Use

File 236383

July 22/1972 9:05 a.m.

GW 1 _____



SW 1/4 SW 1/4 Sec 14

T. one N. R. 36 E. W

INDICATE POINT OF APPROPRIATION
AND PLACE OF USE, IF POSSIBLE.
Elevation of spring, if known or esti-

imated about 2480 FT

Owner Geo. E. Luther

Address Big Horn

Contractor (if any) owner

Address of Contractor same

Date Started 20 July 68 Date Completed 25 May 68

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.)

Spring developed

2. Means of withdrawing water (gravity, pump, canal, etc.)

gravity, pipe

3. Depth of water table 6 ft in coal wash

4. Use of the water livestock

5. Amount of groundwater claimed (in miner's inches or gallons per minute) one half gallons per minute

6. If used for irrigation, give number of acres and description of land

7. Estimate amount of water used each year total supply

8. Months of year spring flows all year

Signature of Owner George E. Luther

Date 10 June 72

51050

236383

STATE OF MONTANA } ss
County of Big Horn }

The within instrument was filed
in my office at Hardin, Montana, this

JUL 27 1972 day of

A. D. 19

at 9⁰⁵ o'clock A. M.

Joyce Lippert
County Recorder

By Harold Smith Deputy

RECEIVED STATE OF MONTANA

SEP 14 1971
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

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

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

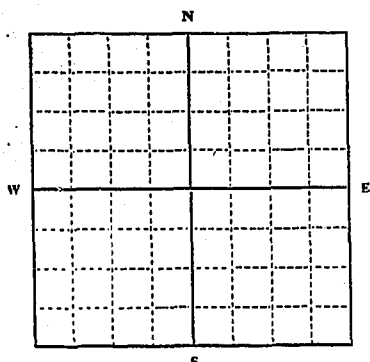
Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

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

For Administrator's Use

File 233623
September 10, 1971
4:00 PM

GW 1 _____



SW 1/4 SE 1/4 Sec. 22

T. 1 N R. 36 E

INDICATE POINT OF APPROPRIATION
AND PLACE OF USE, IF POSSIBLE.
Elevation of spring, if known or esti-
mated SW 1/4 & SE 1/4

Owner Davidson Cattle Co.

Address Bighorn, Montana

Contractor (if any) None

Address of Contractor _____

Date Started _____ Date Completed _____

1. Describe means of obtaining groundwater (as by sub-irrigation,
developed spring, drains, etc.) Ditched & collected

2. Means of withdrawing water (gravity, pump, canal, etc.) _____

Gravity

3. Depth of water table 3 to 6 ft.

4. Use of the water Stockwater

5. Amount of groundwater claimed (in miner's inches or gallons
per minute) 2 to 4 gallons per minutes

6. If used for irrigation, give number of acres and description
of land _____

7. Estimate amount of water used each year 2 to 4 gallons
per minute

8. Months of year spring flows 12 months

Signature of Owner Davidson Cattle Co.
Davidson

Date _____

49075

WILLIAM W. MOUNTAIN } 55.
County of Big Horn,

The within instrument was filed
County office at Hardin, Montana, this

STATE OF MONTANA
County of Big Horn

The within instrument was filed
in my office at Hardin, Montana, this

SEP 10 1971

A. D. 19

4:00 o'clock P.M.
Joyce Lippert
County Recorder

County Recorder

Bv.

Danish

1940

[illegible]

SECRET

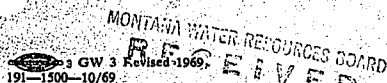
1990

100

100-443887-100

Figure 10. The relationship between the number of species and the number of individuals in the samples.

See volume 1, p. 11, line 11.



County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL
Developed After January 1, 1962

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

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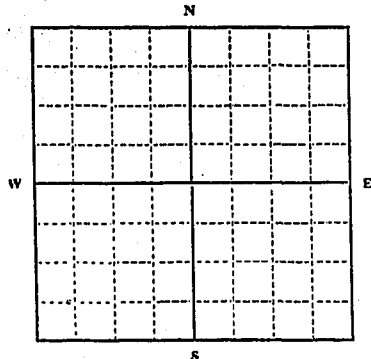
Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

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

For Administrator's Use

File 233625
September 10, 1971
4:04 PM

GW 1 _____



SW 1/4 NE 1/4 Sec. 22

T. 1 N R. 36 E
3

INDICATE POINT OF APPROPRIATION
AND PLACE OF USE, IF POSSIBLE.

Elevation of spring, if known or esti-

ated NE 1/4 & NW 1/4

Owner Davidson Cattle Co.
Address Big Horn, Montana
Contractor (if any) Steve Kenney
Address of Contractor Hardin, Montana
Date Started 1963 Date Completed 1963

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.)

Collected, piped & Tanked

2. Means of withdrawing water (gravity, pump, canal, etc.)

Gravity

3. Depth of water table 8 ft.

4. Use of the water Stockwater

5. Amount of groundwater claimed (in miner's inches or gallons per minute) 1 1/2 gallons per minute

SEASONAL

6. If used for irrigation, give number of acres and description of land

7. Estimate amount of water used each year 1 1/2 gals. per minute

8. Months of year spring flows 12 months

Signature of Owner Davidson Cattle Co.
by T.M. Kenney

Date _____

49077

233625

STATE OF MONTANA ss.
County of Big Horn

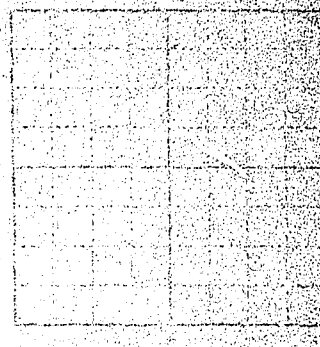
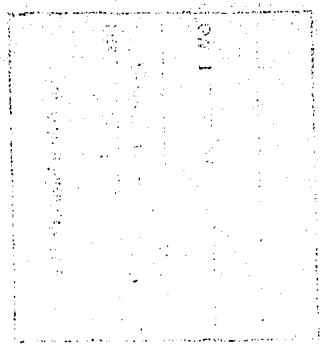
The within instrument was file
in my office at Hardin, Montana, this

SEP 10 1971 A.D. 19

at 4:04 o'clock P.M.

Joseph Lippert
County Recorder

Ruby Lippert Deputy



Handwritten notes in the center of the page, including '10-10-1971' and other illegible text.

Handwritten notes on the right side of the page, including '10-10-1971' and other illegible text.

Handwritten notes at the bottom right of the page, including '10-10-1971' and other illegible text.

RECEIVED

AUG 1 1972

County P. G. HORN

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER
MONTANA WATER RESOURCES BOARD

DEPARTMENT OF NATURAL
RESOURCES AND CONSERVATION

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 Geo LUTHER

Address P. G. HORN

Date well started 20 May 71

completed 20 May 71

Type of well drilled

Equipment used rotary

Water Use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐

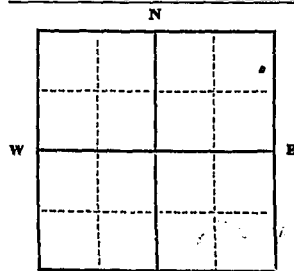
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*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 200 gal

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
4 1/2"	PL	0	100	Kind Size	From (Feet)	To (Feet)
				L	4	7



N 1/4 Sec. 22
T. 1 N. R. 26 E. W

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

Driller's Signature WESTMORELAND COAL Co.

Driller's Address HARDIN, MONT.

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)

3395

From (Feet)	To (Feet)	
0	20	sand, dark yellow-gray, very fine to fine grained, friable to weakly consolidated
20	30	sandstone, orange-yellow, fine grained, moderately firm, some iron stained concretions
30	40	sand, yellow-gray, fine to medium grained, friable, fairly clean
40	70	sand, gray, fine to medium grained, moderately argillaceous
70	80	shale, medium gray, silty to sandy, weakly consolidated
80	90	shale, dark green-gray, dark gray, silty, moderately firm
90	100	shale, dark green-gray, firm, brittle

100'

Show depth of bottom

5/051

236384

STATE OF MONTANA }
County of Big Horn } ss

The within instrument was filed
in my office at Hardin, Montana, this

JUL 27 1972 day of

 A. D. 19

at 9⁰⁰ o'clock A.M.

Jaeger Lippert
County Recorder

By Golden L. Smith Deput

RECEIVED

AUG 1 1972

County BIG Horn

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 B.E.O. LUTHER

Address BIG HORN

Date well started 2 Aug 67

Completed 4 Aug 67

Type of well Drilled

Equipment used Churn drill

Water Use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☐

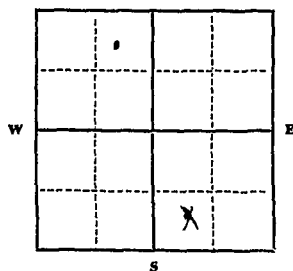
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☒

*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 500,000 GAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5-4	PLASTIC	0	85	1 hole	65	85



1/4 E 1/4 N 1/4 Sec. 23
T. 20 N. R. 26 E

Static water level 25 ft.*
Pumping water level 45 ft.*
at 25 gallons per minute,
measured 5 minutes after pumping
began.
*Measured from ground level.
Well developed by _____
for _____ hours.
Power Electric Pump 22.5 HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff) the well
was cased 2 1/2 inches
day for 3.9 days with
concrete for first 10
at time of drilling

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

Driller's Signature Pinkey Jones

Driller's Address Hartford, Me.

LICENSE NO. 81

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	30	Black & Sandy m
30	25	Shale Blue
35	40	Sand & Coal some water
40	65	Hard Sand
65	85	coarse sand & coal

Show exact depth of bottom

51,053

236386

STATE OF MONTANA { ss:
County of Big Horn

The within instrument was filed
in my office at Hardin, Montana, this

JUL 27 1972 day of

A. D. 19

at 9:20 o'clock A.M.

Joseph Lippert
County Recorder

By Goldie Smith Deputy

County Bihar 23

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

RECEIVED

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.

**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 Davidson Cattle Co.

Address Oslo North Norway

For Administrator's Use

File 239003

Feb 2, 1973

Date well started 1962. July.

well started
completed 1962-July

GW 1 ... 11:00 A.M.

Type of well *Chiller*

(Dug, driven, bored or drilled)

Equipment used Okatone

(Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

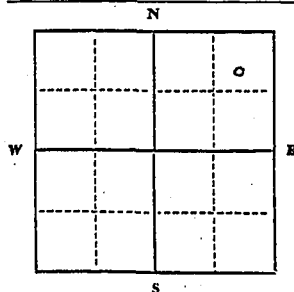
*Describe 6.5 ft deep

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 Casting	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
C	5 in plastic Heavy Curly	0	65	3/8	2	20
				1 hole per pipe		



Static water level 30 ft.*
Pumping water level 30 ft ft.*
at 3 gallons per minute,
measured 20 minutes after pumping
began.

*Measured from ground level.
Well developed by John
for hours
Power Win Pump HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)

ME 1/4 NE 1/4 Sec. 23

T. 1 N R. 34 E

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

Driller's Signature Davidson Cattle Co.

Driller's Address

LICENSE NO.

Top of Ground

(Elev. above sea level)

From
(Feet)

**To
(Feet)**

65 Show exact depth of bottom

52,371

~~57-370~~

239003

STATE OF MONTANA { ss.
County of Big Horn {

The within instrument was filed
in my office at Hardin, Montana, this

_____ day of

FEB 2 1973 A. D. 19_____

11:00 o'clock A.M.

Joyce Lippert
County Recorder

By *Barth J. Jones* Deputy

File No.

DUPLICATE

T1 N. R 36 E.

County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

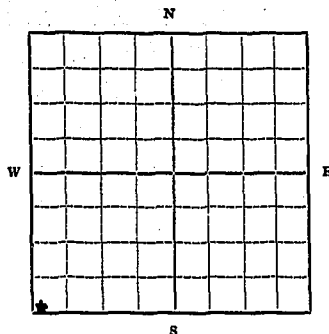
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED
JAN 6 1964

STATE ENGINEER

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



S.W. 1/4 S.W. Sec. 25 T1 N R36 E.

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been App. 1917 Seven months of the year.

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

5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof None

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1917 No records available.

8. The depth of water table 40 ft.

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 5 inch tin 100 ft. deep.

10. The estimated amount of groundwater withdrawn each year 125,000 gal.

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

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record No other records.

Signature of Owner

J. S. Romine Estate
Eva Romine Miller
E. J. Smith

Date Dec 23, 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 School of Mines and Quadruplicate for the Appropriator.

21674

STATE OF MONTANA } ss.
County of Big Horn }

The within instrument was filed
In my office at Hardin, Montana, this

~~DEC 26 1963~~ day of

A. D. 19

at 3³⁰ o'clock P.M.

By Harry E. Cap County Recorder
By Gordon L. Smith Deputy

By Goldie T. Smith Deputy

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 George Miller
Hardin
Address Big Horn
MONTANA

For Administrator's Use	
File	<u>236806</u>
Date	<u>Sept. 19, 1972 - 2:20 p.m.</u>

Date well started Sept 12, 1972 GW 1
completed Sept 13, 1972

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

Equipment used Churn drill
(Churn drill, rotary or other)

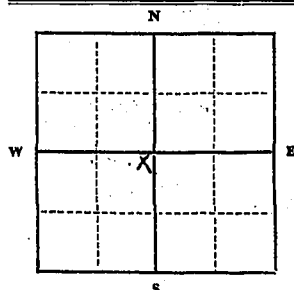
Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
<u>6"</u>	<u>6" 19#</u>	<u>0'</u>	<u>38'</u>	<u>perforated Bottom</u>		
				<u>3' above shoe.</u>		



Static water level 12' ft.*
Pumping water level 16' ft.*
at 30 gallons per minute,
measured 30 minutes after pumping
began.
*Measured from ground level.
Well developed by bairet pump
for 4 hours.
Power G.A.S. Pump 3 HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)

N.E. 1/4 S.W. 1/4 Sec. 27
T. 1 N R. 36 E
8 W

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

Driller's Signature Michael O. Sault
Driller's Address 602 West 2nd St
HARDIN, MONTANA LICENSE NO. 231

RECEIVED

SEP 25 1972

County Big Horn County

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)	
<u>0'</u>	<u>8'</u>	<u>Soil</u>
<u>8'</u>	<u>20'</u>	<u>CLAY</u>
<u>20'</u>	<u>28'</u>	<u>SCORCA</u>
<u>28'</u>	<u>30'</u>	<u>GRAY SANDSTONE</u>
<u>30'</u>	<u>35'</u>	<u>HARD ROCK & WATER</u>
		<u>30 g.p.m.</u>

35' Show exact depth of bottom

51,449

STATE OF MONTANA } ss.
County of Big Horn }

The within instrument was filed in my office at Hardin, Montana, this

day of

SEP 19 1972 A.D. 19

At 2:20 o'clock P.M.

Joyce Lippert
County Recorder

By Richard L. Sample Deputy

File No.

DUPLICATE

T North R 36 East

County Big Horn

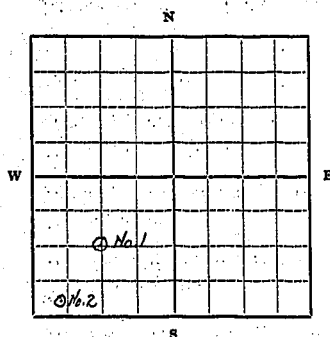
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

R
JAN 8 1964

Declaration of Vested Groundwater Rights STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

1. George C. and Edwin A. Miller, of Hardin, Montana
(Name of Appropriator) (Address) (Town)
County of Big Horn State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 Sec. 28 T1N R36E

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 Stockwater from No. 1 and No. 2 well
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Continuous since 1920 = No. 1 Dec. 1955 -- No. 2
Continuously from both wells.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gallons per minute from No. 1 and No. 2 well
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Not applicable.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Pumped by pump jack powered by electric motor No. 1 and No. 2 well
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1920 No. 1 well and Dec. 1955 No. 2 well
8. The depth of water table 50' No. 1 well 42' No. 2 well
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 60' of 14" drop pipe with 3" cylinder at bottom No. 1 well, 36' - 4 1/2" casing, 42" of 14" drop pipe with 3" cylinder at bottom No. 2 well
10. The estimated amount of groundwater withdrawn each year 75,000 gallons No. 1 well 150,000 galls No. 2 well
11. The log of formations encountered in the drilling of each well if available Not available on either well
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 on either well

Signature of Owner

Date 12-30-63

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

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

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

26747

206454

STATE OF MONTANA } ss.
County of Big Horn

The within instrument was filed
in my office at Hardin, Montana, this

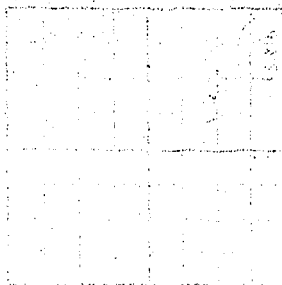
DEC 30 1963 day of

A. D. 19

at 4:06 o'clock P.M.

Harvey E. Carl
County Recorder

By Ruby Wemple Deput



306454

1. The grant of commission and election to the office of County Recorder of Big Horn County, Montana, to Harvey E. Carl, is hereby confirmed and approved by the Board of Commissioners of Big Horn County, Montana, this 30th day of December, 1963.

2. The grant of commission and election to the office of Deputy County Recorder of Big Horn County, Montana, to Ruby Wemple, is hereby confirmed and approved by the Board of Commissioners of Big Horn County, Montana, this 30th day of December, 1963.

3. The Board of Commissioners of Big Horn County, Montana, hereby certifies that the within instrument is a true and correct copy of the original instrument filed in the office of the County Recorder of Big Horn County, Montana, this 30th day of December, 1963.

4. The Board of Commissioners of Big Horn County, Montana, hereby certifies that the within instrument is a true and correct copy of the original instrument filed in the office of the County Recorder of Big Horn County, Montana, this 30th day of December, 1963.

File No.....

DUPLICATE

T1 North R 36 East

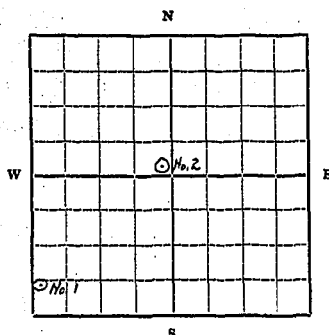
County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 8 1964
STATE ENGINEER

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

1. George C. & Edwin A. Miller of Hardin
(Name of Appropriator) (Address) (Town)
County of Big Horn State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



No. 1 Well SW 1/4
No. 2 Well NW 1/4

1/4 Sec 30 T1N R 36

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 Stockwater
3. Date or approximate date of earliest beneficial use; and how continuous the use has been No. 1 Well = Dec. 1947
No. 2 Well = 1940
Continuously from both wells
4. The amount of groundwater claimed (in miner's inches or gallons per minute) No. 1 Well = 10 gallons per minute
No. 2 Well = 8 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Not applicable
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal No. 1 Well = Pumped by pump jack powered by electric Motor
No. 2 Well = Pumped by a submergible pump powered by electricity
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater No. 1 well = Dec. 1947
No. 2 well = 1940
8. The depth of water table No. 1 well - 30'; No. 2 well - 140'
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater No. 1 well - 30' of 1 1/2" drop pipe with 3" cylinder at bottom; No. 2 well - 150' of 4 1/2" casing
10. The estimated amount of groundwater withdrawn each year No. 1 well - 225,000 gallons, No. 2 Well - 250,000 gallons
11. The log of formations encountered in the drilling of each well if available Not available on either well
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 on either

Signature of Owner

Date 1-2-30-63

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

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

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

26748

FILE NO.

INDEX NO.

206455

STATE OF MONTANA } ss.
County of Big Horn

The within instrument was filed
in my office at Hardin, Montana, this

DEC 30 1963 day of

A. D. 19

at 4:08 o'clock P. M.

James E. Cox
County Recorder

By *Ruby Sample* Deputy

FILE NO.

INDEX NO.

206455

STATE OF MONTANA

County of Big Horn

The within instrument was filed

in my office at Hardin, Montana, this

DEC 30 1963 day of

A. D. 19

at 4:08 o'clock P. M.

James E. Cox
County Recorder

By *Ruby Sample* Deputy

File No.

DUPLICATE

T. North R. 36 East

County Big Horn

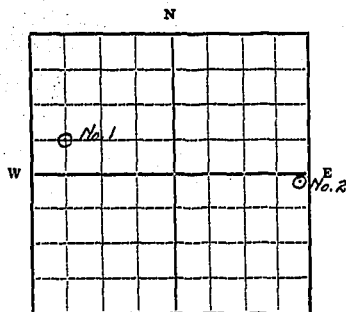
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 8 1964

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

STATE ENGINEER

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



Well No. 1 - SW 1/4 Sec. 31 T. 1N R. 36 E.

Well No. 2 - SW 1/4 Sec. 31 T. 1N R. 36 E.

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 Stockwater Well No. 1 & 2
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Well No. 1 - 1925; Well No. 2 - October, 1946
Continuously from both wells
4. The amount of groundwater claimed (in miner's inches or gallons per minute) Well No. 1 - 15 gal. per minute; Well No. 2 - 7 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Not applicable for either well
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Well No. 1 - Pumped by electric powered jet pump
Well No. 2 - Pumped by pump jack powered with gasoline Motor
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Well No. 1 - 1925; Well No. 2 - October, 1946
8. The depth of water table Well No. 1 - 80 Ft.; Well No. 2 - 190 Ft.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Well No. 1 - 80' of 5" casing
Well No. 2 - 190' of 1 1/2" drop pipe with 3" cylinder at bottom
10. The estimated amount of groundwater withdrawn each year Well No. 1 - 115,000 gallons; Well No. 2 - 75,000 gallons
11. The log of formations encountered in the drilling of each well if available Not available for either well
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 for either well

Signature of Owner

Edwin A. Miller

Date 12-30-63

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

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

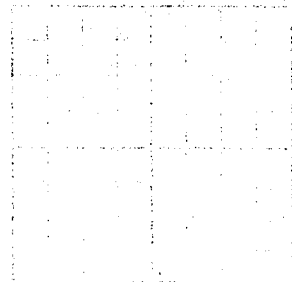
Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quadruplicate for the Appropriator.

26743

206450

STATE OF MONTANA } ss.
County of Big Horn }
The within instrument was filed
in my office at Hardin, Montana, this
DEC 30 1963 day

4 P.M.
3:58
Harvey E. Cox
County Recorder
By Ruby Temple Clerk



1. Go for the first time to the office of the County Clerk and pay the fee of \$10.00 for the recording of the instrument.

2. The fee of \$10.00 shall be paid to the County Clerk at the time of recording the instrument.

3. The fee of \$10.00 shall be paid to the County Clerk at the time of recording the instrument.

4. The fee of \$10.00 shall be paid to the County Clerk at the time of recording the instrument.

5. The fee of \$10.00 shall be paid to the County Clerk at the time of recording the instrument.

6. The fee of \$10.00 shall be paid to the County Clerk at the time of recording the instrument.

7. The fee of \$10.00 shall be paid to the County Clerk at the time of recording the instrument.

8. The fee of \$10.00 shall be paid to the County Clerk at the time of recording the instrument.

9. The fee of \$10.00 shall be paid to the County Clerk at the time of recording the instrument.

10. The fee of \$10.00 shall be paid to the County Clerk at the time of recording the instrument.

File No.

DUPLICATE

T. 1 North 36 East

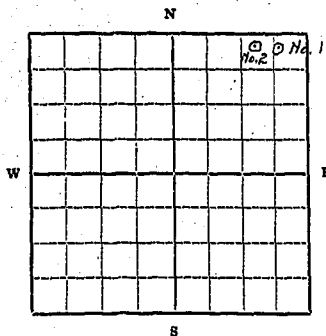
County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

R
JAN 8 1964

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

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



NE 1/4 Sec 32 T. 1 N. R. 36 E

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 Well No. 1 & 2 Stockwater
3. Date or approximate date of earliest beneficial use; and how continuous the use has been July 1953 Well No. 1 & 2 Continuously from both wells
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 7 gallons per minute - No. 1
8 gallons per minute - No. 2
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Not applicable for either well
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Well No. 1 - Pumped by shall well pump powered by electricity
Well No. 2 - Pumped by electric powered jet pump.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater July 1953 Well No. 1 and 2
8. The depth of water table 44 Feet - Well No. 1; 100 Feet - Well No. 2
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 23' of 5" casing - Well No. 1
75 feet of 6" casing - Well No. 2
10. The estimated amount of groundwater withdrawn each year 75,000 gallons Well No. 1;
115,000 gallons per year Well No. 2
11. The log of formations encountered in the drilling of each well if available Not available for either well
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 for either well

Signature of Owner George C. Miller

Date 12-30-63

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

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

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

26749

206456

STATE OF MONTANA } ss.
County of Big Horn

The within instrument was filed
in my office at Hardin, Montana, this

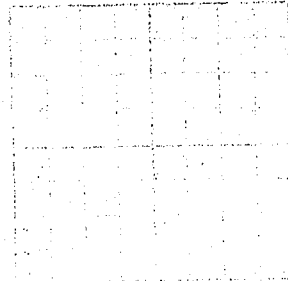
DEC 30 1963 day of

A. D. 19

at 4:08 o'clock P. M.

Henry E. Carr
County Recorder

By *Ruby Temple* Clerk



NOTED
RECEIVED
COUNTY CLERK
HARDIN, MONTANA
JAN 1 1964

RECEIVED
COUNTY CLERK
HARDIN, MONTANA
JAN 1 1964

File No.

DUPLICATE

T.1 North R. 36 East

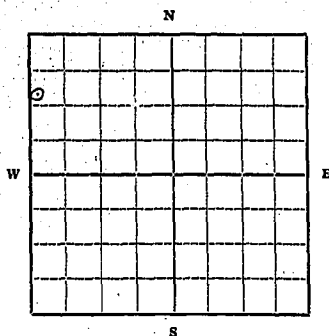
County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 8 1964

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

1. George C. & Edwin A. Miller of Hardin
(Name of Appropriator) (Address) (Town)
County of Big Horn State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 Sec. 34 T. 11 N. R. 36 E.

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 Stockwater
3. Date or approximate date of earliest beneficial use; and how continuous the use has been Sept. 1959 continuously
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Not applicable
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Pumped with pump jack powered by gasoline motor
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Sept. 1959
8. The depth of water table 40'
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 40' of 1 1/2" drop pipe with 3" cylinder at bottom
10. The estimated amount of groundwater withdrawn each year 115,000 gallons
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 Ed A. Miller
George C. Miller

Date 12-30-63

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

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

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

26746

206453

STATE OF MONTANA } ss.
County of Big Horn

The within instrument was filed
in my office at Hardin, Montana, this

SEP 30 1989 day of

SEP A.D. 19

at 4:04 o'clock P.M.

Harvey E. Cox
County Recorder

By Ruby W. Smith Deputy

File No.

DUPLICATE

T. 1 N R 36 E 36

County Big Horn

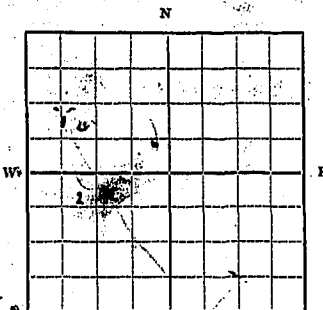
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 6 1964
STATE ENGINEER

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

1. Mr. Lucia E. Criswell, of Hardin, Box 335, Montana
(Name of Appropriator) (Address) (Town)

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



A 1/2 in NW 1/4

#2 - SW 1/4 Sec 36 T1N R36E

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been continuous
It has been used for stock water continuously Approx. 1958

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

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Approx April 1958

8. The depth of water table 100 ft

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

6 inch casing

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

11. The log of formations encountered in the drilling of each well if available 0-20 Sand - 20-46 Clay
46-51 Blue sand, 51-59 Rock - 59-74 Shaly Clay, 74-108 Shale,
108-114 Sand Shale, 114-138 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

Signature of Owner Mrs Lucia E Criswell

Date 12-27-1963

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

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

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

21702

206348

STATE OF MONTANA } ss.
County of Big Horn }

The within instrument was filed
in my office at Hardin, Montana, this

DEC 27 1963 day of

A. D. 19

at 2³² o'clock P.M.

Harry E. Carr
County Recorder

By Robert L. Smith Deputy

File No.

DUPLICATE

T. 1 N. R. 37 E

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

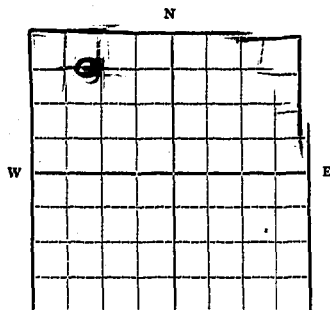
RECEIVED
JAN 6 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

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



NW 1/4 Sec. 1 T. 1 N. R. 37 E

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

2. The beneficial use on which the claim is based stock
& house
3. Date or approximate date of earliest beneficial use and how continuous the use has been Prior to 1950
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gal
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof none
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal electric
Pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Prior to 1950
8. The depth of water table 30'
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 60 feet
10. The estimated amount of groundwater withdrawn each year 500,000 gal
not available
11. The log of formations encountered in the drilling of each well if available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Russell Atkins

Date Dec 26 - 1963

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

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

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

21668

206305

STATE OF MONTANA } ss.
County of Big Horn }

The within instrument was filed
in my office at Hardin, Montana, this
DEC 28 1963

_____ day of
_____ A. D. 19____
at 2:52 o'clock P.M.

Harry E. Cape
County Recorder
By Gerald Smith Deputy

File No.

DUPLICATE

T. 12 R. 27 E

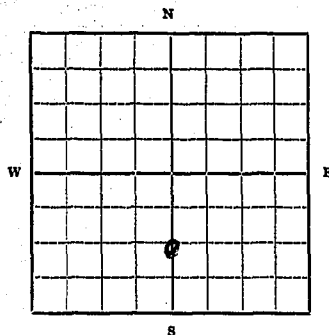
County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER
OFFICE OF STATE ENGINEER

[RECEIVED]
JAN 8 1964

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

1. Kenneth F. John, of Harpy rt., Hypham
(Name of Appropriator) (Address) (Town)
County of Big Horn State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



D. E. 1/4 Sec. 3 T. 12 R. 27 E.

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 use, irrigating garden, stock water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1914
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 gallon 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 one acre around well
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal pressure pump - electric

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1914
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 6 in. casing - 80 ft. deep
10. The estimated amount of groundwater withdrawn each year 547,500 gallon
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. no records known

Signature of Owner Kenneth F. John

Date Dec 31 - 1963

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

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

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

26786

206495

STATE OF MONTANA } ss.
County of Big Horn }

The within instrument was filed
in my office at Hardin, Montana, this

DEC 31 1963 day of

8³⁰ A.D. 19
at 8³⁰ o'clock M.

Harry E. Cox
County Recorder
By Goldie T. Smith Deputy

240482

STATE OF MONTANA
County of Big Horn

The within instrument was
in my office at Hardin, Montana, this

_____ day of

JUN 25 1973 A.D. 19

at 8:25 o'clock P.M.

Joyce L. Lippert
County Recorder

By *Barth J. Jones* Deputy

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.

LICENSE NO.

[illegible]

50 Show exact depth of bottom

52,372

239004

STATE OF MONTANA } ss.
County of Big Horn }

The within instrument was filed
in my office at Hardin, Montana, this

_____ day of

FEB 2 1973 A.D. 19____

at 11:05 o'clock A.M.

Joeye Lippert
County Recorder

By *Dorothy Jones* Deputy

File No. _____

DUPLICATE

508304

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

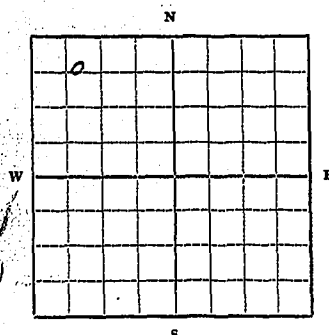
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED
JAN 6 1964

STATE ENGINEER

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



SF. 1/4 NE 1/4 Sec 6 T.1N. R.37E

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

2. The beneficial use on which the claim is based Stock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been prior to 1950
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 8 gal
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof none
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal electric pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater prior to 1950
8. The depth of water table 50 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 8 1/2 feet
10. The estimated amount of groundwater withdrawn each year 300,000 gal
11. The log of formations encountered in the drilling of each well if available not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner Russell Atkins

Date Dec. 26 - 1963

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

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

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

21667

206304

STATE OF MONTANA }
County of Big Horn } ss:

The within instrument was filed
in my office at Hardin, Montana, this

DEC 26 1963 day of

at 2⁵² o'clock P.M.

Harry E. Carl
County Recorder
By *Gladis L. Smith* Deputy

DEC 26 1963

RECORDED
INDEXED
1963-12-26
14370
The within instrument was filed in my office at Hardin, Montana, this day of December, 1963, at 2:52 o'clock P.M.

Montana Water Resources Board
191-1500-10/69

RECEIVED
SEP 7 1971
MONTANA WATER RESOURCES BOARD

County Big Horn

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

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

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 may be returned.

For Administrator's Use

File 233574
September 3, 1971
3:02 pm

GW 1 _____

Owner Davidson Cattle Co.

Address Big Horn, Montana

Contractor (if any) Steve Kenney

Address of Contractor Hardin, Mont.

Date Started UNKNOWN Date Completed _____

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.) Developed Spring for Stock Water Using Collector & plastic pipe

2. Means of withdrawing water (gravity, pump, canal, etc.) _____

Gravity

3. Depth of water table 6 to 10 ft.

4. Use of the water Stock Water

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

6. If used for irrigation, give number of acres and description of land 2.5 Gallons per min. Seasonal

7. Estimate amount of water used each year _____

2.5 Gallons per min.

8. Months of year spring flows 12

INDICATE POINT OF APPROPRIATION AND PLACE OF USE, IF POSSIBLE.

Elevation of spring, if known or estimated _____

SW 1/4 & SE 1/4

Signature of Owner _____

Date Sept 2, 1971

233574

233574

STATE OF MONTANA
County of Big Horn

The within instrument was filed
in my office at Hardin, Montana, this

SEP 3 1971 day of

A. D. 19

at 3:22 o'clock P. M.

James L. Lippert
County Recorder

By _____ Deputy

CC

1972

County BIG HORN

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

MONTANA DEPARTMENT OF NATURAL
RESOURCES AND CONSERVATION

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.

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 Geo. Luther

Address Big Horn

Date well started 10 June 72

completed 10 June 72

Type of well drilled

Equipment used rotary

Water Use: Domestic ☒ Municipal ☐ Stock ☒ Irrigation ☐

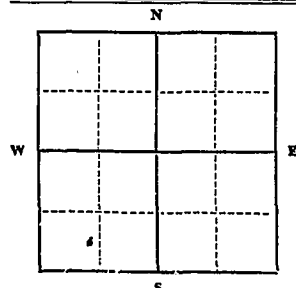
Industrial ☐ Drainage ☐ Other ☐ * Garden/Lawn ☒

*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 360,000 GAL

Size of Drilled Hole	Size and Depth of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
<u>4 1/2"</u>	<u>Plastic</u>	<u>0</u>	<u>100</u>	<u>1 1/2"</u>	<u>65</u>	<u>85</u>



Static water level 35 ft.*
Pumping water level 60 ft.*
at 12 gallons per minute,
measured 1.0 minutes after pumping
began.

*Measured from ground level.

Well developed by PUMP

for 24 hours.

Power ELECTRIC Pump 3 HP

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

SW 1/4 Sec. 8
T. 1 N. R. 27 E
S. 8 W

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

Driller's Signature WESTMORLAND COAL CO.

Driller's Address Hardy, Mont.

LICENSE NO.

Top of Ground (Elev. above sea level) <u>3380</u>		
From (Feet)	To (Feet)	
<u>0</u>	<u>10</u>	<u>soil, dark yellow, clay and silt mixture with clinker gravel of 1/2" to 1" in size, angular to subangular.</u>
<u>10</u>	<u>20</u>	<u>Soil as above, becoming dark green, dark yellow, with less clinker fragments.</u>
<u>20</u>	<u>30</u>	<u>plastic gravel, fine clinker and coal fragments, mostly 1/2" to 1", with some to 1/2"; shale, dark gray, silty, moderately firm.</u>
<u>30</u>	<u>40</u>	<u>gravel as above, water with clinker to 1/2".</u>
<u>40</u>	<u>50</u>	<u>Zone angular, matrix of clay and silt.</u>
<u>50</u>	<u>60</u>	<u>shale, dark to light gray, green gray, silty, firm.</u>
<u>60</u>	<u>70</u>	<u>shale as above and shale, dark green, dark brown, firm.</u>
<u>70</u>	<u>80</u>	<u>silt, light brown-gray, moderately argillaceous, firm.</u>
<u>80</u>	<u>90</u>	<u>silt as above, with shale, dark brown, carbonaceous, firm, and coal, black, glossy, medium hard.</u>
<u>90</u>	<u>100</u>	<u>silt dark to light brown gray, moderately argillaceous, firm.</u>
		<u>silt as above</u>

100' show exact depth of bottom

51,052

236385

STATE OF MONTANA }
County of Big Horn }

The within instrument was filed
in my office at Hardin, Montana, this

JUL 27 1972 day of

A. D. 19

at 9¹² o'clock A. M.

Joseph Lippert
County Recorder

By Colleen Smith Deputy

54526

240526

STATE OF MONTANA } ss.
County of Big Horn

The within instrument was filed
in my office at Hardin, Montana, this

_____ day of
JUN 28 1973 A.D. 19
at 10 35 o'clock A.M.

James A. [Signature]
County Recorder
By *Amos Jones* Deputy

File 100

1001/1412/12

1001/1412/12

1001/1412/12