

File No.....

T. 95 R. 39

25

DUPLICATE

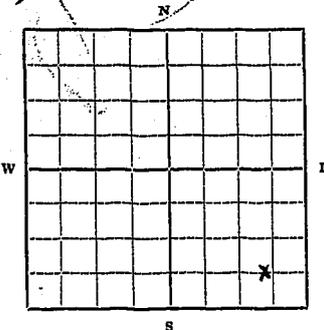
County.....

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 8 1964

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

1. Claris W. Foss of Decker Mont
(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:



1/4 Sec 25 T. 95 R. 39 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 1950
continuous
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) 10 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 not
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal pump and hand well

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater exact date not known
- 8. The depth of water table not known
- 9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 750 ft deep
- 10. The estimated amount of groundwater withdrawn each year 200,000 gal
- 11. The log of formations encountered in the drilling of each well if available not avail
- 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..... Claris W. Foss

Date..... 12-20-63

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.

26784

206493

STATE OF MONTANA }
County of Big Horn } ss.

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

DEC 31 1963 day of

8⁷⁰ A. D. 19
at 8⁷⁰ o'clock A.M.

Harry E. Coyle
County Recorder
By Robert P. Smith Deput

239496

STATE OF MONTANA }
County of Big Horn } ss.

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

MAR 28 1973 A. D. 19__

at 9:35 o'clock AM.

Joyce Lippert

County Recorder

By *Norothy Jones* Deputy

File No. _____

QUADREPLICATE

RECEIVED
JAN 29 1965

T 95 R 40 E 3

County 13th Horn

STATE ENGINEER
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 26 1965

- Top of Ground
(Elev. above sea level.....)
- 20 ft Dark Clay
 - 30 ft Coal
 - 7 ft Slack Coal
 - 92 ft Blue & Dark Shale
 - 16 ft Reck
 - 86 ft Blue Shale
 - 7 ft Reck
 - 30 ft Sand Reck
 - 12 ft Coal
 - 30 ft Blue Shale
 - 6 ft Reck
 - 42 ft Blue Shale
 - 38 ft Sand water bearing
 - 4 ft Reck

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961.)

Owner Jess Thomas Address Decker Montana

Driller Carl Ritola Address Sheridan Wye

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

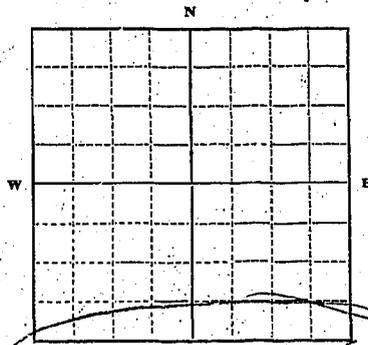
Date well started 12/10/64 Date Completed 1/8/65

Type of well Drilled Equipment Used Cable & Retal
(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	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From	To
6"	4" BIK 11#	0 ft	105 ft	3 1/2"	420 ft	462
3"	2" Galv 4#	0 ft	462 ft			



SE 1/4 SW 1/4 Sec. 3 T. 9 R. 40 E.
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 6 ft feet.

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

Pumping Water Level 50 ft feet at 4 gal. per minute.

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

How Tested Pump Length of Test 4 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).....

R.J.L.

No 133

Driller's License Number

Carl Ritola
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 Quaduplicate for the Appropriator.

38893

211455

STATE OF MONTANA }
County of Big Horn } ss.

The within instrument was filed
in my office at Hardin, Montana, this
JAN 25 1965 day of

..... A. D. 19.....

at 9:20 o'clock A.M.

Thomas E. Cook
County Recorder

Robert Temple Deputy

239958

STATE OF MONTANA
County of Big Horn
The instrument was filed
in my office at Hardin, Montana, this
MAY 8, 1973

..... day of
A. D. 19

9:22 o'clock AM.
Joelle Lippert
County Recorder
Nancy Jones Deput

1970	1971	1972	1973	1974
500	0	100	100	100

RECORDED

File No.

DUPLICATE

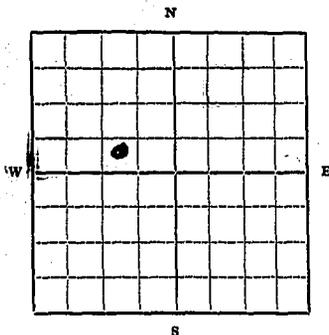
T 9S R 40E
County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
NOV 19 1963

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

Everett G Powers, of Decker
(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:



SE 1/4 Sec. 7 T 9S R 40E

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

- The beneficial use on which the claim is based: Stock Water
- Date or approximate date of earliest beneficial use; and how continuous the use has been: Each year during postwar 1946 season since Aug. 10, 1946
- The amount of groundwater claimed (in miner's inches or gallons per minute): 50 gals. per min.
- If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof: No irrigation
- The means of withdrawing such water from the ground and the location of each well or other means of withdrawal: Pump Jack and gasoline motor
- The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater: July 10, - July 20, 1946
- The depth of water table: Struck water at 259 ft; Static water level 138
- 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
2" pipe
1 1/2" working barrel
- The estimated amount of groundwater withdrawn each year: 750,000 gals.
- The log of formations encountered in the drilling of each well if available:

0-5 Top Soil	135-150 Rock	252-259 silt
5-31 gravel	150-170 Blue shale	259-274 sand
36-90 Sandstone	170-173 Rock	274 end of hole
90-135 Blue shale	173-250 Blue shale	
- 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: SCS office records

Signature of Owner: Everett G Powers
Date: Nov. 13, 1963

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

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

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

7239

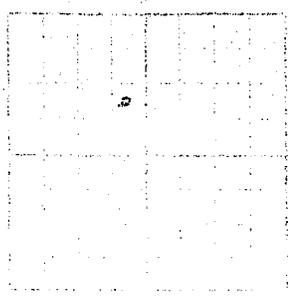
205595

FILE NO.
 EXHIBIT NO.

STATE OF MONTANA } ss:
 County of Big Horn }
 The within instrument was filed
 in my office at Hardin, Montana, this
 NOV 18 1963 day of

11 A. D. 19
 at 1:20 o'clock P.M.

Harvey E. Cash County Recorder
 Ruby Wemple Deputy



SEE MAP A 427 405

ENERGY

WOLFSON

Deputy

20000 MAREAS

NOV 18 1963

20 days

NO 11 1963

Harvey E. Cash

g

20000 MAREAS

NOV 18 1963

NOV 18 1963

REC'D

STATE ENGINEER

RECEIVED

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

JUL 22 1971

NOTICE OF APPROPRIATION OF GROUNDWATER
(Under Chapter 237, Montana Session Laws, 1961, as amended)

After filing a notice of appropriation, in order to acquire a right based thereon, the person must, within ninety (90) days, commence actual excavation and diligently prosecute construction of a well and, upon its completion, file a notice of completion with the County Clerk of the county in which the appropriation is located.

Three copies of this notice are to be filed 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 may be returned.

1. I, Decker Coal Company, of P. O. Box 746 - Sheridan
(Name of Appropriator) (Address) (Town)

County of Sheridan, State of Wyoming, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is sanitary water for construction camp
(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed 30 G.P.M.

The estimated amount of groundwater to be used annually 50,000 gallons

4. The annual period (inclusive dates) of intended use Full year

5. The probable or intended date of first beneficial use July 23, 1971

6. The probable or intended date of commencement and completion of the well* or wells* May 1971 Hole 270-71

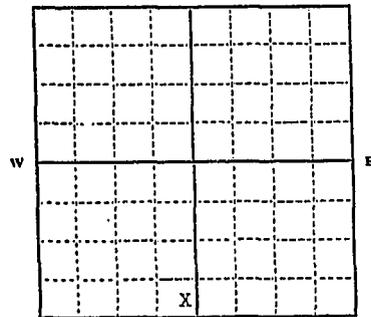
7. The location, type, size and depth of well or wells contemplated Section 10, T. 9 S., R. 40 E., 6-1/4 inch hole - 4 inch well casing to 150 feet

8. The probable or estimated depth of the water-table or artesian aquifer 110 feet

9. The name, address, and license number of the driller engaged Decker Coal Company equipment and personnel

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

For Administrator's Use	
File	<u>233235</u>
	<u>July 21, 1971</u>
	<u>8:15 AM</u>



SE 1/4 SW 1/4 Sec. 10
T. 9 S. R. 40 E.

LOCATE WELL OR OTHER MEANS OF DEVELOPMENT AS ACCURATELY AS POSSIBLE ON THE PLAT.

Signature of Appropriator DECKER COAL COMPANY - By: T. P. Wollenzien Date July 15, 1971

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

48774

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

MONTANA WATER RESOURCES BOARD

DRILLER'S LOG

RECEIVED

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.

JUL 22 1971

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 Decker Coal Company

Address P. O. Box 746

Sheridan, Wyoming 82801

Date well started 5/24/71

completed 5/25/71

Type of well Drilled

(Dug, driven, bored or drilled)

Equipment used Rotary

(Churn drill, rotary or other)

Water Use: Domestic Municipal Stock Irrigation

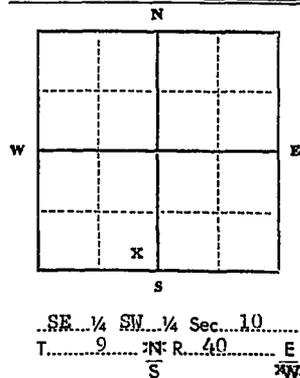
Industrial Drainage Other Garden/Lawn

*Describe Temporary construction camp

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 50,000 gal.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6-1/4"	4" Steel heavy	0	140	Slits	90	140



Static water level 27.44 ft.*
Pumping water level 37.25 ft.*
at 31.6 gallons per minute,
measured 450 minutes after pumping began.

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

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

Driller's Signature T. P. Wollenzien, Geologist

Driller's Address Decker Coal Company - Box 746

Sheridan, Wyoming 82801 LICENSE NO. _____

Top of Ground (Elev. above sea level) 3452

From (Feet)	To (Feet)	Drill Hole No. 270-71
0	2	Top soil
2	9	Red sand (alluvium)
9	10	Clinker
10	22	Clay, Red & Sandy
22	31	Clay Brown
31		Bedrock
31	33	Coal- D ₁ Bed remnant
33	36	Shale carbonaceous
36	39	Clay, Sandy brown
39	43	Clay, Dark Gray
43	46	Sandstone hard
46	53	Silt Gray
53	54	Shale carbonaceous
54	55	Coal
55	57	Shale dark gray
57	58	Sandstone
58	64	Shale Gray
64	86	Shale gray silty
86	92	Shale dark gray
92	93	Coal
93	95	Shale
95	111	Coal - D ₂ Bed water
111	113	Shale dark gray
113	136	Silt gray - much water
136	137	Shale carbonaceous
137	140	Shale gray
140		T.D.

140 feet Show exact depth of bottom

233236

STATE OF MONTANA }
County of Big Horn } ss

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

_____ day of
JUL 21 1971 A. D. 19

at 9:20 o'clock A.M.

Joseph Lippert
County Recorder
By *Ruby Wemple* Deput

0.

RECORDED
JUL 21 1971

MISSOURI
ADMISSION
STATE

MONTANA WATER RESOURCES BOARD
 RECEIVED
 NOV 15 1971

County Big Horn 10

STATE OF MONTANA
 ADMINISTRATOR OF GROUNDWATER CODE
 MONTANA WATER RESOURCES BOARD
NOTICE OF APPROPRIATION OF GROUNDWATER
 (Under Chapter 237, Montana Session Laws, 1961, as amended)

After filing a notice of appropriation, in order to acquire a right based thereon, the person must, within ninety (90) days, commence actual excavation and diligently prosecute construction of a well and, upon its completion, file a notice of completion with the County Clerk of the county in which the appropriation is located.

Three copies of this notice are to be filed 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 may be returned.

1. I, Decker Coal Company, of P. O. Box 746, Sheridan
 (Name of Appropriator) (Address) (Town)

County of Sheridan, State of Wyoming, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961:

2. The beneficial use to which water is to be applied is Fire Protection, Equipment maintenance, sanitation
 (describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed 30 gpm

The estimated amount of groundwater to be used annually 5 million gal.

4. The annual period (inclusive dates) of intended use Year around

5. The probable or intended date of first beneficial use January 1, 1972

6. The probable or intended date of commencement and completion of the well* or wells* October 1971 Hole 270A-71

7. The location, type, size and depth of well or wells contemplated 55 inch to 150 Feet

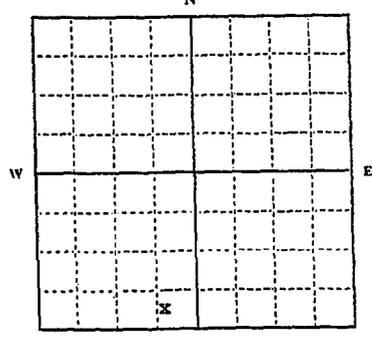
8. The probable or estimated depth of the water-table or artesian aquifer 125 Feet

9. The name, address, and license number of the driller engaged C. T. Reid
446 East Mt. View Drive, Sheridan, Wyoming 82801 License No. 90

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

This well water will be used for
fire protection and sanitary
facilities at the Decker Coal
Company Mining Operation at
Decker, Montana

For Administrator's Use
 File 234061
November 9, 1971
8:05 AM



SE 1/4 SW 1/4 Sec. 10
T. 9 R. 40 S.

LOCATE WELL OR OTHER MEANS OF DEVELOPMENT AS ACCURATELY AS POSSIBLE ON THE PLAT.

Signature of Appropriator J. P. Wollenzien Date Nov. 4, 1971
T. P. Wollenzien - DECKER COAL CO.

*As defined in the Code Sec. 1 (c) "Well" means any artificial opening or excavation in the ground, however made, by which groundwater can be obtained or through which it flows under natural pressures or is artificially withdrawn. 49395

234061

STATE OF MONTANA }
County of Big Horn } ss

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

day of

NOV 9 1971

A. D. 19

at 8:05 o'clock A.M.

Joseph Lippert
County Recorder

By *Paul Wemple* Deputy

RECEIVED

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOV 15 1971

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 Decker Coal Co.

Address P. O. Box 746

Sheridan, Wyoming 82801

Date well started 10-5-71

completed 10-6-71

For Administrator's Use	
File	<u>234062</u>
	<u>November 9 1971</u>
	<u>E. J. Smith</u>
GW 1	

Type of well Drilled

(Dug, driven, bored or drilled)

Equipment used Rotary

(Churn drill, rotary or other)

Water Use: Domestic Municipal Stock Irrigation

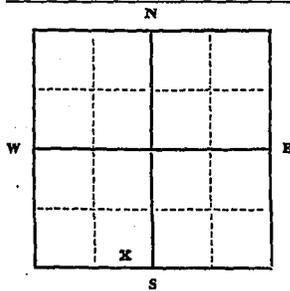
Industrial Drainage Other * Garden/Lawn

*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 5 Million Gal

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
9"	7" Steel	0	40	Vert.	60	160
6 3/4"	5" PVC	40	160	Slits		



SE 1/4 SW 1/4 Sec. 10

T. 9 R. 40 E

Static water level 23 ft.*
Pumping water level 29 ft.*
at 20 gallons per minute,
measured 60 minutes after pumping
began.

*Measured from ground level.
Well developed by pumping
for 6 hours.

Power 220V Pump 5 HP

Remarks: (Gravel packing, cementing,
packers, type of shutoff) surface casing cemented
in.

Top of Ground (Elev. above sea level) <u>3452</u>		Well <u>270A-71</u>
From (Feet)	To (Feet)	
0	3	Soil
3	33	Scoria
33	36	Coal
36	45	Shale, Gray
45	49	Sandstone, Hard
49	53	Shale, Blue
53	55	Coal
55	94	Sandstone, Soft
94	109	Coal D ₂ Bed
109	158	Sandstone and Water Sands
158	160	Blue Shale
160		Total Depth

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

Driller's Signature C. T. Reid

C. T. Reid

Driller's Address 446 East Mountain View Drive

Sheridan, Wyoming 82801 LICENSE NO. 90

160 Show exact depth of bottom

49396

234062

STATE OF MONTANA
County of Big Horn

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

day of
NOV 9 1971 A.D. 19

at 8:10 o'clock A.M.

Joseph Lippert
County Recorder

By *Rudy Wemple* Deput

ESTIMATED VEHICLE MILEAGE	2000	1980	1970	1960	1950	1940	1930	1920	1910	1900
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File No.

T. 9 R. 40E
County Big Horn

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 8 1964

Declaration of Vested Groundwater Rights

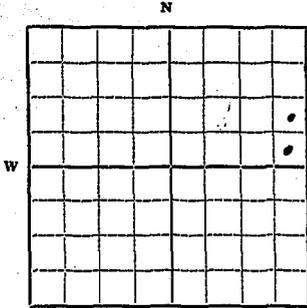
STATE ENGINEER

(Under Chapter 237, Montana Session Laws, 1961)

SINCE PURCHASED BY DECKER COAL MINE

1. Charles x Gregg Person of Kirby
(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:



Both SE 1/4 NE 1/4

1/4 Sec. 11 T. 9 R. 40E

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
No. 1. Stock No. 2. House Use

3. Date or approximate date of earliest beneficial use; and how continuous the use has been
No. 1. 1945
No. 2. 1949
Both. CONTINUOUS

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
No. 1 - 7 GAL
No. 2 - 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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
No. 1. Piston Pump Electric
No. 2. Electric Well

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
No. 1. AUG. 1949
No. 2. SEPT 1949

8. The depth of water table
No. 1. 10' No. 2. 50'

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. Dug to 35', cased with tile pipe
No. 2. Drilled 100' 6" 18PR casing

10. The estimated amount of groundwater withdrawn each year
No. 1. 700,000 Gal
No. 2. 500,000 Gal

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

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

Charles x Gregg Person
Signature of Owner
Date 12-29-63

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

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

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

26771

206480

STATE OF MONTANA }
County of Big Horn } ss.

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

_____ day of
DEC 31 1963 A. D. 19

at 8³⁰ o'clock A.M.

Harry E. Call
County Recorder

By Walter L. Smith, Deput

[Faint, illegible text and markings, possibly bleed-through or a second page's content.]

95 40 E

15

County **Big Horn** RECEIVED 239959

MAY 29 1973

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF APPROPRIATION OF GROUNDWATER
(Under Chapter 237, Montana Session Laws, 1961, as amended)

MONTANA DEPARTMENT OF NATURAL
RESOURCES AND CONSERVATION

After filing a notice of appropriation, in order to acquire a right based thereon, the person must, within ninety (90) days, commence actual excavation and diligently prosecute construction of a well and, upon its completion, file a notice of completion with the County Clerk of the county in which the appropriation is located.

Three copies of this notice are to be filed 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 may be returned.

1. I, Decker Coal Company, of Box 12 - Decker
(Name of Appropriator) (Address) (Town)

County of Big Horn, State of Montana, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is dust control
(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed 50 gpm

The estimated amount of groundwater to be used annually 1,000,000 gals.

4. The annual period (inclusive dates) of intended use May 1 to December 1

5. The probable or intended date of first beneficial use June 1, 1973

6. The probable or intended date of commencement and completion of the well* or wells*
April 20, 1973

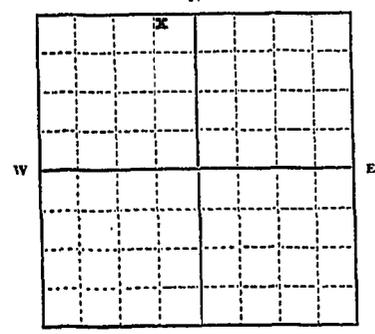
7. The location, type, size and depth of well or wells contemplated Sec. 15, T. 9 S., R. 40 E.
at secondary crusher - 6" to 300 ft. (Drill Hole No. 285-73)

8. The probable or estimated depth of the water-table or artesian aquifer 250 feet

9. The name, address, and license number of the driller engaged Peter Kiewit Sons' Co.,
Mining Division, Sheridan, Wyoming - Company equipment and personnel.

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

water to be used for coal dust
control at coal crushers



NE 1/4 NW 1/4 Sec. 15
T. 9 N. 1/4 R. 40 E. W

LOCATE WELL OR OTHER MEANS OF DEVELOPMENT AS ACCURATELY AS POSSIBLE ON THE PLAT.

For Administrator's Use
File 239959
May 8, 1973

Signature of Appropriator J.P. Wollenzien Date April 17, 1973
J. P. Wollenzien, Geologist for Decker Coal Co.

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

53256

RECEIVED

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

JUL 22 1971
NOTICE OF APPROPRIATION OF GROUNDWATER

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

After filing a notice of appropriation, in order to acquire a right based thereon, the person must, within ninety (90) days, commence actual excavation and diligently prosecute construction of a well and, upon its completion, file a notice of completion with the County Clerk of the county in which the appropriation is located.

Three copies of this notice are to be filed 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 may be returned.

1. I, Decker Coal Company, of Box 746 - Sheridan
(Name of Appropriator) (Address) (Town)

County of Sheridan, State of Wyoming, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is sanitary and fire protection

(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed 30 G.P.M.
5,000,000 gallon

The estimated amount of groundwater to be used annually 5,000,000 gallons

4. The annual period (inclusive dates) of intended use All year

5. The probable or intended date of first beneficial use October 1971

6. The probable or intended date of commencement and completion of the well* or wells*
Commence July 8, 1971 - Hole 297-71

7. The location, type, size and depth of well or wells contemplated 6 inch to 150 feet

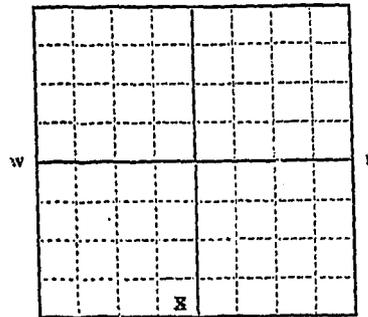
8. The probable or estimated depth of the water-table or artesian aquifer 125 feet

9. The name, address, and license number of the driller engaged Decker Coal Company
drilling equipment and personnel

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

This well will be used for sanitary use, wash and fire protection water for the Decker Coal Company mining operation at Decker, Montana

For Administrator's Use
File 233234
July 21, 1971
8:10 AM



SE 1/4 SW 1/4 Sec. 10
T. 9 N. 40 E. 10
S. 10 W

LOCATE WELL OR OTHER MEANS OF DEVELOPMENT AS ACCURATELY AS POSSIBLE ON THE PLAT.

DECKER COAL COMPANY

Signature of Appropriator T. P. Wollenzien, Geologist Date July 17, 1971

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

48975

233234

STATE OF MONTANA } ss.
County of Big Horn

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

JUL 21 1971 day of

_____ A. D. 19____

at 8:10 o'clock AM.

Joseph Lippert
County Recorder

By Barby Wemple Deputy

10. One copy of this instrument shall be retained in the office of the County Recorder and the original shall be

6. The same, signed, and return stamped, for copies of same.

5. The Recorder or recording officer of the County Recorder shall

4. The Recorder shall give notice of such recording to the parties to the

3. The Recorder shall file the instrument in the office of the County Recorder

2. The Recorder shall file the instrument in the office of the County Recorder

1. The Recorder shall file the instrument in the office of the County Recorder

Department of Natural Resources and Conservation
Water Resources Division
Engineering Bureau
Groundwater Section
Sam W. Mitchell Building
Helena, Montana 59601

Sent on
5/23/72

Owner Decker Coal Company 82801
Address P.O. Box 746 - Sheridan Wyoming
Location T. 9S R. 40E S. 15
Doc. No. 235448

As the Administrator of the Groundwater Code for the State of Montana, please take note of the following special instructions, in order to properly protect your groundwater right.

Special Instructions:

Please provide, as indicated in red on the enclosed form, the well driller and license number.
Thank you.

50,240

RECEIVED
192-1008-10/69

County Big Horn

MAR 7 1972

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

MONTANA DEPARTMENT OF NATURAL
RESOURCES AND CONSERVATION

NOTICE OF APPROPRIATION OF GROUNDWATER

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

After filing a notice of appropriation, in order to acquire a right based thereon, the person must, within ninety (90) days, commence actual excavation and diligently prosecute construction of a well and, upon its completion, file a notice of completion with the County Clerk of the county in which the appropriation is located.

Three copies of this notice are to be filed 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 may be returned.

1. I, Decker Coal Company, of P.O. Box 746 - Sheridan, Wyo. 82801
(Name of Appropriator) (Address) (Town)

County of Sheridan, State of Wyoming, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is irrigation and watering for land reclamation purposes, fire protection and dust control on mine haul road.
(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed 30 GPM

The estimated amount of groundwater to be used annually 5,000,000 gallons

4. The annual period (inclusive dates) of intended use All year

5. The probable or intended date of first beneficial use May 1, 1972

6. The probable or intended date of commencement and completion of the well* or wells*
Commence April 1972, complete May 1972

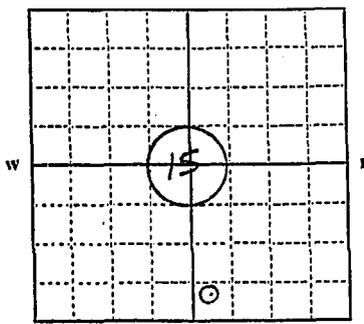
7. The location, type, size and depth of well or wells contemplated 36 inch diameter hole through coal seam, 50 ft. depth.

8. The probable or estimated depth of the water-table or artesian aquifer 35 feet, more or less

9. The name, address, and license number of the driller engaged Decker Coal Company,
drilling equipment and personnel

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

Land Reclamation consisting of revegetation of spoil banks from coal stripping operations for Decker Coal Company's mining operation, Decker, Montana.



SW 1/4 SE 1/4 Sec. 15
T. 9 S. R. 40 E.

LOCATE WELL OR OTHER MEANS OF DEVELOPMENT AS ACCURATELY AS POSSIBLE ON THE PLAT.

For Administrator's Use
File 235044 March 6, 1972
9:35 a.m.

DECKER COAL COMPANY

Signature of Appropriator George A. Nugent Date March 2, 1972
George A. Nugent, General Manager

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

49992

235044

STATE OF MONTANA }
County of Big Horn } ss:
Within instrument was filed
at Hardin, Montana, this
_____ day of

MAR 6 1972 A. D. 19

at 9:35 o'clock AM.

Joyce Lippert
County Recorder
BY *Duby Wemple* Deputy

AMENDED DOCUMENT

File 236448 Dated April 17, 1972

County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth of water in (drilled) and water rise 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 Decker Coal Company

Address P.O. Box 746

Sheridan, Wyo. 82801

Date well started May 15, 1972

completed June 1, 1972

Type of well Dug

Equipment used 3/4 cu. yd. clam bucket

Water Use: Domestic Municipal Stock Irrigation

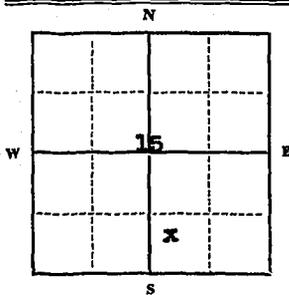
Industrial Drainage Other Garden/Lawn

Irrigation & watering for land reclamation consisting of revegetation of spoil banks from coal mining operation.

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). 800 acres, more or less, in part of Sec. 15 & 16, T9S - R40E Big Horn County, Montana.

ESTIMATED ANNUAL WITHDRAWAL 35,000 M. Gal. dewatering coal seam.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
Open Pit	-	0	19			
72" C.M. Pipe	16 Gauge	19	53	60 Holes 1" Dia.	3	9



SW 1/4 SE 1/4 Sec. 15
T. 9 S. R. 40 E.

Static water level 2 ft.*
Pumping water level 36 ft.*
at 125 Av. gallons per minute,
measured 600 minutes after pumping began.
*Measured from ground level.
Well developed by
for hours.
Power..... Pump..... HP
Remarks: (Gravel packing, cementing, packers, type of shutoff)
Coal packing 36' to 53'

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

Driller's Signature Leo O'Brien
Driller's Address P. O. Box 746, Sheridan, Wyoming.

Note: Well was dug with company equipment and personnel on company's land. LICENSE NONE required

Top of Ground (Elev. above sea level) 3436

From (Feet)	To (Feet)	
0	48	Solid Coal
48	53	Blue shale

NOTE: SEE NOTICE OF APPROPRIATION OF GROUNDWATER FILE NO. 236044 - MAR. 8, 1972

53' Show exact depth of bottom

59,580

MAR 7 1972

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD
NOTICE OF APPROPRIATION OF GROUNDWATER MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
(Under Chapter 237, Montana Session Laws, 1961, as amended)

After filing a notice of appropriation, in order to acquire a right based thereon, the person must, within ninety (90) days, commence actual excavation and diligently prosecute construction of a well and, upon its completion, file a notice of completion with the County Clerk of the county in which the appropriation is located.

Three copies of this notice are to be filed 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 may be returned.

1. I, Decker Coal Company, of P. O. Box 746, Sheridan, Wyo. 82801
(Name of Appropriator) (Address) (Town)

County of Sheridan, State of Wyoming, intend to appropriate groundwater in accordance with Chapter 237, Montana Session Laws of 1961.

2. The beneficial use to which water is to be applied is irrigation and watering for land reclamation purposes, fire protection, and dust control on mine haul roads.
(describe lands to be benefited, if for irrigation)

3. The rate of use in gallons per minute or miner's inches of groundwater claimed 25 GPM

The estimated amount of groundwater to be used annually 5,000,000 gallons

4. The annual period (inclusive dates) of intended use All year

5. The probable or intended date of first beneficial use May, 1972

6. The probable or intended date of commencement and completion of the well* or wells*
Commence April 1972 - Complete May 1972

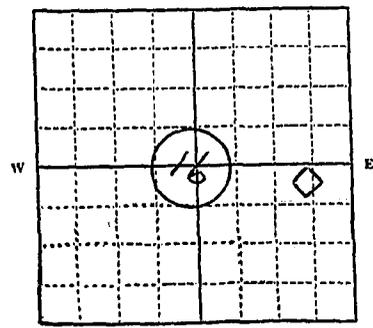
7. The location, type, size and depth of well or wells contemplated 150 ft. x 250 ft. area, 100 ft. total depth (See attached sketch map)

8. The probable or estimated depth of the water-table or artesian aquifer 75 feet

9. The name, address, and license number of the driller engaged Decker Coal Company, own equipment and personnel.

10. Give such other similar information as may be useful in carrying out the policy of this act
Land Reclamation consisting of revegetation of spoil banks from coal stripping operations for Decker Coal Company mining operation, Decker, Montana.

For Administrator's Use
File 23.50.43 March 6, 1972
9:30 a.m.



NE 1/4 SE 1/4 Sec. 16
T. 9 N. R. 40 E. W. S.

LOCATE WELL OR OTHER MEANS OF DEVELOPMENT AS ACCURATELY AS POSSIBLE ON THE PLAT.

DECKER COAL COMPANY

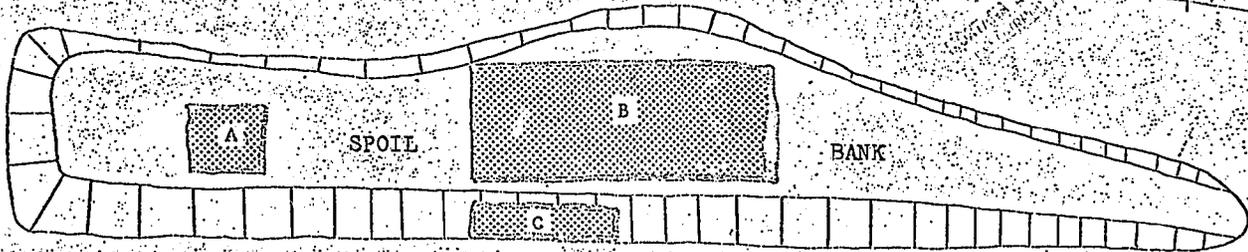
Signature of Appropriator George A. Nugent, General Manager Date March 2, 1972

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

RECEIVED
MAR 7 1972

UNITED STATES DEPARTMENT OF NATURAL RESOURCES
BUREAU OF LAND CONSERVATION

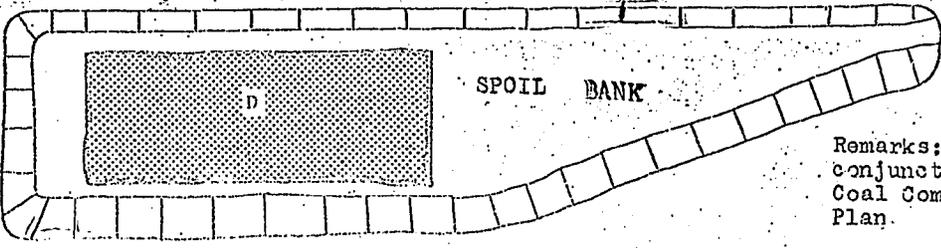
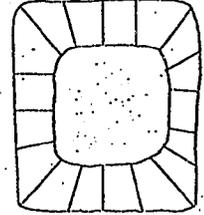
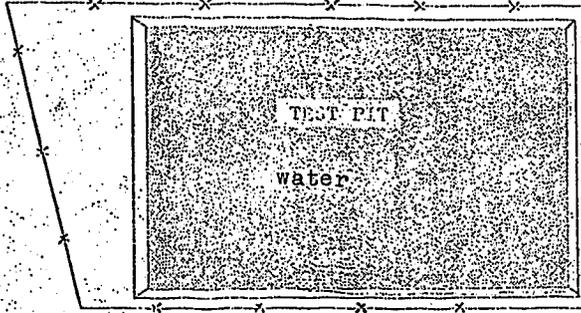
N



SEEDED AREAS

- A - Wheatgrass Trials
- B - Mixture Seeding (Fall)
- C - Shrub Seeding
- D - Mixture Seeding (Spring)

Remaining area seeded in fall, 1971



Remarks: Water for use in conjunction with Decker Coal Company's Reclamation Plan.

3/2/72

Figure 1. Decker Coal Company test pit showing location of experimental plots.

235043

STATE OF MONTANA }
County of Big Horn } ss

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

..... day of
MAR 6 1972 A. M.

at 9:30 o'clock A.M.

Joyce Lissert
County Recorder

By *Ruby Wemple* Deputy

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

DRILLER'S LOG

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.

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) 3472

From (Feet)	To (Feet)	
0	21	Brown colored clay
21	51	Gray colored shale
51	103	Coal

Owner Decker Coal Company

Address P.O. Box 746

Sheridan, Wyoming 82801

Date well started April 15, 1972

completed June 6, 1972

For Administrator's Use	
File	<u>23601</u>
GW 1	<u>June 9, 1972 1:50 p.m.</u>

NOTE: SEE NOTICE OF APPROPRIATION OF GROUNDWATER FILE NO. 235045 - Mar. 6, 1972.

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

Equipment used Scrapers and 1 1/2 cu. yd. Drag bucket
(Churn drill, rotary or other)

Water Use: Domestic Municipal Stock Irrigation

Industrial Drainage Other * Garden/Lawn
Irrigation and watering for land reclamation purposes, fire protection, and dust control on mine haul roads.

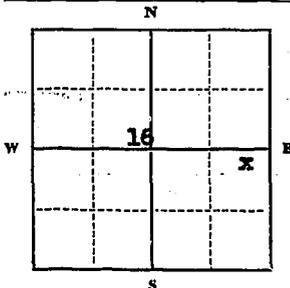
USE: If used for irrigation, industrial, drainage or other. Explain, state number of acres and location or other data (i.e. Lot, Block and Addition). 600 acres, more or less, in part of Sec. 16 & 17, T9S - R40E

Big Horn County, Montana.

ESTIMATED ANNUAL WITHDRAWAL 15,000 M. Gal.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
Open Pit 320'x 480'	-	0	51			
Open Pit 170'x 280'	-	51	103			
Casing not necessary				None		

(See attached sketch map)



NE 1/4 SE 1/4 Sec. 16
T. 9 N R. 40 E
S XX

Static water level 32 ft.*
Pumping water level 38 ft.*
at 75. Av. gallons per minute,
measured 480 minutes after pumping began.
*Measured from ground level.
Well developed by _____
for _____ hours.
Power _____ Pump _____ HP
Remarks: (Gravel packing, cementing, packers, type of shutoff) _____
None

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

Driller's Signature Leo O'Brien
Leo O'Brien, Construction Supt.

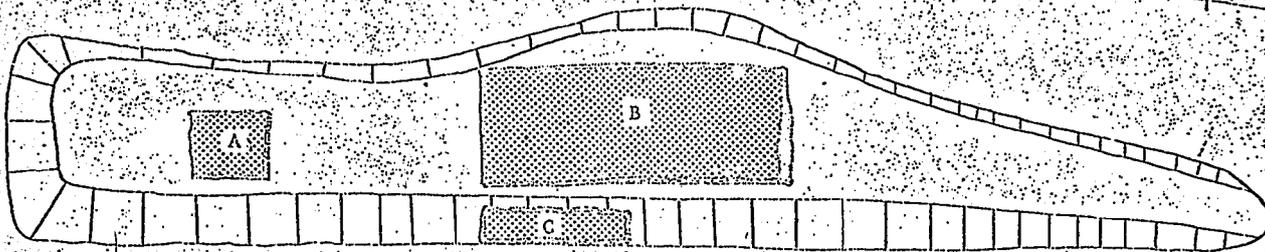
Driller's Address P. O. Box 746, Sheridan, Wyoming

Note: Well was dug with company equipment and personnel on company's land. LICENSE NO. None required.

103' Show exact depth of bottom

50, 581

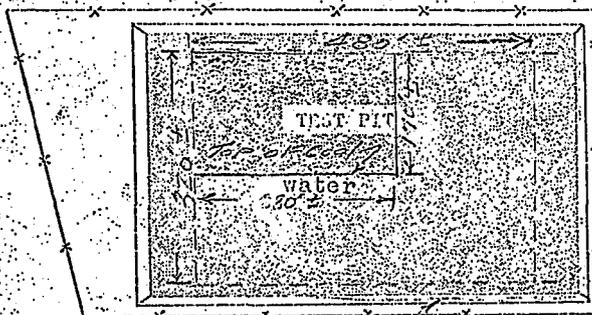
TO ACCOMPANY NOTICE OF COMPLETION OF GROUND WATER
APPROPRIATION BY MEANS OF WELL



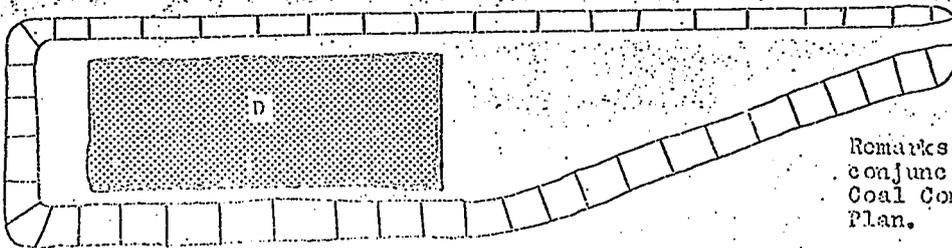
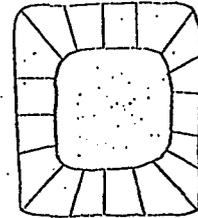
SEEDED AREAS

- A - Wheatgrass Trials
- B - Mixture Seeding (Fall)
- C - Shrub Seeding
- D - Mixture Seeding (Spring)

Remaining area seeded in
fall, 1971



Ground line N Elev ~ 3472



Remarks: Water for use in
conjunction with Decker
Coal Company's Reclamation
Plan.

No Scale

Figure 1. Decker Coal Company test pit showing location of experimental plots.

6/6/72

236011

STATE OF MONTANA }
County of Big Horn } Sec

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

_____ day of

JUN 9 1972 A. D. 19

at 1:50 o'clock P.M.

Joseph Lippert
County Recorder

By Dorothy Sample Deputy

RECORDS DEPARTMENT OF REVENUE
RECORDS AND ADMINISTRATION

JUN 12 1972

RECEIVED

Sheridan, Wyoming, 3/27/63 19

M Leg for water well for Jess Thomas Decker Bar
Decker Montana

IN ACCOUNT WITH

Carl Ritola

LOCAL WATER WELL DRILLER

929 South Main Street

12 ft	Clay	to	12 ft
30 ft	Sand	to	42 ft
2 ft	Rock	to	44 ft
11 ft	Sand	to	55 ft
3 ft	Rock	to	58 ft
20 ft	Sand	to	78 ft
1 ft	Rock	to	79 ft
30 ft	Sand	to	109 ft
3 ft	Rock	to	112 ft
8 ft	Sand water seep	to	120 ft
43 ft	Sand	to	163 ft
14 ft	Blue Shale	to	177 ft
9 ft	Sand water seep	to	186 ft
12 ft	Coal	to	198 ft
29 ft	Coal Water Bearing	to	227 ft
The well is to 193 ft with 4" 11# Galv casing			
with packer coupling at 191 ft and mud & volclay			
mixed all up outside casing 34 ft uncased at			
Bottom. The well was tested at 5 gals per minute			
at 190 foot level and the static water level is			
117 ft			

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—3908

File No.

T 9 R 40

DUPLICATE

County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER
OFFICE OF STATE ENGINEER

APR 15 1963

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Jess Thomas
Decker Bar Address Decker Montana
Montana Club
Driller Carl Ritola Address Sheridan Wye

Date of Notice of Appropriation of Groundwater

Date well started 3/22/63 Date Completed 3/27/63

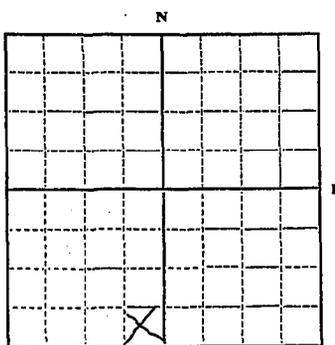
Type of well Drilled Equipment Used 21 W Supder
(dug, driven, bored or drilled) (Churn, drill, rotary or other)

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)
8" to 190 ft	4" Galv, 11#	0 ft	193 ft			
4" from 190 to 227 ft						

227 FE



1/4 Sec. 21 T. 9 S. R. 4 E.
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 117 ft feet.
Shut-in Pressure for Flowing Well

Pumping Water Level 190 ft feet at 5 gal. per minute.
Discharge in gal. per min. of flowing well

How Tested Bailer Length of Test 2 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)

Shutoff at 191 ft with packer coupling and mud & Velclay mixed all the way up

No 133
Driller's License Number
Carl Ritola
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.

4182

File No. _____

DUPLICATE

RECEIVED
JUN 1 1964

T 9 S R 4 0 E

County Big Horn

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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 _____)

6 ft Yellow Sand to 8 ft
 2 ft Clay to 8 ft
 2 ft Gravel Seep to 10 ft
 9 ft Clay to 20 ft
 2 ft Red Shale Seep to 22 ft

Owner: **Emmett Munsen** Address: **Decker Montana**

25 ft Blue Shale to 57 ft
 2 ft rock to 59 ft
 25 ft Blue to 84 ft

Driller: **Carl Ritola** Address: **Sheridan Wye**

Date of Notice of Appropriation of Groundwater: _____

21 ft Sand Rock to 105 ft
 25 ft Black Sha. to 110 ft
 29 ft Coal Water Bearing to 139 ft
 1 ft Blue Shale to 140 ft

Date well started: **5/14/64** Date Completed: **5/20/64**

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

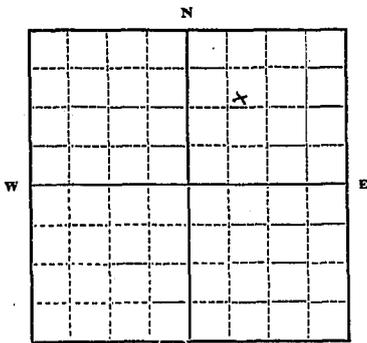
Water Use: Domestic Municipal Other Irrigation
 Industrial Drainage Stock

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	
				From (Feet)	To (Feet)
10"	11"	0 ft	140 ft	30	40
				120	140

Kind Size: **1 1/4" Slots**

The well is gravel packed all the way outside casing



NW 1/4 NE 1/4 Sec. 24 T9S R40E

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 **82 ft** feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level **130 ft** feet at **5** gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested **Bailer** Length of Test **4 Hrs**

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of acres irrigated, if used for irrigation) _____

No. 133

Driller's License Number

Carl Ritola
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.

File No. _____
Date No. _____

T. _____ R. _____

DUPLICATE

STATE WATER CONSERVATION BOARD

County Big Horn

DEC 19 1966

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Top of Ground _____
(Elev. above sea level)
9 ft Sand
13 ft Sand Rock
16 ft Sand Rock water bearing
2 ft Blue Shale

Bill _____ McDermott
Butcher _____ McNulty
Coyle _____ Larson
Parsons _____
Dickert _____

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

(Under Chapter 237, Montana Session Laws, 1955)

Owner Emmett Munsen Address Decker Montana

Driller Carl Ritola Address Sheidan Nye

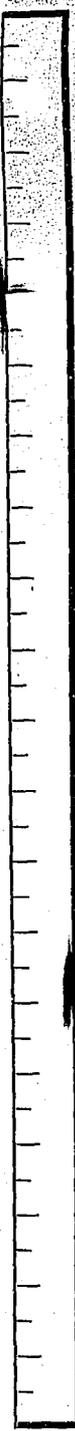
Date of Notice of Appropriation of Groundwater _____

Date well started 9/6/66 Date Completed 9/8/66

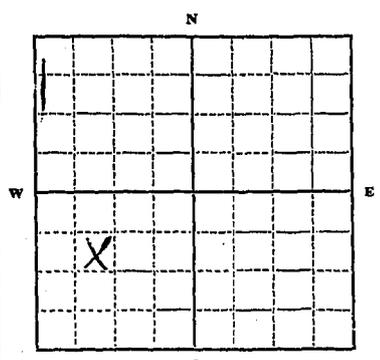
Type of well Drilled Equipment Used ludger
(Churn, drill, rotary, other)

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.



Casing Diameter	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
10"	4 1/2" OD 11#	0 ft	40 ft	3 1/2" Slots Staggered	22 ft	40 ft



SW 1/4 Sec 16 T. 9 S R. 40 E
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 15 ft feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 30 ft feet at 36 Gal. gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Bailer Length of Test 2 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) _____

Gravel packed all the way up the casing.

No 133
Driller's License Number

Carl Ritola
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.

File No.

DUPLICATE

T. 9S R. 40 E

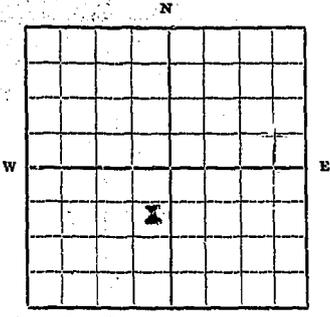
County Big Horn

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, 1964)

I, Dominic F. and/or Esther I. Bumbaca of _____
(Name of Appropriator) (Address)
County of Big Horn State of Montana
have appropriated groundwater according to the Montana laws in effect to January 1, 1962, as follows:



SW 1/4 Sec. 29 T. 9S R. 40E MPM

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

- The beneficial use on which the claim is based Domestic
- Date or approximate date of earliest beneficial use; and how continuous the use has been June 1st, 1947, daily
- The amount of groundwater claimed (in miner's inches or gallons per minute) 30 gallon per minute
- If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
- The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Pump
- The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater May 15th, 1947; June 1st, 1947.
- The depth of water table 20 feet
- 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, 5-inch hole, galvanized casing installed, total depth 155 feet; Piston type pump with 2" working barrel
- The estimated amount of groundwater withdrawn each year 35,000 gallons
- The log of formations encountered in the drilling of each well if available 12' sand loam, 30' quick sand, 100' blue clay shale, 13' coal.
- 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. Unknown

Dominic F. Bumbaca
Signature of Owner Esther I. Bumbaca
Date December 28, 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.

206386

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 8:40 o'clock A.M.

Harry E. Cap
County Recorder

By Rudolph Wumpel Deputy

File No.

DUPLICATE

T. 95 R. 39E
County Big Horn

40E 30

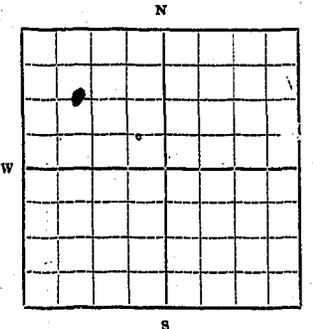
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
NOV 19 1963

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

STATE ENGINEER

1. Everett G. Powers of Decker
(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, NW 1/4, Sec. 30 T. 95. R. 40E
Indicate point of appropriation and place of use, if possible. Each small square represents 10 acres.

- The beneficial use ~~on which~~ the claim is based Stock water
- Date or approximate date of earliest beneficial use; and how continuous the use has been Sept. 1st. 1961
In use 9 months of each year
- The amount of groundwater claimed (in miner's inches or gallons per minute) 18 gals. per. min.
- If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof Not used for irrigation
- The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Electric Pump (Submerged)
- The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Aug. 15, - Aug. 18, 1961
- The depth of water table Found water in coal at 225 ft.
Water raises in well to static level of 100 ft
- 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, 2" pipe; 238' depth of well; submersible electric pump at a depth of 150 ft; 2 800 gal tanks.
- The estimated amount of groundwater withdrawn each year 500,000 gals.
- The log of formations encountered in the drilling of each well if available
0-6 Top soil 114-122 Blue Shale 140-210 Blue Shale
6-15 Sandstone 122-125 Rock 210-215 Rock
15-110 Blue Shale 125-135 Blue Shale 215-225 Blue shale
110-114 Rock 135-140 Rock 223-238 Coal end
- 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 S. 111 607.5 or v. 261.07
office in Hardin, Mont.

Signature of Owner Everett G. Powers
Date Nov. 12, 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.

1238

File No.

T. 95 R. 40E 31

DUPLICATE

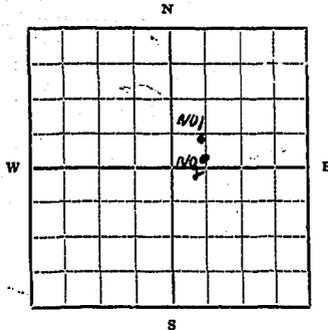
County

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)

1. Claus W. Foss of Decker Mont
(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:



1/4 Sec. 31 T. 95 R. 40E
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 Household use
well no 2 stock water
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been well no 1 1946 Continuous
well 2 1950 Continuous
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) well no 1 not known
well 2 20 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 not
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal well no 1 Jet Pump
well 2 Cylinder Pump
- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater not known
- 8. The depth of water table not known
- 9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
- 10. The estimated amount of groundwater withdrawn each year well no 1 Household use not known
well no 2 250,000 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 Claus W. Foss

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.

26783

THIS INSTRUMENT

RECORDS

206492

STATE OF MONTANA }
County of Big Horn } ss.

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

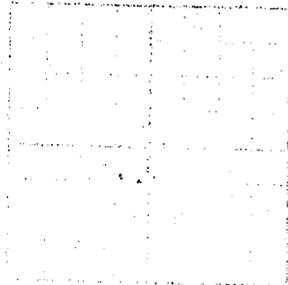
DEC 31 1963 day of

A. D. 19

at 8:44 o'clock A.M.

Harvey E. Cox
County Recorder

By Goddard L. Smith Deputy



8. The County Recorder shall file this instrument in the public records of the County of Big Horn, Montana, and shall issue a certified copy of the same to the person or persons named in the instrument. The County Recorder shall also file a copy of this instrument in the office of the County Clerk of the County of Big Horn, Montana.

9. The County Recorder shall file this instrument in the public records of the County of Big Horn, Montana, and shall issue a certified copy of the same to the person or persons named in the instrument. The County Recorder shall also file a copy of this instrument in the office of the County Clerk of the County of Big Horn, Montana.

File No.

ORIGINAL

T. 9 S. R. 41

County Big Horn

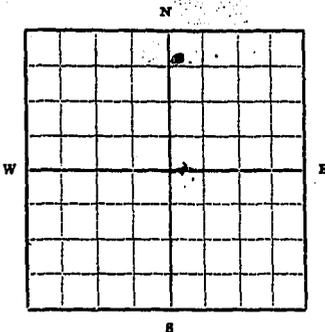
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 8 1964

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

STATE ENGINEER

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



NE 1/4 Sec 26 T9S. R41

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 well

3. Date or approximate date of earliest beneficial use; and how continuous the use has been July 61
1/2 of the time

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 9 gal per min

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

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater July 61

8. The depth of water table

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 4" diam casing 250' deep

10. The estimated amount of groundwater withdrawn each year 150,000 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 Willis W Elder

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.

26787



206496

STATE OF MONTANA }
County of Big Horn } ss.

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

DEC 31 1963 day of

_____ A. D. 19____

at 8:32 o'clock A.M.

Harvey E. Carl
County Recorder

By Ruby Wemple Deputy



File No.

DUPLICATE

RECEIVED
MAY 19 1964

T. 9 R. 42

County. Big Horn

STATE ENGINEER

ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 6 1964

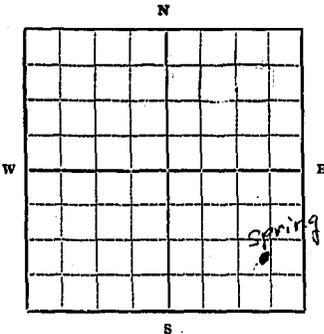
Location of

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

STATE ENGINEER

I, E. M. Westman, of Deer Creek (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:



SE 1/4 Sec 20, T. 9, R. 42

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 water

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1937 to date

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 1800 gallons every 12 hours

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 Hand pump

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1937

8. The depth of water table 22 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 Aug well with cement block & galvanized iron. 22 ft deep.

10. The estimated amount of groundwater withdrawn each year it varies

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

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

Signature of Owner E. M. Westman

Date Dec. 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, this 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.

21765

206434

STATE OF MONTANA }
County of Big Horn } ss.

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

DEC 30 1963 day of

_____ A. D. 19_____

at 3:10 o'clock P.M.

Harry E. Cox
County Recorder

By Quincy W. Temple Deputy

RECORDED
INDEXED
DEC 30 1963
HARDIN MONTANA

File No.

T. 95 R. 42E

DUPLICATE

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

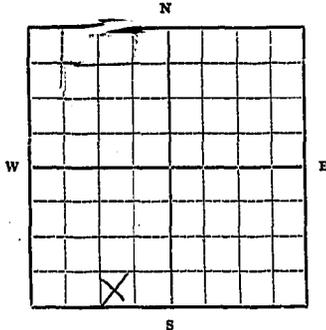
County Big Horn
RECEIVED
JAN 6 1964

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

STATE ENGINEER

SECRET

Simon Muller (Name of Appropriator), of Boyle (Address) Dexter (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. 26 T. 95 R. 42E

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

- The beneficial use on which the claim is based Stock water
- Date or approximate date of earliest beneficial use; and how continuous the use has been 1912 - Continuous use since then.
- The amount of groundwater claimed (in miner's inches or gallons per minute) Well - 15 gallons per minute; Spring, 8 gallons per minute
- If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
- The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Well located on SW 1/4 Sec. 26 T. 95 R. 42E with drawn by pumping. Spring water flows naturally. Spring location same as well
- The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of ~~ground~~ water Well comm. started and completed in 1962
- The depth of water table 30 feet Spring flows naturally
- 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 well - 6" casing - 30 feet depth
- The estimated amount of groundwater withdrawn each year 600,000 gallons
- The log of formations encountered in the drilling of each well if available Clay, sand, coal
- 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 Simon Muller
Date Dec. 29, 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.

21618

206197

STATE OF MONTANA }
County of Big Horn } ss.

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

DEC 20 1953 day of

A.D. 19

at 1:55 o'clock P.M.

Henry S. Coit
County Recorder

By *Robert W. Sample* Deput

File No.

T. 9S R. 42E

DUPLICATE

County Big Horn

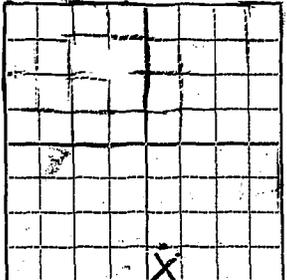
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 8 1964

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

1. Simon Muller (Name of Appropriator) of Box 6 (Address) Decker (Town)

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



S.E. 1/4 Sec 35 T.9S. R.42E

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1922, Continuous use since then

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 17 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 3 acres irrigated in SE 1/4 Sec 35 T.9S. R.42E SIMON MULLER owner

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Water withdrawn by electric or gas pump. Well location SE 1/4 Sec 35 T.9S. R.42E.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater well commenced and completed in 1922

8. The depth of water table 89 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
Type of well - drilled
size of well - 4 1/2" casing
depth of well - 90 feet

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

11. The log of formations encountered in the drilling of each well if available
Clay - sandstone - rock

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 Simon Muller

Date 12-20-63

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.

206198

~~206197~~

STATE OF MONTANA }
County of Big Horn } ss.

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

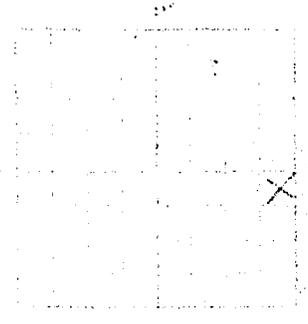
DEC 20 1963 day of

_____ A. D. 19__

at 2:00 o'clock P.M.

Henry E. Carl
County Recorder

By Robert Temple Deputy



[Faint, mostly illegible text and markings on the right side of the page, including what appears to be a date stamp 'DEC 20 1963' and other administrative notes.]