

T. 15 North R. 25 East

County Petroleum

RECEIVED  
JAN 26 1959

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

STATE ENGINEER

WATER WELL LOG


Owner Andrew E. Johnson Address Winnett, Montana

Driller W. L. Livingston Address Winnett, Montana

Date Started November, 1950 Date Completed December, 1950

Location: Sec. 1 T. 15 N. R. 25 E. 1/4 sec. NE 3/4

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

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other:

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

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

Type of screen or perforations

Static Water level, for non-flowing well feet

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

Pumping water level feet at gal. per min

How tested:

Length of test

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

Set 4 1/2 inch O. D. 11 T. and C. casing from one foot above the ground to 1336 feet;  
slot perforations from 1292 feet to 1336 feet; set a Larkin Figure 21 Packer at 1289 feet  
with 50 feet of slot perforations below the packer; well flowing 30 gallons per minute.

(over)

17244

#62

STATE OF MONTANA,  
County of Petroleum.Filed Jan. 22 1959at 4:10 o'clock P.M.Verna R. Meritt,  
County Recorder.*John Schmitt*  
Tanner

## Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	170	shale
170	275	sandy shale
275	290	dark shale
290	300	grey sandy shale (top of Mowery)
300	410	medium hard sandy shale and streaks of hard sand
410	480	firm shale, concretions, and hard streaks of sand with some calcite
480	525	firm shale and sandy shale
525	680	soft shale and bentonite with thin bedded concretions
680	810	soft shale and bentonite with thin bedded concretions
810	887	shale with thin sand streaks
880	914	hard sand, shale, hard lime shells, and bentonite
914	970	medium hard grey sand
970	980	medium hard grey sand (fine textured)
980	1000	hard sand and streaks of shale
1000	1005	hard white sand
1005	1015	hard white sand and lenses of shale
1015	1035	medium hard to soft sand with lime shells
1035	1070	red shale with streaks of sand and lime
1070	1090	grey and red shale with streaks of sandy lime
1090	1125	various colors of shale and thin hard sand with lime streaks
1125	1260	sticky red shale
1260	1280	hard sand and red and grey shale
1280	1285	hard brown lime, shale, and sand streaks
1285	1292	soft grey shale and streaks of hard sand
1292	1336	soft salt and pepper sand

File No. 280 STATE WATER CONSERVATION BOARD

T. 15 R. 25 E

DUPLICATE

MAR 2 1966

County Petroleum

Billie \_\_\_\_\_ McDermott \_\_\_\_\_  
LOG \_\_\_\_\_ McNulty \_\_\_\_\_ STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
Co. \_\_\_\_\_ Morton \_\_\_\_\_ OFFICE OF STATE ENGINEER  
Darlinson \_\_\_\_\_ Sullivan \_\_\_\_\_

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

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

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner Art Kamrath Address Teigen, Mont.

Driller Manson Drig. Co. Address Grass Range, Mont.

Date of Notice of appropriation of groundwater Not Applicable

Date well started Jan. 2, 1966 Date completed Jan. Feb. 10, 1966

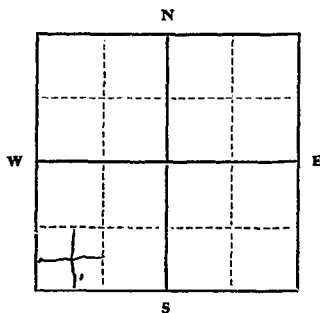
Type of well Drilled Equipment used Rotary  
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

See Attached for Log

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
13 3/4"	---	0	38			
8 5/8" Blk. 28#	---	0	38			
6 1/4"	---	38'	1436			
4 1/2" Blk. 10.8#	---	0	1436			
Electric Log and Gun Perforated				1388	1418	
All Casing O.D. Quoted						



Static Water Level for non-flowing well 28 feet.

Shut-in Pressure for Flowing Well \_\_\_\_\_

Pumping Water Level 140 feet at \_\_\_\_\_ gal. per minute.

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

How Tested Sub. Pump

Length of Test 48 Hrs.

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

SW 1/4 SW Sec. 4 T. 15 R. 25  
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

set at 1288-1292. Surface cemented 0-38. Long String Mudded & Cemented 0-1288

(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.

26  
Driller's License Number  
B. M. Minson  
Driller's Signature

40870

d 24705 File #280

F MONTANA,  
of Petroleum, } ss.

R 1 1866 10

Joseph P. M.

*L. Engel*  
Secretary of Records.

Deputy

- 1210 Dolomites-limey sand
- 1220 Red clay-shales
- 1232 Limey sand shales
- 1240 Red clay-shale
- 1244 Chert
- 1286 Limey shales
- 1292 Dirty fine caver sand
- 1300 Limestreaks
- 1300 Hard shale to hardlimey sand
- 1328 Variegated shales
- 1334 streak of dirty sand (third Cat Creek)
- 1390 Chert-hard lime sand (sand tops)
- Sugar sand streaks-dark sand streaks
- Limey sand streaks-variegated shale streaks

ART KAMRATH  
(Petroleum Cty.)

Sec. 5 twp. 15N Rg. 25E

0-5 Surface soil  
shale-slight  
800 Sandy shales  
streaks of bentonite  
820 Hardsand calcite layer  
900 Bentonite streaks  
shale-greyish  
910 Sandy shale & bentonite streaks  
914 Calcite-fossil sand (cap rock of muddy)  
960 Bentonites streaks & sandy shale  
(74 Silty sand  
984 Bentonite  
994 Shell shales  
998 Limey sand hard (first cat creek sand tops)  
1024 Sandy shale to silty sand  
1026 Limey sand  
1040 Shale-silty sand  
1054 70% sand to shale  
1066 Red-Green clays  
1072 Greenish sand-chert  
1180 Chert  
1124 Dirty shaley sand  
1130 Dolomites  
1142 Red stichy clays  
1174 Varigated shales  
1184 Chert  
1190 Red clay-varigated shales  
1210 Dolomites-Limey sand  
1220 Red Clay-shales  
1232 Limey sand shales  
1240 Red clay-shale  
1244 Chert  
1286 Limey shales  
Dirty fine cavey sand  
1292 Limestreaks  
1300 Hard shale to hardlimey sand  
1328 Varigated shales  
streak of dirty sand (third Cat Creek)  
1334 Chert-hard lime sand (sand tops)  
1390 Sugar sand streaks-dark sand streaks  
Limey sand streaks-varigated shale streaks  
1400 Firm sand lime base  
1420 Sugar sand (fair poristy)  
1424 Coal in samples (Morrisn tops)  
1436 Black shale iron pyrites in samples  
T. D.

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—42329

File No. 210

T. 15 R. 25

DUPLICATE

County Petroleum

LOG

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

(Under Chapter 237, Montana Session Laws, 1961)

Owner Earl Walker Address FEIGAN Feigan, Mont.  
Driller Munson Drlg. Co. Address Grass Range, Mont.  
Date of Notice of appropriation of groundwater Not Applicable  
Date well started Dec. 1 1965 Date completed Dec. 24, 1965  
Type of well Drilled Equipment used Rotary  
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)  
Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other

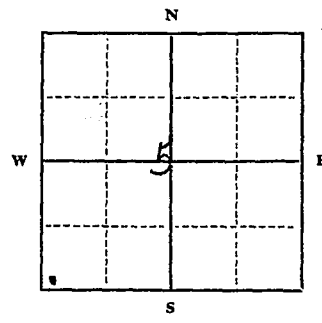
Top of Ground  
(Elev. above sea level.....)



SEE ATTACHED  
COPIES FOR  
LOG

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)
13 3/4"		0	42			
8 5/8"	Blk. 28#/Ft.	0	42	Cemented	0	42 Ft.
6 1/4"		42	1380			
5 1/2"	Blk. 18#/Ft.	0	42	Swedged on to	4 1/2"	
4 1/2"	Blk. 10.8/Ft.	42	1380	All Casing O.D. in		quoting Dia. size



Static Water Level for non-flowing well 38 feet.  
Shut-in Pressure for 66 ft. Well.....  
Pumping Water Level 66 140 feet  
at 8 & 10 gal. per minute.  
Discharge in gal. per min. of flowing well

How Tested Bailing & Sub. pump  
Length of Test 8 hrs. & 36 hrs.  
Remarks: (Gravel packing, cementing, packers, type of shutoff) Larkin Packer set at 1182-1186. Surface cemented, long string cemented to 1182 by Gel. Natural mud and type 2 cement. Gun perforated 1253-1268.

SW SW 5  
T. 15 R. 25  
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.

26  
Driller's License Number  
B.M. Munson  
Driller's Signature

40924

Earl Walker No. I

Petroleum-County

NE NE Sec. 8 T15 R25

- 0-5 Surface Soil
- 42- Shale Bentonite
- 270- Shale to Sandy Shales
- 402- Sandy Shales
- 440- Farm Shale
- 516- Shale-Sandy Shales Streaks
- 630- Sandy Shale-Hard Streaks of Sand
- 670- Shale-Bentonite Streaks
- 678- Hard Sand-Shell
- 680- Hard Sand-Shell
- 700- Soft-Sticky Shale
- 720- Hard Sand Streaks
- 750- Limey sand streaks-Shell streaks
- 782- Soft Shales
- 784- Cap Rock of Big muddy
- 800- Shale-shell streaks
- 846- Sandy Shales & Bentonite Streaks
- 846- Sandy Shales
- 868- Shells and Sand
- 870- Hardlime sand (top of first Cat Creek)
- 890- Sandy Shale
- 906- Limey Shales-Soft Shale
- 930- Red Clay- Green Clays
- 950- Limey Shales
- 970- Shale to Streaks of dirty sand
- 990- Greyish-sand (tite)
- 1050- Limey sand- Chert streaks-Red Clay Straks
- Dolomite- Shells
- 1060- Red Clay & Shale
- 1084- Chert-Shale-Varigated Shale
- 1090- Dolomite (Cap rock of Second Cat Creek)
- 1100- Limey Sand
- 1130- Limey Shales-Chert streaks
- 1138- Varigated Shales- Red Clay Streaks
- 1140- Quartzite
- 1152- Varigated Shale
- 1160- Lime-hard Sand (Cap rock- Second Cat Creek)  
    Second Bench
- 1186- Hard Sand Lime (Greyish Sand Streaks-Lite
- 1221- Sticky Red Shales
- 1236- Varigated Shales
- 1250- Lime-Hard Sand (Cap rock of Third Cat Creek)
- 1284- Sandy Lime-Sugar Sand-Dark Sand Streaks
- 1286- Coal (MORRISON TOPS)
- 1300- Hard Sand - Lime - Iron pyrites
- 1381- Black Shale- Limey Sand- Chert  
    Iron pyrites- Dirty sand- Streaks of Salt & pepper Sand  
    (1360-1371)

24727 File #210

STATE OF MONTANA,  
County of Petroleum, } ss.

Filed MAR 23 1966 19

at 3:00 o'clock P. M.

*Sonny L. Duggell*  
Director of Lands.

*J. W. P.* Deputy

STATE WATER CONSERVATION BOARD  
MAR 25 1966

Blitz	McDermott
Butzerin	McNulty
Coyle	Morton
Darlington	Sullivan
Dickert	



File No.....  
DUPLICATE

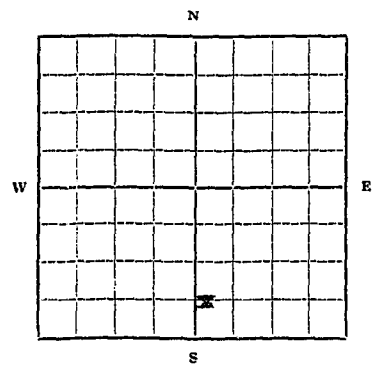
T.15 N. R. 25 E.  
County... Petroleum

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
MAR 19 1962

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

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



SW 1/4 SE 1/4 Sec. 5 T.15 R. 25  
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 The watering of livestock
- 3. Date or approximate date of earliest beneficial use; and how continuous the use has been The well has been used continuously since about 1920 as a source of water.
- 4. The amount of groundwater claimed (in miner's inches or gallons per minute) From 10 to 20 gallons per minute.
- 5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof None
- 6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal A centrifugal pump with a gasoline motor, located on the SW 1/4 SE 1/4 Sec. 5, Twp. 15N., Rge. 25E.

- 7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater About 1920.
- 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 The well is approximately 10 to 15 feet deep.
- 10. The estimated amount of groundwater withdrawn each year Sufficient to water from 175 to 200 head of cattle the year around.
- 11. The log of formations encountered in the drilling of each well if available Unknown.
- 12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record. None

Signature of Owner Arthur Kamrath  
Date March 16, 1962

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.

1749

20098

148  
U.R.M.

STATE OF MONTANA, } ss.  
County of Petroleum.

Filed March 16 19 62

at 3:00 o'clock P.-M.

Delma R. Merten  
County Recorder.

Deputy.

21

File No. 320

RECEIVED

T. 15 R. 25

DUPLICATE

MAY 1 1972

County Petroleum

LOG DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE STATE WATER CONSERVATION BOARD



Top of Ground (Elev. above sea level) 0 1 Topsoil 1 18 Gravel and clay 18 720 Colorado Shale with rock and sand stringers and streaks Bentonite 720 805 First Cat Creek Sand 805 1010 Top Red Bed formation red variated shale with streaks of rock 1010 1055 Second Cat Creek Sand 1055 1220 Rock and shale 1220 1300 Third Cat Creek Sand

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

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

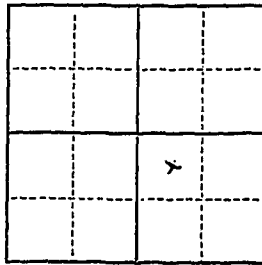
Owner: Peter Teigen Address: Teigen, Mont. Driller: George O. Singley Address: Lewistown, Montana Date of Notice of appropriation of groundwater: None Date well started: March 20, 1972 Date completed: May 6, 1972

Type of well: Drilled Equipment used: Rotary (Dug, driven, bored or drilled) (Churn drill, rotary or other) Water use: Domestic [ ] Municipal [ ] Stock [x] 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.

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

Doc. No. #320, 27430 Filed for record this 31st day of May A. D. 1972, at 8:35 o'clock P.M.



NW 1/4 Sec. 24, T. 15 N., R. 25 E.

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

Static Water Level for non-flowing well 160 feet. Shut-in Pressure for Flowing Well None Pumping Water Level 400 feet at 10 gal. per minute. Discharge in gal. per min. of flowing well None

How Tested Air Length of Test 5 hrs.

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

19 Driller's License Number

Signature: George O. Singley Driller's Signature

50,489

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.

Show exact depth of bottom.

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).

(Continue on reverse side)

27430

# 320

STATE OF MONTANA, }  
County of Petroleum, } ss:

Filed MAY 31 1972 19\_\_

at 8:35 o'clock A. M.

Orene Barber  
Director of Records.

Deputy

# 310

13N 25E

23

3 GW 2 Revised 1969  
13-3M-10/69

County... Petroleum

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 Pete Teigen

Address Teigen, Montana

Date well started Nov. 10, 1970

completed Nov. 14, 1970

Type of well Drilled

(Dug, driven, bored or drilled)

Equipment used Rotary

(Churn drill, rotary or other)

Water Use: Domestic  Municipal  Stock  Irrigation

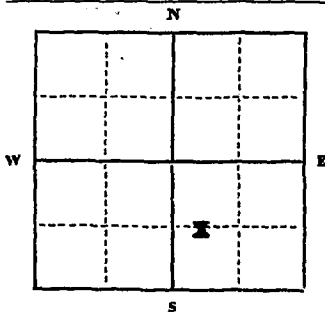
Industrial  Drainage  Other \* Garden/Lawn

\*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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7-7/8		0	22			
5-5/8		22	557			
	4 1/2 OD 4 1/2 ID Galv.	above ground 1"	557	1/2 x 4 slots	497	557



Static water level None ft.\*  
Pumping water level None ft.\*  
at 0 gallons per minute,  
measured 0 minutes after pumping  
began.

\*Measured from ground level.  
Well developed by naturally  
for 0 hours.

Power 0 Pump 0 HP  
Remarks: (Gravel packing, cementing,  
packers, type of shutoff)  
Artisan - 6 gal per min

... NW 1/4 ... 25 ...  
T. 15 N R. 25 E  
S W

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

Driller's Signature [Signature]

Driller's Address Rte. 2 Box 4

Lewistown, Montana LICENSE NO. 19

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	1	Topsoil
1	15	Drift
15	355	Colorado Shale
		Dark colored with streaks of slate and bentonite
355	480	Black splinter Shale
480	557	Rock - Top 1st. Sand Water

557 Show exact depth of bottom

47777

26750

W W # 310

STATE OF MONTANA, )

County of Petroleum, )

Filed NOV 19 1970 19

at 3:30 o'clock P. M.

David Carrell

Director of Records.

Deputy

Lee 0209

GW 2

Approved Stock Form—State Publishing Co., Helena, Montana—38496

File No. 267

T. 15N R. 25E

DUPLICATE

County PETROLEUM

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

32.00  
Top of Ground  
(Elev. above sea level.....)

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

(Under Chapter 237, Montana Session Laws, 1961)

Owner: TEIKEN LAND & LIME STOCK CO. Address: TEIKEN, MONT

Driller: LIVINGSTON & BOLES Address: WINNETT, MONT

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

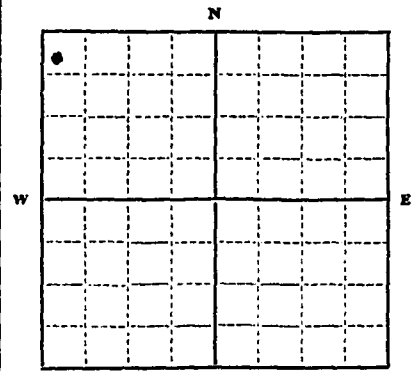
Date well started JUNE 1947 Date Completed AUG. 1947

Type of well DRILLED Equipment Used ROTARY  
(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)
	<u>5" x 57 O.D.</u>	<u>638</u>	<u>638</u>	<u>SHOT</u>	<u>695</u>	<u>713</u>
					<u>730</u>	<u>742</u>



NW 1/4 NW Sec. 30 T. 15 R. 25  
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

Show exact depth of bottom.

1020

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

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

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

Discharge in gal. per min. of flowing well. 30 gal per minute

How Tested.....Length of Test.....

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).....

owner  
Driller's License Number  
Teiken Land & Lime Stock Co  
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.

27109

22462

STATE OF MONTANA,  
County of Petroleum, } ss.

Filed JAN 7 1964 10

at 10:00 o'clock A.M.

*Benny L. Dwyer*  
Director of Records

*Ju: 2. 00* Deputy

Faint, illegible text on the left side of the page, possibly bleed-through from the reverse side.





RECEIVED  
 JAN 26 1950  
 STATE ENGINEER

T. 15 North R. 26 East  
 County Petroleum

MONTANA BUREAU OF MINES AND GEOLOGY  
 Butte, Montana

WATER WELL LOG


Owner: Adolph Backstrom Address: Winnett, Montana  
 Driller: Livingston-Boles Address: Winnett, Montana  
 Date Started: September 1, 1946 Date Completed: October 22, 1946  
 Location: Sec. 4 T. 15 N. R. 26 E. 1/4 sec.

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

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

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

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

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

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

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

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

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

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

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

Set 78 feet of 8 inch 20 # casing from 0 feet to 78 feet; cemented with 20 sacks of cement; at 1302 feet set 1292 feet 4 inch O. D. casing with float shoe on bottom; cemented with 25 sacks cement; ran 3 inch O. D. liner from 1266 feet to 1472 feet; perforated from 1432 to 1452; 4 rows of 5/6 inch holes; inside diameter of liner 3 1/16 inch. *Flowing*  
*32 gals. per minute.*  
 (over)

17250  
#68

Log of Well

Depth, feet		Description of Material Drilled	at	Time	Date	County	State
From	To						
0	24	surface sand, clays, and gravel	4:40	o'clock	JAN 22 1959	Blaine	Mont.
24	369	grey shale					
369	405	sandy shale and bentonite streaks					
405	512	grey shale					
512	860	grey, sandy shale with streaks of bentonite					
860	945	grey shale shells, gypsum, and bentonite					
945	1012	hard black shale shells and bentonite					
1012	1024	black shale					
1024	1067	grey shale and bentonite					
1067	1084	grey shale, streaks of sand and lime, and gypsum					
1084	1126	grey shale, streaks of sand, and gypsum					
1126	1150	grey shale with streaks of sand					
1150	1187	grey and red shale					
1187	1200	grey and red shale and bentonite					
1200	1223	grey sand					
1223	1235	grey sand (show of water)					
1235	1295	grey and red shale					
1295	1302	grey sand					
1302	1405	red beds and lime					
1405	1439	variegated shale					
1439	1462	soft pepper and salt sand (well started flowing)					
1462	1465	hard sand shell					
1465	1474	sand with streaks of shale					
1474	1478	variegated shale with streaks of sand					

STATE OF MONTANA,  
County of Petroleum,  
Blaine, Mont.  
JAN 22 1959  
at 4:40 o'clock P. M.  
Edward R. Metzger  
County Recorder.  
John S. Anderson  
Deputy.

Form No. 18  
8-60

T. 15 North R. 26 East

County Petroleum

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
JAN 3 1962

Water Well Log

STATE ENGINEER


Owner Adolph Beckstrom Address Winnett, Montana

Driller Livingston-Boles Drilling Contractors Address Winnett, Montana

Date Started September 1, 1946 Date Completed October 22, 1946

Location: Sec. 4 T. 15 N R. 26 E  $\frac{1}{4}$  sec. 30

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

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

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

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

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

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

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

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

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

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

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

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

Remarks: (Gravel packing, cementing, packers, type of shut-off, depth of  
Set 78 feet of <sup>shut-off</sup>  $8\frac{1}{4}$  inch 20# casing from 0 feet to 78 feet; cemented with 20 sacks of cement; at  
1302 feet set 1292 feet  $4\frac{1}{4}$  inch O.D. casing with float shoe on bottom; cemented with 25 sacks  
cement; ran  $3\frac{1}{2}$  inch O.D. liner from 1266 feet to 1472 feet; perforated from 1432 to 1450; 4 rows  
of  $5/8$  inch holes; inside diameter of liner  $3\frac{1}{16}$  inch. Flowing 32 gals per minute.

(over)

Log of Well

Depth feet		Description of Material Drilled
From	To	
0	24	surface sand, clays, and gravel
24	269	gray shale
269	405	sandy shale and bentonite streaks
405	512	grey shale
512	860	grey, sandy shale with streaks of bentonite
860	945	grey, shale shells, gypsum, and bentonite
945	1012	hard black shale shells and bentonite
1012	1024	black shale
1024	1067	grey shale and bentonite
1067	1084	grey shale, streaks of sand and lime, and gypsum
1084	1126	grey shale, streaks of sand, and gypsum
1126	1150	grey shale with streaks of sand
1150	1187	grey and red shale
1187	1200	grey and red shale and bentonite
1200	1223	grey sand
1223	1235	grey sand (show of water)
1235	1295	grey and red shale
1295	1302	grey sand
1302	1405	red beds and lime
1405	1439	varigated shale
1439	1462	soft pepper and salt sand (well started flowing)
1462	1465	hard sand shell
1465	1474	sand with streaks of shale
1474	1478	varigated shale with streaks of sand

19919

117  
U.R.M.

State of Montana,  
County of Petroleum,

Dated Dec. 29 1961

at 3:15 o'clock P.M.

Welma R. Merten  
County Recorder.

Deputy.

860	945	grey, shale shells, gypsum, and bentonite
945	1012	hard black shale shells and bentonite
1012	1024	black shale
1024	1067	grey shale and bentonite
1067	1084	grey shale, streaks of sand and lime, and gypsum
1084	1126	grey shale, streaks of sand, and gypsum
1126	1150	grey shale with streaks of sand
1150	1187	grey and red shale
1187	1200	grey and red shale and bentonite
1200	1223	grey sand
1223	1235	grey sand(show of water)

File No. 229

T. 15N R. 26E

DUPLICATE

County Petroleum

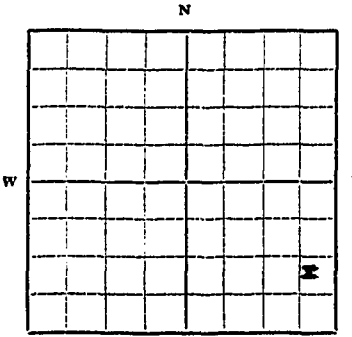
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 3 1968  
STATE ENGINEER

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

1. Justus K. Smith of Denver  
(Name of Appropriator) (Address) (Town)

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



"x" location of well

1/4 Sec. 4 T 15N R 26E

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

2. The beneficial use on which the claim is based domestic and stockwater

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

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 23 gallons per minute (artesian)

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 well, drilled, 1376 feet deep

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

8. The depth of water table 1376 feet approximately

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 1376 feet deep

10. The estimated amount of groundwater withdrawn each year 5000000 gallons

11. The log of formations encountered in the drilling of each well if available well drilled by W. L. Livingston in 1946. Don't know if log filed or not. Additional information available from his files, W. L. Livingston being deceased.

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 known.

Justus K. Smith,  
Signature of Owner. By Howard Greer  
Attorney in fact  
Date December 30, 1965.

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

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

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

22387

# 220

STATE OF MONTANA,

County of Petroleum,

Filed DEC 30 1963

at 4:10 o'clock P. M.

Bonny L. Dengel

Director of Records

*Louis Conice*

*L. C.* Deputy



RECEIVED  
 JAN 26 1959  
 STATE ENGINEER

T. 15 North R. 26 East  
 County Petroleum

MONTANA BUREAU OF MINES AND GEOLOGY  
 Butte, Montana

WATER WELL LOG


Owner Sven Holmgren Address Faigen, Montana  
 Driller W. L. Livingston Address Winnett, Montana  
 Date Started March 26, 1951 Date Completed April 3, 1951  
 Location: Sec. 6 T. 15 N. R. 26 E. ¼ sec. NE 4

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

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

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

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

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

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

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

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

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

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

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

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

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

Set 4 1/2 inch O. D. #11 black pipe from 0 feet to 1308 feet; slotted from 1245 feet to 1308 feet; set Larkin packer figure 21 at 1280 feet; well flowing 12 gallons per minute.

(over)

Log of Well

17243

#61

STATE OF MONTANA,  
County of Petroleum, } ss.

Depth, feet		Description of Material Drilled
From	To	
0	268	sandy shale and streaks of bentonite (not making very much mud)
268	270	sandy shale, getting harder
270	370	hard sand and streaks of hard shale (Mowery)
370	530	light grey shale and bentonite
530	540	hard sand and grey shale
540	640	dark, hard, tight sand and sandy shale
640	740	soft shale, making mud
740	870	shale, sandy shale, hard sand streaks, and some lime
870	880	sand
880	985	clayey shale, streaks of hard sand, and some bentonite
985	1025	red and grey shales and bentonite
1025	1030	milky white shale and sand
1030	1040	hard sand and sticky red shale
1040	1200	various colored shales with sand and lime streaks
1200	1285	red and grey sticky shales, sand streaks, and some sandy lime
1285	1300	fine medium soft sand
1300	1316	salt and pepper sand; getting coarser
1316	1319	hard sand
1319	1365	soft salt and pepper sand (Base of t.c. Kootenai)
1365	1368	hard sand and lime

Drilled  
by  
Valera B. Medina  
County Recorder  
Darius  
4:05 o'clock P.M.  
1959

Doc. No. 26520 W.W. #306  
 File No. 306 A. D. 19 70 M. 3:10  
 Approved Stock Form—State Publishing Co., Helena, Montana—30551  
 T. 15 R. 26  
 DUPLICATE County Patrol

LOG

STATE OF MONTANA  
 ADMINISTRATOR OF GROUNDWATER CODE  
 STATE WATER CONSERVATION BOARD

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

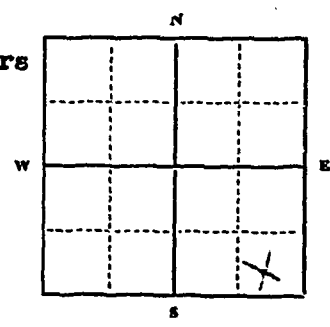
(Under Chapter 237 Montana Session Laws, 1961, as amended)

Top of Ground  
 0' surface soil  
 3' (Elev. above sea level.....)  
 to 15' sandy shale  
 to 40' shale  
 to 600' shale to sticky shale  
 to 994' bentonite streaks and shale  
 to 1150' shale - calcite  
 to 1400' silty shale streaks streaks of mudstone  
 to 1434' sandy shale  
 to 1550' sandy lime streaks sandy shale  
 to 1652' siltstone  
 to 1680' sand and shale and limey sand and limey sand First Catcreek poor porosity no H<sub>2</sub>O indicated  
 to 1776' red shale, chert Kootenia Tops  
 to 1790' shale- some limey sand  
 1870' shale and lime stringers  
 to 1902' limey sand to sand  
 to 1922' calacerous sand  
 to 1965' fine greyish limey sand (tite)  
 to 1985' red dish sand layers (limeyand tite)  
 to 2040' siltstone Matrix sand (third Cat Creek) very good porosity H<sub>2</sub>O flows 20 gal/min.  
 2100'  
 to 2105' red slaty shale hydro-carbon specks possible Morrison Top  
 T.P.

Owner.....Earl Brady.....Address.....Winnett, Montana.....  
 Driller.....Munson Drilling Co......Address.....Grass Range, Mont......  
 Date of Notice of appropriation of groundwater.....not applicable.....  
 Date well started.....February 14, 1970.....completed.....March 8, 1970.....  
 Type of well.....drilled.....Equipment used.....rotary.....  
 (Dug, driven, bored or drilled) (Churn drill, rotary or other)  
 Water use: Domestic  Municipal  Stock  Irrigation   
 Industrial  Drainage  Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
12"	8 5/8" 22#	0	40			
6 3/4"	4 1/2" 8.9#	0	1876	regular	2100'	2040'
3 7/8"		1876	2105			
2 3/8"	O.D.-upset collars	2105	1825			



Static Water Level for non-flowing well ..... 8 feet.  
 Shut-in Pressure for Flowing Well 20 feet  
 Pumping Water Level..... feet  
 at..... gal. per minute.  
 Discharge in gal. per min. of flowing well ..... 20 .....  
 How Tested.....  
 Length of Test.....  
 Remarks: (Gravel packing, cementing, packers, type of shutoff surface cemented and long string cemented in .....  
 temperature of water 78F.....

W. 1/4 Sec. 13 T. 15 R. 26  
 Indicate location of well and place of use, if possible. Each small square represents 40 acres.  
 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.

Driller's License Number  
B. M. Munson  
 Driller's Signature. 46280

26520      W.L. # 306

STATE OF MONTANA,  
County of Petroleum, }

Filed MAR 31 1970 19

at 3.10 o'clock P.M.

Miss Correll  
Director of Records.

Li. 82 Deputy

File No. 377  
STATE WATER CONSERVATION BOARD  
DUPLICATE

T. 15 N. R. 26 E. 17  
County Petroleum

DEC 31 1965 STATE OF MONTANA

Bille \_\_\_\_\_ ADMINISTRATOR OF GROUNDWATER CODE  
Butzeran \_\_\_\_\_ McNulty  
Coyle \_\_\_\_\_ McPherson  
Darlington \_\_\_\_\_ Sullivan  
Dicke \_\_\_\_\_  
OFFICE OF STATE ENGINEER

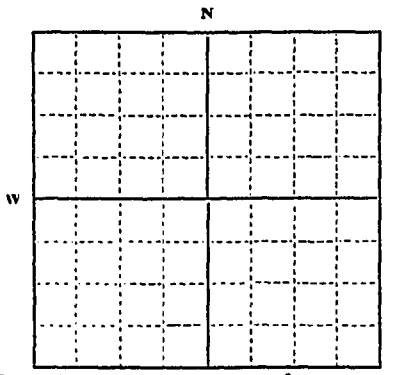
### Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I, Charles A. Ehlen, of 737 Adams St. Anoka  
(Name of Appropriator) (Address) (Town)

County of Anoka State of Minnesota

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



**E2 SE 19 Twp. 15 Range 26**  
**W2 SW 20 Twp. 15 Range 26**  
1/4 Sec. T. R.

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

2. The beneficial use on which the claim is based open range  
For stock water Land leased by P. M. Feigen
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 45 years and still is using it
4. The amount of groundwater claimed (in miner's inches or gallons per minute)
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal

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

8. The depth of water table 4 ft. from top of ground

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

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

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

Signature of Owner CHARLES A. EHLEN

Date Nov. 22, 1965

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

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

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

40231

24611 File No. 277

STATE OF MONTANA,  
County of Petroleum, } ss.

Filed DEC 29 1965 19

at 2:12 o'clock P.M.

Benny L. Deugel  
Director of Records.

\$2.00 Deputy

32

RECEIVED  
JAN 26 1959

T. 15 NORTH R. 26 EAST  
County: Petroleum

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG


Owner: Teigen Farm and Livestock Address: Teigen, Montana

Driller: W. L. Livingston Address: Winnett, Montana

Date Started: October 16, 1952 Date Completed: November 2, 1952

Location: Sec. 32 T. 15 N. R. 26 E. 1/4 sec. SW 7

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

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

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

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

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

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

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

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

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

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

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

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

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

Set 4 1/2 inch O. D. #11 from 0 feet to 1043 feet; slotted from 938 feet to 980 feet and from 1001 feet to 1022 feet; Larkin figure 21 packer set at 917 feet; well flowed 11 gallons per minute.

(over)



#63  
17245

Log of Well

Depth, feet		Description of Material Drilled	At	Filed	STATE OF MONTANA, County of Petroleum,
From	To				
0	18	valley fill	Valma R. Merten County Recorder	Jan. 22 1959 4:15 o'clock P.M.	ss.
18	23	gravel			
23	50	sticky blue shale			
50	130	sandy shale and bentonite			
130	165	sandy shale and hard sand streaks			
165	280	hard black sandy shale			
280	390	flowery shale			
390	530	dark shale and bentonite with thin sand streaks			
530	630	dark shale and bentonite			
630	720	soft dark shale, bentonite, and hard sand streaks			
720	810	soft dark and light gray shale with shells			
810	840	hard, tight, grey sand and sandy shale			
840	870	dark hard shale, bentonite, and shells			
870	880	hard, brown, fine textured sand			
880	915	hard tight sand, hard concretions, and pebbles			
915	915	hard tight sand shot with shale			
935	950	medium hard, coarse sand (white to light gray)			
950	960	fine to medium coarse sand			
960	967	soft coarse sand (white to light gray)			
967	969	hard lime shell			
969	983	hard sand and lime			
983	990	medium to hard sand			
990	1025	medium hard sand and shale; some red shale			
1025	1040	hard sand and red shale			
1040	1043	red shale			





File No. ....

MONTANA WATER RESOURCES BOARD

T. 15 R. 27

DUPLICATE

RECEIVED

County Petroleum

LOG DEC 5 1967

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

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

(Under Chapter 237, Montana Session Laws, 1961)

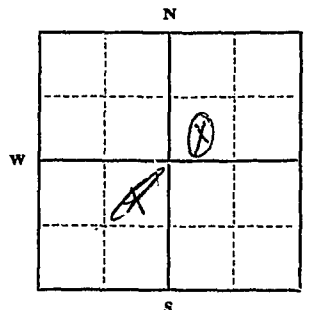


0 surface sand  
2 soft angular S.S.  
18 very hard tight S.S.  
20 { sugar S.S., with  
stacks of tight S.S. layers  
115

Owner Gene Stewart Address Winnett  
Driller Manson Drilling Co. Address Grass Range, Mont.  
Date of Notice of appropriation of groundwater Not Applicable  
Date well started 10/13/67 Date completed 10/17/67  
Type of well drilled Equipment used rotary  
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)  
Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
10"		0	10'			
	8 5/8" (20#)	0	10'			
6 1/4"	4 1/2" (6.8#)	10'	115'			
		0	115'	Regular	30'	35'
					70'	76'
					90'	97'



Static Water Level for non-flowing well 18 feet.  
Shut-in Pressure for Flowing Well .....

Pumping Water Level 80 feet  
at 10 gal. per minute.  
Discharge in gal. per min. of flowing well .....

SW 1/4 NE Sec. 10, T. 15, R. 27  
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

How Tested bailing  
Length of Test 3 hrs.  
Remarks: (Gravel packing, cementing, packers, type of shutoff) Surface (8 5/8" Cementing from 0 to 10')

(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.

R.G.  
Driller's License Number  
B. Manson  
Driller's Signature

42,638

25558 File # 293

STATE OF MONTANA, }  
County of Petroleum, } ss.

Filed DEC 4 1967 10

at 10:50 o'clock A. M.

Donny L. Dargatzis  
Director of Revenue

Deputy

RECEIVED

DEC 10 1967

T. 15 R. 27  
County Petroleum

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
MAY 5 1961

WATER WELL LOG

#7


Owner Wayne Bratten-Gavel Place Address Winnetka, Montana

STATE ENGINEER

Driller George O. Singley Address Lewistown, Montana

Date Started May 19, 1958 Date Completed May 23, 1958

Location: Sec. 11 T. 15 R. 27 1/4 sec. N. E. 1/4 of the S. N. 1/4

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

Water use: Domestic  Municipal  Stock  Irrigation

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

Above ground Casing: 2 ft. to 89 ft. Type S & S Size 5 3/16 ID

Casing: 85 ft. to 200 ft. Type S & S Size 4 1/2 ID

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

Perforated or Screened: Ft. 155 to ft. 200 Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations Slots

Static Water level, for non-flowing well: 125 feet.

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

Pumping water level 150 feet at 30 gal. per min.

How tested: Baling

Length of test 2 hrs.

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

Well sealed at 89' with shoe

4 1/2" liner 85' to 200'.

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	1	Topsoil
1	47	Blue shale, Bentonite streaks, Concretions
47	65	Brown sandstone, Water 1 gal. min
65	150	Sandy clay, Hard
150	200	White Salt Pepper Sandstone Water at 170' & 190'
		STATE OF MONTANA County of Petroleum.
		11:30 o'clock
		P. M.
		1961
		Boel Y
		Boel Y
		William R. Peterson
		County Recorder.

19813

100  
URM-

File No. ....

MONTANA WATER RESOURCES BOARD

T. 15 R. 27

DUPLICATE

RECEIVED

County Petroleum

LOG

DEC 5 1967

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

OFFICE OF STATE ENGINEER

Top of Ground

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

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

DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

0 Soil  
6 Sandy Shale  
17

S.S. with Hard  
sticks. (tight S.S.)

220 silty S.S. with  
255 shale.

Owner Gene Stewart Address Winnett, Mont

Driller Muskow Drilling Co. Address Great Falls, Mont

Date of Notice of appropriation of groundwater Not applicable

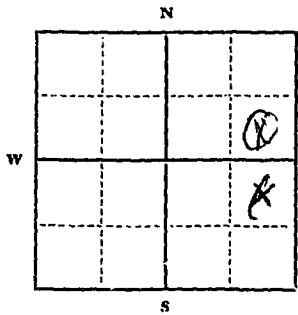
Date well started 10/19/67 Date completed 10/23/67

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

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
13 7/8"		0	18'	Cemented.		
6 1/2"	8 5/8" (20#)	0	18'			
	1 1/2" (6.8 3/4")	18'	233			
		0	<del>233</del> 90			



Static Water Level for non-flowing well 78 feet.

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

Pumping Water Level 80 feet at 2-3 gal. per minute.

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

How Tested Bailed

Length of Test 3 hrs.

Remarks: (Gravel packing, cementing, packers, type of shutoff) Surface cemented from 0'-18'

SE 1/4, 15 Sec. 19, T. 15, R. 27  
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.

76  
Driller's License Number

B. Mason  
Driller's Signature

42,639

25557

File # 292

STATE OF MONTANA,  
County of Petroleum.

Filed DEC 4 1967

at 10:45 o'clock A.M.

*Donny L. Furgel*  
Director of State

Deputy

RECORDED

INDEXED

Vertical line on the left side of the page.

File No. 269

T. 15 N 27 E. 23

DUPLICATE

County Petroleum

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
FEB 2 1965

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

(Under Chapter 237, Montana Session Laws, 1961)



Top of Ground  
(Elev. above sea level.....)  
**11** Clay sand gravel  
**38** Shale  
**60** Sandstone Water

Owner Wayne Bratten Address Winnett, Montana

Driller George O. Singley Address Lewistown, Montana

Date of Notice of Appropriation of Groundwater None

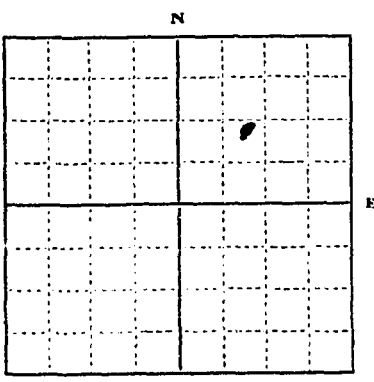
Date well started Aug 11, 1964 Date Completed Aug. 12, 1964

Type of well Drilled Equipment Used Rotary  
(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)
5 5/8	2" galv. pipe	0	38			
4 3/4		38	60			



1/4 Sec. 23 T. 15 R. 27  
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 None feet.

Shut-in Pressure for Flowing Well 5#

Pumping Water Level 0 feet at 0 gal. per minute.

Discharge in gal. per min. of flowing well 50

How Tested Measured Length of Test Minute

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) 2" galv. pipe set with Bottom hole Packer at 38'.

Cemented to top.

19  
Driller's License Number  
George O. Singley  
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.

38430



24166 State Hill 369

STATE OF MONTANA,  
County of Petroleum, }<sup>23</sup>

Filed FEB 1 1965 19

at 11<sup>10</sup> o'clock P. M.

Donna Dangel  
Recorder of Records.

J. H. H. Deputy

Form No. 18  
8-60

T. 15 R. 27

County Petroleum

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
JAN 2 1962

WATER WELL LOG

STATE ENGINEER


Brush Creek Well

Owner Wayne Bretten Address Winnett, Montana

Driller Phillips Address \_\_\_\_\_

Date Started \_\_\_\_\_ Date Completed March 20, 1954

Location: Sec. 24 T. 15 R. 27  $\frac{1}{4}$  sec. NW $\frac{1}{4}$  of NE $\frac{1}{4}$

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

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

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

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

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

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

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

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

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

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

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

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

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

Flows 40 gal. per min. through 2" pipe. Homemade packer set.

(over)



File No. 246

T. 15 N 27 E

DUPLICATE

County Petroleum

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 3 1964  
STATE ENGINEER

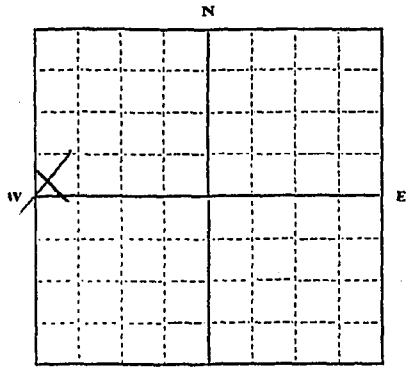
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

Mary Wadman  
By Joe Wadman, of Winnell, Montana  
(Name of Appropriator) (Address) (Town)

County of Petroleum State of Montana

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



25 15  
15 27  
SW 1/4 Sec. 15 R. 27

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 1957  
Over winter

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 4 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  
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 October 15, 1957

8. The depth of water table 11 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.  
3 ft casing

10. The estimated amount of groundwater withdrawn each year 500 gal daily

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

12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record None

Mary Wadman  
Signature of Owner Joe Wadman  
Date Dec 31, 1963

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

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

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

22408

STATE OF MONTANA,  
County of Petroleum, } ss.

Filed DEC 31 1963 19

at 2:25 o'clock P.M.

*Bonny L. Dege*  
Director of Records

*B. L.* Deputy

Helena Independent Record.

File No. 173

DUPLICATE

RECEIVED  
JAN 25 1963

T. 15 R. 27 <sup>32</sup>

County Petroleum

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

RECEIVED  
JAN 25 1963

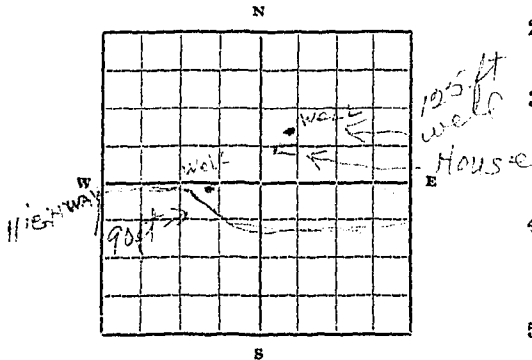
**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Ole and Kathryn Rigg of Shinault Montana  
(Name of Appropriator) (Address) (Town)

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



..... 1/4 Sec. 32 T. 15 R. 27

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

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

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1912 - continuous use since.

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

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

6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Deep wells pumped by dwelling.

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Completed approx. 1912.

8. The depth of water table 125 feet, 60 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 125 feet with 6 inch casing.

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

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

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

Signature of Owner Ole S. Rigg

Date January 14, 1963

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

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

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

3170

21758

#173  
Bhd

STATE OF MONTANA, )  
County of Petroleum, ) ss.

Filed January 4 1963

at 2:30 o'clock P. M.

Benny L. Dwyer  
County Recorder.

Mrs. Velma Merten,  
Clerk and Recorder  
Petroleum County  
Winnett, Montana

STATE ENGINEER

Dear Mrs. Merten:

We are returning the enclosed ground-water forms, our numbers 3170 and 3171, because there is no indication as to where the wells are located.

If the original has such information shown on it, will you please copy it on the enclosures and return them to this office?

Very truly yours,

STATE OF MONTANA

STATE ENGINEER

SAM W. MITCHELL BUILDING

HELENA, MONTANA

January 15, 1963

FRED E. BUCK, STATE ENGINEER  
HANS L. BILLE, ASSISTANT

C. S. Heidel, Deputy State Engineer

RECEIVED  
JAN 25 1963

STATE ENGINEER

Mrs. Velma Merten  
Clerk and Recorder  
Petroleum County  
Winnett, Montana

Dear Mrs. Merten:

We are returning the enclosed ground-water forms, our numbers 3170 and 3171, because there is no indication as to where the wells are located.

If the original has such information shown on it, will you please copy it on the enclosures and return them to this office?

Very truly yours,

FRED E. BUCK  
STATE ENGINEER

*C. S. Heidel*

By: C. S. Heidel  
Deputy State Engineer

CSH:ba  
Encs.

Mr. and Mrs. Ole Rigg

'ould you please put the location of these wells on the two enclosed forms and return them to me as soon as possible . If you do not know the exact location put the approximate location on them. Thank you.

Bonny L. Dengel



File No. 174

DUPLICATE

Handwritten notes and stamps

RECEIVED stamp

T. 15 R. 27

County Petroleum

STATE ENGINEER STATE OF MONTANA

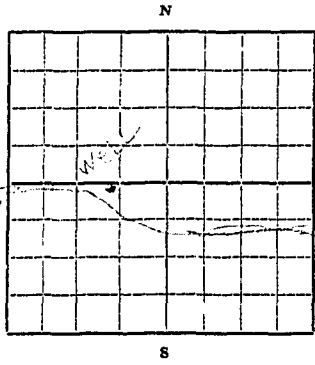
ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER

RECEIVED stamp

STATE ENGINEER

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

1. Ole S. Rigg and Kathryn Rigg, of Timbith, Montana. County of Petroleum State of Montana have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



1/4 Sec. 32 T. 15 R. 27

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 is Water Wells.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1952 - approx. 3 to 4 months a year.
4. The amount of groundwater claimed (in miner's inches or gallons per minute)
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Handwritten: Water Pump.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Handwritten: Approx. 1952.
8. The depth of water table. Handwritten: 90 feet, 30 feet.
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater. Handwritten: 90 feet deep with 6 inch casing.
10. The estimated amount of groundwater withdrawn each year
11. The log of formations encountered in the drilling of each well if available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner: Ole S. Rigg Date: January 4, 1962

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

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

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

21754

# 174  
BLD

STATE OF MONTANA, } ss.  
County of Petroleum.

Filed January 4 1963

at 2:35 o'clock P. M.

Sammy L. Dangel  
County Recorder.

File No. 292

RECEIVED

T. 15 R. 27

DUPLICATE

AUG 22 1967

County Petroleum

LOG

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
STATE WATER CONSERVATION BOARD

Top of Ground

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



0 15 Yellow sand  
15 30 Yellow sandrock  
30 50 Grey sandy shale  
50 75 Light blue sandstone  
75 77 Hard caprock  
77 95 Blue sandstone  
95 97 Hard caprock  
97 130 Sandstone Water

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

DEVELOPED AFTER JANUARY 1, 1962

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

Owner Ole Rigg Address Winnett, Montana

Driller George G. Singley Address Lewistown, Montana

Date of Notice of appropriation of groundwater None

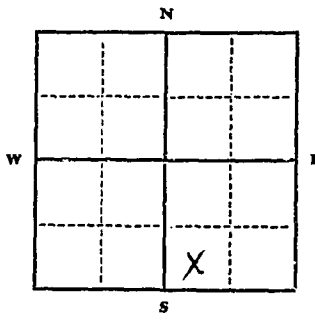
Date well started Aug. 17, 1967 Date completed Aug. 18, 1967

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

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5-5/8	4 1/2 OD 4 1/2 ID 7#	0	130			
		1 1/2'	130	1/2" x 4" slots on 3 sides	80	130



Static Water Level for non-flowing well 80 feet.  
Shut-in Pressure for Flowing Well None  
Pumping Water Level 115 feet  
at 5 gal. per minute.  
Discharge in gal. per min. of flowing well None  
How Tested Air and Bailing  
Length of Test 1 hr.  
Remarks: (Gravel packing, cementing, packers, type of shutoff).....

2w 1/4 Sec. 33 T. 15 R. 27  
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.

19  
Driller's License Number  
George G. Singley  
Driller's Signature  
42,222

24 25479 W.W. 292

STATE OF MONTANA,  
County of Petroleum, } SS.

Filed AUG 21 1967 19

at 9:50 Stock A

Dorothy L. Dergel  
Director of Records.

Joe B. 2. 07 Deputy

33

File No. 304

T. 15 R. 27

DUPLICATE

County Petroleum

LOG

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
STATE WATER CONSERVATION BOARD

Notice of Completion of Groundwater  
Appropriation by Means of Well

DEVELOPED AFTER JANUARY 1, 1962

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

Top of Ground	
(Elev. above sea level.....)	
0	1 Topsoil
1	30 Yellow sandstone
30	105 Blue Sandstone
	Water at 70-85
105	120 Blue shale

MONTANA WATER RESOURCES BOARD  
**RECEIVED**  
DEC 9 1969

Owner Cla Rigg Address Winnett, Montana

Driller George O. Singley Address Lewistown, Montana

Date of Notice of appropriation of groundwater None

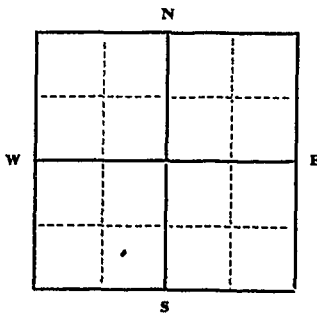
Date well started Nov. 1, 1969 Date completed Nov. 3, 1969

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

Water use: Domestic  Municipal  Stock  Irrigation   
Industrial  Drainage  Other

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as soil, clay, shale, gravel, rock or sand, etc. Show depth at which water is encountered, thickness and character of water-bearing strata and height to which the water rises in the well.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
<u>5-5/8</u>	<u>4 1/2 OD 4 1/2 ID</u>	<u>0</u>	<u>120</u>			
	<u>7# Galv. gr. 1</u>	<u>120</u>		<u>2x4 slots</u>	<u>60</u>	<u>120</u>



Static Water Level for non-flowing well 65 feet.

Shut-in Pressure for Flowing Well None

Pumping Water Level 105 feet at 5 gal. per minute.

Discharge in gal. per min. of flowing well None

How Tested Bailing

Length of Test 1 hr.

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

SE 1/4 Sec. 33 T. 15 R. 27  
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.

19  
Driller's License Number  
George O. Singley  
Driller's Signature  
15948



RECEIVED  
OCT 27 1957

T. 15 R. 27

County Petroleum

STATE ENGINEER  
MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

WATER WELL LOG


Owner M.N. Gershamel Address Winnatt, Montana

Driller P.L. Ferguson Address Roundup, Montana

Date Started Oct. 22nd, 1957 Date Completed Oct. 30th, 1957

Location: Sec. 35 T. 15 R. 27 1/4 sec. NW

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

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

Casing: 0 ft. to 235 ft. Type Galvanized Size 5"

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

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

Perforated or Screened: Ft. 194 to ft. 220 Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations Perforations

Static Water level, for non-flowing well: 165 feet

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

Pumping water level: 165 feet at 100 gal. per min.

How tested: Bailing

Length of test: Half hour

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

(over)







File No. 209 STATE WATER CONSERVATION BOARD

T. 15 N. R. 28E

DUPLICATE

MAR 17 1966

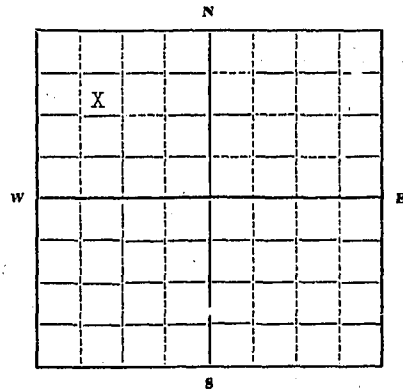
County Petroleum

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER  
McDermott  
Markus  
Sullivan

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

1. Henry J. Pitt, of Route 2 Lewistown, Montana  
(Name of Appropriator) (Address) (Town)

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



NW 1/4 NE 1/4 Sec. 11 T. 15. NR. 28E

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.....  
About 1965 - continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute).....  
6 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.....  
Normal gravity flow

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

8. The depth of water table.....  
6 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.....  
7.2 feet diameter - 6 feet deep

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

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.....

Signature of Owner Henry J. Pitt

Date March 15, 1966

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

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

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

40895

Doc. # 24722 File # 209

STATE OF MONTANA,  
County of Petroleum, } ss.

Filed MAR 15 1966 10.

at 3:05 o'clock P. M.

Sonny L. Dargatzis  
Director of Rec. & Cg.

Free Pd. \$2.00 Deputy

T. 15 N R. 28 E  
County Petroleum

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED

WATER WELL LOG

STATE ENGINEER  
P.O. Box 807


Owner Gunnvald Landheim Address Lewistown, Montana  
Driller K. Misamore Address Heath, Montana  
Date Started July 12, 1961 Date Completed July 22, 1961  
Location: Sec. 11 T. 15 N R. 28 E ¼ sec. SW

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

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

Casing: 0 ft. to 202 ft. Type 7 1/2 lb. galvanized Size 1 1/2" O.D.

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

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

Perforated or Screened: Ft. 132 to ft. 202 Ft. \_\_\_\_\_ to ft. \_\_\_\_\_

Type of screen or perforations 1" perforated slots

Static Water level, for non-flowing well: Eighty (80) feet.

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

Pumping water level 140 feet at 11 gal. per min.

How tested: Bailer

Length of test four to five hours

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

Pump—Submersible Myers, 1/2 H.P. set at 152 ft. pumping approximately 11 gallons per minute, continuous. Pump is equipped with B/W liquid level control, on stock tank, automatic

(over)