

27882

LT. 10.3 341

NOTICE OF COMPLETION OF DEEDS

RECORDS SECTION OF DEPARTMENT OF REVENUE  
STATE OF MONTANA

STATE OF MONTANA,  
County of Petroleum,

Filed JUN 29 1973

at 11:05 o'clock P.M.

*Orene Burke*  
Director of Records.

Deputy

File No. 297T. 13N R. 27E

DUPLICATE

LOG

MONTANA WATER RESOURCES BOARD  
RECEIVED

AUG 20 1969

County Petroleum

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)

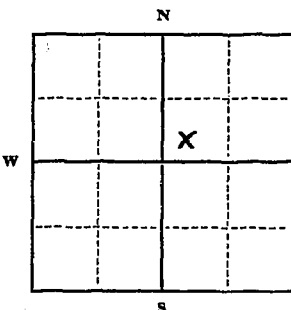
Fraser Land and Livestock Co. Inc.

Owner R.B. FraserAddress Box 1352Billings, Mont.Driller Munson Drilling Co.Address Grass Range, Mont.Date of Notice of appropriation of groundwater not applicableDate well started July 17, 1969 Date completed July 26, 1969Type 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.

0 surface soil  
4 silty sand  
31 to  
89 hard sand-shell-lime  
to  
160 friable sand  
to  
200 silty sand strks-shell  
lime-lorn noddles  
to  
240 silt stone  
to  
244 lime  
to  
260 sand layers-siltstone  
to  
274 sand layers  
siltstone to friable sand  
to  
290 fine sand to med. sand  
H2O  
to  
300 silty shale  
T.D.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
12"		0	13			
12"	8 5/8 O.D. 22#/ft.	0	13			
6 1/4"	7.8# galv. 4" I.D.	13	300		274	290

Static Water Level for non-flowing well  
170' feet.

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

Pumping Water Level 180 feet  
at 4 gal. per minute.

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

How Tested continuous pump

Length of Test.....

Remarks: (Gravel packing, cementing, pack-  
ers, type of shutoff).....cave type packers@31'--90'--270' surface12 sacks cement, s

(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 Addi-  
tion).

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

Driller's Signature

45539



RECEIVED

13-27

13

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

MONTANA WATER RESOURCES BOARD

MONTANA DEPARTMENT OF NATURAL  
RESOURCES AND CONSERVATION

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

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

This form to be prepared by contractor (if any), otherwise by the owner.  
Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.  
Please answer all questions. If not applicable, so state, otherwise the form may be returned.

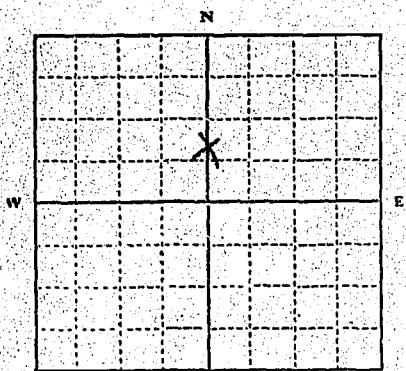
For Administrator's Use

File 27880, 10:55A.M.  
June 29, 1973.

GW 1 \_\_\_\_\_

Owner Frasco Land Lessor Co. Inc.  
Address Box 1352 Billings, Montana  
Contractor (if any) \_\_\_\_\_  
Address of Contractor \_\_\_\_\_  
Date Started \_\_\_\_\_ Date Completed \_\_\_\_\_

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



N 1/2 1/4 Sec. 15  
T. 13. N R. 27 E  
S W

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

3. Depth of water table \_\_\_\_\_

4. Use of the water Stock water

5. Amount of groundwater claimed (in miner's inches or gallons per minute) 60 yds wide 150 yds long 15 ft deep

irrigation, give number of acres and description \_\_\_\_\_

INDICATE POINT OF APPROPRIATION AND PLACE OF USE, IF POSSIBLE.  
Elevation of spring, if known or estimated \_\_\_\_\_

7. Estimate amount of water used each year \_\_\_\_\_

8. Months of year spring flows 12 months

Signature of Owner Frasco Land Lessor Co. Inc.  
By Harry Schanley  
Date June 29, 1973.

54573



97880

1503 #339

STATE OF MONTANA,  
County of Petroleum,

Filed JUN 29 1973 10

at 10:55 o'clock A. M.

*Orville Barker*  
Director of Records.

Deputy

RECEIVED

JUL 2 1973  
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD  
RESOURCES AND CONSERVATION

County Petroleum

# NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

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

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

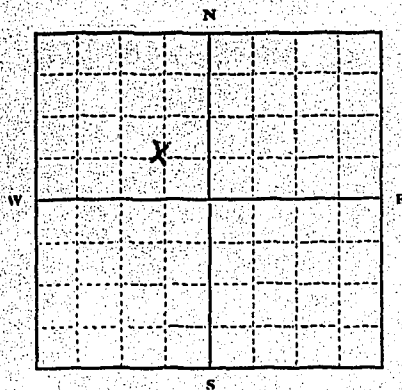
Three copies of this notice are to be filed with the County Clerk and Recorder of the county in which the works are located.

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

For Administrator's Use

File 27883, 342  
June 29, 1973

GW 1 11:16 a.m.



SE  
1/4 NW 1/4 Sec. 16  
T. 13 N. R. 27 E. W

INDICATE POINT OF APPROPRIATION  
AND PLACE OF USE, IF POSSIBLE.  
Elevation of spring, if known or estimated \_\_\_\_\_

Owner Truman Land Lessor Co. Inc.  
Address Box 1352 Billings, Montana  
Contractor (if any) \_\_\_\_\_  
Address of Contractor \_\_\_\_\_  
Date Started \_\_\_\_\_ Date Completed \_\_\_\_\_

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

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

3. Depth of water table \_\_\_\_\_

4. Use of the water Stock water

5. Amount of groundwater claimed (in miner's inches or gallons per minute) 10 gal R. min.

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

7. Estimate amount of water used each year \_\_\_\_\_

8. Months of year spring flows 12 months

Signature of Owner Truman Land Lessor Co. Inc.  
By \_\_\_\_\_  
Date June 29, 1973

27983

EW3 #342

STATE OF MONTANA,  
County of Petroleum,

Filed JUN 29 1973

at 11:10 o'clock A.M.

*Oren Barber*  
Director of Records

Deputy

NOTICE OF COMPLETION OF EMINENT DOMAIN PROCEEDINGS

STATE OF MONTANA  
COUNTY OF PETROLEUM  
TOWN OF ...  
...

...

3 GW 3 Revised 1969  
191-1500-10/69

RECEIVED

JUL 2 1973

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

MONTANA DEPARTMENT OF  
RESOURCES AND CONSERVATION  
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

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

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

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

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

For Administrator's Use

File 27875, 335

June 28, 1973

GW 1 10:30 p.m.

Owner Frazer Land Livestock Co. Inc.

Address Box 1352 Billings, Montana

Contractor (if any) \_\_\_\_\_

Address of Contractor \_\_\_\_\_

Date Started \_\_\_\_\_ Date Completed \_\_\_\_\_

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.) Stock water  
Dam 40 yrd wide x 100 yds long  
10' deep

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

3. Depth of water table \_\_\_\_\_

4. Use of the water Stock water

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

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

7. Estimate amount of water used each year \_\_\_\_\_

8. Months of year spring flows 12 months

INDICATE POINT OF APPROPRIATION

AND PLACE OF USE, IF POSSIBLE.

Elevation of spring, if known or estimated \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Signature of Owner

Date

Frazer Land Livestock Co. Inc.  
June 20, 1973

54568



27875

LT. 103 #335

STATE OF MONTANA,  
County of Petroleum,  
Filed JUN 29 1973 19  
at 10:30 o'clock A.M.  
*Orville Barber*  
Director of Records.  
Deputy

RECORD OF COMPLETION OF EXPLORATION AND APPROPRIATE MINERAL ACT

COMPLETION OF EXPLORATION AND  
APPROPRIATE MINERAL ACT

THIS RECORD OF COMPLETION OF EXPLORATION AND APPROPRIATE MINERAL ACT  
IS FILED FOR THE RECORD OF THE STATE OF MONTANA, COUNTY OF PETROLEUM,  
AND IS SUBJECT TO THE PROVISIONS OF THE MINERAL ACT, CHAPTER 10, TITLE 82,  
MONTANA CODE ANNOTATED, 1972 EDITION.

DATE OF COMPLETION: 6/29/73  
TIME OF COMPLETION: 10:30 A.M.  
PLACE OF COMPLETION: PETROLEUM COUNTY, MONTANA  
NAME OF EXPLORER: [illegible]  
ADDRESS OF EXPLORER: [illegible]  
CITY OF EXPLORER: [illegible]  
STATE OF EXPLORER: [illegible]  
ZIP CODE OF EXPLORER: [illegible]  
NAME OF WITNESSES: [illegible]  
ADDRESS OF WITNESSES: [illegible]  
CITY OF WITNESSES: [illegible]  
STATE OF WITNESSES: [illegible]  
ZIP CODE OF WITNESSES: [illegible]

GW 3 Revised 1969  
191-1500-10/69

RECEIVED  
JUL 2 1973

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD  
MONTANA DEPARTMENT OF LAND, WATER, AND CONSERVATION

13-27

County Petroleum

17

# NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

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

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

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

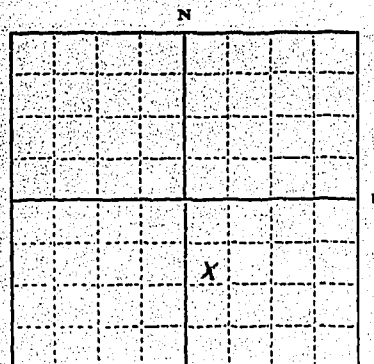
Please answer all questions. If not applicable, so state, otherwise the form may be returned.

For Administrator's Use

File 27878-337

June 29, 1973

GW 1 10-45-N-21



NW 1/4 SE 1/4 Sec. 17

T. 13 N R. 27 E  
S W

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

mated \_\_\_\_\_

Owner Fraser Land, Lumber & Co. Inc.

Address P.O. Box 1352 Billings Montana

Contractor (if any) \_\_\_\_\_

Address of Contractor \_\_\_\_\_

Date Started \_\_\_\_\_ Date Completed \_\_\_\_\_

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

75 yds wide 1/4 mile long 15ft deep

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

3. Depth of water table \_\_\_\_\_

4. Use of the water Stock Water

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

6. If used for irrigation, give number of acres and description of land All land will hold on Allak Creek & surrounding Drainage

7. Estimate amount of water used each year \_\_\_\_\_

8. Months of year spring flows 12 months

Signature of Owner Fraser Land, Lumber & Co. Inc.

By Harry Hunter  
Date June 28, 1973

54571



2787P

FW 3<sup>4</sup> 337

STATE OF MONTANA,  
County of Petroleum, } ss,  
Filed JUN 29 1973 19  
at 10:25 o'clock P. M.  
Dwight Barber  
Director of Records.  
Deputy

It was a matter of time before the Government would be forced to face the fact that the "new" system was not working. The Government would have to face the fact that the "new" system was not working. The Government would have to face the fact that the "new" system was not working.

11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-10

Received from the University of California, San Diego, La Jolla, California 92037.

NOTICE OF COMPLETION OF GROUNDWATER MONITORING  
HOMERAY WYLER HERGENROTTS BOARD  
ADMINISTRATOR OF GROUNDWATER CODE  
STATE OF MONTANA

COAL

RECEIVED

13-27

17

3 GW 3 Revised 1969  
191-1500-10/69

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

County P. H. L. M.

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

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

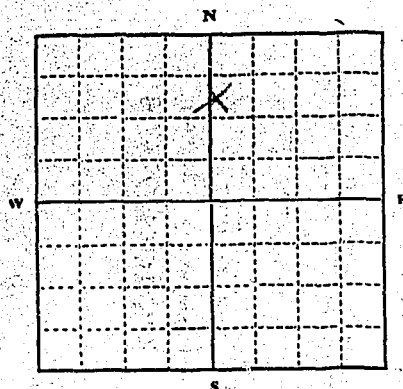
This form to be prepared by contractor (if any), otherwise by the owner.

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

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

For Administrator's Use

File 27827; 336  
June 29, 1973  
GW 1 10:40 A.M.



N 1/2 Sec. 17  
T. 13 S R. 27 E W

INDICATE POINT OF APPROPRIATION  
AND PLACE OF USE, IF POSSIBLE.  
Elevation of spring, if known or estimated \_\_\_\_\_

Owner James Land Lines L. K. C. Co.

Address Box 1352 Billings Mont

Contractor (if any) \_\_\_\_\_

Address of Contractor \_\_\_\_\_

Date Started \_\_\_\_\_ Date Completed \_\_\_\_\_

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

100 yds wide 1/4 mile long 15' deep

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

3. Depth of water table \_\_\_\_\_

4. Use of the water Stock water

5. Amount of groundwater claimed (in miner's inches or gallons per minute) All water Pond well hold

Coning down Alkali Creek Surrounding Drainage

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

7. Estimate amount of water used each year \_\_\_\_\_

8. Months of year spring flows 12 months

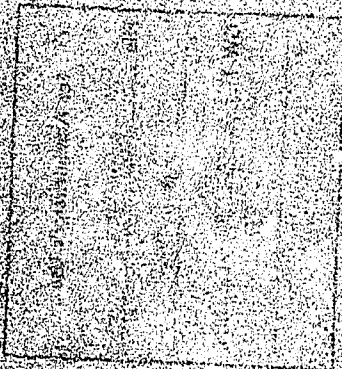
Signature of Owner James Land Lines L. K. C. Co.

Date June 29, 1973

54569

87977

EWB #336



STATE OF MONTANA,

County of Petroleum,

Filed JUN 29 1973

At 10:40 o'clock P.M.

*Orrin Barber*  
Director of Records

Deputy

RECEIVED

JUL 2 1973

13-27

18

3 GW 3 Revised 1969  
191-1500-10/69

STATE OF MONTANA  
DEPARTMENT OF NATURAL  
RESOURCES AND  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

County Petroleum

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

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

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

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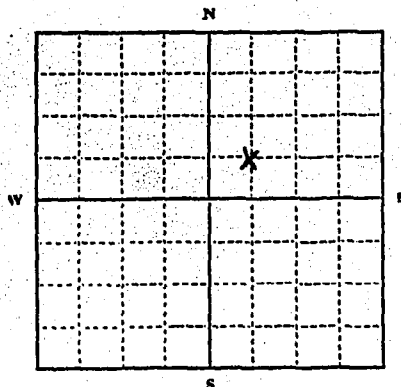
Please answer all questions. If not applicable, so state, otherwise the form may be returned.

For Administrator's Use

File 27887, 346

June 29, 1973

GW 1 11:30 A.M.



SW 1/4 NE 1/4 Sec. 18

T. 13 N R. 27 E  
S W

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

Owner Fraser Land Livestock Co. Inc.

Address P.O. Box 1352 Billings, Mont.

Contractor (if any) \_\_\_\_\_

Address of Contractor \_\_\_\_\_

Date Started \_\_\_\_\_ Date Completed \_\_\_\_\_

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

Drilled

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

Pump

3. Depth of water table \_\_\_\_\_

4. Use of the water Stock Farmstead

5. Amount of groundwater claimed (in miner's inches or gallons  
per minute) 25 gal per min.

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

7. Estimate amount of water used each year \_\_\_\_\_

8. Months of year spring flows \_\_\_\_\_

Signature of Owner Fraser Land Livestock Co. Inc.

Date June 28, 1973

54580

27887

FD 302

STATE OF MONTANA,  
County of Petroleum.

Filed JUN 29 1973 1973

at 11:30 o'clock P.M.

*Orene Barber*  
Director of Records

**Deputy**

THESE HOTELS ARE SEPARATELY OWNED BY DIFFERENT COMPANIES & OPERATED BY SEPARATE MANAGEMENTS.

MINNESOTA WHITE BROTHERS LODGE  
ADMINISTRATIVE OR ORGANIZATIONAL CODE  
STATE OF MINNESOTA

Revised 1981

Indica Cipher 234, 4th Edition (1961, 4th Edition)

County Petroleum

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

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

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

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

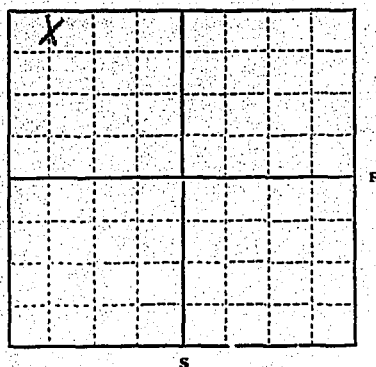
Please answer all questions. If not applicable, so state, otherwise the form may be returned.

For Administrator's Use

File 27881; 340

June 29, 1973

GW 1 1500 ft. 121



NW 1/4 NW 1/4 Sec. 24

T. 13 N R. 27 E  
S W

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

Elevation of spring, if known or estimated

\_\_\_\_\_

Owner Frazer Land Livestock & Inc.

Address Box 1352 Billings Montana

Contractor (if any) \_\_\_\_\_

Address of Contractor \_\_\_\_\_

Date Started \_\_\_\_\_ Date Completed \_\_\_\_\_

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

50 yds wide 150 yds long

10 ft deep

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

3. Depth of water table \_\_\_\_\_

4. Use of the water Stock water

5. Amount of groundwater claimed (in miner's inches or gallons per minute) All water Dam will hold

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

7. Estimate amount of water used each year \_\_\_\_\_

8. Months of year spring flows 12 months

Signature of Owner Frazer Land Livestock & Inc.

Date June 29, 1973

54575



5W3<sup>rd</sup> 540

## Deputy

ALABAMA 35 27674

GW3

File No.

#122

DUPLICATE

T. 13<sup>N</sup> R. 27<sup>E</sup>

County

Petroleum

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JAN 12 1962

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater

Owner

H. W. Tripp

Address

Winnett, Mont

Contractor (if any)

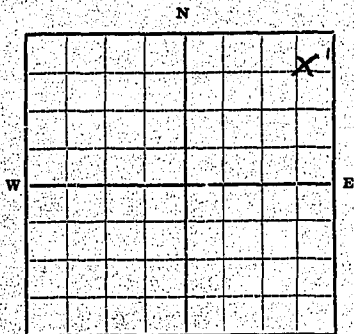
Address of Contractor

Date Started

Date Completed

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

water when applicable. Flowing spring is  
boxed in and piped away  
to tank



NE 1/4 NE Sec. 29 T. 13. R. 27

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

Quantity of water developed and used with explanation of meth-  
od used to measure or estimate such amount. If use is intermit-

tent estimate approximate lengths of periods of use 15 gal.  
per minute flow used for  
watering stock throughout  
the year

Signature of Owner

Tripp Land and Livestock Co.  
by Harry W. Tripp Pres  
Date Jan 4 1962

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

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

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

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

1132

#122  
v. 2

19941

STATE OF MONTANA }  
County of Petroleum }

Filed January 9 1962

at 8:45 o'clock A. M.

Volma R. Merten

County Recorder.

Delma Damm

Deputy

Fee 1<sup>00</sup>

File No. ....

T. 13<sup>N</sup> R. 27<sup>E</sup>

DUPLICATE

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

JUL 8 1964

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

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

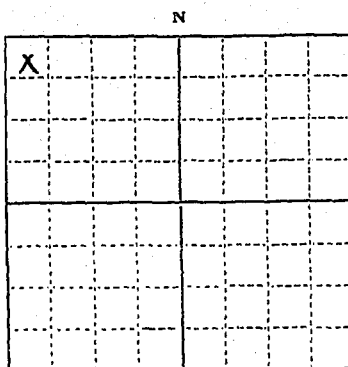
(Elev. above sea level.....)

0 1 Topsoil  
1 15 Yellow sandy clay  
15 56 Dark grey sandy shale  
56 76 Hard sandy shale  
76 79 Hard light grey sandstone  
79 120 Soft grey sandstone  
Water 75 gal.per min.

Owner Stanley Wiggins Address Winnett, MontanaDriller George O. Singley Address Lewistown, MontanaDate of Notice of Appropriation of Groundwater NoneDate well started June 4, 1964 Date Completed June 5, 1964Type of well Drilled Equipment Used Rotary  
(dug, driven, bored or (Churn, drill, rotary or  
drilled) other)Water Use: Domestic ☒ Municipal ☐ Other ☐ Irrigation ☐  
Industrial ☐ Drainage ☐ Stock ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5 5/8"		0	76			
4 3/4"		76	120			
	4 1/2" OD 4 1/2" ID above ground 6.7'	1'	78			



NW 1/4 Sec. 33 T. 13 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 50 feet.Shut-in Pressure for Flowing Well NonePumping Water Level 80 feet at 75 gal. per minute.Discharge in gal. per min. of flowing well NoneHow Tested Air Length of Test 1 hr.

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).....

Sealed at 76' with a wedge rubber packer.

19

Driller's License Number

Driller's Signature George O. Singley

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.

38259



268  
Bed

Deputy

Deputy

## GROUNDWATER INDEX

Page 2 of 2

County Petermann Twp. 13N Rge. 28E

[illegible]



RECEIVED  
OCT 10 1960

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

T. 13 R. 28

County Petroleum

WATER WELL LOG


Owner W J Kiehl Address Winnett Montana

Driller P L Ferguson Address Roundup Montana

Date Started Date Completed 10-3-60

Location: Sec. 3 T. 13 R. 28 1/4 sec. SE3/4

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other:

Casing: 1 ft. to 600 ft. Type steel Size 4 1/2" O D

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 200 to ft. 282 Ft. 495 to ft. 600

Type of screen or perforations

Static Water level, for non-flowing well: 360 feet.

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

Pumping water level 530 feet at 5 gal. per min.

How tested: bailing

Length of test 1 hr.

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

(over)

## Log of Well

[illegible]

3 GW 3 Revised 1969  
2057-1500-1/71

RECEIVED

JUL 2 1973

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

MONTANA DEPARTMENT OF  
RESOURCES AND CONSERVATION  
MONTANA WATER RESOURCES BOARD

County Petroleum

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

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

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

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

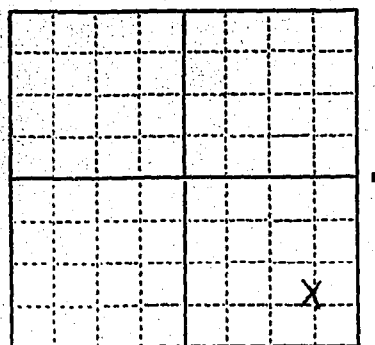
Please answer all questions. If not applicable, so state, otherwise the form may be returned.

For Administrator's Use

File 27889, 349

June 29, 1973

GW 1 11:40 A.M.



SE 1/4 SE 1/4 Sec. 31

T. 13 N R. 28 E  
S W

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

Elevation of spring, if known or esti-

mated \_\_\_\_\_

Owner Fraser Land Livestock Co. Inc

Address Box 1352 Billings Montana

Contractor (if any) \_\_\_\_\_

Address of Contractor \_\_\_\_\_

Date Started \_\_\_\_\_ Date Completed \_\_\_\_\_

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

40 yds wide 150 yds long  
12' deep

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

3. Depth of water table \_\_\_\_\_

4. Use of the water Stock water

5. Amount of groundwater claimed (in miner's inches or gallons  
per minute) All water & Drainage to  
dam site

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

7. Estimate amount of water used each year \_\_\_\_\_

8. Months of year spring flows 12 months

Signature of Owner

Fraser Land Livestock Co. Inc  
By [Signature]  
Date June 29, 1973

54582

27889

LTW3 #348

STATE OF MONTANA,  
County of Petroleum, } ad.

Filed JUN 29 1973 19

At 11:40 o'clock P. M.

Orene Barber  
Director of Records.

Deputy

RECEIVED

13-28

31

3 GW 3 Revised 1969  
2037-1500-1/71

JUL 2 1973

County Petroleum

STATE OF MONTANA  
MONTANA DEPARTMENT OF LAND AND WATER RESOURCES  
ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

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

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

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

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

For Administrator's Use

File 27890, 349

June 29, 1973

GW 1 11:45 A.M.

Owner Truman Land & Livestock Co. Inc.

Address Box 1352 Billings, Montana

Contractor (if any) \_\_\_\_\_

Address of Contractor \_\_\_\_\_

Date Started \_\_\_\_\_ Date Completed \_\_\_\_\_

1. Describe means of obtaining groundwater (as by sub-irrigation, developed spring, drains, etc.) Stock Dam  
30 yds wide 50 yds long 8' deep

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

3. Depth of water table \_\_\_\_\_

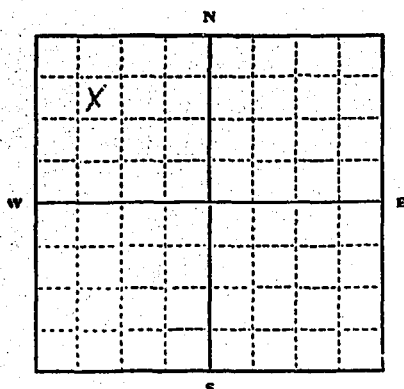
4. Use of the water Stock water

5. Amount of groundwater claimed (in miner's inches or gallons per minute) All drainage to said Dam

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

7. Estimate amount of water used each year \_\_\_\_\_

8. Months of year spring flows 12 months



NN 1/4 NW 1/4 Sec. 31

T. 13 N R. 28 E  
S W

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

mated \_\_\_\_\_

Signature of Owner Truman Land & Livestock Co. Inc.

By Amy Truett  
Date June 29, 1973

54583

27890

EWB #349

STATE OF MONTANA,  
County of Petroleum, ss:

Filed, JUN 29 1973

at 11:45 o'clock A.M.

*Owen Barber*  
Director of Records.

Deputy



File No. 308

RECEIVED

T. 13 R. 28

DUPLICATE

JUN 9 1970

County Petroleum

LOG

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
STATE WATER CONSERVATION BOARDNotice of Completion of Groundwater  
Appropriation by Means of Well  
DEVELOPED AFTER JANUARY 1, 1962

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

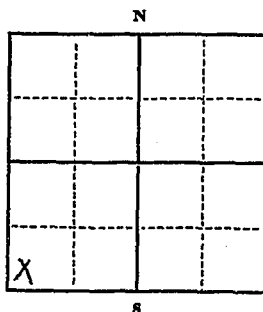
Inc. Box 1352

Owner Fraser Land, Livestock Address Billings, Mont.Driller Munson Drilling Co. Address Grass Range, Mont.Date of Notice of appropriation of groundwater not applicableDate well started March 20, 1970 Date completed April 10, 1970Type 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 ☐Eagle Sand  
various degrees of hardness  
and porosity  
H<sub>2</sub>O indicated  
500'-685'-740'

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.

silty sand to silty shale

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
12"		0	23			
6 1/2"	8 5/8" 22#	0	23			
gal. 4 1/2 6.8#		23	765			

Doc. No. 26594  
Filed for record  
this 9 day of June  
A. D. 19 70 at Billings  
o'clock PM 3:50SW 1/4 Sec. 31 T. 13 R. 28  
Indicate location of well and place of use, if possible. Each small square represents 40 acres.Static Water Level for non-flowing well  
260 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 260 feetat 5 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested balingLength of Test 4 hrs.Remarks: (Gravel packing, cementing, packers, type of shutoff) surfacecemented with 5 sks type 1cave type packers 542'500'-560'-300'-360'-60'

(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

Driller's Signature

46549

26594 W.W. # 308

STATE OF MONTANA,  
County of Petroleum, ss.

Filed JUN 5 1970

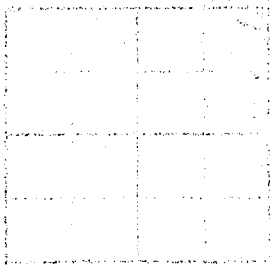
at 3:50 o'clock P. M.

DORIS CARRELL

Director of Records.

*Doris Carrell*  
Deputy

Fee \$2.00



NOTED BY CLERK  
COUNTY CLERK has received the original and copy of the above described instrument and has the same recorded in the records of the County of Petroleum, Montana, Book 11, Page 111.

W.W. # 308

## Page 2 of 2

County Petroleum Twp. 13N Rge. 30E

[illegible]

2057-1500-1/71

RECEIVED

JUL 2 1973

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE  
MONTANA DEPARTMENT OF NATURAL  
RESOURCES AND CONSERVATION  
MONTANA WATER RESOURCES BOARD

County Petroleum

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION WITHOUT WELL

Developed After January 1, 1962

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

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

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

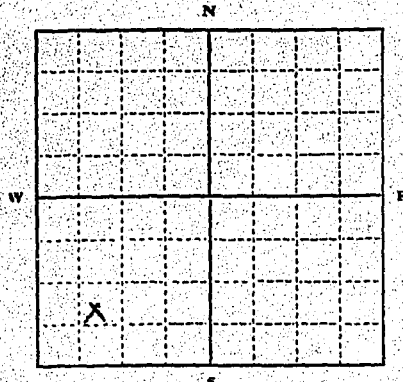
Please answer all questions. If not applicable, so state, otherwise the form may be returned.

For Administrator's Use

File 22894-353

June 29, 1973

GW 1 12.05 p.m.



S.W. 1/4 S. 42. 1/4 Sec. 19

T. 13 N R. 30 E  
S W

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

mated \_\_\_\_\_

Owner Fischer Land & Livestock Co. Inc.

Address Box 1552 Billings, Montana

Contractor (if any) \_\_\_\_\_

Address of Contractor \_\_\_\_\_

Date Started \_\_\_\_\_ Date Completed \_\_\_\_\_

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

40 yds wide 100 yds long 10'  
deep

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

3. Depth of water table \_\_\_\_\_

4. Use of the water Stock water

5. Amount of groundwater claimed (in miner's inches or gallons  
per minute) All drainage to said  
dam

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

7. Estimate amount of water used each year \_\_\_\_\_

8. Months of year spring flows 12 months

Signature of Owner Fischer Land & Livestock Co. Inc.

Date June 29, 1973

54587

27894

GW 353

STATE OF MONTANA,  
County of Petroleum, ss.

Filed JUN 29 1973 19

at 1:05 o'clock P. M.

Orville Barber  
Director of Records

Deputy



## GROUNDWATER INDEX

Page 2 of 2

County Petroleum Twp. 12N Rge. 25E

[illegible]

File No. ....

TRIPLICATE

T. 12 N. R. 25 E

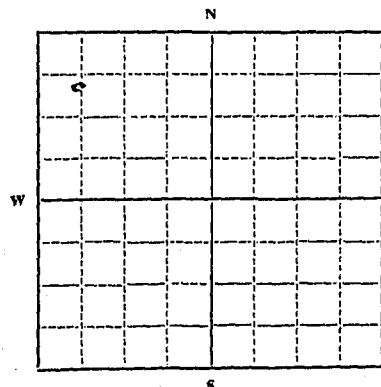
County Petroleum

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JUN 26 1962

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

1. Emil Zimmerman, of Box 282 Roundup  
(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 Sec 20 T 12 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.

stock water

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

Sept. 18, 1959  
Approx. 9 months  
year

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

3 2/3 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 applicable

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

Cylinder pump & electric motor

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

Started & completed Sept. 11, 1959  
Pump & tank installed following week Sept. 18, 1959

8. The depth of water table.

twelve 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.

twenty feet deep with six inch pipe & three  
inch cylinder pump & electric motor

10. The estimated amount of groundwater withdrawn each year.

175,000 Gal.

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

not applicable

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

not applicable

Signature of Owner

Emil Zimmerman  
Date Jan. 22, 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.

20281

156  
U.R.m.

STATE OF MONTANA, ss.  
County of Petroleum.

Filed June 22 1962

at 10:10 o'clock A. M.

Velma R. Marten  
County Recorder.

Deputy

File No. ....

TRIPLICATE

T. 12 R. 25

County Petroleum

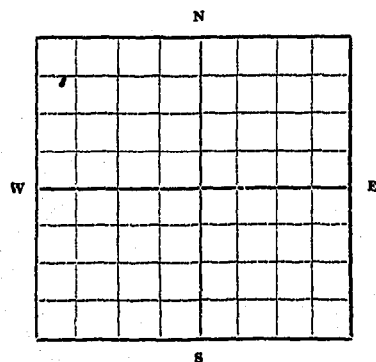
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JUN 24 1962

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

STATE ENGINEER

1. Emil Zimmerman of Box 282 Roundup  
(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 Sec. 20 T. 12 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 groundwater
3. Date or approximate date of earliest beneficial use; and how continuous the use has been July 1958  
Continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute) two 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 applicable
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal electric pump pressure system
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Sept. 15 1957 July 1958
8. The depth of water table twenty 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 twenty feet deep with 4 inch pipe
10. The estimated amount of groundwater withdrawn each year 18,750 Gal.
11. The log of formations encountered in the drilling of each well if available not applicable
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record not applicable

Signature of Owner

Date July 22, 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.

20280

155  
v.R.m.

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

Filed June 22 1962

at 10:05 o'clock A M.

Wesley R. Merten  
County Recorder.

Therrell



20917



File No. 250T 12N R 25E

DUPLICATE

County Petroleum

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

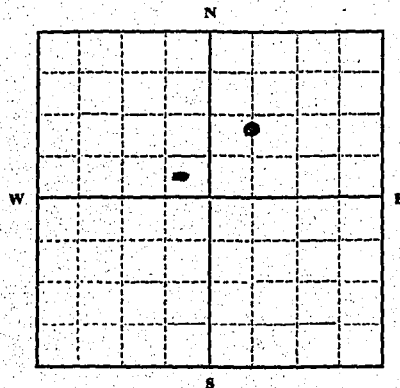
RECEIVED  
JAN 3 1964  
STATE ENGINEER

Notice of Completion of Groundwater Appropriation  
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater UnknownOwner D. E. Kimmel Address RoundupContractor (if any) N/AAddress of Contractor N/ADate Started N/A Date Completed N/A

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



NW 1/4 Sec. 22 T 12N R 25E  
Indicate point of appropriation  
and place of use, if possible.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use.

Used as stock water 12 months per year  
and not measured.

Signature of Owner Donald E. KimmelDate 31 Dec. 1963

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

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

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

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

55715

20915

22412

STATE OF MONTANA  
County of Petroleum,

Filed DEC 31 1963

at 2:45 o'clock P.M.

Bryant B. Bogle  
Director of Records

2:00 Deputy

File No. 251T. 12N R. 25E

DUPLICATE

County Petroleum

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

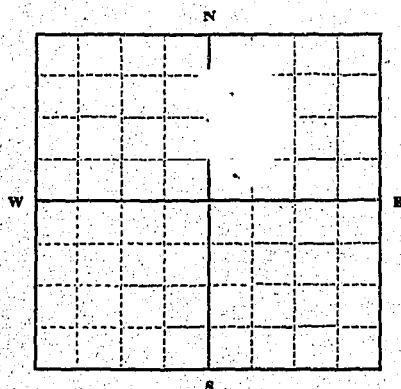
RECEIVED  
JAN 3 1963  
STATE ENGINEER

**Notice of Completion of Groundwater Appropriation  
Without Well**

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater UnknownOwner C. E. Kimmel Address RoundupContractor (if any) N/AAddress of Contractor N/ADate Started N/A Date Completed N/A

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



NE 1/4 Sec. 29 T12N R25E

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

Quantity of water developed and used with explanation of method  
used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use.

Used as stock water 12 months per yearand not measured.Signature of Owner Donald E. KimmelDate 31 Dec. 1963

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

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

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

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

20916



22413

STATE OF MONTANA,  
County of Petroleum.

Filed DEC 31 1962

at 2:50 p.m. P.H.

*Donald L. Smith*  
Director of Records

2<sup>nd</sup> Deputy

File No. ....

DUPLICATE

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

T. 12 R. 25

County Petroleum

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JUN 26 1962

STATE ENGINEER

Notice of Completion of Groundwater Appropriation  
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater.....

Owner Emil Bannister Address Randwy

Contractor (if any) .....

Address of Contractor .....

Date Started..... Date Completed.....

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

the surface of the ground  
is held in a reservoir  
and used for stock water

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use. the

have no way of measuring  
the water. It is used  
from April 1 - Dec. 30

Signature of Owner Emil Bannister

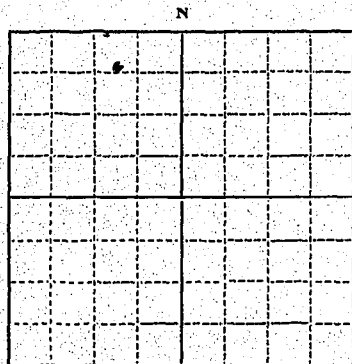
Date Jan 22, 1962

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

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

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

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



NEL NW 1/4 Sec. 30 T. 12 R. 25  
Indicate point of appropriation  
and place of use, if possible.

File No.

DUPLICATE

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

T. 12 R. 20

County

Petroleum

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

RECEIVED  
JUN 26 1962

STATE ENGINEER

Notice of Completion of Groundwater Appropriation  
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater

Owner

Emil B. Bannister

Address

Round Bay

Contractor (if any)

Address of Contractor

Date Started

Date Completed

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

Water rises to the surface of the ground is held in a reservoir and used for stock water.

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use.

We have a way of measuring the water. It is used from April 1 - Dec. 30.

Signature of Owner

Emil B. Bannister

Date

June 22, 1962

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

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

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

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



20282

157

U.P.N.

STATE OF MONTANA  
County of Petroleum

Filed

June 22 1962

10:15 o'clock A.M.

Wilma R. Menten  
County Recorder

Deputy

File No. ....

DUPLICATE

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

T. 12 R. 25

County Butte

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

STATE ENGINEER

Notice of Completion of Groundwater Appropriation  
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater.....1882

Owner Emil Zimmerman Address Roundup

Contractor (if any) none

Address of Contractor .....

Date Started.....1882 Date Completed.....1882

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

overflow pipe in spring  
Water rises to surface of  
ground

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use. Flows

1400 gal per day measured  
at time through overflow pipe  
used for stock water April-  
thru December

Signature of Owner Emil Zimmerman

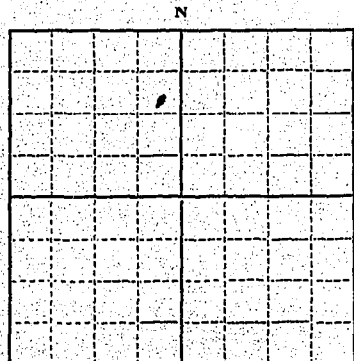
Date June 22, 1962

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

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

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

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



NW 1/4 Sec. 30, T. 12, R. 25

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



File No. ....

DUPLICATE

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

T. 12 R. 25

County of Beaumont

JUN 26 1962

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

STATE ENGINEER

# Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237, Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1882

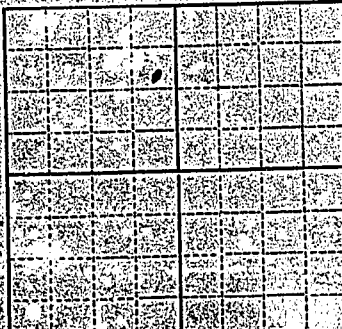
Owner Emil Bernier Address Ranch

Contractor (if any) none

Address of Contractor

Date Started 1882 Date Completed 1882

Describe means of obtaining groundwater without a well, as by sub-irrigation and other natural processes. Include depth to water when applicable. Water flows from  
overflow pipe in spring  
Water runs to surface of  
ground



Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent, estimate approximate lengths of periods of use. Flow  
1400 gal per day measured  
timed through overflow pipe  
used for stock water April  
thru December

Sec 30 T 12 R 25

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

Signature of Owner Emil Bernier

Date June 22, 1962

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

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

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

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

20283

158  
U. R. M.

STATE OF MONTANA  
County of Petroleum

Filed June 22 1962

at 10:20 o'clock A. M.

Helma R. Montan  
County Recorder

\_\_\_\_\_  
Name

File No. 254

DUPLICATE

T. 12 N. R. 25 E. 34  
County Petroleum

STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

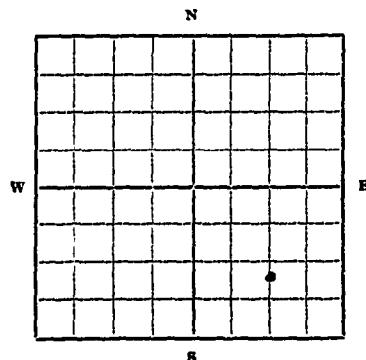
RECEIVED  
JAN 9 1963

**Declaration of Vested Groundwater Rights**

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. David Iverson of Roundup  
(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:



NE 54 34 JAN 25 E  
1/4 Sec. T. 12 N. R. 25 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 used since 1910 by former owner and present owner continuously
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 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 No irrigation
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Natural spring - has been boxed and drawn off
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Not a well - a spring - has been developed since 1910
8. The depth of water table 3 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 previously described
10. The estimated amount of groundwater withdrawn each year 20 gallon per min.
11. The log of formations encountered in the drilling of each well if available No log
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 David Iverson  
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.

20919

22416

STATE OF MONTANA,  
County of Petroleum, } ss.

Filed DEC 31 1963 19

at 5:25 o'clock P. M.

Donny D. Dingle  
Director of Records

2.12

Deputy

File No. ....

T. 12 N. R. 25

DUPLICATE

County PETROLEUM

LOG

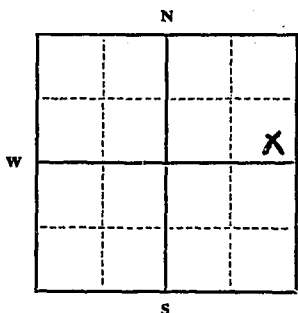
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEERNotice of Completion of Groundwater  
Appropriation by Means of Well  
DEVELOPED AFTER JANUARY 1, 1962

(Under Chapter 237, Montana Session Laws, 1961)

Owner DON KIMMEL Address ROUNDUP, MONTDriller JOE KOMBOL Address ROUNDUP, MONTDate of Notice of appropriation of groundwater NONEDate well started 11-29-65 Date completed 11-30-65Type of well DRILLED Equipment used CHURN  
(Dug, Driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☒ Municipal ☐ Stock ☐ Irrigation ☐  
Industrial ☐ Drainage ☐ Other ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
9"	8" 22 lb	0	37	6" SLOTS	8	27

Static Water Level for non-flowing well 9 feet.

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

Pumping Water Level 12 feet  
at 30 gal. per minute.

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

How Tested BAILERLength of Test 2 HR

Remarks: (Gravel packing, cementing, pack-

ers, type of shutoff) .....

SE 1/4 NE Sec. T. 12 R. 25

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

CEMENTED BY OWNER

(Continue on reverse side)

USE: 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.

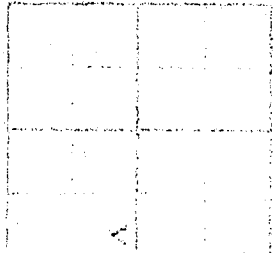
This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, tissue copy to be retained by driller.

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

95  
Driller's License NumberJoe Kimmel  
Driller's Signature

40351

\$2.00

[illegible][illegible]

1990

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1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Lichtenthaler (1987). The total chlorophyll content was determined by the method of Arar and Cook (1980). The carotenoid content was determined by the method of Lichtenthaler and Weil (1983). The total phenolic content was determined by the method of Singleton and Rossi (1965). The total flavonoid content was determined by the method of Zhishen et al. (1999). The total protein content was determined by the method of Lowry et al. (1951). The total amino acid content was determined by the method of Kohn and Wootton (1982). The total nucleic acid content was determined by the method of Burton (1956). The total lipid content was determined by the method of Folch et al. (1957). The total carbohydrate content was determined by the method of Dubois and Gilles (1950). The total mineral content was determined by the method of Ashby et al. (1984). The total organic acid content was determined by the method of Saito and Teraoka (1990). The total alkaloid content was determined by the method of Kohn and Wootton (1982). The total saponin content was determined by the method of Kohn and Wootton (1982). The total tannin content was determined by the method of Kohn and Wootton (1982). The total terpenoid content was determined by the method of Kohn and Wootton (1982). The total steroid content was determined by the method of Kohn and Wootton (1982). The total glycoside content was determined by the method of Kohn and Wootton (1982). The total alkaloid content was determined by the method of Kohn and Wootton (1982). The total saponin content was determined by the method of Kohn and Wootton (1982). The total tannin content was determined by the method of Kohn and Wootton (1982). The total terpenoid content was determined by the method of Kohn and Wootton (1982). The total steroid content was determined by the method of Kohn and Wootton (1982). The total glycoside content was determined by the method of Kohn and Wootton (1982).

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24. *Leptocarpus*



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2. 4. 1971

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Figure 2

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[illegible]

1

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## GROUNDWATER INDEX

Page 2 of 2

County Petrology Twp. 12 N Rge. 26 E

[illegible]

File No. ....

DUPLICATE

12 12N R.26E

County Petroleum

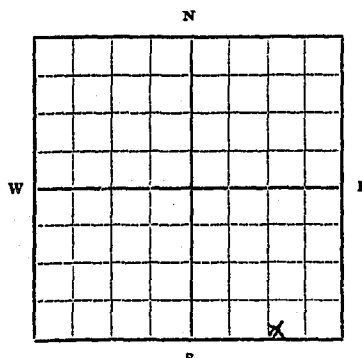
STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

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

RECEIVED  
FEB 6 1962

STATE ENGINEER

1. Andrew and Susan Sharkey, of Winnett  
(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:



SE 1/4 Sec. 1 T. 12N 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 stock water and irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1914 and used continuously for 48 years. I have been using the water for irrigation and stock water my own and the appropriators.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 40 gallons per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof SE 1/4 SE 1/4 Sec. 1 T. 12N R. 26E  
M.P.M. owned by appropriators
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal A submersible pump located in the SW corner SE 1/4 SE 1/4 Sec. 1 T. 12N R. 26E
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Commenced and completed in 1914
8. The depth of water table Approximately 30 or 40 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater A drilled well, with an 6 inch hole 180 feet deep with a submergible pump
10. The estimated amount of groundwater withdrawn each year When in use 500,000 gallons
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 not applicable

Andrew Sharkey

Signature of Owner

Susan E. Sharkey

Date Feb - 2 - 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.

1356

#136  
VIR

Filed February 2 1962  
at 3:10 o'clock A M.

at 3:10 o'clock A M.

Velma R. Merlen

County Recorder.

County Recorder.  
Velma Dawn  
Deputy

Denote

GW3

File No. #121

DUPLICATE

Surface Water  
or G.W.?T. 12 R. 26County PetroleumRECEIVED  
JAN 12 1962STATE OF MONTANA  
ADMINISTRATOR OF GROUNDWATER CODE  
OFFICE OF STATE ENGINEER

STATE ENGINEER

**Notice of Completion of Groundwater Appropriation Without Well**

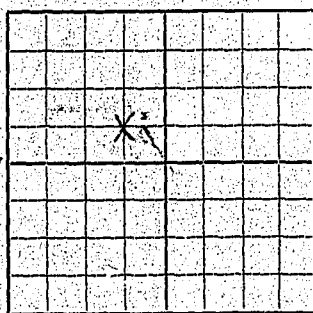
(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater Dec. 15, 1904Owner Matel E. Redd Address Winnett, MontanaContractor (if any) none

Address of Contractor

Date Started Date Completed

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

natural flowing waterSE  $\frac{1}{4}$  NW Sec. 1 T12 R 26

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

Quantity of water developed and used with explanation of method used to measure or estimate such amount. If use is intermittent estimate approximate lengths of periods of use

flows continuously

Signature of Owner

Matel E. ReddDate December 29, 1961

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

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

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

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

1131

#121  
V.D.

19940

STATE OF MONTANA  
County of Petroleum

Filed

*January 9, 1962*

at

*8:40*

o'clock

A. M.

Valma H. Merton

County Recorder

*Valma H. Merton*

*Rec-100*

Form No. 18  
8-60

T. 12 R. 26 E  
County Petroleum

MONTANA BUREAU OF MINES AND GEOLOGY  
Butte, Montana

RECEIVED  
NOV 9 1961

WATER WELL LOG

✓		

Owner R. M. Bowers Algo STATE ENGINEER Address Brundage, Mont.  
Driller Wellman & Munson Drilling Co. Address Great Falls, Mont.  
Date Started Aug. 29-1961 Date Completed Aug. 31-1961  
Location: Sec. 5 T. 12 R. 26 E  $\frac{1}{4}$  sec. NW  $\frac{1}{4}$  NW  $\frac{1}{4}$

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

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

Casing: 0 ft. to 115 ft. Type galvanized Size 5"

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

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

Perforated or Screened: Ft. 10 to ft. 13 Ft. 55 to ft. 61

Type of screen or perforations slotted

Static Water level, for non-flowing well: 40 feet.

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

Pumping water level 90 feet at 1 gal. per min.

How tested: Bailer

Length of test adequate

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

(over)