

File No.

T 17^N R 12^E

DUPLICATE

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

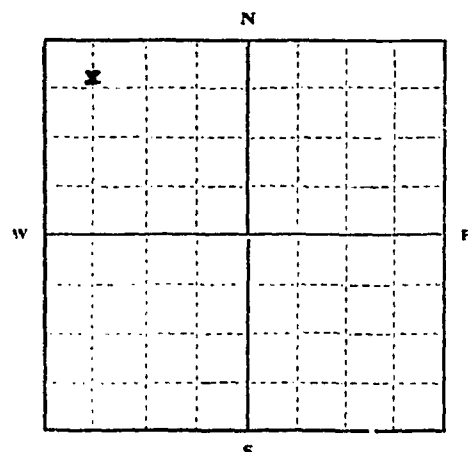
RECEIVED
JAN 15 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Myron C. Baker, of Stanford, Montana
(Name of Appropriator) (Address) (Town)
County of Judith Basin State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 Sec. 22 T. 17 R. 12

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 Used for
stock water.
3. Date or approximate date of earliest beneficial use; and how continu-
ous the use has been May 20, 1963 began using. Used every
day.
4. The amount of groundwater claimed (in miner's inches or gallons
per minute) 14 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
no
6. The means of withdrawing such water from the ground and the loca-
tion of each well or other means of withdrawal withdrawn with
1/2 horse jack pump
7. The date of commencement and completion of the construction of the well, wells, or other works for with-
drawal of groundwater commenced May 18, 1963 completed May 20, 1963
8. The depth of water table 17 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 drilled 6 3/4 inches, cased with 4 1/2 inch plastic
approx. fifty feet deep.
10. The estimated amount of groundwater withdrawn each year 40000 gal.
11. The log of formations encountered in the drilling of each well if available to 15 ft. gravel,
15 to 50 ft. blue shale layers of bentonite.
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

Myron C. Baker
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.

32822

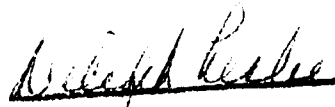
File No. 946

Myron C. Baker

Sec. 22-17-12

State of Montana
County of Judith Basin

Filed this 31st day of
December A. D. 1963 at
2:48 o'clock P.M.


County Clerk.

Fee \$2.00 Paid.

File No.

T. 17 R. 12

DUPLICATE

County Judith Basin

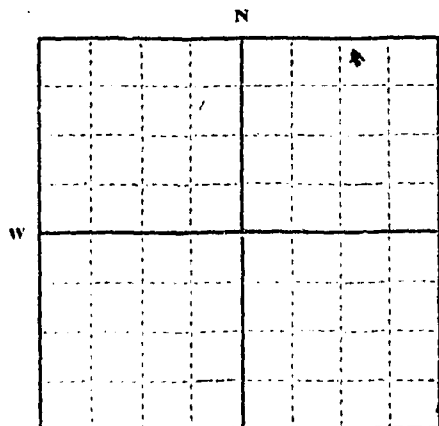
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater 1920Owner Aaro Samson Address Stanford, Montana
 Contractor (if any) Potter
cleared out himself in 1959
 Address of Contractor Lewistown, Montana
Date Started 1920 Date Completed 1959

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. Backhoe machine dug to a depth of about 8 feet.



NW 1/4 NE 1/4 S
 1/4 Sec 22 T17 R12
 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. Not known,
used for cattle drinking.

Signature of Owner Aaro SamsonDate December 26, 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.

32657

File No. 222 380

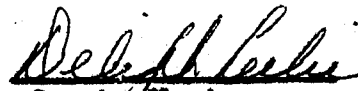
Aaro Samson

MSA/MSX Sec. 22-17-12

State of Montana

County of Judith Basin

Filed this 26th day of
December A. D. 1963, at
2:35 P. M.


County Clerk

Fee \$2.00 Paid.

T. 17 R. 12

County Judith Basin

RECEIVED

JUL 12 1958

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

STATE ENGINEER

WATER WELL LOG

Owner Clayton Potter Address Stanford, Montana

Driller O. G. Thatcher Address Stanford, Montana

Date Started July 5, 1958 Date Completed July 12, 1958

Location: Sec. 28 T. 17 R. 12 1/4 sec. NE 1/4 SE 1/4

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: 0 ft. to 63 ft. Type Galvanized Size 4"

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: Pump 4 gallons per minute at 55 feet _____ feet.

Shut-in pressure, for flowing well: Artesian flow about one quart over the top per minute
lb./sq. in. on: _____ (date)

Pumping water level 55 feet at 4 gal. per min.

How tested: By Bailing

Length of test 4 or 5 hours

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

(over)

Log of Well

[illegible]

Form No. 18
8-60

T. 17 R. 12

County Judith Basin

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

<input checked="" type="checkbox"/>		

Owner Walter Myllicaki Address Stanford, Montana

Driller Thatcher Drilling Co. Address Stanford, Montana

Date Started Sept. 12, 1961 Date Completed Sept. 20, 1961

Location: Sec. 28 T. 17 R. 12 $\frac{1}{4}$ sec. NE $\frac{1}{4}$

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: 0 ft. to 558 ft. Type Galv. Size 2"

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. 567 to ft. 587 Ft. _____ to ft. _____

Type of screen or perforations Last 20 feet is perforated pipe

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

Shut-in pressure, for flowing well: 10 lb./sq. in. on: Sept. 20, 1961
(date)

Pumping water level _____ feet at _____ gal. per min.

How tested: Natural Flow

Length of test _____

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

(over)

Log of Well

[illegible]

File No. _____

T. 17 R. 12

DUPLICATE

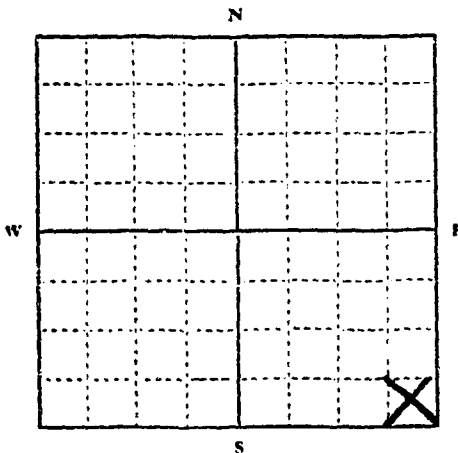
County Judith Basin

STATE OF MONTANA
 ADMINISTRATOR OF GROUNDWATER CODE
 OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I, Calvin and/or Gladys Richwine of Stanford (Name of Appropriator) (Address) (Town)
 County of Judith Basin State of Montana
 have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec. 30 T. 17 R. 12

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
domestic, livestock and irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been
1918--continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute). ten 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
Four or five acres around buildings
SE 1/4 of SE 1/4 Section 30 T. 17 R. 12
Calvin and / or Gladys Richwine are the owners.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
Electric pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. Prior to 1918
8. The depth of water table. Nineteen feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater.
type--dug well with concrete casing
Depth--28 feet
Size-- 48 by 32
10. The estimated amount of groundwater withdrawn each year. Five Hundred Thousand Gallons
11. The log of formations encountered in the drilling of each well if available.
not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.
Land described above was purchased from Charles and William Handford in
July of 1958.

Signature of Owner

Gladys Richwine
Calvin Richwine

Date November 17, 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.

59887

649

Calvin and/or Gladys Richwine
of Stanford, Montana

State of Montana
County of Judith Basin

Filed this 19th day of
November A.D. 1965 at 8:10
A.M.


County Clerk.

Fee \$2.00 Paid.

GROUNDWATER INDEX

Page of

County Jeff Davis Twp. 17N Rge. 13E

[illegible]

File No.

DUPLICATE

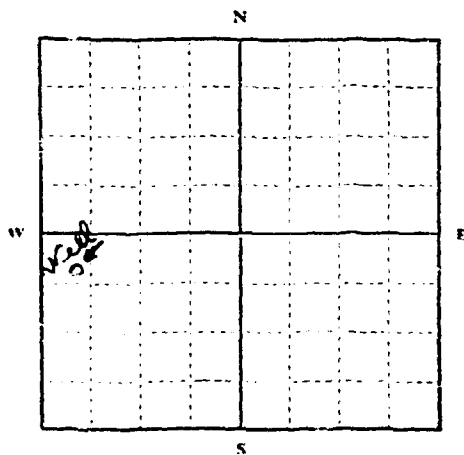
T. 17^N R. 13^E
County Judith BasinSTATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

DEC 10 1962

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. John F. Barber of P. Nail Denton
 (Name of Appropriator) (Address) (Town)
 County of Judith Basin State of Montana
 have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

NW 1/4 SW Sec. 2, T. 17^N R. 13^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. Used for the home, irrigating garden & lawn & for livestock use
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. 1914 used for home & stock water ever since
4. The amount of groundwater claimed (in miner's inches or gallons per minute). 6 gal per minute - for 24 hr per day
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. This water is used to irrigate a lawn & garden for the Mr. & Mrs. John F. Barber residence
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. This water is withdrawn by a jet pump & piped to the house & other buildings on the farm & is located in the NW 1/4 of SW 1/4 Sec. 2, T. 17^N R. 13^E
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. This well was dug in 1914 & pumped with a windmill until about 1948, then a new house was built & the water was piped into the new house.
8. The depth of water table. 30 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. This is a dug well about 4 ft. in diameter & 35 ft. deep
10. The estimated amount of groundwater withdrawn each year. 125,000 gal
11. The log of formations encountered in the drilling of each well if available. None available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner

John F. Barber
 Date Nov 26, 1963

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

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

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

#266

John P. Barber

NW SW Sec. 2-17-13

State of Montana

County of Judith Basin

Filed ~~for~~ this 26th day
of November, A. D. 1963 at
11:15 o'clock A.M.

Robert H. Lester
County Clerk.

61 Springs

File No.

T. R.

DUPLICATE

County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

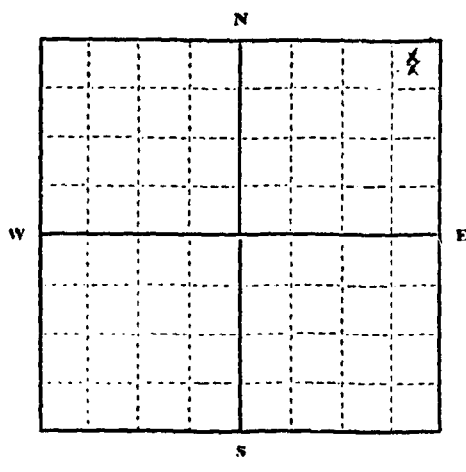
RECEIVED
JAN 15 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Margaret Playhouse, of Hesston
(Name of Appropriator) (Address) (Town)
County of Judith State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 6 T. 17 R. 13

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, irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. unknown
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 50 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. NE 1/4 S. 6 T. 17 R. 13
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal. Spring
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater. spring
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. done constructed below spring surface
10. The estimated amount of groundwater withdrawn each year. 50 gal per min.
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

Signature of Owner Margaret Playhouse
Date Dec 30, 1963

Three copies to be filed by the owner with the County Clerk and Recorder of the county in which the well is located.
Please answer all questions. If not applicable, so state, otherwise 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.
32718

442

VESTED GROUNDWATER RIGHTS
MARGA ET FLOYD

NE Sec. 6-17-13

122191

State of Montana
County of Judith Basin
Filed for record this 30th
day of Dec. A.D. 1963 at 10:45
o'clock A.M.
Delight Leslie, Clerk and Sec.

by _____, Dep.

Fee \$2.00 pd.

File No.

T. 17 R. 13

DUPLICATE

County Beaver

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

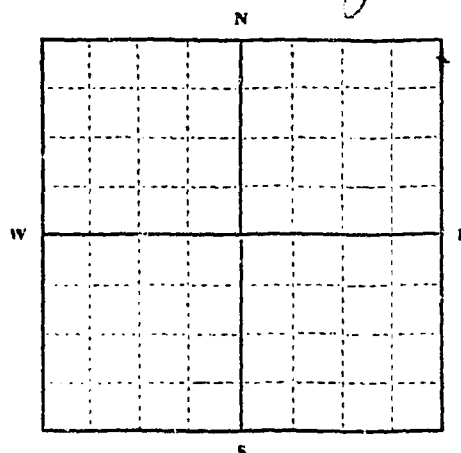
RECEIVED
JAN 15 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Margaret Pleyher of Beerton
(Name of Appropriator) (Address) (Town)
County of Beaver State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 6 T. 17 R. 13

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 irrigation
household, stock, weed spraying
3. Date or approximate date of earliest beneficial use; and how continu-
ous the use has been 1913, Continuous

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

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

NE 1/4 S. 6
T. 17 R. 13

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

pump

7. The date of commencement and completion of the construction of the well, wells, or other works for with-
drawal of groundwater 1913

8. The depth of water table 15 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 20 ft. deep 5 ft. Dia.

10. The estimated amount of groundwater withdrawn each year unknown

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

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

Signature of Owner Margaret Pleyher
Date Dec 30, 1963

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

Please answer all questions. If not applicable, so state, otherwise 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.

32719

#443

VESTED GREENGLASS RIVERS
MARGARET FLOYD

NE Sec. 6-17-13

122192

State of Montana
County of Judith Basin

Filed for record this 30th
day of Dec. A.D. 1963 at 11:00
o'clock A.M.

Delight Leslie, Clerk and Rec.

by _____ Dep.

Fee \$2.00 pd.

File No.

T. ~~17~~ ¹² R. ~~12~~ ¹² E. E.

TRIPPLICATE

County South Park

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Notice of Completion of Groundwater Appropriation
Without Well

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater June 31, 1973
Owner John F. Barber Address Denton, Mondak
Contractor (if any) none

Address of Contractor

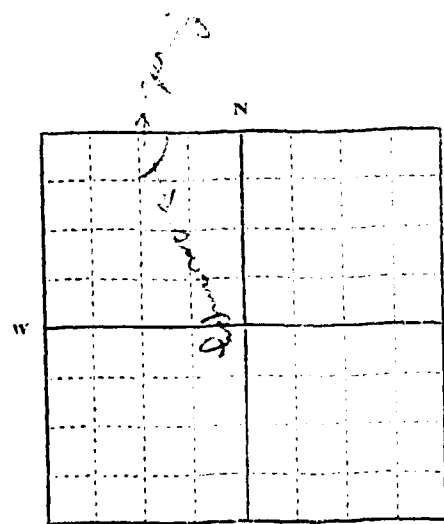
Date Started June 30 Date Completed June 30

Describe means of obtaining groundwater without a well "as by sub-irrigation and other natural processes". Include depth to water when applicable. This spring is about 6' deep & runs through a pipe 2" in diameter by gravity. It is running good part of the season water runs from the 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. Day

spring water - used for
irrigation of pipe
and for



NW NE Sec. 10 T. 17 N. R. 12 E

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

709

Study of 24
A.D. 19 73 at 2:35
o'clock PM

Signature of Owner John F. Barber

Date June 21, 1973

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.

#769

WATER APPROPRIATION
DEVELOPED SPRING

BARBER, JOHN F.
Denton, Mt.

SWANSEA OF Sec. 10,
Twp. 17N, R 13 E

STATE OF MONTANA
County of Judith Basin

Filed for record this 21st day
of June A.D. 1973 at 3:30 p.m.

Delight Leslie Co.Clerk

E. M. [Signature] Deputy

File No. _____

T. 14 R. 3E

DUPLICATE

County WALWORTH

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

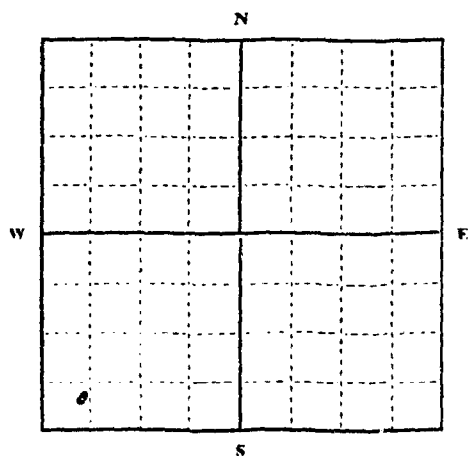
RECEIVED
JAN 15 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Harry P. Morse Jr., of Rt 2 ELKHORN
(Name of Appropriator) (Address) (Town)
County of WALWORTH State of WISCONSIN
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 Sec. 12, T. 14N, R. 3E

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. house use and stock water
3. Date or approximate date of earliest beneficial use; and how continuous the use has been. approx. 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 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3725, 3726, 3727, 3728, 3729, 3730, 3731, 3732, 3733, 3734, 3735, 3736, 3737, 3738, 3739, 3740, 3741, 3742, 3743, 3744, 3745, 3746, 3747, 3748, 3749, 3750, 3751, 3752, 3753, 3754, 3755, 3756, 3757, 3758, 3759, 3760, 3761, 3762, 3763, 3764, 3765, 3766, 3767, 3768, 3769, 3770, 3771, 3772, 3773, 3774, 3775, 3776, 3777, 3778, 3779, 3780, 3781, 3782, 3783, 3784, 3785, 3786, 3787, 3788, 3789, 3790, 3791, 3792, 3793, 3794, 3795, 3796, 3797, 3798, 3799, 3800, 3801, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3809, 3810, 3811, 3812, 3813, 3814, 3815, 3816, 3817, 3818, 3819, 3820, 3821,

File No. 624

Henry P. Morse

Sec. 12-17-13

State of Montana

County of Judith Basin

Filed for record this

31st day of Dec. A. D. 1963

at 4:07 P. M.


County Clerk

Fee \$2.00 Paid.

File No.

T. 17 R. 13

DUPLICATE

County, Judith Basin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

JAN 15 1964

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner: Francis D. Hess Address: Denton, Montana

Driller: George F. Askin Address: Miles City, Montana

Date of Notice of Appropriation of Groundwater

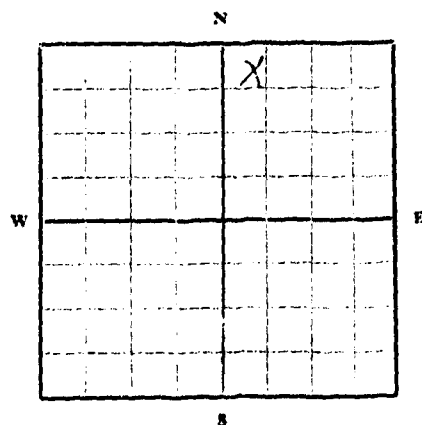
Date well started May 19, 1962 Date Completed Feb. 1, 1963

Type of well: Drilled (dug, driven, bored or drilled) Equipment Used: Churn & Rotary (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" I.D.	0	32	5/16" round holes, 4 to the foot with 3 rows perforated 400 feet.		
7"	5" I.D.	0	1786			
4"	3" I.D.	1786	2160			
5/16" thick oil well casing was used through out this well						



NW 1/4 Sec. 11, T. 17, R. 13
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 feet.

Shut-in Pressure for Flowing Well 35 lbs.

Pumping Water Level 200 feet at 15 gal. per minute.

Discharge in gal. per min. of flowing well 15 gal.

How Tested: watch & gal. measure length of Test 24 hrs.
60 days for pumping rate

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) 8" casing cemented through ground water level. 5" casing cemented with 100 sacks cement. 400 feet 3" casing sealed with tamped lead seal.

Driller's License Number 50

Driller's Signature George F. Askin

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 School of Mines and Quadruplicate for the Appropriator.

32708

#432

WATER COMPLETION
FRANCIS D. HESS

NWNE Sec. 14-17-13

122181

State of Montana
county of Judith Basin

Filed for record this
30th day of Dec. A.D. 1963
at 9:45 o'clock A.M.
Delight Leslie, Clk. & Rec.

by Betty C. C. C. De

Fee \$2.00 pd.

1390 - 1420
1420 - 1450

Shale, glauconitic as above.

Shale, dark gray, lumpy, bentonitic, slightly carbonaceous, silty
locally, few streaks bentonitic.

Shale, dark gray, lumpy, bentonitic, slightly carbonaceous, silty
locally, few streaks bentonitic.

FRANCIS HESS WATER WELL

NE, sec. 14-17N-13E
Judith Basin County, Montana

SAMPLE DESCRIPTION

1090 - 1120	Shale, gray, lumpy, silty, bentonitic, streaks silty bentonite.
1120 - 1150	Shale, dark gray, gray, lumpy, bentonitic, silty and sandy, streaks bentonite.
1150 - 1180	Shale, gray, lumpy, bentonitic, slightly silty and sandy, streaks bentonite.
1180 - 1190	Shale, gray, lumpy, bentonitic, silty, streaks bentonite.
1180 - 1210	Shale as above.
1210 - 1270	No samples.
1270 - 1300	Shale, gray, lumpy, bentonitic, silty, slightly sandy, streaks micaceous bentonite.
1300 - 1330	No samples.
1330 - 1370	Shale, gray, lumpy, bentonitic, silty, carbonaceous?, streaks bentonite.
1360 - 1390	Shale, gray, lumpy, bentonitic, slightly silty, slightly glauconitic, few Inoceramus fragments, pyrite, streaks bentonite.
1390 - 1420	Shale, glauconitic as above.
1420 - 1450	Shale, dark gray, lumpy, bentonitic, slightly carbonaceous, silty locally, few streaks bentonitic.
1450 - 1500	Shale, black, gray, splintery, bentonitic, micaceous, streaks silty bentonite.
1500 - 1520	No samples.
1520 - 1550	Claystone, red, gray-brown, green, lumpy, slightly silty. Driller redbeds at 1525.
1550 - 1580	Claystone, gray, red, tan, lumpy, silty, abundant bentonite.
1580 - 1610	Claystone, red, gray-brown, lumpy, bentonitic.
1610 - 1657	Claystone as above.
1657 - 1660	No samples.
1660 - 1680	Claystone, red, brown, purple, lumpy, bentonitic.
1680 - 1770	No samples.

1610 - 1657	Claystone as above.
1657 - 1660	No samples.
1660 - 1680	Claystone, red, brown, purple, lumpy, bentonitic.
1680 - 1770	No samples.
1770 - 1850	Sandstone, white, cream, -0.1 to 0.2mm, average 0.1mm, subrounded, dolomitic, grading to siltstone, much cream, subchalky, much red, gray-green claystone, few loose 0.5mm rounded sand grains.
1850 - 1890	No samples.
1890 - 1920	Claystone, red, brown, gray, lumpy, bentonitic, silty.
1920 - 1950	Claystone, red, maroon, gray, flaky, bentonitic, carbonaceous, some cream, brown, salt and pepper, -0.1mm sandstone, grading to siltstone, few loose 0.3mm sand grains, much <u>pyrite</u> .
1950 - 2000	Sandstone, loose, salt and pepper, -0.1 to 0.1mm, average 0.2mm, subrounded, argillaceous, few black chert grains, possible slight porosity, much varicolored claystone.
2000 - 2100	No samples.
2100 - 2150	Claystone, red, dark gray, bentonitic, carbonaceous, few loose -0.1mm sand grains.
2130 - 2160	Claystone as above.

File No.

T. 17 R. 13

DUPLICATE

County Judith Basin

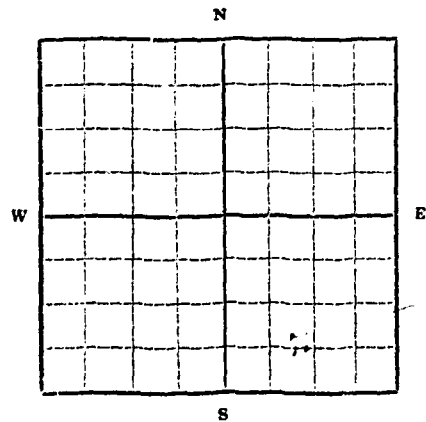
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Ray H. Hall, of Stanford,
(Name of Appropriator) (Address) (Town)
County of Judith Basin State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SW 1/4 Sec. 11, T. 17, R. 13

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, drinking water, and irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been
about 1920
4. The amount of groundwater claimed (in miner's inches or gallons per minute) whatever they will produce.
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 GARDEN
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
gasoline motors on pumps for both wells,
spring flows
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1920
8. The depth of water table about 32 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
One dug well 32' deep, one well 12' deep, one spring flowing
10. The estimated amount of groundwater withdrawn each year unknown
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
As these two wells and spring are so close together and in the same
10 acres I am filing them all on one form.

Signature of Owner

Date January 5, 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.

1102

118693

116

May H. Hall

Vested Groundwater Right


^{SE}
SW ~~1/4~~ Sec. 14-17-13

Filed for record this 5th day of
Jan. 1962 A. M. at 11:35 o'clock
P.M. 4/11

Delight Leslie, Clk. & Rec.

by Betty Crutcher Dep

Fee \$2.00 pd



In checking our records I find that on Jan. 5th, 1962 at 11:35 o'clock in a Vested Groundwater Right for May H. Hall the description should read SWSE Sec. 14-17-13. It is marked correctly on the ~~map~~ map but on our copy it still reads SWSW. Would you please check the copies we sent you and either send them back to us for correction or make the correction there and let us know.

Clerk and recorder, Judith Basin County

102-100000-100

STATE ENGINEER

File No.

T. 17 R. 13

DUPLICATE

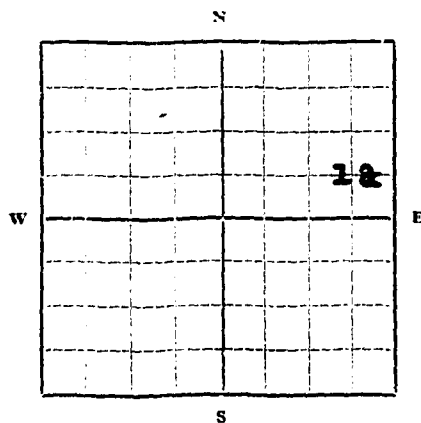
County. Judith Basin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

RECEIVED
JAN 17 1962
STATE ENGINEER

1. Ivan H. Hess of Rural Route Denton
(Name of Appropriator) (Address) (Town)
County of Judith Basin State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE SENE

1/4 Sec. 15, T. 17, R. 13

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

2. The beneficial use on which the claim is based
Well 1 household
Well 2 stockwater and irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been
Well 1, 1936 continuously
Well 2, 1949 continuously
4. The amount of groundwater claimed (in miner's inches or gallons per minute)
Well 1, 8 gallon per minute
Well 2, 20 gallon per min (never pumped dry)
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
Well 2, irrigated 2 acres garden
& pasture from H. Hess
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
pump
Sec. 15, T. 17, R. 13
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
Well 1, July 1936
Well 2, July 1949
8. The depth of water table 33 ft both wells
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
both dug well, 4 ft. in diam, 33 ft. deep
10. The estimated amount of groundwater withdrawn each year
420,180 gallon Well No. 1
3,306,00 gallon Well No. 2
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 Ivan H. Hess

Date Dec. 13, 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.

32579

No. 302

VESTED GROUNDWATER RIGHTS
IVAN H. HESS

SENE Sec. 15-17-13

121993

State of Montana
County of Judith Basin
Filed for record this 13th
day of Dec. A.D. 1963 at 2:00
o'clock P.M.
Delight Leslie, Clerk & R.O.

by Delight Leslie Dep.

Fee 32.00 pd.

File No.

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

T 17N R 13E.

County Judith Basin

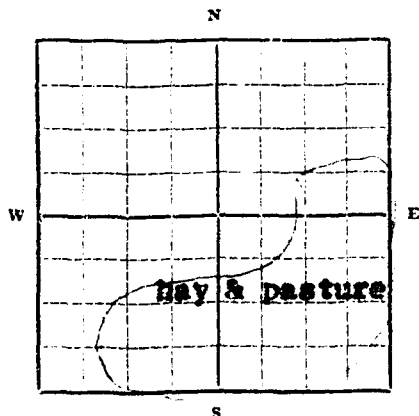
Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

Kesselheim

1. B. Kesselheim and Lucile E. of 341 Park Hill Drive, Billings
(Name of Appropriator) (Address) (Town)

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



N and S
Sec. 17 T17N R 13E

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 livestock - sub-irrigation and irrigation of hay and pasture
3. Date or approximate date of earliest beneficial use; and how continuous the use has been to my knowledge these large springs have been used since early 1920's, including domestic use
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 150 inches
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 stock water - irrigated pasture and 100 acres and hay acreage 100 acres-see plat
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal natural flow and ditch

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater not applicable
8. The depth of water table 1 ft. from surface
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 spring fed reservoir and dam - covering 2 - 3 acres
10. The estimated amount of groundwater withdrawn each year 150 inches
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.

Water Right notice book 5 Water Rights, page 49
" " " book 12 " page 105
" " " book 12 " page 105

Signature of Owner B. Kesselheim

Date May 21, 1962

STATE OF MONTANA, County of Yellowstone, ss:
B. Kesselheim and Lucile E. Kesselheim having first been duly sworn, depose and say that they are
the appropriator s and claimant s of the order and water right mentioned in the foregoing declaration of vested groundwater rights
and the person s whose name s are subscribed thereto, as the appropriator and claimant s, that they know the contents
of said foregoing notice and that the matters and things therein stated are true.
Subscribed and sworn to before me, this 21 day of May, 19 62
Notary Public, Notary Public for the State of
Montana, residing at Billings, Montana My Commission
expires April 21, 1964

119131

DECLARATION OF VESTED GROUNDWATER
RIGHTS*

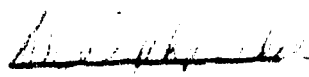
$\frac{1}{2}$ and $\frac{3}{4}$ of Sec. 17- 17-13

H. Kesselheim and Lucile L.
Kesselheim

State of Montana

County of Judith Basin

Filed this 28th day of May A.D.
1962 at 8:35 o'clock A.M.


County Clerk.

Fee \$2.00 Paid.

File No.

T 17 R 13

DUPLICATE

County Judith Basin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
JAN 15 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

1. Harry J. Dester, of Box 485 Stanford
(Name of Appropriator) (Address) (Town)
County of Judith Basin State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:

	X			

NW/NE/4

Sec. 20 T. 17 R. 13

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

- The beneficial use on which the claim is based well for livestock use;
- Date or approximate date of earliest beneficial use; and how continuous the use has been 1961, dug well and continuous use since this date;
- The amount of groundwater claimed (in miner's inches or gallons per minute) 6 gal. a minute
- If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
does not apply
- The means of withdrawing such water from the ground and the location of each well or other means of withdrawal electric pump, and piped to tank;
- The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater 1961, well completed same year, continuous use since;
- The depth of water table well 11 ft. deep, standing well 9 ft.
- So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater 11 ft. deep; 36-in. tube;
- The estimated amount of groundwater withdrawn each year approximately 90,000 gal. year
- The log of formations encountered in the drilling of each well if available none
- 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
does not apply

Signature of Owner

Harry J. DesterDate December 31, 1963

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

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

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

32868

592

Harry Dester

Sec 20-17-13

State of Montana
County of Judith Basin

Filed for record this
31st day of Dec. A.D. 1963 at
3:35 o'clock P.M.
Delight Leslie, Clerk and Rec.

by _____ Dep.

Fee \$2.00 pd.

22
T. 17 R. 13

County Judith Basin

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED

WATER WELL LOG

STATE ENGINEER

Owner John Metcalf Address Stanford

Driller O.C. Thatcher Address Stanford, Montana

Date Started Aug. 18, 1960 Date Completed Sept. 6, 1960

Location: Sec. 25 T. 17 R. 13 1/4 sec. NW

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other:

Casing: 1 ft. to 1821 ft. Type Galvanized Size 2"

Casing: ft. to ft. Type Size

Casing: ft. to ft. Type Size

Perforated ~~and screened~~: Ft. 1721 to ft. 1821 Ft. to ft.

Type of screen or perforations

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

Shut-in pressure, for flowing well: 5 Gal. per min. ~~1500 PSI~~ (date)

Pumping water level feet at gal. per min.

How tested:

Length of test Indefinite

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

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	55	Yellow Clay
55	160	Blue Shale with thin hard sandstone streaks
160	486	Blue Shale
486	573	Sandstone and blue shale
573	576	Bentonite
576	768	Sandy shale and hard sandstone
768	928	Hard sandy shale and sandstone
928	1071	Sandy gray shale
1071	1340	Sandy gray shale and sandstone
1340	1364	Hard sandstone
1364	1520	Alt. red shale and sandstone
1520	1557	Red shale and sandstone
1557	1610	Alt. hard sandstone and red shale
1610	1647	Hard sandstone
1647	1738	Sandy shale and hard sandstone
1738	1789	Hard sandstone
1789	1813	Soft sandstone
1813	1821	Med. hard sandstone

Form No. 18
8-60

26

T. 17 R. 13

County Judith Basin

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED

WATER WELL LOG

STATE ENGINEER

Owner George L. Smith Address Stanford

Driller O. C. Thatcher Address Stanford, Montana

Date Started June 3rd, 1954 Date Completed July 2, 1954

Location: Sec. 26 T. 17 R. 13 $\frac{1}{4}$ sec. SE 1/4

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

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

Casing: 0 ft. to 1567 ft. Type Galvanized Iron Size 2"

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. 6 to ft. _____. Ft. _____ to ft. _____

Type of screen or perforations _____

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

Shut-in pressure, for flowing well: 124 lb./sq. in. on: _____ (date)

Pumping water level _____ feet at _____ gal. per min. _____

How tested: Steam Gauge

Length of test _____

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

Hydrant for shut-off.

Cemented

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	18	Overburden
18	190	Blue Shale
190	200	blue shale with layers of sandstone
200	225	Hard Sandstone about 1 gal of water per min. 210-220
225	245	Blue shale with layers of sandstone and bentonite
245	300	Sandy Blue shale
300	323	Hard sandstone with layers of bentonite
323	327	Hard sandstone
327	329	Bentonite
329	351	Hard sandstone, about 1 gal of water per min 340-345
351	375	Sandy shale with layers of sandstone
375	505	Very hard sandy shale
505	520	Sandy shale
520	635	Sandy shale and sandstone alternately
635	790	Hard sandy shale
790	825	Soft grey shale
825	835	Sandy shale
835	890	Hard sandy shale
890	995	Soft grey sandy shale, 1 to 1 gal water per min 890
995	1005	Soft grey shale
1005	1090	Black shale
1090	1125	Hard grey sandy shale
1125	1270	Red shale
1270	1308	Grey sandy shale this coloring doesn't definitely show whether it is the top part of the second "Cat Creek Sand."
1308	1320	Sandstone
1320	1395	Sandstone, with occasional layers of red shale
1395	1403	Red shale
1403	1500	Sandstone
1500	1546	Sandstone
1546	1556	Sandstone, appeared to be softening
1556	1561	Soft sandstone about 4 gal water per min.
1561	1567	Fairly hard sandstone
1567	1573	Soft Sandstone
1573	1577	Fairly hard sandstone
1577	1590	Hard sandstone
1590	1610	Softer apparently sandy shale, water is a light grey to light pink in color
1610	1620	Drilling soft xxx apparently some sand with shale, water from grey to light brown then to chocolate brown, water has oily scum. Probable coal zone
1620	1629	Fairly soft apparently sandy shale, water turned to greyish brown
1629	1633	Hard rock, water still greyish brown
1633	1655	Medium hard rock, water is light grey in color
1655	1655	Medium hard rock appeared to be a soft limestone or dense shale with little or no sand - water light grey
1655	1685	Medium hard water silty grey to dark grey, mostly shale
		Filed this 29th day of December
		A. D. 1961 in Judith Basin County
		State of Montana.

County Clerk.

26

County Judith Basin

RECEIVED

STATE ENGINEER

(over)

Log of Well

[illegible]

GV

File No.

T. 17 R. 13

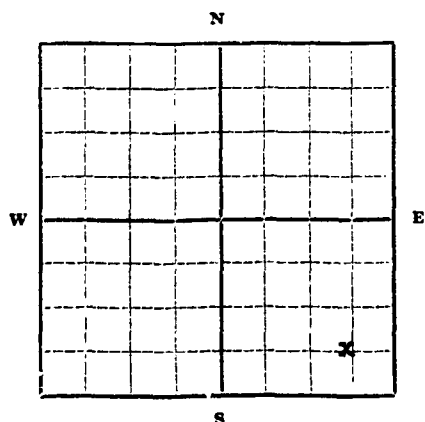
DUPLICATE

County Judith Basin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1. Ed. Hall, of Stanford,
(Name of Appropriator) (Address) (Town)
County of Judith Basin State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE. SE 1/4 Sec. 27 T. 17 R. 13

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

2. The beneficial use on which the claim is based stock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been December 1, 1955
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 35 gal. per minute
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal flowing
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater December 7, 1955 completed December 2, 1955
8. The depth of water table about 39'
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
338' 113' deep 2" gal. pipe, put packer at 26' and cemented with 5 sacks cement.
10. The estimated amount of groundwater withdrawn each year
11. The log of formations encountered in the drilling of each well if available located
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 W. H. WolfDate Jan. 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 School of Mines and Quadruplicate for the Appropriator.

0	17	Overburden
17	34	Blue shale, no conite
34	87	Very soft bentonite
37	89	Sandstone hit about 4 gal. of water per minute
39	29	Blue shale and bentonite
99	106	Broken sandstone area faulted, hit about 35 gal. water per minute in this
106	111	Sandstone (no water)
11	113	set 2" galvanized pipe, put packer at 26' and cemented with 5 sacks cement.

115

Appro. Vested Groundwater Right
May 10, 1911

Sh. H. Sec. 27-17-13

118689

Added for record this 4th day of
Jan. 10, 1962 A.M., at 3:00 P.M.

Delight Leslie, Clerk, Sec.,

by Rita Anderson Dep.

74 22 64

~~RECEIVED~~

STATE ENGINEER

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

Casing: 0 ft. to 1563 ft. Type Galvanized Size 2"

Casing: 0 ft. to 44 ft. Type Size
Casing: ft. to ft. Type Size

Casing: _____ ft. to _____ ft. Type _____ Size _____
Casing: _____ ft. to _____ ft. St. _____ Ft. _____ to ft. _____

Perforated or Screened: Ft. 1528 to ft. 1563. Ft. _____ to ft. _____

Type of screen or perforations perforated the last 40 ft. _____ feet.

Static Water level, for non-flowing well: _____ lb./sq. in. on: April 13, 19

Shut-in pressure, for flowing well: 25 lb./sq. in. on: APR 11 1954
(date)

Shut-in pressure, _____

Pumping water level _____ feet at _____ gal. per min. _____

How tested: _____

How tested: _____

Length of test _____

_____ type of shut-off, depth of _____

Length of test _____

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

well produced approximately 4 gallons of water per minute.

Cased with 2" galvanized pipe, cemented with 8 sacks of cement

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	3	Overburden
3	160	Blue shale with layers of bentonite and sandstone
160	168	Sandstone
168	253	Shale with layers of sandstone and bentonite.
253	261	Hard sandstone
261	319	Black shale with layers of sandstone and bentonite
319	332	Sandstone
332	355	Blue-black shale
355	615	Blue Shale
615	735	Blue Shale with a few thin layers of sandstone
735	890	Blue shale
890	980	Gray shale with layers of green sandstone
980	1053	Gray shale
1053	1239	Red shale
1239	1246	Sandstone
1246	1254	Red shale
1254	1272	Sandstone
1272	1282	Red shale
1282	1330	Sandstone
1330	1360	Sandstone
1360	1470	Hard sandstone
1470	1474	Fairly soft sandstone
1474	1476	Red shale
1476	1482	Hard sandstone
1482	1494	Soft sandstone
1494	1506	Hard stone
1506	1517	Soft sand
1517	1524	Hard sand
1524	1529	Fairly soft sand
1529	1535	Fairly soft sandstone

STATE OF MONTANA
 COUNTY OF JUDITH BASIN
 35
 10:00
 Sept 26
 1961
 Delight Leslie
 County Recorder
 Deputy

W.M. Log

#63

File No.

T. 17 N. R. 13 E.

DUPLICATE

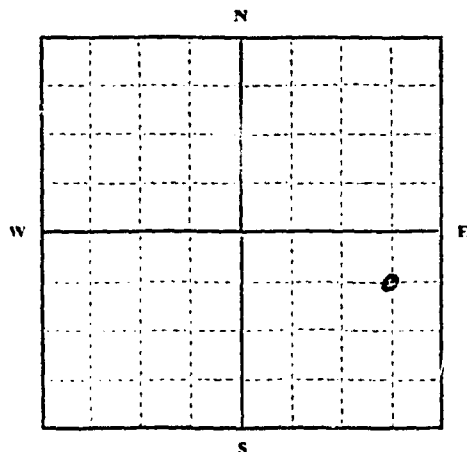
County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. J. R. Hedrick, of Stanford Mont
(Name of Appropriator) (Address) (Town)
County of Foothill Basin State of Mont.
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 31 T. 17 N. R. 13 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 Sept 1957
Sept. 1957
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 11 gal per min.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal By a Windmill & Pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Sept. 57 completed Nov. 57
8. The depth of water table 182 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 Windmill & Pump
10. The estimated amount of groundwater withdrawn each year 540,000
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

J. R. Hedrick
Date Jan 4 1964

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.

#695

J. R. HEDRICK

NESE Sec. 31-17-13

State of Montana
County of Judith Basin
Filed for record this
30th day of Dec. A.D. 1965
at 10:20 o'clock A.M.

Delight Leslie, Clk. & Rec.

by Betty C. C. C. Dep

G

File No.

T 17 R 13

DUPLICATE

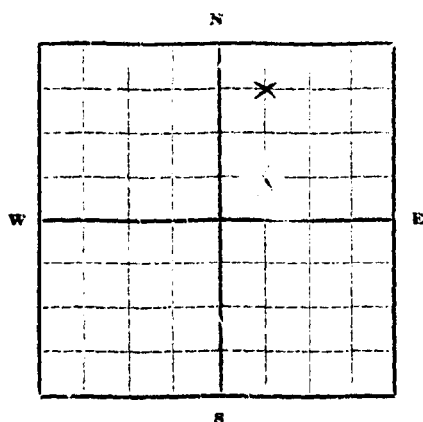
County Judith Basin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

1075-1075-1075
STATE ENGINEER

I, Willard L. Hall, of Stanford,
(Name of Appropriator) (Address) (Town)
County of Judith Basin State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4, Sec. 35, T. 17, R. 13

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 and garden irrigation
3. Date or approximate date of earliest beneficial use; and how continuous the use has been
Dec. 3, 1955 completed Dec. 6, 1955
continuous use
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 20 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 1/2 acre of garden & well
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal flowing
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Dec. 3, 1955 completed Dec. 6, 1955
8. The depth of water table
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
104 ft. approximately
10. The estimated amount of groundwater withdrawn each year Unknown
11. The log of formations encountered in the drilling of each well if available yes see back
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.
Cased with Galv. pipe 2" cemented with 3 sacks of cement.

Signature of Owner Willard L. HallDate Jan. 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 School of Mines and Quadruplicate for the Appropriator.

1067

0
8
65
104

8
65
104
135

Overburden
Blue shale
Blue shale with layers of sandstone and bentonite.
Blue shale layers in black sandstone with
some layers of bentonite. Hit about 20 gal of water per
minute. 123-128 ft.
Set 135 ft 2" galvanized pipe. Set packer at 27 ft.
Cemented in with two sacks cement.

118688
Vested Groundwater Rights
Willard F. Hall
No. 11 Sec. 35-17-13

114

Filed for record this 4th day
of Jan. A. D. 1962 at 1:40 P.M.

Delbert Leslie, CLK. & Rec.

by Billy Anderson Jr

7-2-62

File No.

T. 17 R. 13

DUPLICATE

County Judith Basin

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

(Under Chapter 237 Montana Session Laws, 1961)

Date of Appropriation of Groundwater.....

Owner Willard F. Hall Address Stanford, Montana

Contractor (if any) Hall Brothers

Address of Contractor Stanford, Montana

Date Started 1948 Date Completed 1948

Describe means of obtaining groundwater without a well "as by
sub-irrigation and other natural processes". Include depth to
water when applicable dug into spring about 10 feet.

& piped it 150 feet underground into a tank.

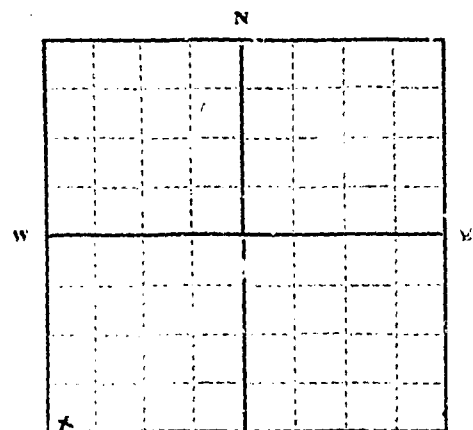
Quantity of water developed and used with explanation of method
used to measure or estimate such amount. If use is intermittent

estimate approximate lengths of periods of use 10 gallons

per minute.

Signature of Owner Willard F. Hall

Date December 27, 1963.



SW/SE

1/4 Sec. 22 T. 17 R. 13

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

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.

File No. 385

Willard P. Hall

WA/DA Sec. 35-17-13

State of Montana

County of Judith Basin

Filed this 27th day of

December A.D. 1963 at

9:20 A. M.

Robert L. Lester
County Clerk

Fee \$2.00 Paid.

Form No. 18
8-60

T. 17 R. 13

County Judith Basin

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
R 1361

WATER WELL LOG

STATE ENGINEER

Owner George L. Smith Address Stanford, Montana

Driller O. C. Thatcher Address Stanford, Montana

Date Started July 26, 1960 Date Completed Aug. 16, 1960

Location: Sec. 36 T. 17 R. 13 $\frac{1}{4}$ sec. SW 1/4

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

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

Casing: 0 ft. to 1278 ft. Type Galvanized Size 2"

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. 6' to ft. _____. Ft. _____ to ft. _____

Type of screen or perforations _____

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

Shut-in pressure, for flowing well: 76 lb./sq. in. on: _____ (date)

Pumping water level _____ feet at _____ gal. per min. _____

How tested: Steam Gauge

Length of test _____

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

Cemented

Hydrant for Shut-off

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	190	Blue Shale with hard ribs
190	245	Black shale medium soft
245	415	Med. hard black shale
415	420	Bentonite with green shale layers
420	488	Gray shale med. soft
488	550	Shale with Med. soft sand ribs
550	740	Med. soft gray shale
740	760	Blue shale with bentonite layers
760	818	Hard and med. hard sandstone
818	844	Blue shale with thin sandy streaks
844	920	Gray shale and sandy shale
920	1075	Alt. gray shale and sandstone
1075	1093	Red Shale
1093	1178	Red Shale some maddy
1178	1180	Sandstone
1180	1224	Red shale
1224	1260	Alt. hard sandstone and sandy shale
1260	1276	Soft water sand
1276	1 278	Hard Sandstone about 7 gal. water per min.
WATER WELL 100 GEORGE L. SMITH Sec. 36 SW 1/4 Twp. 17, Rge. 13 STATE OF MONTANA COUNTY OF JUDITH BASIN Filed this 29th day of December 1961 at 1 o'clock A.M. <i>W. J. Smith</i> County Clerk.		

File No.

T 17 N R 13 E

DUPLICATE

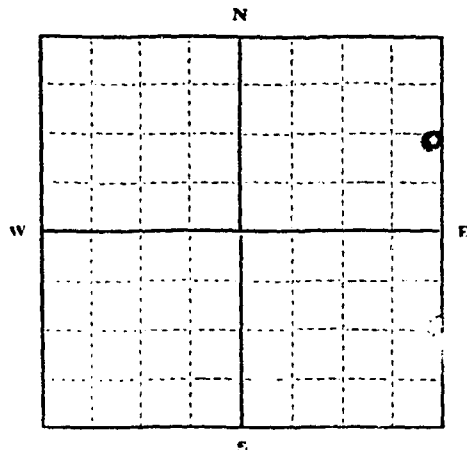
County

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

I, J. R. Hedrick, of Stanford Mont
(Name of Appropriator) (Address) (Town)
County of Judith Basin State of Mont
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 NE 1/4 Sec. 36 T. 17 R. 13

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 watering livestock
3. Date or approximate date of earliest beneficial use; and how continuous the use has been April 1962
dur summer & winter
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 11 gals per min.
5. If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Artesian Wells
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater June 30 1962
8. The depth of water table 1418 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 1418 ft deep with a 2 in casing
10. The estimated amount of groundwater withdrawn each year 400,000
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

J. R. Hedrick
Date Jan 4 1964

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.

40961

#692

J. R. HEDRICK
SENE Sec. 36-17-13

State of Montana
County of Judith Basin
Filed for record this
30th day of Dec. A.D. 1965
at 10:05 o'clock A.M.

Delight Leslie, Clk. & Rec.

by Betty Crutcher Dep

GROUNDWATER INDEX

Page of

County Judith Basin Twp. 17N Rge. 14E

[illegible]

20

RECEIVED

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, MontanaT. 17 R. 14
County Judith Basin

WATER WELL LOG

		X	

Owner Lee Todd Address Denton, Montana
 Driller G. C. Thatcher Address Stanford, Montana
 Date Started November 6, 1958 Date Completed Dec. 12, 1958
 Location: Sec. 20 T. 17 R. 14 ¼ sec. NE

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

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

Casing: 0 ft. to 2101 ft. Type Galvanized Size 2 in.

Casing: _____ ft. to _____ ft. Type _____ Size _____

Casing: _____ ft. to _____ ft. Type _____ Size _____

Perforated or Screened: Ft. 1850 to ft. 2101 Ft. _____ to ft. _____

Type of screen or perforations Slotted pipe

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

Shut-in pressure, for flowing well: 75 lb./sq. in. on: December 28, 1958
 (date)

Pumping water level: _____ feet at Artesian gal. per min. 30

How tested: _____

Length of test: _____

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

Cemented in.

(over)

Log of Well

Depth, feet		Description of Material Drilled
From	To	
0	0	Overburden
0	16	Gravel
16	75	Shale
75	77	Sandstone
77	83	Shale
83	100	Sandstone
100	175	Shale
175	178	Sandstone
178	215	Shale
215	218	Blue Shale
218	221	Streak of Sandstone
221	265	Blue Shale
265	304	Sandy Shale
304	328	Blue Shale
328	355	Sandy Shale
355	366	Blue Shale
366	389	Sandstone
389	390	Shale
390	630	Blue Shale
630	642	Sandy Shale
642	645	Hard Sandstone
645	650	Soft Sandstone
650	679	Hard Sandstone
679	692	Blue Shale
692	722	Shale
722	735	Sandstone

From	To	Description
725	732	Sandy Shale
732	803	Sandy Shale alternating with small streams of sandstone.
803	910	Sandy Shale
910	930	Blue Shale
930	950	Sandstone
950	965	Blue Shale
965	971	Sandstone
971	1065	Shale
1065	1154	Grey Shale
1154	1160	Blue Shale
1160	1137	Sandy Shale
1137	1360	Shale
1360	1365	Sandstone
1365	1390	Shale
1390	1399	Sandstone
1399	1440	Grey Shale with tapers of sandstone.
1440	1501	Red Shale
1501	1503	Hard Sandstone
1503	1560	Red Shale
1560	1575	Sandstone
1575	1580	Hard Sandstone
1580	1625	Red Shale
1625	1632	Hard Sandstone
1632	1635	Soft Sandstone
1635	1650	Hard Sandstone
1650	1699	Medium Hard Sandstone
1699	1717	Dark Shale (almost black)
1717	1735	Hard Sandstone
1735	1755	Soft Sandstone
1755	1772	Hard Sandstone
1772	1785	Red Shale
1785	1825	Sandstone
1825	1870	Shale
1870	1917	Sandy Shale
1917	1942	Shale
1942	1960	Sandy Shale
1960	1968	Sandstone
1968	1978	Sandy Shale
1978	2015	Soft Shale
2015	2020	Shale
2020	2025	Shale
2025	2075	Soft Sandstone with some shale layers.
2075	2085	Sandy Shale
2085	2101	Shale

State of Montana
County of Judith Basin
I hereby certify that the instrument to
which this certificate is annexed is true,
correct and correct copy of the original
on file in my office
Witness my hand and seal of office
this 14th day of November, 1963.
[Signature]

Nov. 14th, 1963.

RECEIVED
NOV 15 1963

STATE ENGINEER

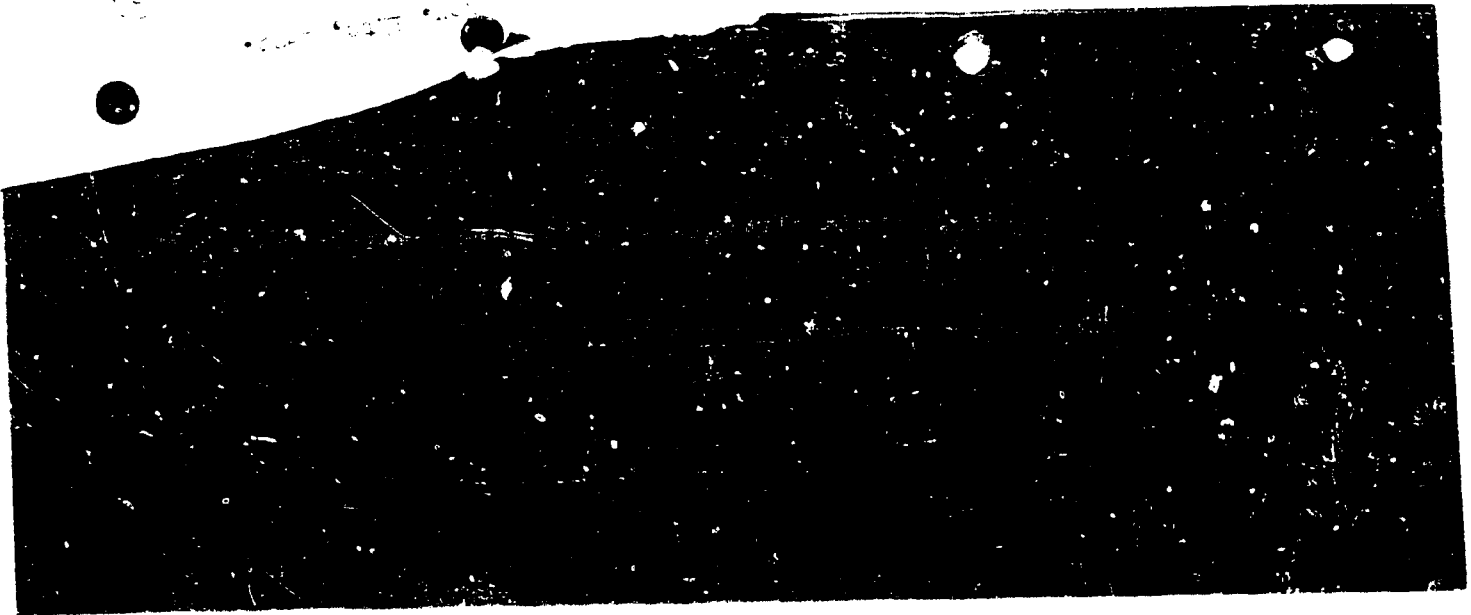
State Engineer.
Helena, Montana

Dear Sir:

Mr. Todd said that your department couldn't find any record of the
filing of this well, so we are enclosing a certified copy for your records.

Sincerely,

[Signature]
County Clerk.



State of Montana
County of [illegible]

I hereby certify that [illegible] to
with the [illegible] a [illegible] in the
[illegible] and [illegible] of the [illegible]
on F. 12 [illegible]

With a my [illegible] and [illegible] [illegible]
14. 46 [illegible]

W. L. [illegible]
W. L. [illegible]
County Clerk and Recorder

County

