

Page of

County PRAIRIE Twp. 14N Rge. 48E

[illegible]

File No. _____

MONTANA WATER RESOURCES BOARD

T. 14R. 48

DUPLICATE

RECEIVED

LOG MAY 13 1969

County PrairieSTATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

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, as amended)

Owner Ed BanAddress Brookway, Mont.Driller Ira C. Bond & SonsAddress Terry, Montana

Date of Notice of appropriation of groundwater _____

Date well started 4/30/69Date completed 5/2/69Type of well drilledEquipment used cable tool

(Dug, driven, bored or drilled)

(Churn drill, rotary or other)

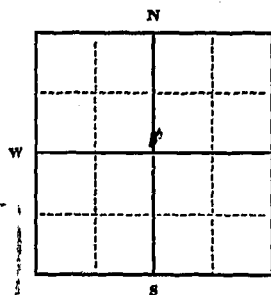
Water use:

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.

3 top soil
13 yellow clay
4 quick sand
5 gumbo
5 coal
10 water sand
48 gumbo
8 water sand & gumbo
26 gumbo
8 coal
4 gumbo & sand
26 water sand 16/66h
16 coal 10 gpm

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	7 od	0	27	none		
5 5/8	4 1/2 od	24	164	3/16	132	158



Static Water Level for non-flowing well _____ feet.

Shut-in Pressure for Flowing Well _____ feet

Pumping Water Level 144 feetat 3 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested bailedLength of Test 4 hrs.

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

used 7 od to seal offquick sand

(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).

164

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 37Driller's Signature Ira C. Bond

45,200

1991 2001 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 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818 2819 2820 2821 2822

1. NAME _____

2. DATE _____

3. TIME _____

4. LOCATION _____

5. WEATHER _____

6. WIND _____

7. TEMPERATURE _____

8. MOON _____

9. STARS _____

10. PLANETS _____

11. OTHER _____

12. REMARKS _____

13. SKETCH _____

14. DESCRIPTION _____

15. CONCLUSION _____

16. SIGNATURE _____

17. DATE _____

18. TIME _____

19. LOCATION _____

20. WEATHER _____

21. WIND _____

22. TEMPERATURE _____

23. MOON _____

24. STARS _____

25. PLANETS _____

26. OTHER _____

27. REMARKS _____

28. SKETCH _____

29. DESCRIPTION _____

30. CONCLUSION _____

31. SIGNATURE _____

32. DATE _____

33. TIME _____

34. LOCATION _____

35. WEATHER _____

36. WIND _____

37. TEMPERATURE _____

38. MOON _____

39. STARS _____

40. PLANETS _____

41. OTHER _____

42. REMARKS _____

43. SKETCH _____

44. DESCRIPTION _____

45. CONCLUSION _____

46. SIGNATURE _____

47. DATE _____

48. TIME _____

49. LOCATION _____

50. WEATHER _____

51. WIND _____

52. TEMPERATURE _____

53. MOON _____

54. STARS _____

55. PLANETS _____

56. OTHER _____

57. REMARKS _____

58. SKETCH _____

59. DESCRIPTION _____

60. CONCLUSION _____

61. SIGNATURE _____

62. DATE _____

63. TIME _____

64. LOCATION _____

65. WEATHER _____

66. WIND _____

67. TEMPERATURE _____

68. MOON _____

69. STARS _____

70. PLANETS _____

71. OTHER _____

72. REMARKS _____

73. SKETCH _____

74. DESCRIPTION _____

75. CONCLUSION _____

76. SIGNATURE _____

77. DATE _____

78. TIME _____

79. LOCATION _____

80. WEATHER _____

81. WIND _____

82. TEMPERATURE _____

83. MOON _____

84. STARS _____

85. PLANETS _____

86. OTHER _____

87. REMARKS _____

88. SKETCH _____

89. DESCRIPTION _____

90. CONCLUSION _____

91. SIGNATURE _____

92. DATE _____

93. TIME _____

94. LOCATION _____

95. WEATHER _____

96. WIND _____

97. TEMPERATURE _____

98. MOON _____

99. STARS _____

100. PLANETS _____

101. OTHER _____

102. REMARKS _____

103. SKETCH _____

104. DESCRIPTION _____

105. CONCLUSION _____

106. SIGNATURE _____

107. DATE _____

108. TIME _____

109. LOCATION _____

110. WEATHER _____

111. WIND _____

112. TEMPERATURE _____

113. MOON _____

114. STARS _____

115. PLANETS _____

116. OTHER _____

117. REMARKS _____

118. SKETCH _____

119. DESCRIPTION _____

120. CONCLUSION _____

121. SIGNATURE _____

122. DATE _____

123. TIME _____

124. LOCATION _____

125. WEATHER _____

126. WIND _____

127. TEMPERATURE _____

128. MOON _____

129. STARS _____

130. PLANETS _____

131. OTHER _____

132. REMARKS _____

133. SKETCH _____

134. DESCRIPTION _____

135. CONCLUSION _____

136. SIGNATURE _____

137. DATE _____

138. TIME _____

139. LOCATION _____

140. WEATHER _____

141. WIND _____

142. TEMPERATURE _____

143. MOON _____

144. STARS _____

145. PLANETS _____

146. OTHER _____

147. REMARKS _____

148. SKETCH _____

149. DESCRIPTION _____

150. CONCLUSION _____

151. SIGNATURE _____

152. DATE _____

153. TIME _____

154. LOCATION _____

155. WEATHER _____

156. WIND _____

157. TEMPERATURE _____

158. MOON _____

159. STARS _____

160. PLANETS _____

161. OTHER _____

162. REMARKS _____

163. SKETCH _____

164. DESCRIPTION _____

165. CONCLUSION _____

166. SIGNATURE _____

167. DATE _____

168. TIME _____

169. LOCATION _____

170. WEATHER _____

171. WIND _____

172. TEMPERATURE _____

173. MOON _____

174. STARS _____

175. PLANETS _____

176. OTHER _____

177. REMARKS _____

178. SKETCH _____

179. DESCRIPTION _____

180. CONCLUSION _____

181. SIGNATURE _____

182. DATE _____

183. TIME _____

184. LOCATION _____

185. WEATHER _____

186. WIND _____

187. TEMPERATURE _____

188. MOON _____

189. STARS _____

190. PLANETS _____

191. OTHER _____

192. REMARKS _____

193. SKETCH _____

194. DESCRIPTION _____

195. CONCLUSION _____

196. SIGNATURE _____

197. DATE _____

198. TIME _____

199. LOCATION _____

200. WEATHER _____

201. WIND _____

202. TEMPERATURE _____

203. MOON _____

204. STARS _____

205. PLANETS _____

206. OTHER _____

207. REMARKS _____

208. SKETCH _____

209. DESCRIPTION _____

210. CONCLUSION _____

211. SIGNATURE _____

212. DATE _____

213. TIME _____

214. LOCATION _____

215. WEATHER _____

216. WIND _____

217. TEMPERATURE _____

218. MOON _____

219. STARS _____

220. PLANETS _____

221. OTHER _____

222. REMARKS _____

223. SKETCH _____

224. DESCRIPTION _____

225. CONCLUSION _____

226. SIGNATURE _____

227. DATE _____

228. TIME _____

229. LOCATION _____

230. WEATHER _____

231. WIND _____

232. TEMPERATURE _____

233. MOON _____

234. STARS _____

235. PLANETS _____

236. OTHER _____

237

[illegible]

How far will you go to help your country?

.....

[illegible]

116-1442-107-1001

single published results are reported. The
-inited from the Andean and Caribbean regions.

[illegible]

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (○), 10⁷ cells/ml (□), 10⁸ cells/ml (△), and 10⁹ cells/ml (◇). The error bars represent the standard deviation of three independent experiments.

1. *Chlorophyll a* (Chl *a*)
 2. *Chlorophyll b* (Chl *b*)
 3. *Chlorophyll c* (Chl *c*)
 4. *Chlorophyll d* (Chl *d*)
 5. *Chlorophyll e* (Chl *e*)
 6. *Chlorophyll f* (Chl *f*)
 7. *Chlorophyll g* (Chl *g*)
 8. *Chlorophyll h* (Chl *h*)
 9. *Chlorophyll i* (Chl *i*)
 10. *Chlorophyll j* (Chl *j*)
 11. *Chlorophyll k* (Chl *k*)
 12. *Chlorophyll l* (Chl *l*)
 13. *Chlorophyll m* (Chl *m*)
 14. *Chlorophyll n* (Chl *n*)
 15. *Chlorophyll o* (Chl *o*)
 16. *Chlorophyll p* (Chl *p*)
 17. *Chlorophyll q* (Chl *q*)
 18. *Chlorophyll r* (Chl *r*)
 19. *Chlorophyll s* (Chl *s*)
 20. *Chlorophyll t* (Chl *t*)
 21. *Chlorophyll u* (Chl *u*)
 22. *Chlorophyll v* (Chl *v*)
 23. *Chlorophyll w* (Chl *w*)
 24. *Chlorophyll x* (Chl *x*)
 25. *Chlorophyll y* (Chl *y*)
 26. *Chlorophyll z* (Chl *z*)
 27. *Chlorophyll aa* (Chl *aa*)
 28. *Chlorophyll ab* (Chl *ab*)
 29. *Chlorophyll ac* (Chl *ac*)
 30. *Chlorophyll ad* (Chl *ad*)
 31. *Chlorophyll ae* (Chl *ae*)
 32. *Chlorophyll af* (Chl *af*)
 33. *Chlorophyll ag* (Chl *ag*)
 34. *Chlorophyll ah* (Chl *ah*)
 35. *Chlorophyll ai* (Chl *ai*)
 36. *Chlorophyll aj* (Chl *aj*)
 37. *Chlorophyll ak* (Chl *ak*)
 38. *Chlorophyll al* (Chl *al*)
 39. *Chlorophyll am* (Chl *am*)
 40. *Chlorophyll an* (Chl *an*)
 41. *Chlorophyll ao* (Chl *ao*)
 42. *Chlorophyll ap* (Chl *ap*)
 43. *Chlorophyll aq* (Chl *aq*)
 44. *Chlorophyll ar* (Chl *ar*)
 45. *Chlorophyll as* (Chl *as*)
 46. *Chlorophyll at* (Chl *at*)
 47. *Chlorophyll au* (Chl *au*)
 48. *Chlorophyll av* (Chl *av*)
 49. *Chlorophyll aw* (Chl *aw*)
 50. *Chlorophyll ax* (Chl *ax*)
 51. *Chlorophyll ay* (Chl *ay*)
 52. *Chlorophyll az* (Chl *az*)
 53. *Chlorophyll aza* (Chl *aza*)
 54. *Chlorophyll abz* (Chl *abz*)
 55. *Chlorophyll acz* (Chl *acz*)
 56. *Chlorophyll adz* (Chl *adz*)
 57. *Chlorophyll aez* (Chl *aez*)
 58. *Chlorophyll afz* (Chl *afz*)
 59. *Chlorophyll agz* (Chl *agz*)
 60. *Chlorophyll ahz* (Chl *ahz*)
 61. *Chlorophyll aiz* (Chl *aiz*)
 62. *Chlorophyll ajz* (Chl *ajz*)
 63. *Chlorophyll akz* (Chl *akz*)
 64. *Chlorophyll alz* (Chl *alz*)
 65. *Chlorophyll amz* (Chl *amz*)
 66. *Chlorophyll anz* (Chl *anz*)
 67. *Chlorophyll aoz* (Chl *aoz*)
 68. *Chlorophyll apz* (Chl *apz*)
 69. *Chlorophyll aqz* (Chl *aqz*)
 70. *Chlorophyll arz* (Chl *arz*)
 71. *Chlorophyll asz* (Chl *asz*)
 72. *Chlorophyll atz* (Chl *atz*)
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 75. *Chlorophyll awz* (Chl *awz*)
 76. *Chlorophyll axz* (Chl *axz*)
 77. *Chlorophyll ayz* (Chl *ayz*)
 78. *Chlorophyll ayz* (Chl *ayz*)
 79. *Chlorophyll azz* (Chl *azz*)
 80. *Chlorophyll azaa* (Chl *aza*)
 81. *Chlorophyll abz* (Chl *abz*)
 82. *Chlorophyll acz* (Chl *acz*)
 83. *Chlorophyll adz* (Chl *adz*)
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 86. *Chlorophyll agz* (Chl *agz*)
 87. *Chlorophyll ahz* (Chl *ahz*)
 88. *Chlorophyll aiz* (Chl *aiz*)
 89. *Chlorophyll ajz* (Chl *ajz*)
 90. *Chlorophyll akz* (Chl *akz*)
 91. *Chlorophyll alz* (Chl *alz*)
 92. *Chlorophyll amz* (Chl *amz*)
 93. *Chlorophyll anz* (Chl *anz*)
 94. *Chlorophyll aoz* (Chl *aoz*)
 95. *Chlorophyll apz* (Chl *apz*)
 96. *Chlorophyll aqz* (Chl *aqz*)
 97. *Chlorophyll arz* (Chl *arz*)
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 100. *Chlorophyll auz* (Chl *auz*)
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 103. *Chlorophyll axz* (Chl *axz*)
 104. *Chlorophyll ayz* (Chl *ayz*)
 105. *Chlorophyll ayz* (Chl *ayz*)
 106. *Chlorophyll azz* (Chl *azz*)
 107. *Chlorophyll azaa* (Chl *aza*)
 108. *Chlorophyll abz* (Chl *abz*)
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 110. *Chlorophyll adz* (Chl *adz*)
 111. *Chlorophyll aez* (Chl *aez*)
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 113. *Chlorophyll agz* (Chl *agz*)
 114. *Chlorophyll ahz* (Chl *ahz*)
 115. *Chlorophyll aiz* (Chl *aiz*)
 116. *Chlorophyll ajz* (Chl *ajz*)
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 118. *Chlorophyll alz* (Chl *alz*)
 119. *Chlorophyll amz* (Chl *amz*)
 120. *Chlorophyll anz* (Chl *anz*)
 121. *Chlorophyll aoz* (Chl *aoz*)
 122. *Chlorophyll apz* (Chl *apz*)
 123. *Chlorophyll aqz* (Chl *aqz*)
 124. *Chlorophyll arz* (Chl *arz*)
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 126. *Chlorophyll atz* (Chl *atz*)
 127. *Chlorophyll auz* (Chl *auz*)
 128. *Chlorophyll avz* (Chl *avz*)
 129. *Chlorophyll awz* (Chl *awz*)
 130. *Chlorophyll axz* (Chl *axz*)
 131. *Chlorophyll ayz* (Chl *ayz*)
 132. *Chlorophyll ayz* (Chl *ayz*)
 133.

...to get
(...large as: grade: water)

1950
1951
1952

1000

[illegible][illegible][illegible]

100

91168

FILED
at 3:50 o'clock P.M.
MAY 9 1969
County Clerk
Deputy

File No.

MONTANA WATER RESOURCES BOARD
RECEIVED

T 14 R 48

DUPLICATE

County Prairie

LOG FEB 6 1970

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

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

1 top soil
41 sandstone
34 gumbo
12 sandstone
8 c gumbo
12 sandstone
12 gumbo
10 brown clay
6 gumbo
12 sandstone
14 gumbo & water sand
10 sandstone
4 gumbo
20 water sand 12 gpm

11010

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

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

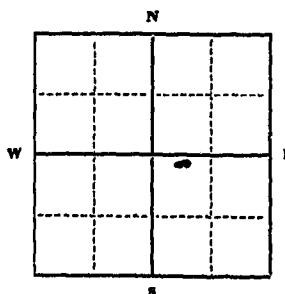
Owner Polly Norris Address Terry, MontanaDriller Ira C. Bond & Sons Address Terry, Montana

Date of Notice of appropriation of groundwater.....

Date well started 7/9/68 Date completed 7/30/68Type of well drilled Equipment used cable tool
(Dug, driven, bored or drilled) (Churn drill, rotary or other)Water use: Domestic ☐ Municipal ☐ Stock ☐ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5 5/8	4 1/2 od	0	196	3/16	176	194

Static Water Level for non-flowing well 160 feet.

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

Pumping Water Level 180 feet
at 2 gal. per minute.

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

How Tested bailedLength of Test 6 hrs

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

Doc. No. 91911

Filed for record

this 5 day of FebruaryA. D. 19 70, at 1:35o'clock P.M.

NW 1/4 Sec 5 T 14 R 48

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

(Continue on reverse side)

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

196

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.

37

Driller's License Number

Driller's Signature
R. C. Bond

46141

3

94303
RECEIVED

County Park

12

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

DEC 14 1972

DRILLER'S LOG

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller. Please answer all questions. If not applicable, so state, otherwise the form may be returned.

Agate Well

Owner

Bureau of Land Management

Address Billings City, Montana

For Administrator's Use

File 94303

Dec. 12, 1972 9:35am

Date well started 10/4/72

completed 10/7/72

GW 1

Type of well Drilled

(Dug, driven, bored or drilled)

Equipment used Rotary

(Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

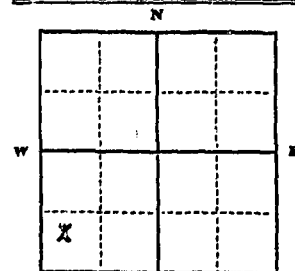
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	6" 30 18.97#	+1	256	slots	120	140
				1/8 x 6"	236	256



SW 1/4 Sec 12
T. 14N N R. 48E
S W

Static water level 112 ft.*
Pumping water level 250 ft.*
at 6 gallons per minute,
measured 120 minutes after pumping
began.
*Measured from ground level.
Well developed by Rot
for 8 hours.
Power Pump HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)
Well never did clear up.
Is gravel packed.

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

Driller's Signature

Driller's Address JOE JOHNSON DRILLING, Terry, Montana

LICENSE NO. 154

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground

(Elev. above sea level)

From (Feet)	To (Feet)	
0	10	Topsoil & Gravel Sand
10	20	Gravel Sand
20	45	Yellow Clay
45	85	Gray Clay - Stringers of Coal at 65'
85	115	Gray clay with thin stringers of sand at 95'
115	120	Very hard gray Rock
120	125	Gray Clay
125	165	Gray Sandstone
165	265	Gray clay with stringers of Coal
265	252	Gray Sand
252	256	Clay

256 Show exact depth of bottom

58,017

94303

State Skill Log
Buenos Aires Magazine
The Public

FILED

at 9:15 o'clock P.M.

1912
John D. Stoddard
Richard M. Stoddard
Deputy

RECEIVED
FEDERAL BUREAU OF INVESTIGATION
U. S. DEPARTMENT OF JUSTICE
WASHINGTON, D. C.
JAN 10 1912

Handwritten notes and stamps at the bottom of the page, including a date stamp "JAN 10 1912" and various illegible markings.

GW1

File No.

STATE WATER CONSERVATION BOARD

T. 14 R. 48 17

DUPLICATE

DEC 9 1966

County Prairie

Bill _____ STATE OF MONTANA
 B. _____ ADMINISTRATOR OF GROUNDWATER CODE
 C. _____ OFFICE OF STATE ENGINEER
 D. _____

Top of Ground

(Elev. above sea level. Dicker)

1 black sandy loam
 15 sandy clay and gravel
 10 gumbo
 1 water sand 1 gal min
 22 gumbo
 7 hard coal
 20 gumbo
 18 water sand--dry
 10 gumbo
 8 hard coal water 10 gal min.
 4 gumbo

Notice of Completion of Groundwater Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

Owner Lawrence Keltner Address Terry, MontanaDriller Ira G. Bond Address Terry, Montana

Date of Notice of Appropriation of Groundwater

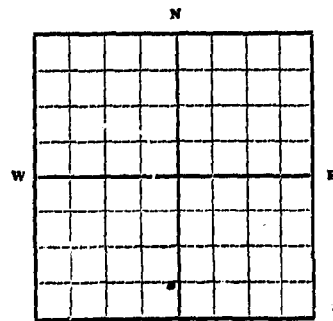
Date well started 10/10/66 Date Completed 10/13/66

Type of well drilled Equipment Used cable
 (dug, driven, bored or (Churn, drill, rotary or
 drilled) 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)
7"	6 5/8" OD	surface	22'			
5 5/8"	4 1/2" OD	20	116	clotted holes	192	112



SE 1/4 SW 1/4 Sec. 17, T. 14, R. 48

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

2.6'

Show exact depth of bottom.

Static Water Level for non-flowing Well 25' feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 100 feet at 3 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Bailer & pump Length of Test 2 hours

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)

37
 Driller's License Number

Ira G. Bond
 Driller's Signature

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

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

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

41,412

88558

FILED	
at 2:05 o'clock P.M.	
DEC - 7 1966	
<i>William H. [Signature]</i> Deputy	
Fee	1.00

Indicate the character, color, thickness of strata such as silt, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Show exact depth of bottom

49471

93328

Water Hill Log
Polly Horner
to
The Public

FILED

at 9:45 o'clock P.M.

NOV 2 1971

John D. [Signature]
Deputy
240 [Signature]

CV

File No.

DUPLICATE

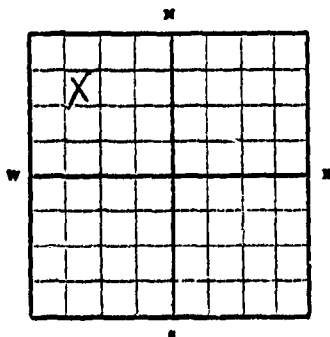
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

T 14th R 48th
County Prairie

RECEIVED
JAN 1 1962
STATE ENGINEER

1. Isabel McLeod of Terry
(Name of Appropriator) (Address) (Town)
County of Prairie State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NW 1/4 Sec. 19, T. 14 N. R. 48 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 is use of pumped well water for stock water.
3. Date or approximate date of earliest beneficial use; and how continuous the use has been since the summer of 1957. Since that date the use of the well for stockwater has been continuous.
4. The amount of groundwater claimed (in miner's inches or gallons per minute) Probably five gallons per minute, to a total of approximately 800 gallons 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 No irrigation.
6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal Withdrawn through two (2) inch pipe in a 6 inch iron casing, with a pump driven by windmill, with engine attachment, located in NW 1/4 of Section 19, Township 14 North, Range 48 East, N.P.M.
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater The well was commenced and completed in the summer of 1957.
8. The depth of water table Approximately 95 feet below 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 Drilled well with 6 inch casing. There is a two inch water pipe in 4 inch cylinder drilled to approximately 95 feet below the surface, with pump jack attached.
10. The estimated amount of groundwater withdrawn each year 260,000 gallons approximately.
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.

Isabel McLeod

Signature of Owner

Date 6-1-62

NOTARY PUBLIC for the State of Montana
Residing at Billings, Montana
My commission expires February 24, 1963

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

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

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

1523 A

Water Well Log
Isabel Mae Leach
to
The Public

FILED
 at 3:50 o'clock P. M.
 JAN 31 1962
 County Clerk
 Fee 2.00
 Deputy

GW-

File No. _____

DUPLICATE

Approved Stock Form—State Publishing Co., Helena, Montana—4223

T. 14 N R 48
County Prairie

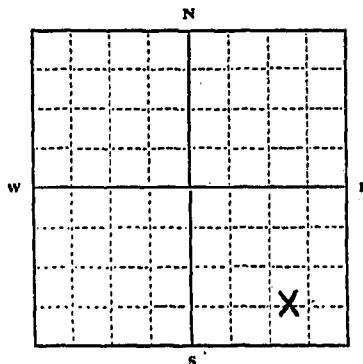
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

R
JAN 6 1964
STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

1. Harold Cole, of Terry
(Name of Appropriator) (Address)
County of Prairie State of Montana (Town)
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec 20 T. 14 R 48

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

2. The beneficial use on which the claim is based Household - stock watering

3. Date or approximate date of earliest beneficial use; and how continuous the use has been 1948 - continuous

4. The amount of groundwater claimed (in miner's inches or gallons per minute) 15 gallons 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 Irrigate garden patch

6. The means of withdrawing such water from the ground and the location 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 withdrawal of groundwater Commenced & completed 1948

8. The depth of water table 38 feet

9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater Drilled - 6 inch casing - 55 feet

10. The estimated amount of groundwater withdrawn each year 500,000 gallons

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

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

Signature of Owner Harold Cole

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.

24960

85621

FILED	
at 5:00	o'clock P.M.
MAR 31 1963	
County Clerk	
Fee 2.00	Stamp

GW 2

MONTANA WATER RESOURCES BOARD

Approved Stock Form—State Publishing Co., Helena, Montana—4855

29

File No.

RECEIVED

T. 14 R. 48

DUPLICATE

MAR 13 1968

County Prairie

LOG

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

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, as amended)

1 top soil
12 yellow clay
1 gravel
26 soft sandstone
17 water sand 16 gpm
3 coal dust
4 gumbo

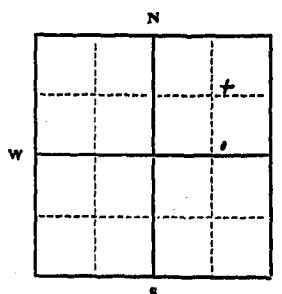
Owner Lee Hubing Address Terry, MontanaDriller Ira C. Bond & Sons Address Terry, Montana

Date of Notice of appropriation of groundwater

Date well started 2/26/68 Date completed 2/28/68Type of well drilled Equipment used cable tool
(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)
7"	4 1/2" od	0	64	3/16	40	57

Static Water Level for non-flowing well
..... 30 feet.

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

Pumping Water Level 54 feet
at 3 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested bailed

Length of Test.....

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

gravel packed

NE 1/4 Sec. 29 T. 14 R. 48
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

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

64

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.

37
Driller's License Number

Driller's Signature

43,964

FOR SUBSCRIPTION TO LOCAL NEWS SERVICE

ADDITION TO BIRTH
DATE OF BIRTH AND CODE
PLACE OF BIRTH AND COUNTRY
OF BIRTH

FILED
 at 6:30 o'clock A.M.
 MAR 12 1968
 [Signature]
 Fed 2-11-64

File No. _____

DUPLICATE

T. 14N R. 4E
County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

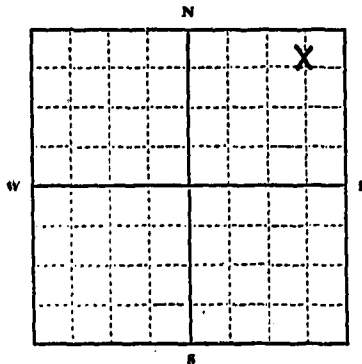
JAN 6 1964

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

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



NE 1/4 Sec 32 T. 14 R. 4E

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 watering
3. Date or approximate date of earliest beneficial use; and how continuous the use has been
1952 - continuous
4. The amount of groundwater claimed (in miner's inches or gallons per minute)
15 gallons 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
Pump
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
Commenced & completed 1952
8. The depth of water table
38 feet
9. So far as it may be available, the type, size and depth of each well or the general specifications of any other works for the withdrawal of groundwater
Drilled - 4 inch casing - 45 feet
10. The estimated amount of groundwater withdrawn each year
650,000 gallons
11. The log of formations encountered in the drilling of each well if available
Not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record
None

Signature of Owner Harold Cole
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; Duplicates to the State Engineer; Triplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

24961

85622

FILED	
at 5:30	o'clock P.M.
FEB 3 1963	
<i>[Signature]</i>	
County Clerk	
Fee 2.50	Deputy

T 14 R 48 33
County Pringle

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

RECEIVED
JAN 2 1962
STATE ENGINEER

X			

Owner Walter Huskauf Address Tarry, Montana
Driller Jim C. Bond Address Tarry, Montana
Date Started October 4, 1961 Date Completed Oct. 7, 1961
Location: Sec. 33 T. 14 R. 48 $\frac{1}{4}$ sec. NW

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

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

Casing: 0 ft. to 55 ft. Type Steel Size 4 in.

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

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

Perforated or Screened: Ft. 33 to ft. 43 Ft. _____ to ft. _____

Type of screen or perforations 5/16 in. holes cut three in apart with torch

Static Water level, for non-flowing well: 16 down to 30 feet.

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

Pumping water level 36 feet at 5 gal. per min.

How tested: with bailer

Length of test for one hour

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

(over)

[illegible][illegible]

82787

Page of

County PRAIRIE Twp. 15N Rge. 49E

[illegible]

T. 15 R. 49 13
County Prairie

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

RECEIVED
JAN 2 1962

STATE ENGINEER

			x

Owner Roland Tibbitts

Address Terry, Montana

Driller IRL C. Bond

Address Terry, Mont.

Date Started 1953

Date Completed 1953

Location: Sec. 13 T. 14 R. 49 1/4 sec. NE 1/4

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

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

Casing: Surface ft. to 22 feet ft. Type steel Size 5"

Casing: 22 ft. to 56 ft. Type steel Size 4"

Casing: ft. to ft. Type Size

Perforated or Screened: Ft. 42 to ft. 52 Ft. to ft.

Type of screen or perforations burned holes

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

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

Pumping water level 50 feet at gal. per min. 5

How tested: galled

Length of test 2 hours

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

(over)

Log of Well

FILED
DEC 29 1961
FBI - NEW YORK

82805

File No. _____

JUN 29 1967

T. 14 N. R. 49 E. 28

DUPLICATE

LOG

Bill _____ County Prairie
 Bldg _____
 City _____ STATE OF MONTANA
 Dept _____ ADMINISTRATOR OF GROUNDWATER CODE
 District _____ OFFICE OF STATE ENGINEER
 District _____

Top of Ground

(Elev. above sea level 2675)0-35 Sandy shale, Lt. Brown Static Appropriation by Means of Well35-40 Sandstone, Dk. Gray DEVELOPED AFTER JANUARY 1, 196240-55 Quicksand, Brown

(Under Chapter 237, Montana Session Laws, 1961)

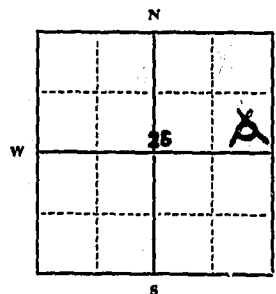
Owner Bureau of Land Management Address Miles City, MontanaDriller Joe Johnson Drilling Address Terry, Montana

Date of Notice of appropriation of groundwater _____

Date well started 4/28/67 Date completed 5/7/67Type of well Drilled Equipment used Cable tool
(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)
8"	6" I.D. 19.18 lb/ft	+3	35	Slots 1/4" X 6"	40	35

Static Water Level for non-flowing well 35 feet.Shut-in Pressure for Flowing Well N/APumping Water Level 45 feet
at 8 gal. per minute.Discharge in gal. per min. of flowing well N/AHow Tested DrillingLength of Test 8 hours

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

Gravel packed with buckshotgravel

(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).

N/A

Show exact depth of bottom.

Kaltner Well #1 (M2-R-1855)

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.

Use answer all questions. If not applicable, so state, otherwise the form will be void.

154
Driller's License Number

Driller's Signature

42,097

NOTICE OF COMPLETION OF GROUNDWATER APPLICATION BY MEANS OF WELL

DEPARTMENT OF MONTANA
 ADMINISTRATION OF GROUNDWATER CODE
 OFFICE OF STATE ENGINEER

DUPLICATE

Top of Ground

10-25 Groundwater, 10-25
 10-25 Groundwater, 10-25
 10-25 Groundwater, 10-25

Police City, Montana

10-25 Groundwater, 10-25

10-25 Groundwater, 10-25

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88985

FILED
 at 9:40 o'clock A.M.
 JUN 28 1967
 County Clerk
 Deputy
 Fee

g
File No.

DUPLICATE

T. 14N R. 49 E. 25
County Prairie

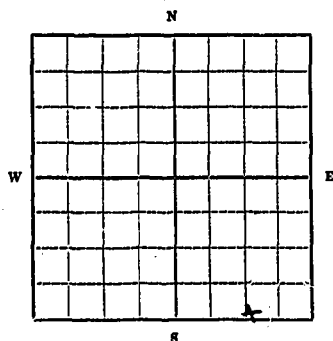
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

RECEIVED
JAN 25 1962

STATE ENGINEER

1. Carl C. Green, of Terry
(Name of Appropriator) (Address) (Town)
County of Prairie State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



SE 1/4 Sec. 25 T. 14 R. 49

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 1951
4. The amount of groundwater claimed (in miner's inches or gallons per minute) 6 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 Pumped
7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater Commenced 1951 - completed 1951
8. The depth of water table 35 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, 4 in casing - 55 ft deep
10. The estimated amount of groundwater withdrawn each year 180,000 gal.
11. The log of formations encountered in the drilling of each well if available Not available
12. Such other information of a similar nature as may be useful in carrying out the policy of this act, including reference to book and page of any county record.

Signature of Owner Carl C. Green

Date Jan 24 - 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.

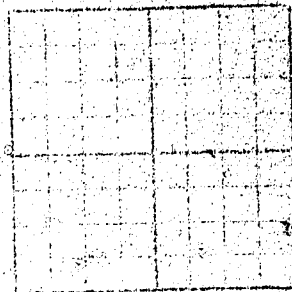
Original to the County Clerk and Recorder; duplicate to the State Engineer; Triplicate to the School of Mines and Quaduplicate for the Appropriator.

1256.

32880

RECEIVED
FEB 20 1964

(1)



RECEIVED
FEB 20 1964

RECEIVED
FEB 20 1964

RECEIVED
FEB 20 1964

RECEIVED
FEB 20 1964

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RECEIVED
FEB 20 1964

RECEIVED
FEB 20 1964

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

MONTANA WATER RESOURCES BOARD

RECEIVED

MAR 5 1971

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner U.S. Bureau of Land Management
Address Miles City, Montana

For Administrator's Use

File 9.2.79.7

3-4-71

Date well started 10-9-70

GW 1

completed 10-19-70

Type of well drilled

(Dug, driven, bored or drilled)

Equipment used cable tool

(Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

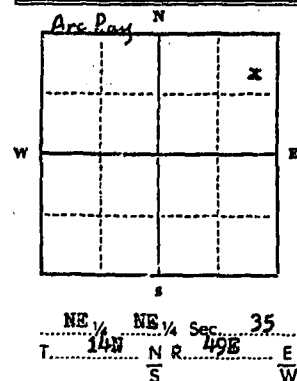
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL 1,000,000 gal

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	6 5/8 18.97#	+ 18"	240	1/2"	200	240



Static water level 105 ft.*
Pumping water level 175 ft.*
at 18 gallons per minute,
measured 160 minutes after pumping
began.

*Measured from ground level.

Well developed by bailer
for 7 hours.

Power Pump HP

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

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

Driller's Signature Briggs Drilling Contractor

Driller's Address P.O. Box 1083, Dillon, Montana

Allen Briggs

LICENSE NO. 148

Top of Ground		(Elev. above sea level)
From (Feet)	To (Feet)	
0	50	brown clay
50	70	blue clay
70	75	coal (water seep)
75	110	blue clay
110	220	gray clay
220	230	sand, coarse 180PH water
230	240	gray clay

240 Show exact depth of bottom

92797

Water Well Log
U. S. Bureau of
Land Management
to
The Public

FILED

11:30 o'clock P.M.

John D. Smith
200 31

ESTIMATED AVERAGE ANNUAL PRECIPITATION

1.000,000 (in)

Year	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	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	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STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner U.S. Bureau of Land Management

Address Missoula City, Montana

Date well started 10-9-70

completed 10-19-70

Type of well drilled

Equipment used cable tool

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

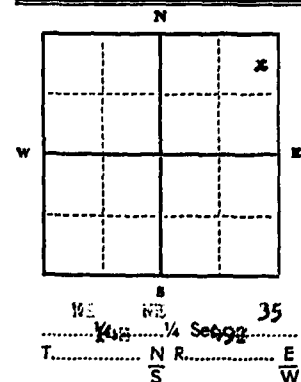
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL 1,000,000 gal

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind	From (Feet)	To (Feet)
8"	6 5/8	18"	240	4x4x4	200	240



Static water level 105 ft.*
Pumping water level 195 ft.*
at 160 gallons per minute,
measured 160 minutes after pumping
began.
*Measured from ground level.
Well developed by water
for 7 hours.
Power Pump HP
Remarks: (Gravel packing, cementing,
packers, type of shutoff)

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

Briggs Drilling Contractor

Driller's Signature

P.O. Box 1063, Missoula, Montana

Driller's Address

148

LICENSE NO.

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground		(Elev. above sea level)
From (Feet)	To (Feet)	
0	30	green clay
30	70	blue clay
70	75	coal (water seep)
75	110	blue clay
110	220	gray clay
220	230	coarse sand
230	240	gray clay

240 Show exact depth of bottom

48044

Page of

County PRAIRIE Twp. 14N Rge. 50E

[illegible]

GW 1

File No. _____

DUPLICATE

T. 14 N. R. 50

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

RECEIVED
Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

Top of Ground
(Elev. above sea level _____)
10' Sandy yellow shale
46' Gumbo
8' Coal
8' Gumbo
4' Rock
58' Gumbo
2' Coal
8' Gumbo
6' Water sand I G.P.M.
42' Gumbo
12' Water sand- 5 G.P. M.
4' Gumbo

Owner. Joe Roos

Address Terry, Mont.

Driller. Ira C. Bond

Address Terry, Mont.

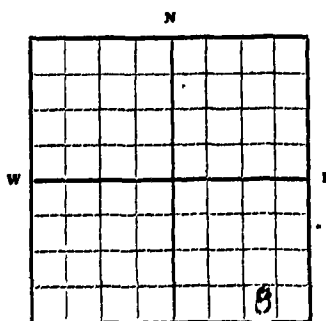
Date of Notice of Appropriation of Groundwater _____

Date well started July 6, 1961 Date Completed July 12

Type of well Drilled
(dug, driven, bored or drilled)Equipment Used Cable
(Churn, drill, rotary or other)Water Use: Domestic ☐ Industrial ☐Municipal ☐ Drainage ☐Stock ☒ Other ☐Irrigation ☐

Indicate on the diagram the character and thickness of the different strata met with in drilling, such as silt, 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)
55/8	4"	Ground Level	174	5/16 Burned	138	148
	11 lb.				156	170



SW of SE 1/4 Sec. 2 T. 14 N. R. 50.

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

174'

Show exact depth of bottom.

Static Water Level for non-flowing Well _____ feet.

Shut-in Pressure for Flowing Well _____

Pumping Water Level 155 feet at 4 gal. per minute.

Discharge in gal. per min. of flowing well _____

How Tested Pump Length of Test _____

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of

acres irrigated, if used for irrigation) _____

37
Driller's License Number

Driller's Signature

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

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

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

4947

1001

HOW BUREAU AND FIELD OFFICE

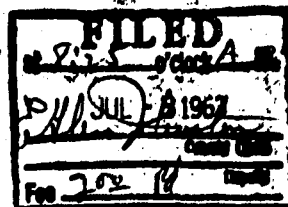
SECTION

1970

24 ME 1970

84667

Inter Hall Log
Joe P...
Ta Puthi



CV

File No.

DUPLICATE

T. 14 N. R. 50

County PRAIRIE

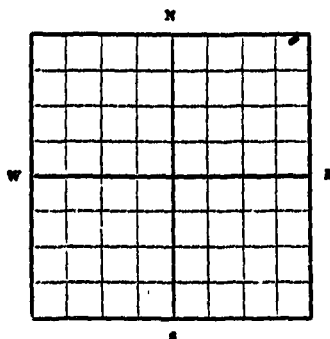
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

RECEIVED
DEC 23 1963

STATE ENGINEER

1. Joe Rose of TERRY
(Name of Appropriator) (Address) (Town)
County of PRAIRIE State of MONT
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



NE 1/4 Sec. 12 T. 14 R. 50

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 1948
CONTINUOUSLY

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

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater OCT. 1948

8. The depth of water table 9.2 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 4" CASING 140 FEET
2" C.Y.M. WINDMILL

10. The estimated amount of groundwater withdrawn each year 525,600 GAL

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

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

Signature of Owner Joe Rose

Date Dec. 11, 1963

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

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

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

11862

85398

FILED	
at <u>7:15</u>	o'clock <u>P.</u> M.
DEC 20 1963	
<i>Wm. J. Johnston</i> Deputy	
Fee <u>\$ 2.00</u>	

County Prairie 13

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

MAR 5 1971

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner U. S. Bureau of Land
Management

Address Miles City, Montana

Erskett well

Date well started10-20-70

completed 10-24-70

For Administrator's Use

File 92798

3-4-71

GW 1

Type of well drilled

(Dug, driven, bored or drilled)

Equipment used cable tool

(Churn drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

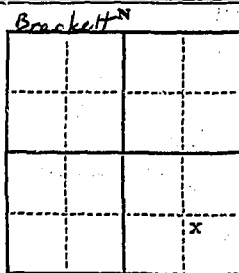
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

***Describe**

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

ESTIMATED ANNUAL WITHDRAWAL 1,000,000. Gal.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	6 5/8 18.97	+ 18"	99	1 inch torch	40 89	45 95



Static water level 31 ft.*
Pumping water level 80 ft.*
at 3 gallons per minute,
measured 120 minutes after pumping
began.

*Measured from ground level.

Well developed by bailer

for 4 hours.

Power..... Pump..... HP

Remarks: (Gravel packing, cementing,

packers, type of shutoff)

packers set above &

between aquifers perforated.

SE 1/4 SE 1/4 Sec 13
T. 14N N R. 50E E
S W

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

Driller's Signature Briggs Drilling Contractor

Driller's Address: P.O. Box 1083, Billon, Montana 59725

LICENSE NO. 148

100 Show exact depth of bottom

148197

Water Fuel Log
B. L. M.
to
The Public

At 1130 o'clock PM

John D. Bristol
Vice M. Jackson
200 3d
County Clerk
Deputy

MONTANA WATER RESOURCES BOARD
 ADMINISTRATOR OF GROUNDWATER CODES
 STATE OF MONTANA

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, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 26

(Under Capital and Reserve Section Line 16) as unshared.

5000

These parties consistently vote according to their own interests, rather than to party discipline. The conservative right (conservative Republicans and conservative Democrats) are consistently more liberal than the liberal left (liberal Democrats and liberal Republicans) on issues based on values. Right to life, for example, is a value issue that is assigned

12

333

County... Prairie 13

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Owner U. S. Bureau of Land

Owner Management
Address Miles City, Montana

Address Miss City, Montana

Brackett val3

Date well started : 10-20-70

completed 10-24-70

Type of well drilled

Type of well drilled

Equipment used double tool

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

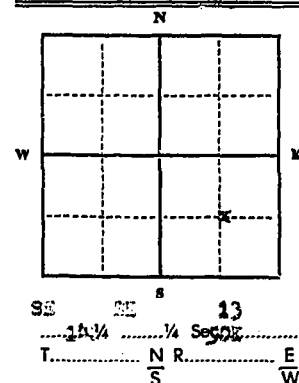
Industrial ☐ Drainage ☐ Other ☐* Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL 1,000,000. Gal.

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
8"	6 5/8 18.97	18"	99	6 5/8 18.97	40 99	45 95



31

Static water level 30 ft.*

Pumping water levelft.
at 100 gallons per minute

measured minutes after pumping

began.

*Measured from ground level.

Well developed by
for hours

Power Pump HE

Remarks: (Gravel packing, cementing)

packers, type of shutoff &.....

between aquifers perforated:

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

Griggs Drilling Contractor

Driller's Signature _____

P.O. Box 1083, Dillon, Montana 59725

Driller's Address

146

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground

(Elev. above sea level)

[illegible]

100

Show exact depth of bottom

4/80 45

RECEIVED

DEC 23 1971

County Prairie 14

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

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

This form to be prepared by driller, and three copies to be filed by the owner with the County Clerk and Recorder in the county in which the well is located, last copy to be retained by driller. Please answer all questions. If not applicable, so state, otherwise the form may be returned. Cliff Well

Owner Bureau of Land Management

Address Miles City, Mont.

Date well started 5/26/71

completed 5/28/71

Type of well Drilled

Equipment used Air Rotary

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

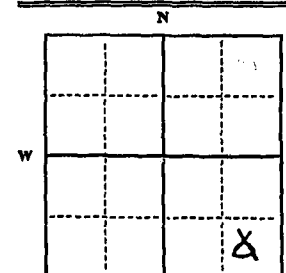
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
7 7/8"	6" ID 18.97#	+1	340	Slots 1/8 X 6"	100	121
					140	181
					240	260
					320	340



SE 1/4 SE 1/4 Sec. 32 14
T. 14N N.R. 50E E
S W

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

Driller's Signature Joe Johnson

Driller's Address Joe Johnson Drig., Terry, Montana

LICENSE NO. 154

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground (Elev. above sea level)		
From (Feet)	To (Feet)	
0	10	Fine Gray Sand
10	20	Fine Brown Sand
20	45	Gray & Brown Sand
45	50	Gray Rock (Very hard)
50	60	Gray Clay
60	80	Fine Gray Sand
80	130	Blue Shale with stringers of Coal
130	134	Cl/ Coal
134	135	Gray Rock
135	160	Gray Clay
160	170	Gray Sand
170	180	Coal
180	240	Gray Clay
240	243	Rock
243	250	Gray Sand
250	280	Gray Clay
280	295	Gray Sand
295	297	Rock
297	310	Clay
310	340	Gray Sand

340' Show exact depth of bottom

49627

93444

Water Well Log
Bureau of Land Management
to
The Public

FILED

9:15 o'clock P.M.

DEC 22 1971

John S. [Signature]
Vice M. [Signature]
200 [Signature]

RECEIVED

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WATER RESOURCES DIVISION
WASHINGTON, D.C. 20250

81942

T. _____ R. 26County PrairieMONTANA BUREAU OF MINES AND GEOLOGY
Butte, MontanaRECEIVED
MAR 20 1961

WATER WELL LOG

STATE ENGINEER

Owner Cliff Dolatta Address Terry, Mont.Driller Henry I Johnson Address Terry, Mont.Date Started Oct. 1959 Date Completed Dec. 1960Location: Sec. 26 T. 14 R. 50 $\frac{1}{4}$ sec. SWType 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 212 ft. Type Std. Pipe Size 4"

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

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

Perforated or Screened: Ft. 168 to ft. 210 Ft. _____ to ft. _____Type of screen or perforations HolesStatic Water level, for non-flowing well: 126 feet.

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

Pumping water level: 160 feet at 12 gal. per min.How tested: BailerLength of test: 1 hr

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

(over)

Log of Well

[illegible]

File No.

T.14N R.50E 28

DUPLICATE FLAKE WELL
LOGCounty—PrairieSTATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
STATE WATER CONSERVATION BOARD

Top of Ground

(Elev. above sea level. 2625)Notice of Completion of Groundwater
Appropriation by Means of Well
DEVELOPED AFTER JANUARY 1, 1962

0 - 10 Lt. Brn. Sand
10 - 20 Sand & Stringer of Coal
20 - 30 Sandy Clay Yellow
30 - 40 Blk. Gumbo
40 - 50 Sandy Gray Clay
50 - 80 Sandy Gray Clay
80 - 100 Fine Gray Sand
100 - 130 Lt. Gray Sandy Clay
130 - 150 Gray Sand-Stone
150 - 180 Gray Sand
180 - 190 Sand & Coal
190 - 214 Gray Sandstone

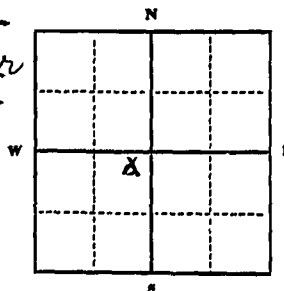
Owner—BLM Address—Miles City
Driller—Joe Johnson Drig. Address—Terry, Mont.
Date of Notice of appropriation of groundwater.....
Date well started—6/2/70 Date completed—6/3/70
Type of well—Drilled Equipment used—Rotary
(Dug, driven, bored or drilled) (Cable tool, rotary or other)
Water use: Domestic ☐ 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)
7 7/8"	6" ID 18.97	41	214	Holes 3/8"	60	80
					191	214

Doc. No. 92357

Filed for record

on 11 day of SeptemberA.D. 1970, at 12:00by A.Static Water Level for non-flowing well
45 feet.

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

Pumping Water Level 175 feet
at 7 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested—Bailer TestedLength of Test—4 hrs.

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

NE 1/4 Sec. 22 T.14N R. 50E
Indicate location of well and place of use, if possible. Each small square represents 40 acres.

(Continue on reverse side)

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

Show exact depth of bottom.

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

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

154
Driller's License Number

Driller's Signature.

47500

T. _____ R. 34

County Prairie

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

RECEIVED
JAN 2 1962

WATER WELL LOG

STATE ENGINEER

Owner Mr. Cliff Rolatta Address July 7, 1961

Driller Harry J. Johnson Address July 7, 1961

Date Started July 29 '61 Date Completed July 31 '61

Location: Sec. 34 T. 14 R. 50 $\frac{1}{4}$ sec. NE

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

Water use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

Industrial ☐ Drainage ☐ Other: _____

Casing: 0 ft. to 72 ft. Type 4 1/2" Size 4"

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

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

Perforated or Screened: Ft. 72 to ft. 72 Ft. _____ to ft. _____

Type of screen or perforations: 3/16"

Static Water level, for non-flowing well: 21 feet.

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

Pumping water level: 80 feet at 12 gal. per min.

How tested: Bar

Length of test: 1 hr

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

(over)

Log of Well

[illegible]

82809

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
MONTANA WATER RESOURCES BOARD

NOTICE OF COMPLETION OF GROUNDWATER
APPROPRIATION BY MEANS OF WELL

Developed after January 1, 1962

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

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

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

Hotgold Well

Owner Bureau of Land Management

Address Missoula, Montana

Date well started 6/12/73

completed 6/13/73

Type of well Drilled

(Dig, driven, bored or drilled)

Equipment used Rotary

(Chain drill, rotary or other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐

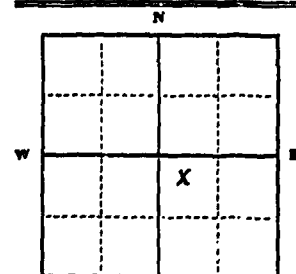
Industrial ☐ Drainage ☐ Other ☐ Garden/Lawn ☐

*Describe

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

ESTIMATED ANNUAL WITHDRAWAL

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind and Size	From (Feet)	To (Feet)
7 7/8"	6" JD 18.5TH	+1	276	slots 1/8 X 6"	235	277



NE 1/4 SE 1/4 Sec 29
T. 74N. R. 50E
S. W.

Static water level 160 ft.*
Pumping water level 227 ft.*
at 90 gallons per minute,
measured 120 minutes after pumping began.

*Measured from ground level.

Well developed by Rotary
for 2 hours.

Power..... Pump..... HP

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

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

Driller's Signature

Driller's Address

Joe Johnson
Joe Johnson Driller, Terry, Montana

LICENSE NO. 154

RECEIVED County Prairie

JUN 27 1973

DRILLER'S LOG

Indicate the character, color, thickness of strata such as soil, clay, sand, gravel, shale, sandstone, etc. Show depth at which water is found and height to which water rises in well.

Top of Ground

(Elev. above sea level)

From (Feet)	To (Feet)	
0	10	Brown sand
10	20	Sand & Gravel
20	30	Red clay & stringers of Coal
30	35	Yellow Clay
35	55	Gray Clay
55	60	Coal
60	75	Gray clay
75	85	Gray sandstone
85	95	Gray Clay
95	175	Gray sandstone
175	165	Brown il. gray clay with stringers of Coal
165	175	Sandstone
175	195	Gray clay with stringers of Sandstone
195	205	Blue Clay
205	276	Gray Sandstone

276 Show exact depth of bottom

53,258

94917

State Hill Log

B L m.
to
The Public

FILED
at 9:45 o'clock P.M.
JUN 25 1973
John P. [Signature]
Wendy M. [Signature]
20

GROUNDWATER INDEX

Page ____ of ____

County PRAIRIE Twp. 1410 Rge. 51E

[illegible]

File No.

DUPLICATE

T. 14 N. R. 51 E.
County Pratt

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

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

(Under Chapter 237, Montana Session Laws, 1961)

RECEIVED
JUL 17 1963
STATE ENGINEER

Top of Ground
(Elev. above sea level.....)
6' Sandy Loam
14' Sand
8' Gravel
26' Blue Shale
2' Rock
61' Blue Shale
18' Water Sand
4' Blue Shale

Owner Nels Undem Address Terry, Mont.

Driller Ira C. Bond Address Terry, Mont.

Date of Notice of Appropriation of Groundwater

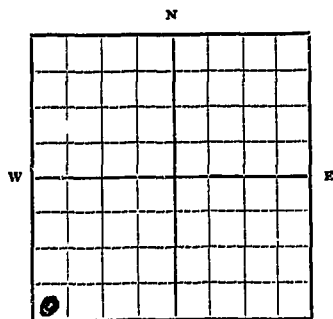
Date well started July 7, 1960 Date Completed July 12

Type of well..... Equipment Used.....
(dug, driven, bored or (Churn, drill, rotary or
drilled) other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
Industrial ☐ Drainage ☐ Other ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
6 5/8"	4"	0'	28'			
		0'	84'	Burred	62'	80'



SW 1/4 Sec 20 T. 14 N. R. 51 E.
Indicate location of well and place of use, if possible. Each small square represents 10 acres.

84'

Show exact depth of bottom.

Static Water Level for non-flowing Well.....40.....feet.

Shut-in Pressure for Flowing Well

Pumping Water Level.....50.....feet at.....8.....gal. per minute.

Discharge in gal. per min. of flowing well

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

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of

acres irrigated, if used for irrigation)

37

Driller's License Number

Ira C. Bond
Driller's Signature

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

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

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

GW/

File No.

DUPLICATE

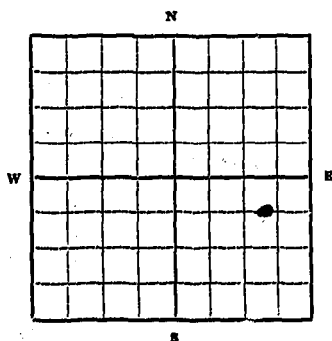
STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

T. 14N R. 51E 23
County Prairie
RECEIVED
JUL 11 1961
STATE ENGINEER

1. John and Borghild Carlson of Terry
(Name of Appropriator) (Address) (Town)
County of Prairie State of Montana
have appropriated groundwater according to the Montana laws in effect prior to January 1, 1962, as follows:



16 1/4 Sec. 23 T. 14 R. 51

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. 2, 1951 3.8 Months each summer since

4. The amount of groundwater claimed (in miner's inches or gallons per minute)
8 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
Jump & windmill

7. The date of commencement and completion of the construction of the well, wells, or other works for withdrawal of groundwater
Sept. 3, 1951 completed Sept. 9, 1951

8. The depth of water table 58 ft. - Water raises from 238 to 180 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
4 in. casing and 2 in. tubing

10. The estimated amount of groundwater withdrawn each year 2,000,000 gal. per year

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

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

Signature of Owner

John H. Carlson
Borghild Carlson

Date 7/10/63

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

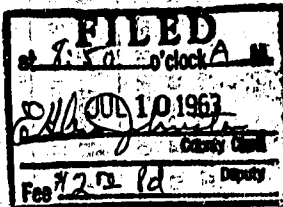
Please answer all questions. If not applicable, so state, otherwise the form will be returned.

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

4996

84675

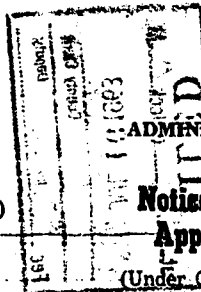
CIVIL ENGINEER



GW2

File No.

DUPLICATE



T. 34 - R. 51

County Prairie

STATE OF MONTANA
ADMINISTRATOR OF GROUNDWATER CODE
OFFICE OF STATE ENGINEER

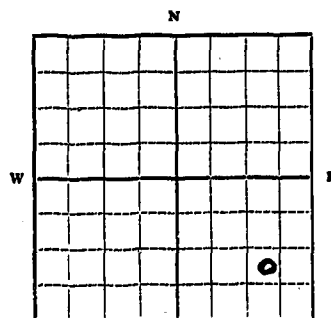
Notice of Completion of Groundwater
Appropriation by Means of Well

(Under Chapter 237, Montana Session Laws, 1961)

5'	Top of Ground	(Elev. above sea level.....)	Owner <u>Nels Undem</u>	Address <u>Tarry, Mont.</u>
15'	Gravel		Driller <u>Ira C. Bond</u>	Address <u>Tarry, Mont.</u>
30'	Blue Shale		Date of Notice of Appropriation of Groundwater	
4'	Coal		Date well started <u>April 4, 1959</u>	Date Completed <u>April 10</u>
16'	Blue Shale		Type of well <u>Drilled</u>	Equipment Used <u>Cable</u>
6'	Coal		(dug, driven, bored or	(Churn, drill, rotary or
4'	Blue Shale		drilled)	other)
16'	Water Sand		Water Use: Domestic <input type="checkbox"/> Municipal <input type="checkbox"/> Stock <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/>	
4'	Blue Shale Bottom		Industrial <input type="checkbox"/> Drainage <input type="checkbox"/> Other <input type="checkbox"/>	

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)
7" O.D.	Top of Ground	22'				
4"	Top of ground	100'		5/16" Burred	80'	96'



S E 1/4 Sec. 26 T. 14. R. 51

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

100' Show exact depth of bottom.

Static Water Level for non-flowing Well 25 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 85 feet at 4 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Pump Length of Test

Remarks: (Gravel packing, cementing, packers, type of shutoff, location of place of use of groundwater if not at well, and any other similar pertinent information, including number of

acres irrigated, if used for irrigation)

Driller's License Number 37Driller's Signature Ira C. Bond

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.

5054

RECEIVED
STATE ENGINEER
84730

Not to exceed 10 minutes
Not to exceed 10 minutes

FILED
at 2:30 o'clock A.M.
JUL 16 1963
County Clerk
Fee \$2.00-1d

File No.

MONTANA WATER RESOURCES BOARD

T. 14 R. 51 29

DUPLICATE

RECEIVED

OCT 31 1967

County Prairie

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**

(Under Chapter 237, Montana Session Laws, 1961)

1 top soil
22 yellow clay
8 gumbo
7 sand stone
10 gumbo
10 water sand seep
12 gumbo
4 water sand seep
6 coal
8 water sand 1 gpm
6 gumbo
1 hard rock
3 water sand
8 gumbo
24 coal
37 gumbo
16 water sand 4 gpm
2 ~~gumbo~~ coal
7 gumbo

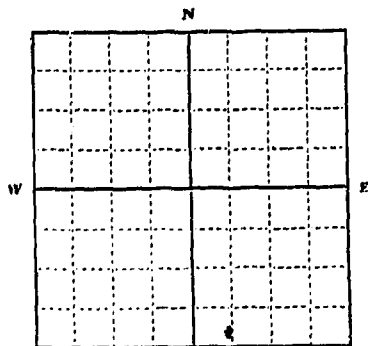
Owner Nels Undum Address Terry, Mont.Driller Ira C. & Sons Address Terry, Mont.

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

Date well started 11/3/66 Date Completed 11/5/66Type of well drill Equipment Used cable tool
(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	4 1/2 od	0	186	5/16	167	177



SW 1/4 Sec. 29 T. 14 R. 51

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 20 feet.

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

Pumping Water Level 180 feet at 3 gal. per minute.

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

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

37
Driller's License NumberRobert Bond
Driller's Signature

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

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

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

42.439

TO: [illegible]
FROM: [illegible]
SUBJECT: [illegible]

[Faint, mostly illegible text in the upper left section of the document]

[Faint, mostly illegible text in the lower left section of the document]

89258

FILED
at 1:45 o'clock P.M.
OCT 30 1967
[Signature]
County Clerk
[Signature]
Deputy
Fee *[initials]*

File No.

DUPLICATE

STATE WATER CONSERVATION BOARD

T. 14 R. 51 29

FEB 3 1967

County Prairie

State of Montana
 ADMINISTRATOR OF GROUNDWATER CODE
 OFFICE OF STATE ENGINEER

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

(Under Chapter 237, Montana Session Laws, 1961)

Top of Ground

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

1 black sandy top soil
 22 yellow clay
 8 gumbo
 7 sand stone
 10 gumbo
 10 water sand, seap
 12 gumbo
 4 water sand, seap
 6 coal
 8 water sand, 1 gal min
 6 gumbo
 1 hard rock
 3 water sand, seap
 8 gumbo
 24 coal
 39 gumbo
 10 water sand 4 gal min
 2 coal
 7 gumbo

Owner Nels Undom Address Terry, MontanaDriller Ira C. Bond Address Terry, Montana

Date of Notice of Appropriation of Groundwater

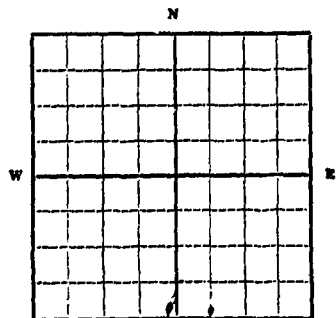
Date well started Nov. 12, 66 Date Completed 11/22/66

Type of well drilled Equipment Used cable
 (dug, driven, bored or (Churn, drill, rotary or
 drilled) other)

Water Use: Domestic ☐ Municipal ☐ Stock ☒ Irrigation ☐
 Industrial ☐ Drainage ☐ Other ☐

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

Size of Drilled Hole	Size and Weight of Casing	From (Feet)	To (Feet)	PERFORATIONS		
				Kind Size	From (Feet)	To (Feet)
5 5/8	4" ID	surface	186	1 7/8" slots	167	177



2W 14 SE Sec. 29 T. 14 R. 51

Indicate location of well and place of use, if possible. Each small square represents 10 acres.

186

Show exact depth of bottom.

Static Water Level for non-flowing Well 160 feet.

Shut-in Pressure for Flowing Well

Pumping Water Level 168 feet at 3 gal. per minute.

Discharge in gal. per min. of flowing well

How Tested Driller and pump Length of Test 2 hours

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)

Driller's License Number

Driller's Signature

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

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

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

41695

1967 FEB 22 10 00 AM
COUNTY CLERK
COUNTY OF LOS ANGELES
FILED

1967 FEB 22 10 00 AM
COUNTY CLERK
COUNTY OF LOS ANGELES
FILED

1967 FEB 22 10 00 AM
COUNTY CLERK
COUNTY OF LOS ANGELES
FILED

1967 FEB 22 10 00 AM
COUNTY CLERK
COUNTY OF LOS ANGELES
FILED

1967 FEB 22 10 00 AM
COUNTY CLERK
COUNTY OF LOS ANGELES
FILED

1967 FEB 22 10 00 AM
COUNTY CLERK
COUNTY OF LOS ANGELES
FILED

88710
FILED
at 2:00 o'clock P.M.
FEB-2 1967
County Clerk
Deputy
Fee 2.00 Pd.

STATE OF MONTANA



OIL AND GAS CONSERVATION COMMISSION

325 FULLER AVENUE
BOX 217
HELENA, MONTANA 59601

ADMINISTRATORS
NORMAN J. BEAUDRY, EXEC. SECY.
P. O. BOX 517
HELENA, MONTANA 59601

DONALD A. GARRITY, ATTORNEY
422 NORTH PARK AVENUE
HELENA, MONTANA 59601

JUDSON B. SWEET,
PETROLEUM ENGINEER
15 POLY DRIVE
BILLINGS, MONTANA 59101

HERBERT D. MADLEY, GEOLOGIST
15 POLY DRIVE
BILLINGS, MONTANA 59101

MONTANA WATER RESOURCES BOARD

RECEIVED

NOV 24 1969

November 21, 1969

Water Conservation Board
Water Resources Engineer
Sam W. Mitchell Bldg.
Helena, Montana 59601

MONTANA WATER RESOURCES BOARD

Dr. _____ Pln. _____
Adm. _____ Inv. _____
Eng. _____ S. d. _____
SWD _____ JDC _____
GnW _____ WSW _____

Dear Sir:

Enclosed you will find a copy of a well Release Agreement for utilization of fresh water wells.

1. W. E. Andrau
NPRE #1-29
Section 29, Township 14 North, Range 51 East.

Yours very truly,

N. J. Beaudry
Norman J. Beaudry
Executive Secretary

NJB/pz
Encl.

cc: Mr. E. W. Vond
Bureau of Mines and Geology
Butte, Montana 59701

29

COMMISSIONERS

WINSTON L. COX, CHAIRMAN
625 SECURITIES BLDG.
BILLINGS, MONTANA 59101

ALLEN ZIMMERMAN, VICE CHAIRMAN
P. O. BOX 277
POPLAR, MONTANA 59758

E. C. SALSAN
2300 PEARL
MILES CITY, MONTANA 59501

L. V. HARRIS
NORDEY BLOCK BLDG.
HELENA, MONTANA 59601

C. J. IVERSON
WHITLASH, MONTANA 59548