



# WATER-RIGHT DOCKET

## Grant-Kohrs Ranch National Historic Site

Docket No: 17

NORTH FRONTAGE ROAD PASTURE WELL

State Water Rights Documentation

09-10-1999: notice of completion of gw development

Form No. 602 R7/91

### NOTICE OF COMPLETION OF GROUNDWATER DEVELOPMENT

For groundwater developments with a maximum use of 35 GPM not to exceed 10 AC-FT per year.

GROUNDWATER IS DEFINED AS ANY WATER BENEATH THE GROUND SURFACE.  
(Use Form 600, Application for Beneficial Water Use Permit for appropriations in excess of 35 GPM or 10 AC-FT per year.)

**IMPORTANT**

The right to use groundwater is not automatic. State law requires this form be filed by the well owner within 60 days after the water has been put to use. Your priority is determined by the date of filing. Complete the notice and attach an aerial photo, survey or other map showing the location of your development. Submit it with the \$20.00 filing fee, payable to DNRC, to the appropriate Water Resources Regional office. Their addresses are listed on the back. The form will be returned if any of the pertinent information is incomplete.

**FOR DEPARTMENT USE ONLY**

Notice No. \_\_\_\_\_ Basin \_\_\_\_\_

Priority Date \_\_\_\_\_  
Time \_\_\_\_\_ AM/PM  
Received By \_\_\_\_\_  
Fee Received \_\_\_\_\_  
Check No. \_\_\_\_\_  
Transmittal No. \_\_\_\_\_  
Refund \_\_\_\_\_

(Please type or print in ink)

1. NAME National Park Service, Grant-Kohrs Ranch Nat'l. Hist. Site  
MAILING ADDRESS P.O. Box 790  
CITY Deer Lodge STATE Montana ZIP 59722  
HOME PHONE (406) 846-2070 OTHER PHONE (406) 846-3470

2. SOURCE OF GROUNDWATER SUPPLY ☒ Well ☐ Developed Spring (excavation performed)  
☐ Pit ☐ Other \_\_\_\_\_

3. ACTUAL PUMPING RATE 6 GPM Pump: HP Rating 1/2 hp Installation Depth 90 ft.

4. DATE WATER PUT TO BENEFICIAL USE Sept 2, 1999 month/day/year

5. DOES THIS WELL REPLACE AN EXISTING WELL? ☐ Yes ☒ No  
If Yes, complete the following information pertaining to the existing (old) well. Contact your regional office, you may be able to file a change in point of diversion and retain the priority date of the old well.  
Old Well Depth \_\_\_\_\_ ft. Old Well GPM \_\_\_\_\_ Date Old Well Drilled \_\_\_\_\_ month/day/year

6. WILL THIS DEVELOPMENT Be Used In Combination With Another Groundwater Development? ☐ Yes ☒ No  
If Yes, what is the combined appropriation? \_\_\_\_\_ GPM Water Right No. \_\_\_\_\_

7. POINT OF DIVERSION The land description must be described to a 10-acre area, ie: to the 1/4-1/4. Legal land descriptions can be obtained from your county records.  
SW 1/4 SW 1/4 NE 1/4 Section 28 Twp 8N N/S Rge 9W E/W County Powell  
Lot \_\_\_\_\_, Block \_\_\_\_\_, Tract No. \_\_\_\_\_, Subdivision \_\_\_\_\_, Government Lot \_\_\_\_\_

8. PLACE OF USE Purpose of Use stockwater If Same As Point of Diversion, CHECK ☒  
NW 1/4 NW 1/4 NE 1/4 Section 28 Twp 8N N/S Rge 9W E/W County Powell  
Lot \_\_\_\_\_, Block \_\_\_\_\_, Tract No. \_\_\_\_\_, Subdivision \_\_\_\_\_, Government Lot \_\_\_\_\_  
Purpose of Use \_\_\_\_\_ If Same As Point of Diversion, CHECK ☒  
Lot \_\_\_\_\_, Block \_\_\_\_\_, Tract No. \_\_\_\_\_, Subdivision \_\_\_\_\_, Government Lot \_\_\_\_\_

9. PURPOSE AND PERIOD OF USE:  
Domestic: Number Of Families Currently Using Water From This Development? \_\_\_\_\_ Year-round use? ☐ Yes ☐ No  
If No: From \_\_\_\_\_ month/day To \_\_\_\_\_ month/day, Inclusive of Each Year  
Lawn and/or Garden: Size of Area Watered (length in feet) \_\_\_\_\_ and (width in feet) \_\_\_\_\_ OR Number of Acres \_\_\_\_\_  
Period of Use: From \_\_\_\_\_ month/day To \_\_\_\_\_ month/day, Inclusive of Each Year  
☒ Stock: Number and Type 100 pair of beef cattle Year-round use? ☐ Yes ☒ No  
If No: From \_\_\_\_\_ month/day To \_\_\_\_\_ month/day, Inclusive of Each Year  
Irrigation: Type of Crop or Shelterbelt \_\_\_\_\_ Number of Acres \_\_\_\_\_  
Period of Use: From \_\_\_\_\_ month/day To \_\_\_\_\_ month/day, Inclusive of Each Year  
Other: Describe the Purpose of Use \_\_\_\_\_  
Amount of Water Used \_\_\_\_\_ gallons per day Year-Round Use? ☐ Yes ☐ No  
If No: From \_\_\_\_\_ month/day To \_\_\_\_\_ month/day, Inclusive of Each Year

10. REMARKS (Use this space for additional information.)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

11. AFFIDAVIT OF OWNERSHIP OR WRITTEN CONSENT  
The Appropriate certifies the statements appearing here are to the best of the appropriators knowledge, true and correct. The Appropriate also certifies the appropriator has a possessory interest in the property where the water is to be put to a beneficial use and exclusive property rights in the groundwater development or the written consent of the person with those property rights.

Appropriator's Signature: Anthony J. Schetzels Date: 9-10-99  
Subscribed and sworn before me this 10th day of September, 1999  
Notary's Signature: Tammie L. Cooper  
Notary for the State of Montana  
Residing at Deer Lodge  
My commission expires February 27, 2002

**MONTANA DEPARTMENT OF NATURAL RESOURCES & CONSERVATION**  
1520 EAST SIXTH AVENUE HELENA, MONTANA 59620-2301 444-6610 **DNRC**

Form No. 603 (R 2-89)

## WELL LOG REPORT

File No. \_\_\_\_\_

State law requires that the Bureau's copy be filed by the water well driller within 60 days after completion of the well.

| <b>1. WELL OWNER</b> <u>U.S.D.O.</u><br>Name <u>Quant Hobas Ranch</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    | f) Duration of test: Pumping time <u>3</u> hrs.<br>g) Recovery time <u>1</u> hrs.<br>h) Recovery water level <u>29</u> ft. at <u>2</u> hrs. after pumping stopped.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
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| <b>2. CURRENT MAILING ADDRESS</b><br><u>Missouri Ave P.O. Box 790</u><br><u>Deer Lodge</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    | Wells intended to yield 100 gpm or more shall be tested for a period of 8 hours or more. The test shall follow the development of the well, and shall be conducted continuously at a constant discharge at least as great as the intended appropriation. In addition to the above information, water level data shall be collected and recorded on the Department's "Aquifer Test Data" form.<br>NOTE: All wells shall be equipped with an access port 1/2 inch minimum or a pressure gauge that will indicate the shut-in pressure of a flowing well. Removable caps are acceptable as access ports.                                                                                                                                                                                                                                                                |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| <b>3. WELL LOCATION</b><br><u>NE 1/4 SW 1/4</u> Section <u>28</u><br>Township <u>8</u> Range <u>9</u> EAD County <u>Powell</u><br>Gov't Lot _____, or Lot _____, Block _____<br>Subdivision Name _____<br>Tract Number _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    | <b>11. WAS WELL PLUGGED OR ABANDONED?</b> Yes _____ No _____<br>If yes, how? _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| <b>4. PROPOSED USE:</b> Domestic <input type="checkbox"/> Stock <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/><br>Other <input type="checkbox"/> specify _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    | <b>12. WELL LOG</b><br><table border="1"> <thead> <tr> <th>From</th> <th>To</th> <th>Formation</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1</td> <td>Top soil</td> </tr> <tr> <td>1</td> <td>5</td> <td>SAND + GRAVEL</td> </tr> <tr> <td>5</td> <td>11</td> <td>Boulders, cobbles + SAND</td> </tr> <tr> <td>11</td> <td>22</td> <td>Very hard Angular gravel (small)</td> </tr> <tr> <td>22</td> <td>37</td> <td>SAND + FINE GRAVEL</td> </tr> <tr> <td>37</td> <td>54</td> <td>SANDY CLAY</td> </tr> <tr> <td>54</td> <td>66</td> <td>CLAY GRAVEL AND SAND</td> </tr> <tr> <td>66</td> <td>72</td> <td>SANDY CLAY (Red)</td> </tr> <tr> <td>72</td> <td>84</td> <td>SANDY CLAY (TAN)</td> </tr> <tr> <td>84</td> <td>95</td> <td>SAND AND FINE GRAVEL (Water)</td> </tr> <tr> <td>95</td> <td>97</td> <td>STIFF TAN CLAY + SAND</td> </tr> </tbody> </table> |  | From | To | Formation | 0 | 1 | Top soil | 1 | 5 | SAND + GRAVEL | 5 | 11 | Boulders, cobbles + SAND | 11 | 22 | Very hard Angular gravel (small) | 22 | 37 | SAND + FINE GRAVEL | 37 | 54 | SANDY CLAY | 54 | 66 | CLAY GRAVEL AND SAND | 66 | 72 | SANDY CLAY (Red) | 72 | 84 | SANDY CLAY (TAN) | 84 | 95 | SAND AND FINE GRAVEL (Water) | 95 | 97 | STIFF TAN CLAY + SAND |
| From                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | To | Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1  | Top soil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5  | SAND + GRAVEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11 | Boulders, cobbles + SAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 22 | Very hard Angular gravel (small)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 37 | SAND + FINE GRAVEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 54 | SANDY CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 66 | CLAY GRAVEL AND SAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 72 | SANDY CLAY (Red)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 84 | SANDY CLAY (TAN)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 95 | SAND AND FINE GRAVEL (Water)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| 95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 97 | STIFF TAN CLAY + SAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| <b>5. TYPE OF WORK:</b><br>New well <input checked="" type="checkbox"/> Method: Dug <input type="checkbox"/> Bored <input type="checkbox"/><br>Deepened <input type="checkbox"/> Cable <input checked="" type="checkbox"/> Driven <input checked="" type="checkbox"/><br>Reconditioned <input type="checkbox"/> Rotary <input type="checkbox"/> Jetted <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                  |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| <b>6. DIMENSIONS: Diameter of Hole</b><br>Dia. <u>6"</u> in. from <u>0</u> ft. to <u>97</u> ft.<br>Dia. _____ in. from _____ ft. to _____ ft.<br>Dia. _____ in. from _____ ft. to _____ ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| <b>7. CONSTRUCTION DETAILS:</b><br>Casing: Steel Dia. <u>6 5/8"</u> from <u>0</u> ft. to <u>97</u> ft.<br>Threaded <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Dia. _____ from _____ ft. to _____ ft.<br>Type _____ Wall Thickness _____<br>Casing: Plastic Dia. _____ from _____ ft. to _____ ft.<br>Weight _____ Dia. _____ from _____ ft. to _____ ft.<br><b>PERFORATIONS:</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>Type of perforator used <u>torch</u><br>Size of perforations <u>3/16</u> in. by <u>4"</u> in.<br><u>24</u> perforations from <u>95</u> ft. to <u>87</u> ft.<br>_____ perforations from _____ ft. to _____ ft.<br>_____ perforations from _____ ft. to _____ ft. |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| <b>SCREENS:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/><br>Manufacturer's Name _____<br>Type _____ Model No. _____<br>Dia. _____ Slot size _____ from _____ ft. to _____ ft.<br>Dia. _____ Slot size _____ from _____ ft. to _____ ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| <b>GRAVEL PACKED:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Size of gravel _____<br>Gravel placed from _____ ft. to _____ ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| <b>GROUTED:</b> To what depth? <u>18</u> ft.<br>Material used in grouting <u>Bentonite</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| <b>8. WELL HEAD COMPLETION:</b><br>Pitless Adapter <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    | ATTACH ADDITIONAL SHEETS IF NECESSARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| <b>9. PUMP (if installed)</b><br>Manufacturer's name <u>Aeromotor</u><br>Type <u>Sub</u> Model No. <u>1/2-2 wire HP</u> <u>1/2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    | <b>13. DATE COMPLETED</b> <u>4-1-99</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |
| <b>10. WELL TEST DATA</b><br>The information requested in this section is required for all wells. All depth measurements shall be from the top of the well casing.<br>All wells under 100 gpm must be tested for a minimum of one hour and provide the following information:<br>a) Air _____ Pump <u>3/4</u> Baller _____<br>b) Static water level immediately before testing <u>29</u> ft. If flowing; closed-in pressure _____ psi. _____ gpm.<br>Flow controlled by: <u>1 1/4</u> valve, _____ reducers, _____ other (specify) _____<br>c) Depth at which pump is set for test <u>90'</u><br>d) The pumping rate: _____ gpm.<br>e) Pumping water level <u>670</u> ft. at <u>3</u> hrs. after pumping began.                                  |    | <b>14. DRILLER/CONTRACTOR'S CERTIFICATION</b><br>This well was drilled under my jurisdiction and this report is true to the best of my knowledge.<br>Date <u>4-2-99</u><br>Firm Name <u>Back Drilling</u><br>Address <u>2066 Broadway Rd</u><br><u>Deer Lodge, MT</u><br>Signature <u>Doug Feik</u> License No. <u>564</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |      |    |           |   |   |          |   |   |               |   |    |                          |    |    |                                  |    |    |                    |    |    |            |    |    |                      |    |    |                  |    |    |                  |    |    |                              |    |    |                       |

MONTANA DEPARTMENT OF NATURAL RESOURCES & CONSERVATION  
 1520 EAST SIXTH AVENUE HELENA, MONTANA 59620-2301 444-6610

**DNRC**

## DEPARTMENT COPY

DRILLER: Please give this copy to the well owner to complete reverse side.  
 OWNER: Complete reverse side and send to DNRC when the well is completed and the water has been used beneficially for the intended purpose.

Form No. 803 (1-2-89)

## WELL LOG REPORT

File No.

State law requires that the Bureau's copy be filed by the water well driller within 60 days after completion of the well.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|---|----------|---|---|---------------|---|----|--------------------------|----|----|--------------------------|----|----|--------------------|----|----|---------------|----|----|-------------------|----|----|------------------|----|----|------------------|----|----|-----------------------|----|----|--------------|
| <b>1. WELL OWNER</b> <u>U.S.D.O.</u><br>Name <u>Grant Robin Kunch</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    | f) Duration of test: Pumping time <u>3</u> hrs.<br>g) Recovery time <u>1</u> hrs.<br>h) Recovery water level <u>24</u> ft. at <u>2</u> hrs. after pumping stopped.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| <b>2. CURRENT MAILING ADDRESS</b><br><u>1000 Mission Ave</u><br><u>Deer Lodge</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    | Wells intended to yield 100 gpm or more shall be tested for a period of 8 hours or more. The test shall follow the development of the well and shall be conducted continuously at a constant discharge at least as great as the intended appropriation. In addition to the above information, water level data shall be collected and recorded on the Department's "Aquifer Test Data" form.<br>NOTE: All wells shall be equipped with an access port 1/2 inch minimum or a pressure gauge that will indicate the shut-in pressure of a flowing well. Removable caps are acceptable as access ports.                                                                                                                                        |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| <b>3. WELL LOCATION</b><br><u>NE 1/4 SW 1/4</u> Section <u>2</u><br>Township <u>8</u> N/S Range <u>1</u> E/W County <u>Deer</u><br>Gov't Lot _____ or Lot _____ Block _____<br>Subdivision Name _____<br>Tract Number _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    | <b>11. WAS WELL PLUGGED OR ABANDONED?</b> <u>Yes</u> <input type="checkbox"/> <u>No</u> <input checked="" type="checkbox"/><br>If yes, how? _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| <b>4. PROPOSED USE:</b> Domestic <input type="checkbox"/> Stock <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/><br>Other <input type="checkbox"/> specify _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    | <b>12. WELL LOG</b><br>Depth (ft.)<br>From To Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| <b>5. TYPE OF WORK:</b><br>New well <input checked="" type="checkbox"/> Method: Dug <input type="checkbox"/> Bored <input type="checkbox"/><br>Deepened <input type="checkbox"/> Cable <input checked="" type="checkbox"/> Driven <input type="checkbox"/><br>Reconditioned <input type="checkbox"/> Retay <input type="checkbox"/> Jetted <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    | <table border="1"> <tr> <td>0</td> <td>1</td> <td>Top soil</td> </tr> <tr> <td>1</td> <td>5</td> <td>Sand &amp; gravel</td> </tr> <tr> <td>5</td> <td>11</td> <td>Boulders, cobbles &amp; sand</td> </tr> <tr> <td>11</td> <td>22</td> <td>Very hard angular gravel</td> </tr> <tr> <td>22</td> <td>37</td> <td>Sand &amp; fine gravel</td> </tr> <tr> <td>37</td> <td>54</td> <td>gravelly clay</td> </tr> <tr> <td>54</td> <td>66</td> <td>Pea gravel &amp; sand</td> </tr> <tr> <td>66</td> <td>72</td> <td>Sandy clay (Red)</td> </tr> <tr> <td>72</td> <td>84</td> <td>Sandy clay (Red)</td> </tr> <tr> <td>84</td> <td>95</td> <td>Sand with fine gravel</td> </tr> <tr> <td>95</td> <td>11</td> <td>(Water) Sand</td> </tr> </table> |  | 0 | 1 | Top soil | 1 | 5 | Sand & gravel | 5 | 11 | Boulders, cobbles & sand | 11 | 22 | Very hard angular gravel | 22 | 37 | Sand & fine gravel | 37 | 54 | gravelly clay | 54 | 66 | Pea gravel & sand | 66 | 72 | Sandy clay (Red) | 72 | 84 | Sandy clay (Red) | 84 | 95 | Sand with fine gravel | 95 | 11 | (Water) Sand |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1  | Top soil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5  | Sand & gravel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 11 | Boulders, cobbles & sand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 22 | Very hard angular gravel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 37 | Sand & fine gravel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 54 | gravelly clay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 66 | Pea gravel & sand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 72 | Sandy clay (Red)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 84 | Sandy clay (Red)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 95 | Sand with fine gravel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| 95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 11 | (Water) Sand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| <b>6. DIMENSIONS: Diameter of Hole</b><br>Dia. <u>6</u> in. from <u>0</u> ft. to <u>17</u> ft.<br>Dia. _____ in. from _____ ft. to _____ ft.<br>Dia. _____ in. from _____ ft. to _____ ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    | ATACH ADDITIONAL SHEETS IF NECESSARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| <b>7. CONSTRUCTION DETAILS:</b><br>Casing: Steel Dia. _____ from _____ ft. to <u>97</u> ft.<br>Threaded <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Dia. _____ from _____ ft. to _____ ft.<br>Type _____ Wall Thickness _____<br>Casing: Plastic Dia. _____ from _____ ft. to _____ ft.<br>Weight _____ Dia. _____ from _____ ft. to _____ ft.<br><b>PERFORATIONS:</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>Type of perforator used _____<br>Size of perforations <u>1/16</u> in. by <u>1</u> in.<br><u>4</u> perforations from <u>15</u> ft. to <u>1</u> ft.<br>_____ perforations from _____ ft. to _____ ft.<br>_____ perforations from _____ ft. to _____ ft.<br><b>SCREENS:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/><br>Manufacturer's Name _____<br>Type _____ Model No. _____<br>Dia. _____ Slot size _____ from _____ ft. to _____ ft.<br>Dia. _____ Slot size _____ from _____ ft. to _____ ft.<br><b>GRAVEL PACKED:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Size of gravel _____<br>Gravel placed from _____ ft. to _____ ft.<br><b>GROUTED:</b> To what depth? <u>18</u> ft.<br>Material used in grouting <u>TS white</u> |    | <b>13. DATE COMPLETED</b> <u>4-1-99</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| <b>8. WELL HEAD COMPLETION:</b><br>Pitless Adapter <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    | <b>14. DRILLER/CONTRACTOR'S CERTIFICATION</b><br>This well was drilled under my jurisdiction and this report is true to the best of my knowledge.<br>Date <u>4-2-99</u><br>Firm Name <u>Bo K Drilling</u><br>Address <u>206 Lawrence St</u><br>City <u>Deer Lodge</u> State <u>MT</u><br>Signature _____ License No. _____                                                                                                                                                                                                                                                                                                                                                                                                                  |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| <b>9. PUMP (if installed)</b><br>Manufacturer's name <u>Aeromator</u><br>Type <u>Sub</u> Model No. <u>11/12-24WHP</u> <u>42</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    | <b>10. WELL TEST DATA</b><br>The information requested in this section is required for all wells. All depth measurements shall be from the top of the well casing.<br>All wells under 100 gpm must be tested for a minimum of one hour and provide the following information:<br>a) Air _____ Pump <u>14</u> Baller _____<br>b) Static water level immediately before testing <u>24</u> ft. If flowing, closed-in pressure _____ psi. _____ gpm.<br>Flow controlled by: <u>144</u> valve, _____ reducers, _____ other, (specify) _____<br>c) Depth at which pump is set for test <u>90</u><br>d) The pumping rate: <u>670</u> gpm.<br>e) Pumping water level <u>3</u> ft. at _____ hrs. after pumping began.                                |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |
| <b>MONTANA DEPARTMENT OF NATURAL RESOURCES &amp; CONSERVATION</b><br>1520 EAST SIXTH AVENUE HELENA, MONTANA 59620-2301 444-8610                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |   |   |          |   |   |               |   |    |                          |    |    |                          |    |    |                    |    |    |               |    |    |                   |    |    |                  |    |    |                  |    |    |                       |    |    |              |

DNRC

Other Supporting Information

Author: Tony Schetzlsle at NP-GRKO  
Date: 10/06/1999 2:49 PM  
Priority: Normal  
CC: Chuck Pettee at NP-WASO-WR, Jeff Hughes at NP-WASO-WR  
TO: Dan McGlothlin at NP-WASO-WR  
CC: Anita Arends at NP-INDU  
Subject: Re: NPS Notice of Completion of GW Development

DAN:

SEE RESPONSES BELOW.

TONY SCHETZLSLE

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Subject: NPS Notice of Completion of GW Development  
Author: Dan McGlothlin at NP-WASO-WR  
Date: 09/23/1999 9:53 AM

Hi Tony,

Thanks for sending a copy of the well completion notice. It appears this well represents a new water source within GRKO, at least the notice indicates that the well does not replace an existing well. So, we will proceed here to create a new GRKO water right docket for the well. In this regard, I have three questions about the new use.

a) Is there a name for the well that you will use in all future references to this site?

RESPONSE: THE WELL WILL BE REFERRED TO AS THE NORTH FRONTAGE ROAD PASTURE WELL

b) If there is a storage tank, what is the capacity?

RESPONSE: THERE IS NO STORAGE TANK, PER SE. HOWEVER, THE WATER IS PIPED TO TWO STOCK TANKS WITH A CAPACITY OF 960 GALLONS EACH.

c) The stated purpose of water use is "100 pair of beef cattle" for 9 months each year. Does this mean a cow-calf operation? Even though the right is a de minimus (less than 10 acre-feet per year) amount, it would be good to have an estimate of actual use.

RESPONSE: WE ANTICIPATE THE ASSOCIATED PASTURE SERVICED BY THE WELL AND STOCK TANKS WILL BE UTILIZED FOR 6 MONTHS BY COW-CALF PAIRS. A RELIABLE ESTIMATE OF ACTUAL USE WOULD BE 30 GALLONS/DAY/PAIR FOR 180 DAYS.

Any other information (e.g. cost of construction, well specifications, etc.) you have for the well and water use would be helpful and will be added to the docket.

You may already know this, DNRC says that you should receive the

water right certificate in about two months. Would appreciate your sending a copy for the docket.

RESPONSE: UPON RECEIPT OF THE WATER RIGHT CERTIFICATE, WE WILL FORWARD YOU A COPY.

Thanks for the assistance. Hope the transition to your new assignment is going smoothly.

ADDENDUM: REGARDING OUR CAUTIONARY NOTE TO DNRC ON ARCO TEMPORARY WATER DIVERSIONS FROM POINTS UPSTREAM FROM OUR WITHDRAWAL RIGHTS, DNRC DID RESPOND AND PROVIDED US WITH COPIES OF THOSE ARCO DIVERSIONS. THANKS FOR YOUR REVIEW OF OUR LETTER ON THAT ISSUE.

Dan  
(970)225-3536

Docket Information

Number of Documents in Docket            5  
Documents Dated from    4/2/1999        to    10/6/1999  
Docket Compiled:        3/28/2011