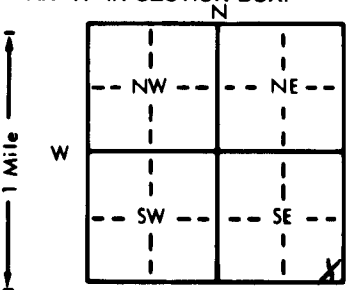


1 LOCATION OF WATER WELL: County: Brown Fraction: SE 1/4 SE 1/4 SE 1/4 Section Number: 15 Township Number: T 3 S Range Number: R 16 E/W

Distance and direction from nearest town or city street address of well if located within city?  
1/2 E, 1/2 W + 1 mile E of Powhattan

2 WATER WELL OWNER: Jacobson Farms Inc.  
 RR#, St. Address, Box #: Owen Jacobsen  
 City, State, ZIP Code: PRS Hiawatha, KS 66434  
 Board of Agriculture, Division of Water Resources  
 Application Number:

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:  
  
 4 DEPTH OF COMPLETED WELL: 51 ft. ELEVATION:  
 Depth(s) Groundwater Encountered 1. .... ft. 2. .... ft. 3. .... ft.  
 WELL'S STATIC WATER LEVEL: 28 ft. below land surface measured on mo/day/yr 6-12-86  
 Pump test data: Well water was ..... ft. after ..... hours pumping ..... gpm  
 Est. Yield: 8 gpm; Well water was ..... ft. after ..... hours pumping ..... gpm  
 Bore Hole Diameter: 4.2 in. to ..... ft., and ..... in. to ..... ft.  
 WELL WATER TO BE USED AS:  
 1 Domestic     2 Irrigation     3 Feedlot     4 Industrial  
 5 Public water supply     6 Oil field water supply     7 Lawn and garden well  
 8 Air conditioning     9 Dewatering     10 Observation well  
 11 Injection well     12 Other (Specify below)  
 Was a chemical/bacteriological sample submitted to Department? Yes.....No.....; If yes, mo/day/yr sample was submitted  
 Water Well Disinfected? Yes  No

5 TYPE OF BLANK CASING USED:  
 1 Steel    2 PVC    3 RMP (SR)    4 ABS    5 Wrought iron    6 Asbestos-Cement    7 Fiberglass    8 Concrete tile    9 Other (specify below)  
 Blank casing diameter: 3.6 in. to 51 ft., Dia ..... in. to ..... ft., Dia ..... in. to ..... ft.  
 Casing height above land surface: 2.6 in., weight: 32.0 lbs./ft. Wall thickness or gauge No. 3  
 TYPE OF SCREEN OR PERFORATION MATERIAL:  
 1 Steel    2 Brass    3 Stainless steel    4 Galvanized steel    5 Fiberglass    6 Concrete tile    7 PVC    8 RMP (SR)    9 ABS    10 Asbestos-cement    11 Other (specify)    12 None used (open hole)  
 SCREEN OR PERFORATION OPENINGS ARE:  
 1 Continuous slot    2 Louvered shutter    3 Mill slot    4 Key punched    5 Gauzed wrapped    6 Wire wrapped    7 Torch cut    8 Saw cut    9 Drilled holes    10 Other (specify)    11 None (open hole)  
 SCREEN-PERFORATED INTERVALS: From ..... ft. to ..... ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.  
 GRAVEL PACK INTERVALS: From ..... ft. to ..... ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.

6 GROUT MATERIAL:  1 Neat cement    2 Cement grout    3 Bentonite    4 Other .....  
 Grout Intervals: From 0 ft. to 11 ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.  
 What is the nearest source of possible contamination:  
 1 Septic tank    2 Sewer lines    3 Watertight sewer lines    4 Lateral lines    5 Cess pool    6 Seepage pit    7 Pit privy    8 Sewage lagoon    9 Feedyard    10 Livestock pens    11 Fuel storage    12 Fertilizer storage    13 Insecticide storage    14 Abandoned water well    15 Oil well/Gas well    16 Other (specify below)  
 Direction from well? NE How many feet? 150

| FROM | TO | LITHOLOGIC LOG | FROM | TO | LITHOLOGIC LOG |
|------|----|----------------|------|----|----------------|
| 0    | 7  | Silt           |      |    |                |
| 7    | 19 | Silt           |      |    |                |
| 19   | 26 | Clay           |      |    |                |
| 26   | 37 | Rocks          |      |    |                |
| 37   | 50 | Large Gravel   |      |    |                |
| 50   | 51 | Shale          |      |    |                |

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was  (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 6-13-86 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 320 This Water Well Record was completed on (mo/day/yr) 6-22-86 under the business name of Popplewell Well Boring by (signature)

INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water Protection, Topeka, Kansas 66620-7320, Telephone: 913-862-9360. Send one to WATER WELL OWNER and retain one for your records.

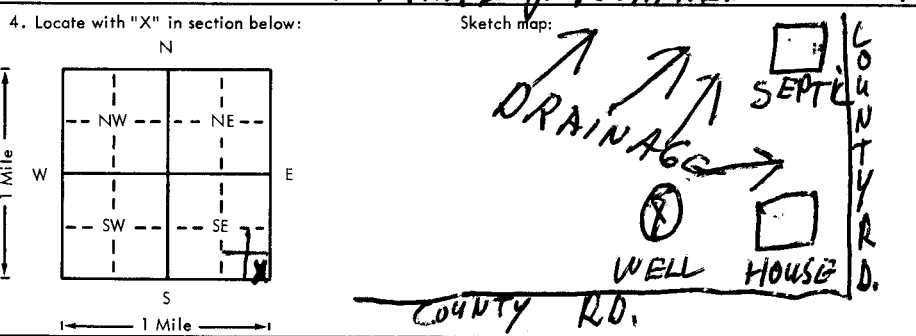
USE TYPEWRITER OR BALL POINT PEN-PRESS FIRMLY, PRINT CLEARLY.

WATER WELL RECORD  
KSA 82a-1201-1215

Kansas Department of Health and Environment-Division of Environment (Water well Contractors) Topeka, Kansas 66620

|                      |                        |   |                             |   |              |
|----------------------|------------------------|---|-----------------------------|---|--------------|
| 1. Location of well: | County<br><b>BROWN</b> | Fraction<br><b>SE 1/4 SE 1/4 SE 1/4</b> | Section number<br><b>15</b> | Township number<br>T <b>3</b> S R <b>16</b> <b>6W</b> | Range number |
|----------------------|------------------------|---|-----------------------------|---|--------------|

|  |   |
|--|---|
| 2. Distance and direction from nearest town or city<br><b>1/2 E, 1 1/2 N</b>   | 3. Owner of well: <b>JACOBSEN FARMS INC.</b><br>R.R. or street: <b>OWEN JACOBSEN R.R. 5</b> |
| Street address of well location if in city: <b>+ 1 MI. E of POWHATTEN</b> , state, zip code: <b>HIAWATHA, KANS 66434</b> |   |



|   |
|---|
| 6. Bore hole dia. <b>4 1/2</b> in. Completion date <b>6-13-86</b><br>Well depth <b>57</b> ft. <b>BORE HOLE 50" TO 11"</b>   |
| 7. <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug<br><input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input checked="" type="checkbox"/> Bored <input type="checkbox"/> Reverse rotary  |
| 8. Use: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public supply <input type="checkbox"/> Industry<br><input type="checkbox"/> Irrigation <input type="checkbox"/> Air conditioning <input type="checkbox"/> Stock<br><input type="checkbox"/> Lawn <input type="checkbox"/> Oil field water <input type="checkbox"/> Other  |
| 9. Casing: <b>CONCRETE</b> Height: <b>Above</b> or below<br>Threaded <input type="checkbox"/> Welded <input type="checkbox"/> Surface <b>26</b> in.<br>RMP <input type="checkbox"/> PVC <input type="checkbox"/> Weight <b>320</b> lbs./ft.<br>Dia <b>36</b> in. to <b>51</b> ft. depth Wall Thickness: inches or<br>Dia. <input type="checkbox"/> in. to <input type="checkbox"/> ft. depth gage No. <b>30</b> |

| 5. Type and color of material  | From      | To        |
|--------------------------------|-----------|-----------|
| <b>HARD BROWN - WIND BLOWN</b> | <b>0</b>  | <b>7</b>  |
| <b>SAME - SOMEWHAT SOFTER</b>  | <b>7</b>  | <b>19</b> |
| <b>YELLOW CLAY</b>             | <b>19</b> | <b>26</b> |
| <b>SAME W/ LARGE ROCKS</b>     | <b>26</b> | <b>37</b> |
| <b>SOME FOOTBALL SIZE</b>      |           |           |
| <b>LARGE GRAVEL - EGG SIZE</b> | <b>37</b> | <b>50</b> |
| <b>BEARING MUCH WATER</b>      |           |           |
| <b>BLUE SHALE</b>              | <b>50</b> | <b>51</b> |
| (Use a second sheet if needed) |           |           |

|  |
|--|
| 10. Screen: Manufacturer's name _____<br>Type _____ Dia. _____<br>Slot/gauze _____ Length _____<br>Set between _____ ft. and _____ ft.<br>_____ ft. and _____ ft.<br>Gravel pack? _____ Size range of material _____   |
| 11. Static water level: _____ mo./day/yr.<br><b>38</b> ft. below land surface Date <b>6-12-86</b>  |
| 12. Pumping level below land surfaces:<br><b>35</b> ft. after <b>1</b> hrs. pumping <b>10</b> g.p.m.<br><b>38</b> ft. after <b>2</b> hrs. pumping <b>10</b> g.p.m.<br>Estimated maximum yield <b>8</b> g.p.m.  |
| 13. Water sample submitted: _____ mo./day/yr.<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date _____  |
| 14. Well head completion:<br><input type="checkbox"/> Pitless adapter _____ Inches above grade   |
| 15. Well grouted? <input checked="" type="checkbox"/><br>With: <input checked="" type="checkbox"/> Neat cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Concrete<br>Depth: From <b>0</b> ft. to <b>11</b> ft.   |
| 16. Nearest source of possible contamination:<br>ft. <b>150</b> Direction <b>NE</b> Type <b>SEPTIC</b><br>Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  |
| 17. Pump: <input checked="" type="checkbox"/> Not installed<br>Manufacturer's name _____<br>Model number _____ HP _____ Volts _____<br>Length of drop pipe _____ ft. capacity _____ g.p.m.<br>Type:<br><input type="checkbox"/> Submersible <input type="checkbox"/> Turbine<br><input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating<br><input type="checkbox"/> Centrifugal <input type="checkbox"/> Other |

18. Elevation:

Topography:  
 Hill  
 Slope  
 Upland  
 Valley

19. Remarks:

20. Water well contractor's certification:  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
**POPLER WELL WELL BORING 320**  
Business name \_\_\_\_\_ License No. \_\_\_\_\_  
Address **AMITY MO. 64422**  
Signed **Jerry Poppler** Date **6-22-86**  
Authorized representative