

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------|--|---------------------------------------------------|--|----------------|--|-------------------------------------------------|--|
| 1 LOCATION OF WATER WELL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Fraction                                                                                                                                                                                                                                                               |  | Section Number                     |  | Township Number                                   |  | Range Number   |  |                                                 |  |
| County: <u>Johnson</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | SW 1/4 SW 1/4 NE 1/4                                                                                                                                                                                                                                                   |  | 19                                 |  | T 13 S                                            |  | R 22 <u>EA</u> |  |                                                 |  |
| Distance and direction from nearest town or city street address of well if located within city?                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| <u>2.5 miles south of Clearview City, Kansas</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| 2 WATER WELL OWNER:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | Sunflower Army Ammunition Plant                                                                                                                                                                                                                                        |  |                                    |  | Well No. MW-81-34                                 |  |                |  |                                                 |  |
| RR#, St. Address, Box # :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | P.O. Box 549 35425 W. 103rd St                                                                                                                                                                                                                                         |  |                                    |  | Board of Agriculture, Division of Water Resources |  |                |  |                                                 |  |
| City, State, ZIP Code :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | DeSoto, Ks. 66018                                                                                                                                                                                                                                                      |  |                                    |  | Application Number:                               |  |                |  |                                                 |  |
| 3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 4 DEPTH OF COMPLETED WELL: 38.0 ft. ELEVATION: 905.16                                                                                                                                                                                                                  |  |                                    |  |                                                   |  |                |  |                                                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Depth(s) Groundwater Encountered 1. .... ft. 2. .... ft. 3. .... ft.                                                                                                                                                                                                   |  |                                    |  |                                                   |  |                |  |                                                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | WELL'S STATIC WATER LEVEL ..... 8.6 ft. below land surface measured on mo/day/yr 8-24-95                                                                                                                                                                               |  |                                    |  |                                                   |  |                |  |                                                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Pump test data: Well water was ..... ft. after ..... hours pumping ..... gpm                                                                                                                                                                                           |  |                                    |  |                                                   |  |                |  |                                                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Est. Yield ..... gpm: Well water was ..... ft. after ..... hours pumping ..... gpm                                                                                                                                                                                     |  |                                    |  |                                                   |  |                |  |                                                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Bore Hole Diameter ..... in. to ..... ft., and ..... in. to ..... ft.                                                                                                                                                                                                  |  |                                    |  |                                                   |  |                |  |                                                 |  |
| WELL WATER TO BE USED AS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | 5 Public water supply      8 Air conditioning      11 Injection well<br>1 Domestic      3 Feedlot      6 Oil field water supply      9 Dewatering      12 Other (Specify below)<br>2 Irrigation      4 Industrial      7 Lawn and garden only <u>X</u> Monitoring well |  |                                    |  |                                                   |  |                |  |                                                 |  |
| Was a chemical/bacteriological sample submitted to Department? Yes.....No..... <u>X</u> ; If yes, mo/day/yr sample was submitted                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| Water Well Disinfected? Yes      No <u>X</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| 5 TYPE OF BLANK CASING USED:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| 1 Steel      3 RMP (SR)      5 Wrought iron      8 Concrete tile      CASING JOINTS: Glued ..... Clamped .....<br><u>2 PVC</u> 4 ABS      6 Asbestos-Cement      9 Other (specify below)      Welded .....<br>7 Fiberglass      Threaded .....                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| Blank casing diameter <u>4</u> " ..... in. to ..... ft., Dia ..... in. to ..... ft., Dia ..... in. to ..... ft.                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| Casing height above land surface ..... in., weight ..... lbs./ft. Wall thickness or gauge No. ....                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| TYPE OF SCREEN OR PERFORATION MATERIAL:                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| 1 Steel      3 Stainless steel      5 Fiberglass <u>7 PVC</u> 10 Asbestos-cement<br>2 Brass      4 Galvanized steel      6 Concrete tile      8 RMP (SR)      11 Other (specify) .....<br>12 None used (open hole)                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| SCREEN OR PERFORATION OPENINGS ARE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| 1 Continuous slot <u>3 Mill slot</u> 5 Gauzed wrapped      8 Saw cut      11 None (open hole)<br>2 Louvered shutter      4 Key punched      6 Wire wrapped      9 Drilled holes<br>7 Torch cut      10 Other (specify) .....                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| SCREEN-PERFORATED INTERVALS: From ..... 6.0 ft. to ..... 37.0 ft., From ..... ft. to ..... ft.                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| GRAVEL PACK INTERVALS: From ..... 5.0 ft. to ..... 38.0 ft., From ..... ft. to ..... ft.                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| 6 GROUT MATERIAL: 1 Neat cement      2 Cement grout      3 Bentonite <u>X</u> Other microfine cement                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| Grout Intervals: From ..... 3.0 ft. to ..... 42.0 ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| What is the nearest source of possible contamination:                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| 1 Septic tank      4 Lateral lines      7 Pit privy      10 Livestock pens      14 Abandoned water well<br>2 Sewer lines      5 Cess pool      8 Sewage lagoon      11 Fuel storage      15 Oil well/Gas well<br>3 Watertight sewer lines      6 Seepage pit      9 Feedyard      12 Fertilizer storage <u>X</u> Other (specify below)<br>13 Insecticide storage      NG Area                                                                                                                                |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| Direction from well? <u>N/A</u> How many feet? ..... within                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| FROM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | TO                                                                                                                                                                                                                                                                     |  | LITHOLOGIC LOG                     |  | FROM                                              |  | TO             |  | PLUGGING INTERVALS                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                        |  |                                    |  | 0.0                                               |  | 3.0            |  | clay soil-tamped                                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                        |  |                                    |  | 3.0                                               |  | 38.0           |  | Well abandoned by staged pressure grouting with |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  | ADDIMENT-MICROCEM microfine cement.             |  |
| A packer was placed approx. 10' above bottom of the well, 12 to 25 gallons of grout pumped at up to 50 psi. The packer was then moved up 10' and another 12 to 25 gallons of grout pumped at up to 50 psi. The procedure was repeated until the entire well annulus and casing were filled to the surface with grout. All surface features were removed, the well casing was excavated to a depth of 3', the casing cut off, then the hole backfilled with clay soil and tamped.                             |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| CF: KDHE, Bureau of Water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                        |  | Calculated grout volume = 47.0 gal |  |                                                   |  |                |  |                                                 |  |
| SFAAP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                        |  | Actual grout take = 50.0 gal       |  |                                                   |  |                |  |                                                 |  |
| USACE-MRK-EP-GG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |
| 7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or <u>(3) plugged</u> under my jurisdiction and was completed on (mo/day/year) <u>8-24-95</u> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. <u>8-24-95</u> This Water Well Record was completed on (mo/day/yr) <u>9-29-95</u> under the business name of <u>U.S. Army Corps of Engineers-KCD</u> by (signature) <u>Steven J. Fournelle</u> |  |                                                                                                                                                                                                                                                                        |  |                                    |  |                                                   |  |                |  |                                                 |  |