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|-----------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------|----------------------------------|---------------------------------------|
| 1 LOCATION OF WATER WELL:<br>County: <b>Johnson</b> | Fraction<br><b>SE</b> $\frac{1}{4}$ <b>SW</b> $\frac{1}{4}$ <b>SE</b> $\frac{1}{4}$ | Section Number<br><b>24</b> | Township Number<br><b>T 13 S</b> | Range Number<br><b>R 21</b> <b>EW</b> |
|-----------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------|----------------------------------|---------------------------------------|

Distance and direction from nearest town or city street address of well if located within city?  
**3 miles south of Clearview City, Kansas**

|                                                               |                                                   |
|---------------------------------------------------------------|---------------------------------------------------|
| 2 WATER WELL OWNER: <b>Sunflower Army Ammunition Plant</b>    | Well No. <b>MW-81-14</b>                          |
| RR#, St. Address, Box # <b>P.O. Box 549 35425 W. 103rd St</b> | Board of Agriculture, Division of Water Resources |
| City, State, ZIP Code <b>DeSoto, Ks. 66018</b>                | Application Number: <b>908.62</b>                 |

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|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX: | 4 DEPTH OF COMPLETED WELL <b>44.0</b> ft. ELEVATION: <b>908.62</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                      | Depth(s) Groundwater Encountered <b>18.1</b> ft. below land surface measured on <b>8-21-95</b><br>WELL'S STATIC WATER LEVEL<br>Pump test data: Well water was _____ ft. after _____ hours pumping _____ gpm<br>Est. Yield _____ gpm: Well water was _____ ft. after _____ hours pumping _____ gpm<br>Bore Hole Diameter _____ in. to _____ ft., and _____ in. to _____ ft.<br>WELL WATER TO BE USED AS:<br>1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 11 Injection well<br>2 Irrigation 4 Industrial 7 Lawn and garden only <input checked="" type="checkbox"/> Monitoring well 12 Other (Specify below)<br>Was a chemical/bacteriological sample submitted to Department? Yes _____ No <input checked="" type="checkbox"/> If yes, mo/day/yr sample was submitted _____<br>Water Well Disinfected? Yes _____ No <input checked="" type="checkbox"/> |

|                                                                                                      |                                        |                                              |                                            |
|------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------|--------------------------------------------|
| 5 TYPE OF BLANK CASING USED:                                                                         | 5 Wrought iron                         | 8 Concrete tile                              | CASING JOINTS: Glued _____ Clamped _____   |
| 1 Steel                                                                                              | 3 RMP (SR)                             | 6 Asbestos-Cement                            | 9 Other (specify below) _____ Welded _____ |
| <input checked="" type="radio"/> 2 PVC                                                               | 4 ABS                                  | 7 Fiberglass                                 | _____ Threaded _____                       |
| Blank casing diameter _____ 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                               |
| 2 Brass                                                                                              | 4 Galvanized steel                     | 6 Concrete tile                              | 7 PVC                                      |
| SCREEN OR PERFORATION OPENINGS ARE:                                                                  | 1 Continuous slot                      | <input checked="" type="radio"/> 3 Mill slot | 4 RMP (SR)                                 |
| 2 Louvered shutter                                                                                   | 4 Key punched                          | 7 Torch cut                                  | 11 Other (specify) _____                   |
| SCREEN-PERFORATED INTERVALS:                                                                         | From <b>4.0</b> ft. to <b>43.0</b> ft. | 8 Saw cut                                    | 12 None used (open hole)                   |
| GRAVEL PACK INTERVALS:                                                                               | From <b>3.0</b> ft. to <b>44.0</b> ft. | 9 Drilled holes                              |                                            |
|                                                                                                      | From _____ ft. to _____ ft.            | 10 Other (specify) _____                     |                                            |

|                                                         |               |                 |                           |                                                                           |
|---------------------------------------------------------|---------------|-----------------|---------------------------|---------------------------------------------------------------------------|
| 6 GROUT MATERIAL:                                       | 1 Neat cement | 2 Cement grout  | 3 Bentonite               | <input checked="" type="checkbox"/> Other <b>microfine cement</b>         |
| Grout Intervals: From <b>3.0</b> ft. to <b>44.0</b> ft. |               |                 |                           |                                                                           |
| What is the nearest source of possible contamination:   | 1 Septic tank | 4 Lateral lines | 7 Pit privy               | 10 Livestock pens                                                         |
| 2 Sewer lines                                           | 5 Cess pool   | 8 Sewage lagoon | 11 Fuel storage           | 14 Abandoned water well                                                   |
| 3 Watertight sewer lines                                | 6 Seepage pit | 9 Feedyard      | 12 Fertilizer storage     | 15 Oil well/Gas well                                                      |
| Direction from well? <b>South</b>                       |               |                 | 13 Insecticide storage    | <input checked="" type="checkbox"/> Other (specify below) <b>Landfill</b> |
|                                                         |               |                 | How many feet? <b>500</b> |                                                                           |

| FROM | TO | LITHOLOGIC LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | FROM | TO   | PLUGGING INTERVALS                 |
|------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------------------------------------|
|      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.0  | 3.0  | clay soil-tamped                   |
|      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.0  | 44.0 | 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 = 54.0 gal |
|      |    | SFAAP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |      | Actual grout take = 60.0 gal       |
|      |    | USACE-MRK-EP-GG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |      |                                    |

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| 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) <b>8-21-95</b> and this record is true to the best of my knowledge and belief. Kansas |
| Water Well Contractor's License No. _____ This Water Well Record was completed on (mo/day/yr) <b>9-29-95</b>                                                                                                                                                       |
| under the business name of <b>U.S. Army Corps of Engineers - KCD</b> by (signature) <i>Stuart J. Jivonik</i>                                                                                                                                                       |