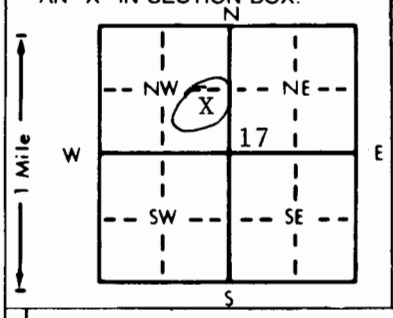
WATER WELL RECORD Form WWC-5 KSA 82a-1212

1 LOCATION OF WATER WELL: County: Johnson | Fraction: NE ¼ SE ¼ NW ¼ | Section Number: 17 | Township Number: T 13 S | Range Number: R 22 E W

Distance and direction from nearest town or city street address of well if located within city?
1 mile south of Clear view City, KS.

2 WATER WELL OWNER: Sunflower Army Ammunition Plant
RR#, St. Address, Box # : DeSoto, Kansas 66018 p.o. box 549
City, State, ZIP Code : Well No. MW 81-43 35425 w. 103rd ST
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 70.0 ft. ELEVATION: 906.26
Depth(s) Groundwater Encountered 1. ft. 2. ft. 3. ft.
WELL'S STATIC WATER LEVEL 10.5 ft. below land surface measured on mo/day/yr 8-17-95
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 8 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 only 8 Air conditioning 9 Dewatering 10 Monitoring well X 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 X 3 RMP (SR) 4 ABS 5 Wrought iron 6 Asbestos-Cement 7 Fiberglass 8 Concrete tile 9 Other (specify below)
CASING JOINTS: Glued Clamped Welded Threaded
Blank casing diameter 4 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: 7 PVC X
1 Steel 2 Brass 3 Stainless steel 4 Galvanized steel 5 Fiberglass 6 Concrete tile 8 RMP (SR) 9 ABS 10 Asbestos-cement 11 Other (specify) 12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE: 3 Mill slot
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 60 ft. to 69.0 ft., From ft. to ft.
From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From 3.5 ft. to 70.0 ft., From ft. to ft.
From ft. to ft., From ft. to ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite X Other microfine cement
Grout Intervals: From 3.0 ft. to ft., From 70.0 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) Settling Pond A
Direction from well? south How many feet? 200

FROM	TO	LITHOLOGIC LOG
		CF: KDHE, Bur. of Water SFAAP USACE-MRK-EP-GG

FROM	TO	PLUGGING INTERVALS
0.0	3.0	clay soil - tamped
3.0	70.0	Well abandoned by staged pressure grouting with ADDIMENT-MICROCEM microfine cement. A packer was placed approx. 10' above the well bottom, 12 to 25 gallons of grout pumped at up to 50psi. The packer was then moved up 10', another 12 to 25 gallons of grout were 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 excavated to 3', the casing cut off, and the hole backfilled with clay soil and tamped. Calculated grout volume = 87.0 gals Actual grout take = 88.0 gals

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) 8-17-95 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) 9-29-95
under the business name of US ARMY CORPS OF ENGINEERS by (signature) [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, Topeka, Kansas 66620-0001. Telephone: 913-296-5545. Send one to WATER WELL OWNER and retain one for your records.