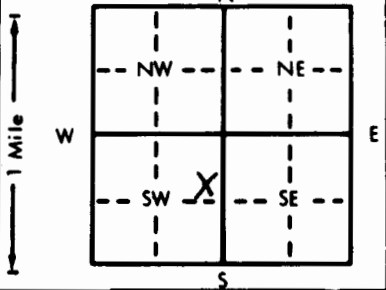


1 LOCATION OF WATER WELL: Fraction SE 1/4 NE 1/4 SW 1/4 Section Number 31 Township Number T 13 S Range Number R 16 **EWK**

Distance and direction from nearest town or city street address of well if located within city?
 Fuel lateral #6

2 WATER WELL OWNER: Kansas Air National Guard
 RR#, St. Address, Box #: Forbes Field "ANG" Board of Agriculture, Division of Water Resources
 City, State, ZIP Code: Topeka, Kansas 66619 Application Number:

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL: 15.0 ft. ELEVATION: 1043.9

Depth(s) Groundwater Encountered 1. ft. 2. ft. 3. ft.
 WELL'S STATIC WATER LEVEL . . . 8.67 . . . ft. below land surface measured on mo/day/yr . . . 7/10/88 . . .
 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 15.0 ft., and in. to ft.
 WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well
 1 Domestic 3 Feedlot 6 Oil field water supply 9 Dewatering 12 Other (Specify below)
 2 Irrigation 4 Industrial 7 Lawn and garden only **10** Observation well
 Was a chemical/bacteriological sample submitted to Department? Yes No **X**; If yes, mo/day/yr sample was submitted
 Water Well Disinfected? Yes **No**

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
2 PVC 4 ABS 7 Fiberglass Threaded **X**
 Blank casing diameter 2 in. to 9.5 ft., Dia in. to ft., Dia in. to ft.
 Casing height above land surface in., weight lbs./ft. Wall thickness or gauge No. Sch. 40

TYPE OF SCREEN OR PERFORATION MATERIAL: **7** PVC 10 Asbestos-cement
 1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 11 Other (specify)
 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE: 5 Gauzed wrapped 8 Saw cut 11 None (open hole)
 1 Continuous slot **3** Mill slot 6 Wire wrapped 9 Drilled holes
 2 Louvered shutter 4 Key punched 7 Torch cut 10 Other (specify)

SCREEN-PERFORATED INTERVALS: From 9.5 ft. to 14.5 ft., From ft. to ft.
 From ft. to ft., From ft. to ft.
 GRAVEL PACK INTERVALS: From 8.5 ft. to 15.0 ft., From ft. to ft.
 From ft. to ft., From ft. to ft.

6 GROUT MATERIAL: **1** Cement Neat cement **2** Cement grout bent. **3** Bentonite 4 Other
 Grout intervals: From 0.5 ft. to 6.5 ft., From 6.5 ft. to 8.5 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
 2 Sewer lines 5 Cess pool 8 Sewage lagoon **11** Fuel storage 15 Oil well/Gas well
 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer storage 16 Other (specify below)
 13 Insecticide storage
 Direction from well? West/North How many feet? 2000' ±

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
		See attached log			

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) 6/22/88 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 102 This Water Well Record was completed on (mo/day/yr) 8/31/88 under the business name of Layne-Western Company, Inc. by (signature) *[Signature]*

OAK RIDGE NATIONAL LABORATORY

Prepared By J. L. ZUMAN Date 6/22/88 Page of
 Hole No. MW23 Elevation Location FUEL LATERAL #6
 Total Depth 75.5' ^{15.3'} No. of Completions Rig Type MOBILE - 5-61
 Auger Size 7 5/8 x 4 1/4 Sample Type 5' continuous
 Project Data Verified By Date

DEPTH (FEET)	BLOCKS/6"	SAMPLE INTERVAL	WELL CONSTRUCTION	LITHOLOGY	DESCRIPTION
0 - 3				Concrete	3' Asphalt Concrete to 1.5'
3 - 8.5				Silty clay	Very dark gray (5Y 3/1) silty clay mottled with bluish green clay. Clean fill sand directly below concrete, some shale fragments in clay matrix. Dense, dark and streaky. Grades to lighter (dark gray (5Y 4/1) at 6.7'. Oxidized particles (yellow) and organic stringers, unstratified with some organic debris (stems) present at 7.5'.
8.5 - 12.8				Silty clay	Dark gray (5Y 4/1) to 8.5-9' grading to very dark grayish brown (10YR 3/2) moist silty clay with oxidized shale fragments (yellows and oranges). Becoming darker compacted silty clay at 12' more yellow in color at 12.8'. Relict bedding at ~13' wet at 13.2'. Weathered sandstone.
12.8 - 15.3					TID=14.5' SET (1) 5' SCREEN ON BOTTOM THROUGH BLOCK HOLE TO ~ 15.3'
15.3 - 75.5					

MW23