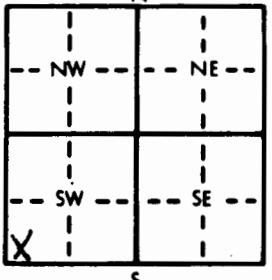


1 LOCATION OF WATER WELL: Fraction SW 1/4 SW 1/4 SW 1/4 Section Number 31 Township Number T 13 S Range Number R 16 **EWK**
 County: Shawnee

Distance and direction from nearest town or city street address of well if located within city?
 Approx. 300' of SW tank - Site 1

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 12.5 ft. ELEVATION: 1036.9
 Depth(s) Groundwater Encountered 1. ft. 2. ft. 3. ft.
 WELL'S STATIC WATER LEVEL 4.99 ft. below land surface measured on mo/day/yr 7/6/88
 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 9.5 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 in. to 4.5 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 4.5 ft. to 9.5 ft., From ft. to ft.
 From ft. to ft., From ft. to ft.
 GRAVEL PACK INTERVALS: From 3.5 ft. to 12.5 ft., 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 1.5 ft. to 3.5 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
 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) 6/20/88 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) *Paul W. Fisher*

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, Office of Oil Field and Environmental Geology, Regulation and Permitting Section, Topeka, Kansas 66620-7500, Telephone: 913-862-9360. Send one to WATER WELL OWNER and retain one for your records.

OAK RIDGE NATIONAL LABORATORY

Prepared By J.L. ZUTMAN Date 06/20/88 Page of
 Hole No. MLU20 Elevation ? Location ~300' W JSWTANK IN SITE 1
 Total Depth 12.5' No. of Completions 1 Rig Type MOBIL - B-61
 Auger Size 7 5/8 x 4 1/4 Sample Type S' continuous
 Project Data Verified By Date

DEPTH (FEET)	BLOWS/6"	SAMPLE INTERVAL	WELL CONSTRUCTION	LITHOLOGY	DESCRIPTION
2					VERY DARK BROWN (10YR 2/2) SILTY clay. Abundant roots. Dry to ~2'. Dark to 3 1/2'; lighter in color @ 3'. mottled with calcareous, LSS as yellows.
4					same DARK BROWN (10YR 3 3/2) SILTY clay. Dark. TO 5.3' grading to DARK REDDISH BROWN (5YR 3/3) silty clay. Wet from 5.8 to 7'. mottled with calcareous fossils and red no yellowish brown shale fragments, sticky OLIVE BROWN (2.5Y 4/1) clay with LS stringers @ 7'. Drillers Auger through LS @ 8.5'.
6					
8					
10					WEATHERED BEDROCK @ 9' - EJECT BEDDING. OLIVE (5Y 5/4)
12					clayey siltstone with abundant fossils (claus brachy clausoid). Numerous lenses of gypsum? (not calcareous)
14					
16					TD = 12.5' 5' SCREEN SET @ 10'
18					
20					
22					
24					
26					
28					
30					
32					