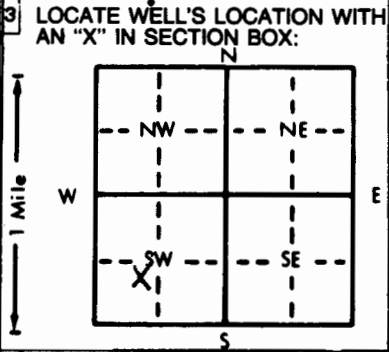


1 LOCATION OF WATER WELL: County: Shawnee Fraction: NE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section Number: 31 Township Number: T 13 S Range Number: R 16 EW

Distance and direction from nearest town or city street address of well if located within city?
30' So of N. fence in tank farm Site 1

2 WATER WELL OWNER: Kansas Air National Guard
 RR#, St. Address, Box #: Forbes Field "ANG"
 City, State, ZIP Code: Topeka, Kansas 66609
 Board of Agriculture, Division of Water Resources
 Application Number:



4 DEPTH OF COMPLETED WELL: 13.5 ft. ELEVATION: 1033.4
 Depth(s) Groundwater Encountered: 1. _____ ft. 2. _____ ft. 3. _____ ft.
 WELL'S STATIC WATER LEVEL: 5.81 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 13.5 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 X

5 TYPE OF BLANK CASING USED:
 1 Steel 3 RMP (SR) 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued _____ Clamped _____
2 PVC 4 ABS 6 Asbestos-Cement 9 Other (specify below) Welded _____
 Blank casing diameter: 2 in. to 3 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:
 1 Steel 3 Stainless steel 5 Fiberglass 8 RMP (SR) 10 Asbestos-cement
 2 Brass 4 Galvanized steel 6 Concrete tile 9 ABS 11 Other (specify) _____
 12 None used (open hole)
 SCREEN OR PERFORATION OPENINGS ARE:
 1 Continuous slot 3 Mill slot 5 Gauzed wrapped 8 Saw cut 11 None (open hole)
 2 Louvered shutter 4 Key punched 6 Wire wrapped 9 Drilled holes
 7 Torch cut 10 Other (specify) _____
 SCREEN-PERFORATED INTERVALS: From 3 ft. to 13 ft., From _____ ft. to _____ ft.
 From _____ ft. to _____ ft., From _____ ft. to _____ ft.
 GRAVEL PACK INTERVALS: From 3 ft. to 13.5 ft., From _____ ft. to _____ ft.
 From _____ ft. to _____ ft., From _____ ft. to _____ ft.

6 GROUT MATERIAL: 1 cement 2 Neat cement 2 Cement grout bent. 3 Bentonite 4 Other _____
 Grout Intervals: From 0 ft. to 1 ft., From 1 ft. to 3 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) [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, 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. ZITMAN Date 6/20/88 Page of
 Hole No. MW 21 Elevation ? Location 30' S of N Fence in Tank Farm - SITE
 Total Depth 13.5' No. of Completions 1 Rig Type MOBIL - B-61
 Auger Size 7 5/8 x 4 1/4 Sample Type 5' continuous
 Project _____ Data Verified By _____ Date _____

DEPTH (FEET)	BLWS/6"	SAMPLE INTERVAL	WELL CONSTRUCTION	LITHOLOGY	DESCRIPTION
2					VERY DARK BROWN (10 YR 2/2) SILTY CLAY. ABUNDANT ROOTS, Dry to 2' grading to lighter DAMP PLASTIC SILTY clay with OXIDIZED NODULES - PEARL SIZE
4					OLIVE GRAY (5Y 4/2) SILTY clay w/ OXIDIZED PARTICLES of yellow & red fine carbonaceous material. Strong hydrocarbon odor AND visible oil sheen @ 4' to 5.5', turning PLASTIC TO 6' BECOMING MORE GRANULAR AND SATURATED SATURATED at 6.5-8'. ABUNDANT clay nodules (PEARL SIZE) well rounded (low energy water?). RELECT BEDDED SILTSTONE NEAR end of shoe. DRILLERS TRY TO AUGER THROUGH.
6					
8					
10					NO SAMPLE - LARGE LIMESTONE ROCK fragment sticking
12					SAMPLING shoe
14					
16					
18					TD = 13.5'
20					SET 2 5' SECTIONS (1-10' interval @ 13.5' END TO 3'
22					PERMANENT TO 1' GROUND TO SURFACE CASING EXTENDS INTO 1/2
24					
26					
28					
30					
32					

HNU TO 200 SATURATED