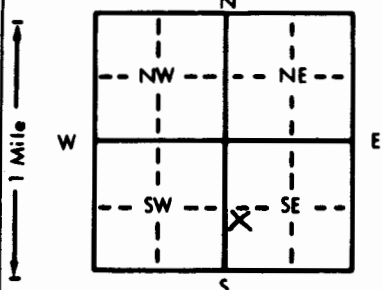


1 LOCATION OF WATER WELL: County: Shawnee Fraction: NW 1/4 SW 1/4 SE 1/4 Section Number: 31 Township Number: T 13 S Range Number: R 16

Distance and direction from nearest town or city street address of well if located within city? 15' SE of hydrant #2 on FL#3

2 WATER WELL OWNER: Air National Guard RR#: Forbes Field "ANG" City, State, ZIP Code: Topeka, Kansas 66619 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: 15.0 ft. ELEVATION: 1048.9 ft. WELL'S STATIC WATER LEVEL: 9.39 ft. below land surface measured on mo/day/yr: 7/12/88. 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: 1 Steel, 2 PVC, 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 [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: 1 Steel, 2 Brass, 3 Stainless steel, 4 Galvanized steel, 5 Fiberglass, 6 Concrete tile, 7 PVC, 8 RMP (SR), 9 ABS, 10 Asbestos-cement, 11 Other (specify), 12 None used (open hole).

SCREEN OR PERFORATION OPENINGS ARE: 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 9.5 ft. to 14.5 ft., From ... ft. to ... ft. GRAVEL PACK INTERVALS: From 8 ft. to 15.0 ft., From ... ft. to ... ft.

6 GROUT MATERIAL: 1 Neat cement, 2 Cement grout, 3 Bentonite, 4 Other. Grout Intervals: From 1 ft. to 6 ft., From 6 ft. to 8 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). Direction from well? West/North How many feet? 2000 +/-

Table with columns: FROM, TO, LITHOLOGIC LOG. Content: 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) 6/16/88 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. ...

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 F. Gardner Date 6-16-88 Page     of      
 Hole No. MW66 Elevation     Location SITE 7 15 SE OF Hydrant # 2 EN FL # 3  
 Total Depth 15' 2" No. of Completions 1 Rig Type Mobile B-61  
 Auger Size 7 5/8 x 4 1/4 Sample Type 5' continuous  
 Project Forbes AWG Data Verified By     Date    

DEPTH (FEET)	BLOWS/6"	SAMPLE INTERVAL	WELL CONSTRUCTION	LITHOLOGY	DESCRIPTION
0 - 2			CONC.	3' asphalt 18" concrete 3" sand fill	
2 - 4				SILTY CLAY: VDKGY (7.5YR N3), BLY OCC GREEN INCLUSIONS - FROM 2-3, ABNT ROOTS & DEBRIS FROM 4-5, BECOMING LIGHTER GRAY @ 6' DAMP FROM 6 - 8 1/2 - moisture sheen on clay faces	360 pp HN4 @ 3 1/2
4 - 10				SILTY CLAY DK GRAY (2.5Y N4) HEAVILY OXIDIZED ZONE FROM 8 1/2 TO 14 1/2, VERY PLASTIC STICKY-GREASY CLAYS WITH SILTY INTERBEDS GRAY TO RED BROWN/GRAY MOTTLED MIXTURE OF SILTY CLAY	
10 - 14				CLAY/SHALE-YEL BEN (10YR 5/6) WITH GRAY CLAY STRKS 2" wet zone at bottom of sample.	
14 - 15.16				Augered to 15' 2" Bedrock @ 14 1/2 15.16'	Wet zone has dark brown shale partings 1/4" - soft wet;
15.16 - 18				bedrock: yellow brown fissile claystone with a bit gray shaly intbeds and streaks, white.	
18 - 22				2 1/2	
22 - 24					
24 - 26					
26 - 28					
28 - 30					
30 - 32					