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

1 LOCATION OF WATER WELL:

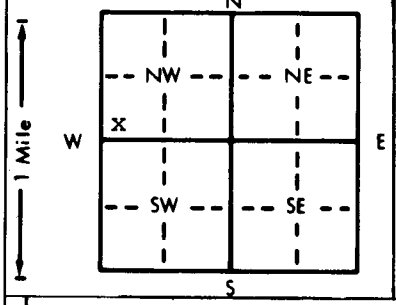
County:	Fraction	Section Number	Township Number	Range Number
Hamilton	SW ¼ SW ¼ NW ¼	34	T 26 S	R 41 E (W)

Distance and direction from nearest town or city street address of well if located within city?
Approx. 16 south and 2 3/4 miles west of Syracuse, Kansas

2 WATER WELL OWNER:
RR#, St. Address, Box # : Northwestern Mutual Life
One Park Central, Suite 1445
City, State, ZIP Code : Denver, Colorado 80202

Board of Agriculture, Division of Water Resources
Application Number: 33,153

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



4 DEPTH OF COMPLETED WELL 573 ft. ELEVATION:
Depth(s) Groundwater Encountered 1. ft. 2. ft. 3. ft.
WELL'S STATIC WATER LEVEL 68 ft. below land surface measured on mo/day/yr 5/5/83
Pump test data: Well water was 387 ft. after 4 hours pumping 1169 gpm
Est. Yield 1160 gpm: Well water was ft. after hours pumping gpm
Bore Hole Diameter 26 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 Observation well 11 Injection well 12 Other (Specify below)
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 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 X Threaded
Blank casing diameter 16 in. to 573 ft., Dia in. to ft., Dia in. to ft.
Casing height above land surface 12 in., weight 47.17 lbs./ft. Wall thickness or gauge No. .280
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 210-250 ft. to 295-545 ft., From 560-570 ft. to ft.
From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From 10 ft. to 573 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 0 ft. to 10 ft., From ft. to ft., From ft. to ft.
What is the nearest source of possible contamination: None Observed
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? How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
		See Attatched			

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) May 2, 1983 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 145 This Water Well Record was completed on (mo/day/yr) May 17, 1983
under the business name of Henkle Drilling & Supply Co., Inc. by (signature) Kenneth F. Oetmeyer

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, Division of Environment, Environmental Geology Section, Topeka, KS 66620. Send one to WATER WELL OWNER and retain one for your records.

DRILLERS TEST LOG

CUSTOMERS NAME Northwestern Mutual Life DATE 4-26-83

STREET ADDRESS One Park Central Suite 1445 TEST # 3 E. LOG Yes

CITY & STATE Denver, Colo. 8020. DRILLER Mel

COUNTY Hamilton QUARTER NW SECTION 34 TOWNSHIP 21 RANGE 41

LOCATION

WELL LOCATION

%	Footage From	Pay	To	DESCRIPTION OF STRATA — Static Water Level ____ Proposed Well Depth ____
	0		2	Top soil
	2		76	Brown and brown sandy clay - few sand stks.
	76		107	Sand - fine to med coarse, few clay stringers, few small gravel
	107		135	Brown and tan clay, sandy in places few rock ledges
30	135	09	144	Brown sandstone
	144		149	Gray clay
20	149	15	164	Gray clay and sandstone stks. and brown rock
	164		170	Gray clay
30	170	30	200	Brown and beige sandstone uses water at 190'
10	200	10	210	Soapstone and sandstone and shale stks.
20	210	17	227	Sand stone and soapstone - tight
15	227	13	250	Shale and sandstone - tight
	250		290	Shale
20	290	35	325	Sandstone - shale stks and stringers, mixed bran and mud at 300'
35	325	34	359	Beige sandstone, loose in places added bran.
	359		365	Limestone - hard
20	365	50	415	Sandstone and few red clay stks and few limestone ledges,
				tight, loose in very few places.
35	415	52	467	White and beige sandstone loose in places, few small soapstone
				stks.
	467		475	Soapstone and red clay
40	475	71	546	White and beige sandstone loose in few places, uses little water.
	546		561	Limestone and sandstone hard - few red bed stks.
35	561	09	570	Sandstone
	570		575	Limestone and red bed
				Well Depth = 573'