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

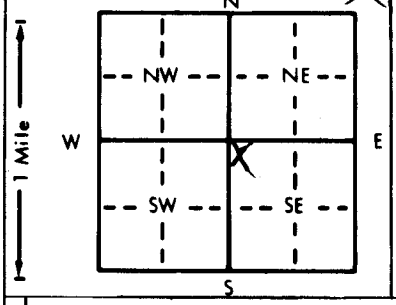
1 LOCATION OF WATER WELL: County: Morton | Fraction: NW ¼ NW ¼ SE ¼ | Section Number: 4 | Township Number: T 33 S | Range Number: R 39 E(W)

Distance and direction from nearest town or city street address of well if located within city?
From Rolla 5 north, 3½ east

2 WATER WELL OWNER: Maymie Mangels Trust c/o Van Mangels
RR#, St. Address, Box # : HCO2, Box 63
City, State, ZIP Code : Rolla, Kansas 67954

Board of Agriculture, Division of Water Resources
Application Number: 16469

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



4 DEPTH OF COMPLETED WELL 393 ft. ELEVATION:
Depth(s) Groundwater Encountered 1. ft. 2. ft. 3. ft.
WELL'S STATIC WATER LEVEL 138 ft. below land surface measured on mo/day/yr 8-16-85
Pump test data: Well water was 81 ft. after 1 hours pumping 979 gpm
Est. Yield 1600 gpm: Well water was 135 ft. after 2 hours pumping 1590 gpm
Bore Hole Diameter 24 in. to 393 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: 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued Clamped
1 Steel 3 RMP (SR) 6 Asbestos-Cement 9 Other (specify below) Welded X
2 PVC 4 ABS 7 Fiberglass Threaded
Blank casing diameter 16 in. to 393 ft., Dia in. to ft., Dia in. to ft.
Casing height above land surface 12 in., weight 42.05 lbs./ft. Wall thickness or gauge No. .250 w

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 270 ft. to 390 ft., From ft. to ft.
From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From 10 ft. to 393 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:
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 None observed
Direction from well? How many feet?

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) August 18, 1985 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) August 21, 1985 under the business name of Henkle Drilling & Supply CO., Inc. by (signature) Bruce Reichmuth

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.

OFFICE USE ONLY T 33 R 39 E(W) SEC. 4 ¼ NW ¼ NW ¼ SE

DRILLERS TEST LOG

Maymie Mangels Trust

CUSTOMERS NAME c/o Van Mangels — DATE August 9, 1985

STREET ADDRESS HC02 Box 63 — TEST # 1 E. LOG yes

CITY & STATE Rolla, KS 67954 — DRILLER Livingston

COUNTY Morton QUARTER SE SECTION 4 TOWNSHIP 33 RANGE 39

LOCATION

WELL LOCATION

Static Water Level

Proposed Well Depth

%	FOOTAGE From	Pay	To	DESCRIPTION OF STRATA
	0		3	Sand
	3		30	Brown sandy clay and fine sand
	30		90	Brown clay and limerock
	90		100	Sand fine to medium, coarse
	100		160	Brown sandy clay and few limerock streaks
	160		170	Very fine sand and clay streaks
	170		200	Brown clay
	200		250	Brown sandy clay, few limerock streaks and fine sand streaks
	250		276	Brown clay
20	276	30	306	Sand fine small and few coarse and clay streaks
	306		320	Brown sandy clay and sand fine to medium, coarse streaks
60	320	27	347	Sand fine to medium, coarse, small to medium, brown gravel, cemented ledges and clay streaks mixed bran
75	347	20	367	Sand fine to medium, coarse, small to medium, brown gravel loose
15	367	23	390	Sandstone and clay
	390		400	Red clay and brown clay
		100		

Total Depth 393'

Set up west

Pit on the north

move big hole south of test hole to fit your pit-with test hole pit.

Brown clay sluffing.