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

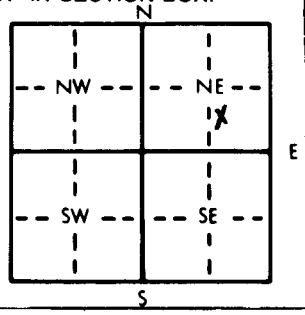
1 LOCATION OF WATER WELL: County: Johnson | Fraction: SW1/4 SW1/4 NW ¼ SE ¼ NE ¼ | Section Number: 12 | Township Number: T 12 S | Range Number: R 23 (E) W

Distance and direction from nearest town or city street address of well if located within city?

2 WATER WELL OWNER: Johnson County Landfill
RR#, St. Address, Box # : 18181 West 53rd Street
City, State, ZIP Code : Shawnee, Kansas 66217

MW-7 Argentine
Board of Agriculture, Division of Water Resources
Application Number: N/A

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



4 DEPTH OF COMPLETED WELL 118 ft. ELEVATION:
Depth(s) Groundwater Encountered 1. 25 ft. 2. ft. 3. ft.
WELL'S STATIC WATER LEVEL ft. below land surface measured on mo/day/yr
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 5 5/8 in. to 118 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); 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)
Blank casing diameter 2.375 in. to 107.5 ft., Dia in. to ft., Dia in. to ft.
Casing height above land surface 24 in., weight 0.80 lbs./ft. Wall thickness or gauge No. 0.308 inches

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 0.020 inches 6 Wire wrapped 9 Drilled holes
2 Louvered shutter 4 Key punched 7 Torch cut 10 Other (specify)

SCREEN-PERFORATED INTERVALS: From 118 ft. to 107.5 ft., From ft. to ft.
From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From 118 ft. to 101 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 bentonite pellets
Grout Intervals: From 101 ft. to 99 ft., From 99 ft. to 0.00 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 landfill
Direction from well? east - northeast How many feet? 250

FROM	TO	LITHOLOGIC LOG
0	8	shale brown mottled grayish brown dry Vilas sh.mb.
8	12	sandstone loosely cemented very fine grained brownish yellow dry Vilas sh.mb.
12	21	sandstone loosely cemented to cemented very fine grained Vilas sh.mb.
21	21.5	ls.dark gray crystalline limestone Vilas sh.mb.
21.5	28.5	sandstone cemented to loosely cemented very fine grained yellowish brown sandstone Vilas sh.mb. moist at 25 ft.
28.5	31.5	sh.dark gray lenticular dry Vilas sh.mb.
31.5	41.0	ls.dense dk. gray ls. with small 1 to 2 inch blk. sh. partings dry Spring Hill ls.mb.
41.0	41.8	sh.dray blk. gray to light gray shale Hickory Creek sh.mb.
41.8	48.0	ls.whitish gray dense dry Merriam ls.mb.
48.0	70.0	sh.dk.gray to blackish gray dry fissil shales changing to dk brn gray Bonner Springs sh.fm.
70.0	79.0	ls. dense hard whitish gray crystalline ls. dry Farley Ls.mb.
79.0	86.0	sh.dk. gray to blackish gray fissil dense shale dry Island Crk sh.mb.

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) November 11, 1987 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 483 This Water Well Record was completed on (mo/day/yr) November 14, 1987 under the business name of Total Environmental Services & Technologies by (signature) Dwight Brinkley

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, Bureau of Water Protection, Topeka, Kansas 66620-7320, Telephone: 913-862-9360. Send one to WATER WELL OWNER and retain one for your records.

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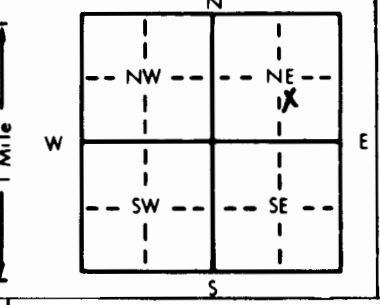

4 DEPTH OF COMPLETED WELL 118 ft. ELEVATION:
Depth(s) Groundwater Encountered 1. ..... ft. 2. ..... ft. 3. ..... ft.
WELL'S STATIC WATER LEVEL ..... ft. below land surface measured on mo/day/yr .....
Pump test data: Well water was ..... ft. after ..... hours pumping ..... gpm
Est. Yield ..... gpm: Well water was ..... ft. after ..... hours pumping ..... gpm
Bore Hole Diameter ..... in. to ..... ft., and ..... in. to ..... ft.
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Was a chemical/bacteriological sample submitted to Department? Yes.....No.....; 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 .....
Blank casing diameter ..... in. to ..... ft., Dia ..... in. to ..... ft., Dia ..... in. to ..... ft.
Casing height above land surface ..... in., weight ..... lbs./ft. Wall thickness or gauge No. .....

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 ..... ft. to ..... ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From ..... ft. to ..... 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 ..... ft. to ..... ft., From ..... ft. to ..... 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? How many feet?

FROM	TO	LITHOLOGIC LOG
86.0	94.0	ls. dense crystalline hard light gray ls. with dk. reddish br. 1 to 2 inch shale partings Argentine ls. mb.
94.0	98.5	shale dk gray to blkish gray dense to soft shale dry middle Argentine ls. mb.
98.5	114.0	ls. reddish white to light gray dense crystalline with numerous 1 to 2 inch reddish brown shale partings dry Lower Argentine Ls.mb.
114.0	117.0	shale dk. gr. to blk. with 1 to 2 inch ls. parting lenses Quindaro sh.mb.
117.0	118.0	ls. dense hard light gray to whitish gray crystalline ls. Frisbie ls.mb.

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