**CORRECTION(S) TO WATER WELL RECORD (WWC-5)**

(to rectify lacking or incorrect information)

County: Franklin

| **Location listed as:** | **Location changed to:** |
|---|---|
| Section-Township-Range: 27-21S-15E | 27-15S-21E |
| Fraction ( ¼ ¼ ¼): NW SE NE | NW SE NE |

**Other changes:** Initial statements: _____

Changed to: _____

Comments: _____

verification method: Latitude & longitude, conversion tool on KGS website, and Wellsville 1:24,000 topo. map.

initials: DRL date: 2/17/2006

submitted by: Kansas Geological Survey, Data Resources Library, 1930 Constant Ave., Lawrence, KS 66047-3726
to: Kansas Dept of Health & Environment, Bureau of Water, 1000 SW Jackson, Suite 420, Topeka, KS 66612-1367.

# WATER WELL RECORD Form WWC-5

Division of Water Resources; App. No.

**1 LOCATION OF WATER WELL:** County: FRANKLIN | Fraction: NW¼ SE¼ NE¼ | Section Number: 27 | Township Number: T 21 S | Range Number: R 15 (E)W

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

**Global Positioning Systems** (decimal degrees, min. of 4 digits)
Latitude: 38.71918
Longitude: 95.05916
Elevation: 1010
Datum: WGS 84
Data Collection Method: GPS

**2 WATER WELL OWNER:** BNSF Railway Co
RR#, St. Address, Box # : 4515 Kansas Ave
City, State, ZIP Code : Kansas City KS 66106

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

N / W / E / S — NW, NE (X), SW, SE

**4 DEPTH OF COMPLETED WELL** 13.5 ft.

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
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 Domestic (lawn & garden) (10) Monitoring well .....

Was a chemical/bacteriological sample submitted to Department? Yes ..... No .....; If yes, mo/day/yrs
Sample was submitted..... Water well disinfected? Yes ..... No .....

**5 TYPE OF 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 in. to 5 ft., Diameter. ..... in. to ..... ft., Diameter ..... in. to .....ft.
Casing height above land surface 24" in., Weight.....lbs./ft. Wall thickness or guage No. 40

TYPE OF SCREEN OR PERFORATION MATERIAL:
1 Steel 3 Stainless Steel 5 Fiberglass (7) PVC 9 ABS 11 Other (Specify) .....
2 Brass 4 Galvanized Steal 6 Concrete tile 8 RM (SR) 10 Asbestos-Cement 12 None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:
(1) Continuous slot 3 Mill slot 5 Guazed wrapped 7 Torch cut 9 Drilled holes 11 None (open hole)
2 Louvered shutter 4 Key punched 6 Wire wrapped 8 Saw Cut 10 Other (specify) .....

SCREEN-PERFORATED INTERVALS: From 5 ft. to 13.5 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 0 ft. to 3 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 13 Insecticide Storage 16 Other (specify below)
2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 14 Abandoned water well
3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer Storage 15 Oil well/gas well .....
Direction from well? ..... How many feet? .....

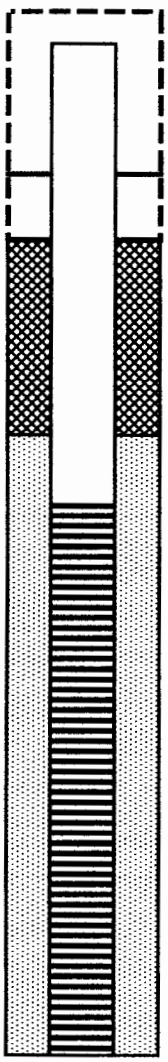
| FROM | TO | LITHOLOGIC LOG | FROM | TO | PLUGGING INTERVALS |
|---|---|---|---|---|---|
| | | See Attached Log | | | |
| | | MW-5 | | | |

**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) 10/27/05 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 753 This Water Well Record was completed on (mo/day/year) 11-7-05 under the business name of Environmental Works by (signature) Paul Fell

**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, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of $5.00 for each constructed well. Visit us at http://www.kdhe.state.ks.us/geo/waterwells

# Well Installation Form

| | | |
|---|---|---|
| WELL NUMBER<br>MW-5 | | |
| COUNTY<br>Franklin | OVERSEEING GEOLOGIST<br>Lee Warfield - EWI | DRILLER<br>Xpert Drilling Servied (XDS) |
| WELL USAGE<br>Environmental Monitoring Well | DRILLING METHOD<br>Hollow Stem Auger | SAMPLING METHOD<br>Geoprobe |
| SITE NAME<br>BNSF Wellsville Derailment Site | BOREHOLE DIAMETER<br>8.25 inches | STATIC WATER LEVEL |
| SITE ADDRESS (approximate)<br>0.5 miles west of 4814 Fiber Lane, Wellsville, KS | TOTAL WELL DEPTH | TOTAL BORING DEPTH<br>13.5 feet |
| DATE OF CONSTRUCTION<br>10/28/2005 | TOP OF CASING ELEVATION<br>1012 feet | GROUND SURFACE ELEVATION<br>1010 feet |
| WELL OWNER INFORMATION<br>BNSF Railway Company<br>4515 Kansas Avenue, Kansas City, Kansas 66106 | | |



| | Approximate Depth (feet below ground surface) | Lithographic Description and Remarks |
|---|---|---|
| | + 3.0 | |
| | + 2.0 | |
| Steel stickup casing<br>Type of Protective Casing | | |
| | 0.0 | |
| Cement<br>Type of Seal | | Dark brown top soil |
| Bentonite Chips<br>Type of Seal | 2.0 | |
| | 4.0 | Brown silty clay with grey mottling |
| Sch 40, 2" ID PVC<br>Type of Riser | | |
| | 6.0 | |
| Type of Seal | | |
| | 8.0 | Grey silty clay with brown mottling with some sands |
| Sch 40, 0.010 2" ID PVC<br>Type and Size of Screen | 10.0 | |
| | | Wet at 11.0 feet, Grey silty sand with some orangish mottling starting at 12.0 feet |
| | 12.0 | |
| 20/40<br>Type of Filter | | Grey brown clay, stiff, with some orangish mottling |
| | 14.0 | |
| | | |
| NA<br>Type of Seal | | |
| | 16.0 | |

COMMENTS:

Refusal @ 13.5 feet

RECEIVED
DEC 30 2005
BUREAU OF WATER

Bentonite Chips  Screen  Filter Pack