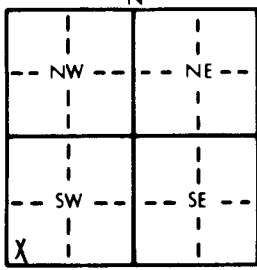


1 LOCATION OF WATER WELL: Fraction SW 1/4 SW 1/4 SW 1/4 Section Number 22 Township Number T 27 S Range Number R 20 ~~E/W~~
 County: Kiowa

Distance and direction from nearest town or city street address of well if located within city?
 5 1/2 north, 1 west of Mullinville, Ks.

2 WATER WELL OWNER: Hallwood Petroleum
 RR#, St. Address, Box #: PO Box 378111 Board of Agriculture, Division of Water Resources
 City, State, ZIP Code: Denver, Colo. 80237 Application Number: 960231

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:  4 DEPTH OF COMPLETED WELL: 100 ft. ELEVATION:
 Depth(s) Groundwater Encountered 1. ft. 2. ft. 3. ft.
 WELL'S STATIC WATER LEVEL: 65 ft. below land surface measured on mo/day/yr 7-13-96
 Pump test data: Well water was ft. after hours pumping gpm
 Est. Yield: na gpm: Well water was ft. after hours pumping gpm
 Bore Hole Diameter: 10 in. to 100 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 Monitoring well
 Was a chemical/bacteriological sample submitted to Department? Yes No If yes, mo/day/yr sample was submitted
 Water Well Disinfected? Yes hth 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 5 in. to 80 ft., Dia. in. to ft., Dia. in. to ft.
 Casing height above land surface 2' in., weight SDR 26 lbs./ft. Wall thickness or gauge No.
 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 80 ft. to 100 ft., From ft. to ft.
 From ft. to ft., From ft. to ft.
 GRAVEL PACK INTERVALS: From 100 ft. to 20 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 hole plug
 Grout intervals: From 20 ft. to 0 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

Direction from well? west How many feet? 700'

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	3	Sandy top soil			
3	15	Fine sand			
15	28	Brown sandy clay			
28	45	Sand and gravel clean, coarse & loose			
45	50	Brown clay			
50	55	Sand and gravel white clay mixed			
55	92	Sand and gravel clean, coarse, loose			
92	97	Sand and gravel clay mixed			
97	100	White & gray clay			

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) 7-13-96 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 134 This Water Well Record was completed on (mo/day/yr) 7-24-96 under the business name of Rosencrantz-Bemis by (signature) Fredia Dodson