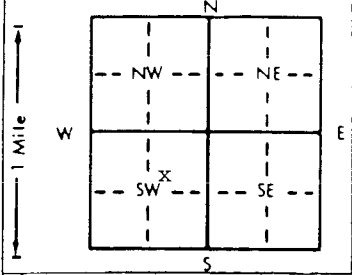


1 LOCATION OF WATER WELL: County: <u>Kearny</u>	Fraction <u>SW</u> $\frac{1}{4}$ <u>NE</u> $\frac{1}{4}$ <u>SW</u> $\frac{1}{4}$	Section Number <u>8</u>	Township Number <u>T 24 S</u>	Range Number <u>R 35 E/W</u>
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Distance and direction from nearest town or city street address of well if located within city?
Approximately 3 miles west of Deerfield

2 WATER WELL OWNER: RR#, St. Address, Box # : City, State, ZIP Code	<u>Kansas Geological Survey</u> <u>1930 Constant Ave.</u> <u>Lawrence, KS 66045</u>	Board of Agriculture, Division of Water Resources Application Number:
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3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL: <u>175</u> ft. ELEVATION: <u>unknown</u>
Depth(s) Groundwater Encountered 1. ft. 2. ft. 3. ft.
WELL'S STATIC WATER LEVEL <u>24.77</u> ft. below land surface measured on <u>mo/day/yr</u> <u>12-2-99</u>
Pump test data: Well water was <u>not ch'd.</u> ft. after hours pumping gpm
Est. Yield <u>unknown</u> gpm: Well water was ft. after hours pumping gpm
Bore Hole Diameter: <u>6</u> in. to <u>175</u> 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 <u>Observation Well</u>
Was a chemical/bacteriological sample submitted to Department? Yes.....No.....X..... If yes, mo/day/yr sample was submitted
Water Well Disinfected? Yes <u>No</u> X

5 TYPE OF BLANK CASING USED:	5 Wrought iron	8 Concrete tile	CASING JOINTS: Glued <u>X</u> Clamped
1 Steel	3 RMP (SR)	6 Asbestos-Cement	9 Other (specify below)
2 PVC	4 ABS	7 Fiberglass	Welded
Blank casing diameter <u>2 1/2</u> in. to <u>148</u> ft., Dia <u>2 1/2</u> in. to <u>173</u> ft., Dia			Threaded
Casing height above land surface <u>24</u> in., weight <u>1.10</u> lbs./ft. Wall thickness or gauge No. <u>203</u>			
TYPE OF SCREEN OR PERFORATION MATERIAL:	7 PVC	10 Asbestos-cement	
1 Steel	3 Stainless steel	5 Fiberglass	8 RMP (SR)
2 Brass	4 Galvanized steel	6 Concrete tile	9 ABS
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 <u>148</u> ft. to <u>168</u> ft., From		
GRAVEL PACK INTERVALS:	From <u>140</u> ft. to <u>180</u> ft., From		

6 GROUT MATERIAL:	1 Neat cement	2 Cement grout	3 Bentonite	4 Other <u>Bentonite Holeplug</u>
Grout intervals: From <u>0</u> ft. to <u>135</u> ft., From				From <u>135</u> ft. to <u>140</u> ft.
What is the nearest source of possible contamination:	1 Septic tank	4 Lateral lines	7 Pit privy	10 Livestock pens
	2 Sewer lines	5 Cess pool	8 Sewage lagoon	11 Fuel storage
	3 Watertight sewer lines	6 Seepage pit	9 Feedyard	12 Fertilizer storage
				13 Insecticide storage
				14 Abandoned water well
				15 Oil well/Gas well
				16 Other (specify below)
				None known

FROM	TO	LITHOLOGIC LOG	FROM	TO	
0	6	Topsoil	166	175	XXXXXXXXXXXX Clay, tan, gravel streaks
6	16	Clay, brown			
16	21	Clay, gray			
21	24	Clay, tan			
24	51	Clay, brown			
51	58	Clay, green, gray			
58	64	Clay, blue, green			
64	92	Clay, black			
92	107	Clay, blue, green			
107	112	Clay, gray			
112	129	Clay, gray, sand streak 128' - 129'			
129	144	Clay, gray, sand streaks			
144	158	Clay, dark gray, gravel streaks			
158	159	Clay, tan			
159	166	Sand and gravel, medium, fine			

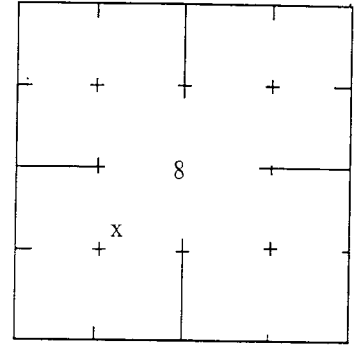
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) <u>constructed</u> , (2) <u>reconstructed</u> , or (3) <u>plugged</u> under my jurisdiction and was completed on (mo/day/year) <u>12-1-99</u> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. <u>185</u> This Water Well Record was completed on (mo/day/yr) <u>12-6-99</u> under the business name of <u>Clarke Well & Equipment, Inc.</u> by (signature) <i>Charles P. Clarke</i>

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, Topeka, Kansas 66620-0001. Telephone: 913-296-5545. Send one to WATER WELL OWNER and retain one for your records.

CLARKE WELL & EQUIPMENT, INC.
WELL RECORD
DESIGN & CONSTRUCTION SHEET



JOB NUMBER 5026
 WELL OWNER Kansas Geological Survey WELL NO. Bentrap #1-99
 WELL USE Observation Well APPROPRIATION NO. _____
 LOCATION SW 1/4 NE 1/4 SW 1/4, SECTION NO. 8
T 24 S, R 35 W Kearny COUNTY Kansas
 _____ FSL, _____ FEL STATE _____



SECTION

SIZE HOLE 6 " DIA.
 SIZE CASING 2 1/2 " DIA. .203 WALL; WT. 1.10 LBS/FT _____ PVC MATERIAL
 SIZE SCREEN 2 1/2 " DIA. .203 WALL; _____ PVC MATERIAL
 SCREEN TYPE Mill Slot OPENING SIZE .032

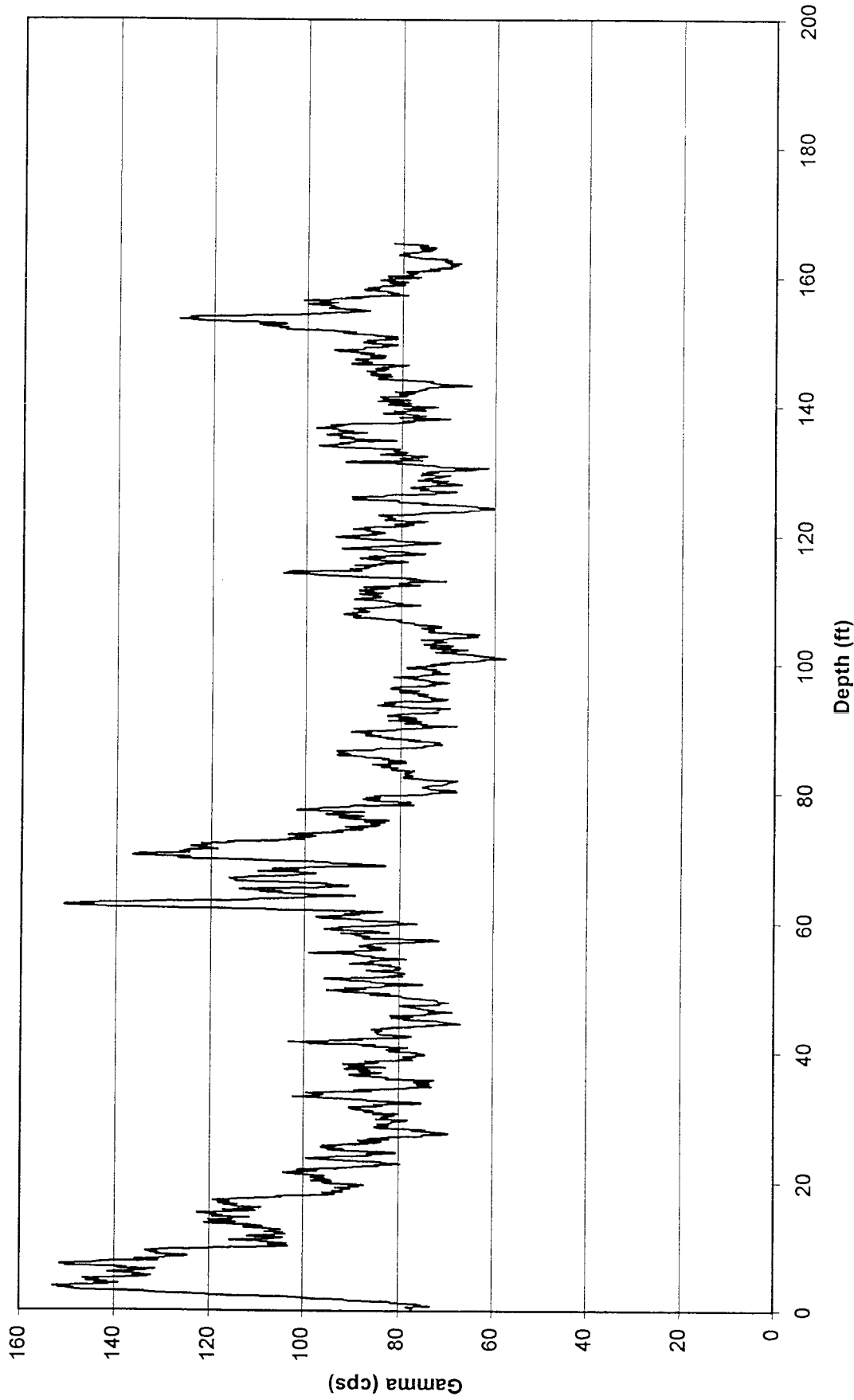
FROM	TO	FORMATION DESCRIPTION	THICKNESS	CASING AND SCREEN	FROM	TO	FOOTAGE
0	6	Topsoil					
6	16	Clay, brown		Casing	0	148	148
16	21	Clay, gray		Screen	148	168	20
21	24	Clay, tan		Casing	168	173	5
24	51	Clay, brown					
51	58	Clay, green, gray					
58	64	Clay, blue, green					
64	92	Clay, black					
92	107	Clay, blue, green					
107	112	Clay, gray					
112	129	Clay, gray, sand streak 128' - 129'					
129	144	Clay, gray, sand streaks					
144	158	Clay, dark gray, gravel streaks					
158	159	Clay, tan					
		CONTINUED ON BACK SIDE					
				Casing left above ground			2
				Total Casing and Screen			175

WELL COMPLETION DETAILS - GRAVEL PACK AND ANNULAR SEAL

FROM	TO	DESCRIPTION	FROM	TO	DESCRIPTION
0	135	Neat Cement			
135	140	Bentonite Holeplug			
140	180	Gravel Pack			

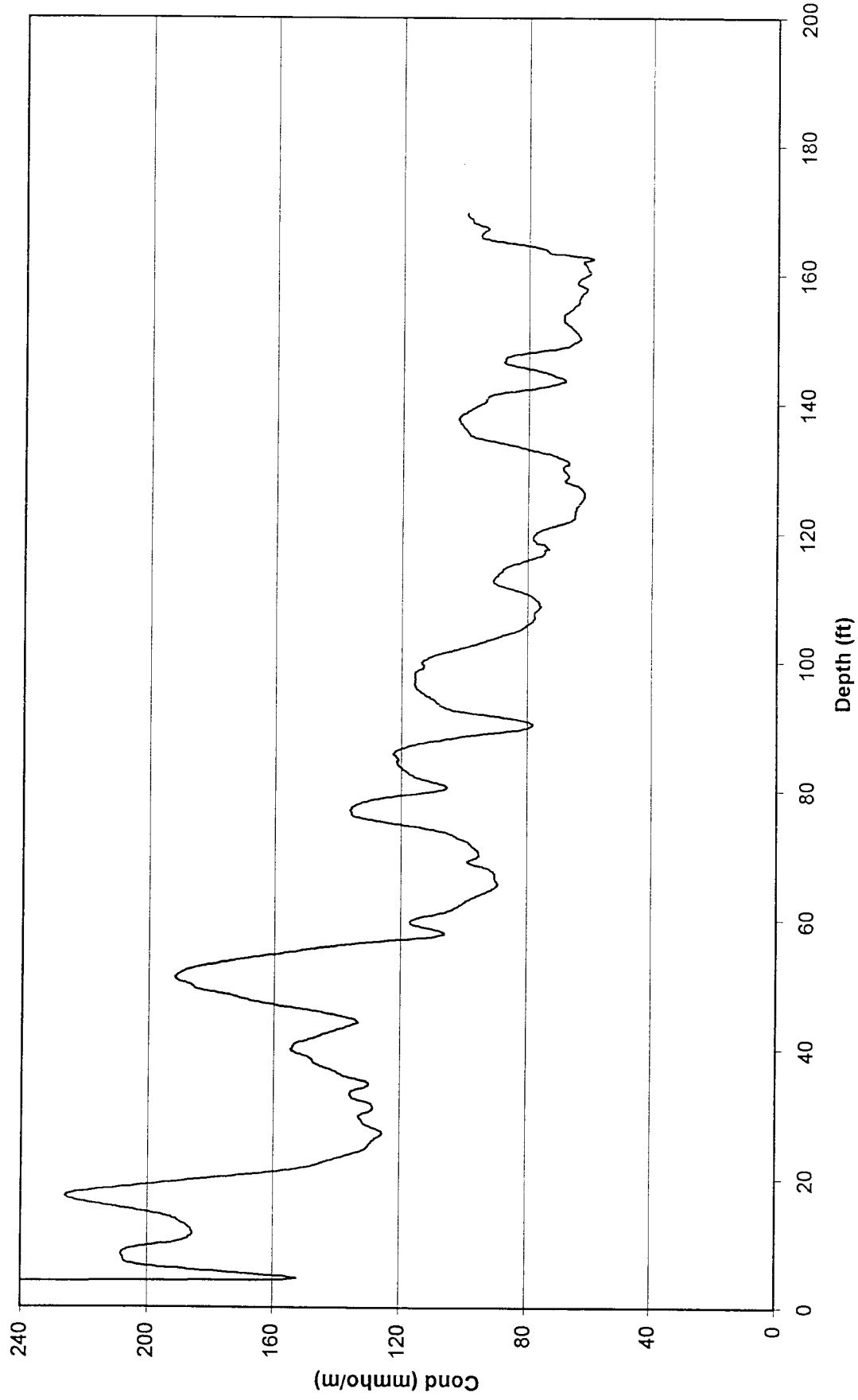
Static Water Level 24.77' (12-2-99) Chlorinated with None Quantity _____
 What is the nearest source of possible contamination? None known
 Direction from well _____ How many feet _____
 Is water level measurement tube installed? Yes No NOTE: All measurements are from ground level
 DESIGNED BY _____ DRILLED BY Edward Cass DATE 12/1/99

Bentrup (ARK3)



Gamma log for Bentrup #1 observation well.

Bentrup (ARK3)



Electrical conductivity log for Bentrup #1 observation well.