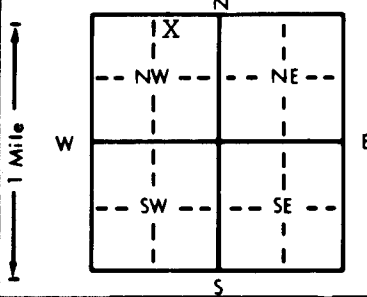


1 LOCATION OF WATER WELL: Fraction NW 1/4 NE 1/4 NW 1/4 Section Number 28 Township Number T 9 S Range Number R 7 **E**W

Distance and direction from nearest town or city street address of well if located within city?
 1 1/2 miles west, 2 3/4 north of Manhattan

2 WATER WELL OWNER: Kurtis Lovgren
 RR#, St. Address, Box # : 812 Kearney St. Board of Agriculture, Division of Water Resources
 City, State, ZIP Code : Manhattan, KS 66502 Application Number:

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

 4 DEPTH OF COMPLETED WELL. 280 ft. ELEVATION:
 Depth(s) Groundwater Encountered 1. 85' ft. 2. ft. 3. ft.
 WELL'S STATIC WATER LEVEL . 82' ft. below land surface measured on mo/day/yr 11-03-88
 Pump test data: Well water was ft. after hours pumping gpm
 Est. Yield .20 GPH Well water was ft. after hours pumping gpm
 Bore Hole Diameter . 8" in. to 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.....**X**.....; If yes, mo/day/yr sample was submitted
 Water Well Disinfected? Yes **X** No

5 TYPE OF BLANK CASING USED: 5 Wrought iron 8 Concrete tile CASING JOINTS: Glued . . . **X**. 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 . 0-84 . . . ft. Dia. 88-108' . in. to 112-132' . ft. Dia. 136-196' . in. to 200-280' . ft.
 Casing height above land surface 24" . . . in., weight . 2.82 . . . lbs./ft. Wall thickness or gauge No. . . . 258
 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 84 . . . ft. to . 88 . . . ft., From . . . 108 . . . ft. to . 112 . . . ft.
 From . . . 132 . . . ft. to . 136 . . . ft., From . . . 196 . . . ft. to . 200 . . . ft.
 GRAVEL PACK INTERVALS: From 24 . . . ft. to . 280 . . . ft., From . . . ft. to . ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout 3 Bentonite 4 Other
 Grout intervals: From 4 . . . ft. to . 24 . . . 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? **S** How many feet? **155**

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	8	Clay-Brown	129	131	Shale-Red
8	15	Shale-Yellow	131	133	Shale-grey
15	29	Limestone-Yellow	133	135	Shale-Red
29	35	Shale-Grey	135	145	Limestone-Grey-Flint
35	38	Limestone-Grey	145	151	Shale-Grey
38	44	Shale-Grey	151	154	Limestone-Grey
44	53	Limestone-Grey-Flint	154	166	Shale-Grey
53	61	Limestone-Yellow	166	175	Limestone-Grey Flint
61	68	Limestone-Grey	175	182	Shale-Grey
68	78	Limestone-Grey-Flint	182	190	Shale-Red
78	86	Shale-Red	190	192	Limestone-Grey
86	93	Shale-Grey	192	193	Shale-Grey
93	94	Limestone-Grey	193	199	Limestone-Grey
94	107	Shale-Grey	199	219	Shale-Grey
107	129	Limestone-Grey	219	230	Limestone-Grey (continued)

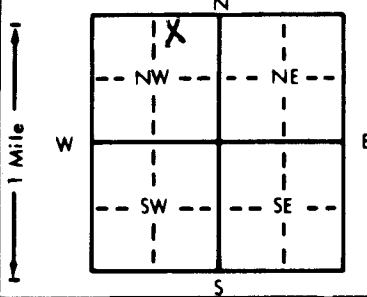
7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) 11-03-88 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 182 This Water Well Record was completed on (mo/day/yr) 11-21-88 under the business name of STRADER DRILLING CO., INC. by (signature) *Jack Strader*

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: 913-296-5514. Send one to WATER WELL OWNER and retain one for your records.

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1 LOCATION OF WATER WELL: Fraction NW 1/4 NE 1/4 NW 1/4 Section Number 28 Township Number T 9 S Range Number R 7 **EW**
 County: RILEY
 Distance and direction from nearest town or city street address of well if located within city?

2 WATER WELL OWNER: Kurtis Lovgren (continued)
 RR#, St. Address, Box #: 812 Kearney St. Board of Agriculture, Division of Water Resources
 City, State, ZIP Code: Manhattan, KS 66502 Application Number:

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

 4 DEPTH OF COMPLETED WELL: 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.
 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 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 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: 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 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 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? How many feet? 155

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
		(continued)			
230	242	Shale-Grey			
242	250	Shale-Red			
250	261	Limestone-Grey			
261	270	Shale-Grey			
270	277	Limestone-Grey			
277	280	Shale-Grey			

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) 11-03-88 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 182 This Water Well Record was completed on (mo/day/yr) 11-21-88 under the business name of Strader Drlg by (signature) Dale Askum

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