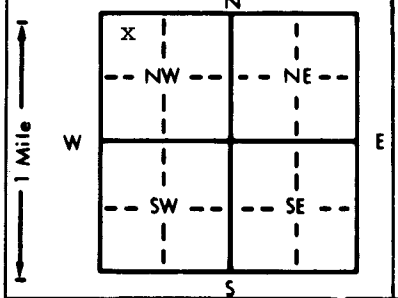
WATER WELL RECORD Form WWC-5 KSA 82a-1212 PAGE 1 of 2

1 LOCATION OF WATER WELL: County: Sherman | Fraction: NW ¼ NW ¼ NW ¼ | Section Number: 8 | Township Number: T 8 S | Range Number: R 39 E/W

Distance and direction from nearest town or city street address of well if located within city?
Approx. 1½ mi. North of Goodland

2 WATER WELL OWNER: City of Goodland
RR#, St. Address, Box # : 204 W. 11th
City, State, ZIP Code : Goodland, KS 67735
Board of Agriculture, Division of Water Resources Application Number: 38,060

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


4 DEPTH OF COMPLETED WELL 354 ft. ELEVATION: unknown
Depth(s) Groundwater Encountered 1. 136 ft. 2. ft. 3. ft.
WELL'S STATIC WATER LEVEL 136 ft. below land surface measured on mo/day/yr 10/17/86
Pump test data: Well water was 208 ft. after 5 hours pumping 200-600 gpm
Est. Yield 600 gpm: Well water was ft. after hours pumping gpm
Bore Hole Diameter 28 in. to 354 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 X No; If yes, mo/day/yr sample was submitted 10/27/86 Water Well Disinfected? Yes X 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 X Threaded
Blank casing diameter 16 in. to 228 ft., Dia 16 in. to 253¼ ft., Dia 16-294½' in. to 16"-329¾ ft.
Casing height above land surface 48 in., weight 62.6 lbs./ft. Wall thickness or gauge No. .375

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) .060 Houston Screen 11 None (open hole)
SCREEN-PERFORATED INTERVALS: From 228 ft. to 248¼ ft., From 253¼ ft. to 273½ ft.
From 294½ ft. to 314 3/4 ft., From 329 3/4 ft. to 350 ft.
GRAVEL PACK INTERVALS: From 194 ft. to 354 ft., From ft. to ft.
Annular Fill From 20 ft. to 190 ft., From ft. to ft.

6 GROUT MATERIAL: A) 1 Neat cement 2 Cement grout B) 3 Bentonite 4 Other
Grout Intervals: From A) 0 ft. to 20 ft., From A) 192 ft. to 194 ft., From B) 190 ft. to 192 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) CREEK
Direction from well? south How many feet? approx. 300

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
0	35	Topsoil, clay	202	207	Fine gravel/streak of cemented sand
35	47	White,tan clayw/caliche streaks	207	221	Red-brown clay/strks fine gravel
47	64	Fine-med. gravel,streak rock, clay @ 50'	221	223	Clay/fine-med strks gravel
64	72	Fine gravel & tan clay/strks rock @ 65'	223	227	Fine-Med gravel/brn clay streaks
72	81	Fine-med gravel	227	237	Med-Coarse gravel
81	98	Tan,white clay w/strks limestone	237	240	Tan clay/strks hard cemented sand
98	105	Coarse sand w/thin clay streaks	240	242	Cemented sand
105	154	Wht,tan clay & clay stone,limestone	242	248	Clay/strks gravel & cemented sand
154	158	Fine-med. gravelw/strks white clay	248	259	Fine-med. gravel/strks clay & cmtd Sand
158	166	Wht clay w/strks fine gravel	259	261	Cmtd sand-hard/strks f-med.gravel
166	180	Fine-med gravel strks cmtd sand,clay	261	272	F.grvl/strks cmtd sand & white clay
180	185	brn sandy clay w/strks cmtd sand	272	288	Cmtd sand/white clay/fine grvl @ 281
185	195	Fine grvl w/clay strks/cemented sand	288	293	Cmtd sand/F-M grvl/thin clay streaks
195	200	Reddish - brown clay	293	296	Fine-med. gravel, cemented sand &
200	202	" "-w/strks fine-med gravel			clay streaks (LOG CONT.NEXT PAGE)

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) 10/17/86 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 185 This Water Well Record was completed on (mo/day/yr) 11/12/86 under the business name of Clarke Well & Equipment, Inc. by (signature)

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, Office of Oil Field and Environmental Geology, Regulation and Permitting Section, Topeka, Kansas 66620-7500, Telephone: 913-862-9360. Send one to WATER WELL OWNER and retain one for your records.

OFFICE USE ONLY T R E/W SEC. ¼ ¼ ¼

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

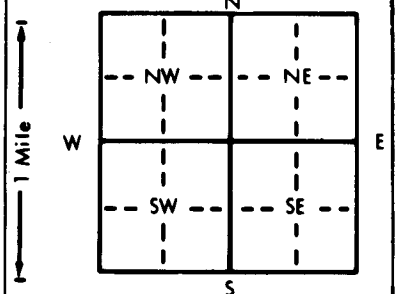
1 LOCATION OF WATER WELL: County: | Fraction: ¼ ¼ ¼ | Section Number | Township Number: T S | Range Number: R E/W

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

2 WATER WELL OWNER: CITY OF GOODLAND
RR#, St. Address, Box # :
City, State, ZIP Code : (Lithologic Log Continued . . .)

Board of Agriculture, Division of Water Resources 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: 1 Domestic 2 Irrigation 3 Feedlot 4 Industrial 5 Public water supply 6 Oil field water supply 7 Lawn and garden only 8 Air conditioning 9 Dewatering 10 Observation well 11 Injection well 12 Other (Specify below) . . . . . .
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	CONT. . . LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
296	301 23	Brn clay & cemented sand, very hard cemented sand strk @ 297'	339	348 13	Fine gravel, some medium strks sandy clay @ 340, 342, plus a few other thin strks
301	305 13	Fine gravel/strks sandy brown clay			
305	309 23	Very hard cemented sand & cemented gravel w/strks fine-med gravel & a few thin clay streaks	348	349 01	Tan & Lt. green clay
			349	354 19	Black shale
309	318 19	Fine-med. grvl w/strks very hard cemented sand & cmtd grvl @ 309' 311', 314'			
318	335 01	Lt. tan & reddish brown clay/strk lt. red shale @ 332'			
335	337 04	Lt. green & tan sandy clay w/a few very thin gravel streaks			
337	339 04	Lt. green & tan sandy clay & fine gravel			

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) . . . . . SEE PAGE -1- . . . . . and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. . . . . This Water Well Record was completed on (mo/day/yr) . . . . . under the business name of by (signature)

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