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

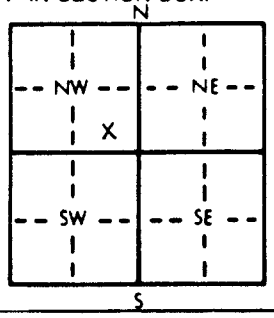
LOCATION OF WATER WELL:	Fraction	Section Number	Township Number	Range Number
County: SHERMAN (KS)	NW ¼ SE ¼ NW ¼	11	T 9 S	R 41 E(W)

Distance and direction from nearest town or city street address of well if located within city?
3½ S & 2½ W CARUSO, KS

WATER WELL OWNER: NW KS GMD #4
RR#, St. Address, Box # : P.O. Box 905
City, State, ZIP Code : COLBY, KS 67701

Board of Agriculture, Division of Water Resources
Application Number:

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



4 DEPTH OF COMPLETED WELL 153.5 ft. ELEVATION: ~~3790~~ 3765

Depth(s) Groundwater Encountered 1. 123.5 ft. 2. ft. 3. ft.

WELL'S STATIC WATER LEVEL 123.5 ft. below land surface measured on mo/day/yr 4-23-91

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 6 in. to 160 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 #SHB-8

Was a chemical/bacteriological sample submitted to Department? Yes No X; If yes, mo/day/yr sample was submitted Water Well Disinfected? Yes No X

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 2 in. to 138.5 ft., Dia in. to ft., Dia in. to ft.

Casing height above land surface 24 in., weight lbs./ft. Wall thickness or gauge No. SCH. 40

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 .010 SLOT 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 153.5 ft. to 138.5 ft., From ft. to ft.
From ft. to ft., From ft. to ft.

GRAVEL PACK INTERVALS: From 153.5 ft. to 132 ft., From ft. to ft.
From ft. to ft., From ft. to ft.

GROUT MATERIAL: 1 Neat cement 2 Cement grout (3) Bentonite 4 Other

Grout Intervals: From 132 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 NONE WITH 1 MI.

Direction from well? How many feet?

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
		SEE ATTACHED LOG			

RECEIVED
MAY 03 1991
DIVISION OF ENVIRONMENT

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) 4-18-91 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) 4-30-91
under the business name of by (signature) Keith Deane
GMD #4

OFFICE USE ONLY T 9 R 41 E(W) SEC. 11 NW ¼ SE ¼ NW ¼

Depth (ft)		Description of cuttings
0-3	01	Topsoil
3-6	13	Loess, tan, some small angular gravel
6-11		Loess, tan to red, some gravel as above, abundant white caliche
11-12		Loess & caliche as above, increase in gravel
12-16	31	Abundant white caliche with abundant fine-medium sand and large to medium gravel, poorly sorted, quartz to red
16-18		Sand and gravel - assorted- red mostly, decreases in caliche, 50-50 sand/gravel
18-26	17	As above
26-28		Increase large gravel - abundant quartz and green pebbles, large blocks of white caliche
28-31	15	Large gravel and pebbles, poorly sorted, and angular, red, green, grey-yellow, decrease in sand, caliche as above
31-37	35	Gravel as above, with about 60% red-gray sandy clay
37-39	17	Large gravel and pebbles as above, out of clay, abundant assorted sand, loose, fast drilling break
39-54	14	Fairly uniform as above, small-large gravel, 20-25% sand- some pebbles, little clay
54-69	04	As above increase in clay red-tan, sandy, about 30% of matrix, some gray-black shale (increased around 63 ft depth)
69-72		Sand, gravel and clay as above, increase in sand, decrease in clay and gravel, 30% sand (fine to coarse), 50% gravel (medium to large) 20% sandy clay
72-81	17	As above, some clay streaks
81-87	35	Initially fast drilling break, gravel as above, decrease clay, mostly med-coarse sand, poorly sorted, sub rounded to angular, arkosic (80%)
87-91		Same as above (loose caving in when trying to ream hole)
91-97	04	Increase in sandy clay
97-101	17	Sand as above with increase in medium to large assorted gravel, some darks (?), some caliche
101-107	04	Red-gray sandy clay with sand and gravel
107-112	35	Mostly clay as above; increase in large gravel and caliche (stringers)
112-117	15	Bit chattering- marked decrease in sandy clay; abundant large gravel and pebbles; mostly fine-coarse poorly sorted clayey sand
117-122		As above
122-123	04	Sandy clay
123-132		Mostly arkosic sand and gravel; increase in quartz grains and clay; abundant medium quartz gravel; streak of sandy clay
132-135		As above
135-145		Fine sand to medium gravel, poorly sorted about 60% quartz grains, low clay content
145-147		As above, looser, bit chatter, increase in large gravel,
147-154	17	As above.