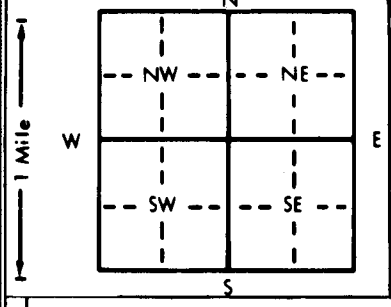
WATER WELL RECORD Form WWC-5 KSA 82a-1212

1 LOCATION OF WATER WELL:	Fraction	Section Number	Township Number	Range Number
County: SHERMAN	NE ¼ SE ¼ SE ¼	11	T 7 S	R 41 E(W)

Distance and direction from nearest town or city street address of well if located within city?
4S 2E OF RULETON KS

2 WATER WELL OWNER: NW KS GROUNDWATER MGMT DIST. 4
RR#, St. Address, Box # : P.O. Box 905
City, State, ZIP Code : COLBY, KS 67701-0905
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 298 ft. ELEVATION:
Depth(s) Groundwater Encountered 1. 172 ft. 2. ft. 3. ft.
WELL'S STATIC WATER LEVEL 172 ft. below land surface measured on mo/day/yr 7-31-89
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 5½ in. to 298 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 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 2 in. to 168 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 11 None (open hole)
1 Continuous slot (3) Mill slot .010 6 Wire wrapped 9 Drilled holes
2 Louvered shutter 4 Key punched 7 Torch cut 10 Other (specify)

SCREEN-PERFORATED INTERVALS: From 168 ft. to 298 ft., From ft. to ft.
From ft. to ft., From ft. to ft.
GRAVEL PACK INTERVALS: From 160 ft. to 298 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 VOLCLAY
Grout Intervals: From 108 ft. to SURFACE ft., From ft. to ft., From 108 ft. to 160 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?

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
				04	SEE ATTACHED PLUGGING REPORT / ADDENDUM

RECEIVED
APR 02 1990
DIVISION OF ENVIRONMENT

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) 3-27-90 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) 3-28-90
under the business name of by (signature) Keith Reams
WATER QUALITY COORDINATOR
NW KS GMD4, COLBY, KS

OFFICE USE ONLY T R E/W SEC. ¼ ¼ ¼

Water Well Plugging Report/Addendum
NW KS Groundwater Management District No. 4
Observation well #SHB-5 NE SE SE 11-9-41, Sherman County

March 16, 1990

Well casing and grout removed about 2 1/2 ft. below ground surface with tractor. Began pouring in hole plug. Hole took only 3 bags. Volumetric calculations indicate hole was bridged at approximately 88 ft.

March 17, 1990

Moved State Geologic Survey tools over hole to attempt to push down bridge. Inserted 1 1/2 inch drill rod, was able to push grout 6 inches, then raised tail of rig off ground.

March 27, 1990

Moved Woofter Pump and Well tools over hole to drill out hole and re-plug. Using air circulation and a 5 1/2 inch drag bit, about 8 ft. of grout and casing were removed when bit kicked off (TD was 20 ft). Another run was made with an 8 inch drag bit and kept kicking off. Another run was made with an 8 inch rock bit. It drilled to about 12 ft. and kicked off. Several runs were made to 20 ft. with this bit plus one run with another drag bit in an attempt to straighten and clean out the hole. At this point the hole became to big for a good air return, thus loosing hole, another connection could not be made. Rigged up and began to rotary drill with water. Slow drilling, some PVC and cement in return flow, although it did not appear to be drilling much. Several runs made below 20 ft. to a total depth of 40 ft. Success of grout/pipe removal at this point was questionable. Bit continued to kick off to a point where kelly was in a bind in the rotary table. Abandoned hole and moved rig off.

Plugging Criteria - 40 ft. to 32 ft., Hole plug chips (4 bags)
32 ft. to 14 ft., sand and clay
14 ft. to 02 ft., Hole plug chips (12 bags)
put steel plate in hole to serve as future marker
02 ft. to surface, compact surface clay