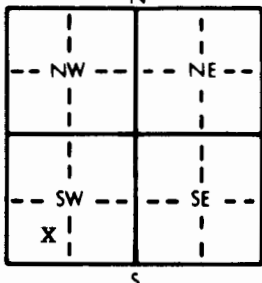


1 LOCATION OF WATER WELL: Fraction **SW 1/4 SW 1/4 SW 1/4** Section Number **21** Township Number **T 27 S** Range Number **R 2** **EW**  
 County: **Sedgwick**

Distance and direction from nearest town or city street address of well if located within city?  
**500' N and 800'E of Kellogg & Webb, in Wichita** **MW-12**

2 WATER WELL OWNER: **Beech Aircraft Company**  
 RR#, St. Address, Box #: **9709 E Central** Board of Agriculture, Division of Water Resources  
 City, State, ZIP Code: **Wichita, KS 67202** Application Number:

3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:  4 DEPTH OF COMPLETED WELL: **108** ft. ELEVATION: **GS 1371.69**  
 Depth(s) Groundwater Encountered 1. **98** ft. 2. ft. 3. ft.  
 WELL'S STATIC WATER LEVEL **98** 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  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  
 PVC 4 ABS 7 Fiberglass Threaded   
 Blank casing diameter .2 in. to ft., Dia .in. to ft., Dia .in. to ft.  
 Casing height above land surface **N/A** in., weight lbs./ft. Wall thickness or gauge No. **sch 40**  
 TYPE OF SCREEN OR PERFORATION MATERIAL:  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  Mill slot 6 Wire wrapped 9 Drilled holes  
 2 Louvered shutter 4 Key punched 7 Torch cut 10 Other (specify)  
 SCREEN-PERFORATED INTERVALS: From **108** ft. to **98** ft., From ft. to ft.  
 From ft. to ft., From ft. to ft.  
 GRAVEL PACK INTERVALS: From **108** ft. to **96** ft., From ft. to ft.  
 From ft. to ft., From ft. to ft.

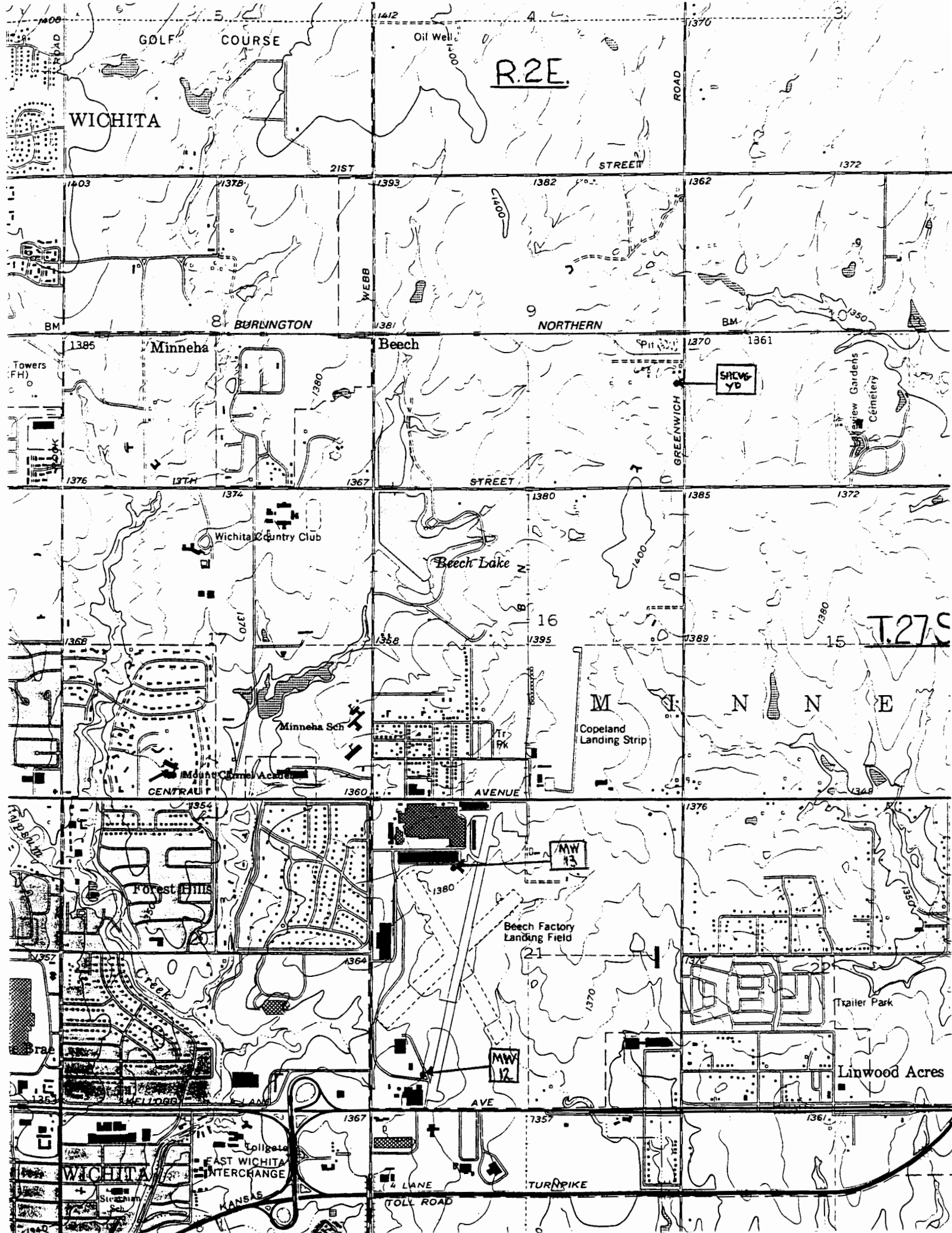
6 GROUT MATERIAL: 1 Neat cement 2 Cement grout  Bentonite 4 Other  
 Grout Intervals: From **96** ft. to **0** ft., From ft. to ft., From ft. to ft.  
 What is the nearest source of possible contamination:  
 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 14 Abandoned water well  
 2 Sewer 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 **Manufacturing Facility**  
 Direction from well? **S** How many feet? **~100'**

FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0'	29'	Silty Clay			
30'	35.5'	Silty Shale			
35.5'	110'	Interbedded Shale and Gypsum Wellington Formation			

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) **March 23, 1994** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **517** This Water Well Record was completed on (mo/day/yr) **4/15/94** under the business name of **Groundwater Technology, Inc.** by (signature) **Albert Stout**

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.

000255



BEECH AIRCRAFT CORE MW12. 500' N of Kellogg and 800'E of Webb Rd.  
SW SW SW Sec 21-T27S-R2E. Elevation 1371.69. Sedgwick Co.

\*\*\*\*\*

BOXES 1&2 0 to 3'. 36" of dark brown, silty, sandy, clay soil.  
0-6 feet Organic matter in top 6-8 inches. Slightly calcareous.  
3' to 6'4". 40" of reddish-brown, silty, sandy-rust-  
stained, non-calcareous mudstone. High iron oxide  
content.

Box 3 6 inches of dark red-brown silty, non-calcareous,  
4-6' clayey mudstone, as above. Changes to 8" yellow clay,  
with about 20% gray mottling and 50-60% dark-red, iron  
oxide mottling. Beneath is 26" of very calcareous,  
silty, yellow, gray-mottled mudstone. Iron oxide  
stain.

Box 4 12-14" of gray and dark yellow mixed. Maroon blebs,  
6-9.5' iron oxide, slightly calcareous, non-laminated clay/mud  
stone above 28" yellow mudstone (slightly gritty to  
taste) which is non-calcareous, slightly grey mottled,  
less iron present; is limonitic rather than hematitic.  
Non-laminated, non-bed. No visible fossils.

Box 5 48" of yellow gray-mottled, silty, very calcareous to  
10-15' slightly calcareous mudstone, becoming grayer toward  
bottom. Silt glitters in sun = calcite crystals.

Box 6 4" of dark-red very silty hackly-breaking, slightly to  
15-25' non-calcareous mudstone which is probably a paleasal  
and overlies 16" of yellow, slightly gray-mottled,  
slightly calcareous mudstone. Then 2" dark-brown, iron  
stained, calcareous, gritty, paleasal which contains  
a few pebbles including recognizable feldspar

fragments. At bottom is 20" light gray, non-calcareous, non-laminated slightly silty mudstone streaked yellow with iron oxide. Bottom 3 or 4" silty and very calcareous.

Box 7

25-30'

33" of yellow to tan, calcareous mudstone with some maroon iron stain over 12" grey, calcareous claystone. Possible slight stratification (difficult to distinguish from tool marks. Has thin, less than 1mm layers minute calcite crystals oriented from horizontal to random angles.

Box 8

30-35'

36" of yellow, gray-mottled, non-calcareous mudstone over 7" gray calcareous claystone showing no stratification or lamination. Blocky, hackly fracture, dark gray-dries very light. Occasionally scattered  $Fe_3O_3$ , small blebs 1mm or less in diameter.

Box 9

35-38'

3" of dark yellow, iron stained claystone atop 33" powdery gyp and massive, crystalline anhydrite. Powder is white, the anhydrite is medium dark gray.

Box 10

38-41'

11" of brown mudstone containing gyp pebbles (etc.) over 23" of gray claystone which contains perhaps 60% massive selenitic gypsum.

Box 12

41-43'

19" of gypsum and anhydrite. Anhydrite is dark gray, xline and gypsum is white to pink and powdery to saccharoidal. Gypsum has some intercalated, very dark-gray shale at 41' level. Next is 11" of dark to medium-gray stratified shale containing numerous small selenite crystals. Lies over 12" of gray, xline anhydrite and slightly powdery, white gypsum.

Box 11

43-45'

6" of brown mudstone over 12" of gray mudstone over 12" of dark gray poorly stratified mudstone containing gypsum (selenite) over 10" of increasingly dark to

almost black mudstone containing filled vugs of selenite.

Box 14  
45-51' Top at 45' is 33" of medium gray mudstone mixed with maybe 30 to 40% gypsum consisting of satin spar veins less than 2 mm thick. The bottom 8" in box is same but the veins thicken and are anhydrite.

Box 13  
45-51' 8½ very dark gray mudstone/shale interbedded with about 50% gypsum. Rest of box to about 50'9" more or less the same. Bottom 3" little darker but retains high gyp content.

Box 15&16  
51-55' 36" gray to dark gray stratified shale with selenite in bedding planes. In middle at about 53.75', shale has greenish-gray color and gypsum is thickening to 0.5 inch layers. The upper 14" of this interval is about 25 to 40% dark-gray shale and about 60 to 75% gypsum.

Box 18&17  
55-58' 55' (Box 18) is 14" gray mudstone containing gyp nodules 1-1½ inches in diameter overlaying 23" of powdery to nodular gypsum (some anhydrite) with minor amounts interbedded grey mudstone. 36" powdery gyp and gray xline anhydrite in Box 17. Both boxes contain total of 73" of core.

Box 19&20  
58-61' 32" gray thinly stratified (2-3 mm) shale drying light-gray. Contains random bands of gyp to ½" or less thickness. 18½" from top is ¾" thick, saccharoidal, bedded gyp. Gyp also occurring in nodules and lenses. Remaining 30" to 61' depth is predominantly gyp with 25% or less interbedded mudstone.

Box 21  
61-62.5' 6½" gray claystone with maybe 30-40% gyp beds and nodules overlaying 12" crystalline gray anhydrite and chalky white gypsum.

- Box 22 62.5-67' 8" anhydrite over 4" laminated, dark-gray mudstone containing gyp "strings" 1 mm thick over about 18" laminated anhydrite. (missing some core)
- Box 23 67-68' 24" mixed gray mudstone/anhydrite. Anhydrite is nodular in mudstone. May be 50-50 or up to 75% anhydrite. Overlies 7" xline gray anhydrite with 15-20% white gyp.
- Box 24 68-73' 28" gray xline anhydrite laminated with 1 mm thick gyp (anhydrite is 2-4mm thick) over 8" gray, thinly laminated shale. Contact fairly sharp.
- Box 25 68-73' 10" of dark-gray, silty mudstone intercalated with selenite gyp over 18" of brown to gray xline anhydrite layers which are  $\frac{1}{4}$ " to 1" thick and separated by chalky gyp.
- Box 26 73-80' 4" of gray, xline anhydrite atop of 28" of brown, xline, "pearly" anhydrite. Overlies 6" of gray, xline anhydrite altered to one third gyp. The bottom 6" is gyp conglomerate in gray mudstone.
- Box 27 80-85' 6-7" of gray-green, gypsy mudstone atop 32" of gray mudstone which is laminated, non-calcareous and well-indurated with light and dark laminae ranging from less than 1 mm to 10 mm. Basal 3" or 4" becoming gypsy.
- Box 28 80-85' 36" of gray mudstone, gypsy in the upper half which contains perhaps 10% or less nodules and thin bands of gypsum.  
cont.
- Box 29 85-97 1 of 3 46" of dark-gray, drying to light-gray claystone containing anastomosing veins of gypsum. Somewhat laminated, non-calcareous, very salty tasting.
- Box 30 46" same as above except that gypsum is nodular,

same nodules are less than 10mm diameter. Gypsum constitutes probably less than 5%

Box 31 5.5 inches of light and dark-gray laminated mudstone.  
 same Silty with minute iridescent crystals too small to resolve with 10x lens. Overlies 8 inches of gypsum which is atop of 4 inches of very dark-gray to black, well-in durated, very gypsy mudstone (could call it "muddy" gypsum"). This overlies 11 inches of gray to white, massive, crystalline gypsum (or anhydrite?). From 95'11" to 97' is gray, silty claystone which is medium dark-gray when damp.

Box 32 12 inches of salty, gray claystone containing gypsum  
 97-98' nodules averaging about 12 mm in diameter.

Box 34 About 24 inches of massive, crystalline, dark-gray to  
 98-105' brown anhydrite which contains a one inch thick layer  
 top to of dark-gray claystone at about 99 feet.  
 mid

Box 33 About 24 inches of mass, crystalline dark-gray claystone  
 98-105' containing gypsum nodules and anastomosing selenite and  
 mid to satin spar veins.  
 bottom

Box 35 24 inches of dark-gray claystone containing gypsum  
 105-110 nodules and two 1 inch thick layers of gypsum. Overlies 6 inches of massive, dark-gray and brown, crystalline anhydrite. The bottom 12 inches (109-110 feet?) is dark-gray, slightly salty claystone which contains anastomosing veins of satin spar and 6 mm thick layers of selenite which are parallel to a faint horizontal lamination.