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

1 LOCATION OF WATER WELL: County: Sedgwick | Fraction: NW ¼ NE ¼ SW ¼ | Section Number: 21 | Township Number: T 27 S | Range Number: R 2 (E) W

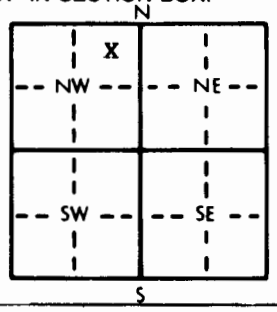
Distance and direction from nearest town or city street address of well if located within city?

1750' E and 1000' S of Central and Webb, in Wichita MW-13

2 WATER WELL OWNER: Beech Aircraft Company
RR#, St. Address, Box # : 9709 E. Central
City, State, ZIP Code : Wichita, KS 67202

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 102 ft. ELEVATION: GS 1369.81

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

WELL'S STATIC WATER LEVEL 92 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 Monitoring well X 11 Injection well 12 Other (Specify below)

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

5 TYPE OF BLANK CASING USED: 1 Steel X 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 X

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: 1 Steel 2 Brass 3 Stainless steel 4 Galvanized steel 5 Fiberglass 6 Concrete tile X 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 X 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 102 ft. to 92 ft., From ft. to ft.

From ft. to ft., From ft. to ft.

GRAVEL PACK INTERVALS: From 102 ft. to 90 ft., From ft. to ft.

From ft. to ft., From ft. to ft.

6 GROUT MATERIAL: 1 Neat cement 2 Cement grout X Bentonite 4 Other

Grout Intervals: From 90 ft. to 0 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 X Other (specify below) Manufacturing Facility

Direction from well? N How many feet? ~100

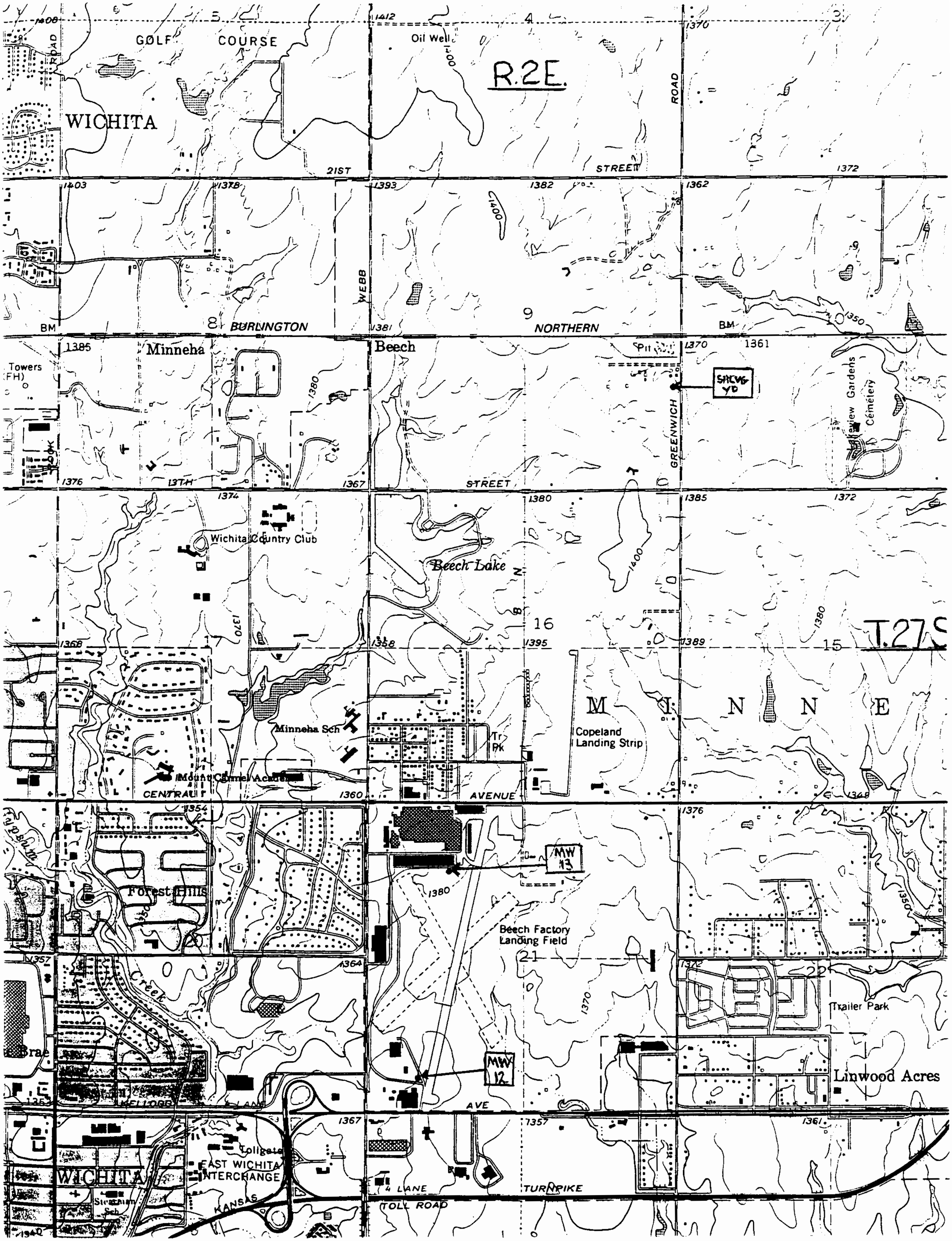
FROM	TO	LITHOLOGIC LOG	FROM	TO	PLUGGING INTERVALS
0	58.5'	Silty Clay			
58.5'	110'	Silty Shale and Gypsum Wellington Formation			

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was (1) X 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 Stant

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.

000254

OFFICE USE ONLY T R E/W SEC. ¼ ¼ ¼



GOLF COURSE
Oil Well
R.2E.
WICHITA
21ST
STREET
BURLINGTON
NORTHERN
WEBB
Minneha
Beech
Towers (FH)
SHCVG YD
GREENWICH
Lakeview Gardens Cemetery
13TH
STREET
Wichita Country Club
Beech Lake
T.27S
M I N N E
Copeland Landing Strip
Minneha Sch
Tr Pk
Mount Carmel Academy
CENTRAL
AVENUE
MW 13
Forest Hills
Beech Factory Landing Field
Creek
Trailer Park
MW 12
Linwood Acres
KELLOGG
AVE
Tollgate
EAST WICHITA INTERCHANGE
WICHITA
Stearman Sch
KANSAS
4 LANE
TURNPIKE
TOLL ROAD

BEECH AIRCRAFT - WELL CORE #MW-13 NW NE SW 21-T27S-R2E Sedgwick Co. 1750′ E of Webb Road & 1000′S of Central. T.D. 102 feet. Surface elevation 1369.81 feet.

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0-6′ Box 1,2,3 — Compacted soil/loess which darkens to dark-brown at about 18 inches. Clay increases with depth. From 4′10" to 6′, is non-calcareous, silty, sandy, slightly weathered mudstone which contains a single visible ½ inch diameter limy nodule.

6-15′ Box 4 — Upper portion is dense, gray mottled with yellow, silty, iron-stained very calcareous mudstone/claystone. At about 10 feet is a non-calcareous, 2 inch thick, reddish-brown to chestnut colored zone. Much grass and "litter" at 14 feet, obvously introduced by drill (lost circulation problem?).

15-20′ Box 5&6 — 24 inches, calcareous, iron-stained gray, tan, and yellow claystone overlies 6 inches of dark-red, non-calcareous claystone, containing "new"grass, etc. Lower 30 inches is very calcareous, gray-tan-yellow mottled claystone, iron-stained. The heavily iron-stained zones are calcareous.

20-25′ Box 7&8 — 42 inches calcareous, iron-stained gray, tan and yellow mottled claystone. Contains small piece of charcoal at 21 foot level. Overlays 30 inches of same type claystone. Very effervescent-no iron-stain in lower 0 inches. A few ostracodes at 25 feet (took sample).

25-30′ Box 9&10 — Upper 38 inches (25′ to 28′2") is slightly to non-calcareous gray to tan claystone. Some limonitic-hematitic stains and concentrations. Possible plant

fragment noted at about 26'7". Overlays 4 inches of yellow, iron-stained claystone, calcareous to slightly calcareous which is atop of 6 inches of mostly gray, less calcareous claystone. 29 to 30 feet is gray to tan calcareous claystone.

30-35' Box 11&12 — Silty, calcareous, yellow claystone mottled by gray and tan. Lower 42 inches are iron-stained. At 32.5 feet is an approximately 6 inch zone that is less to non-calcareous. No distinguishing features, laminae, etc.

35-40' Box 13&14 — 13 inches gray, non-calcareous mudstone over 4.5 feet tan, calcareous mudstone. Some iron staining and patchy clusters of minute calcite crystals surrounded by iron oxide halo. Some minute ankerite crystals, no visible fossils, no gypsum.

40-45' Box 15&16 — Calcareous, gray to predominantly yellow and tan mud stone. Iron stained. Some secondary calcite crystals. Some portions less calcareous. No visible fossils. Color is close to slightly weathered chipboard or particle-board.

45-50' Box 17&18 — 6 inches of grayish tan, iron-stained, fine to medium grained, angular, quartzose sandstone over 24 inches silty light-tan with some gray mudstone, slightly calcareous. Siltiness decreases toward 47'. Overlies 24 inches of gray, mottled with yellow, calcareous claystone. About midway is a quarter-coin sized carbon streak approximately 0.5mm to 1.0mm in thickness.

50-55' Box 19&20 — 4.5 feet of calcareous, darker-gray, tan mottled mud-stone, less calcareous toward 50 feet. Overlays 12 inches light-gray, calcareous mudstone.

55-59′ Box 21&22 — 23 inches of olive-drab mixed with gray mudstone with gypsum efflorescence. More olive-drab colored on fresh (inside) parts. Some hematitic and limonitic stains and concentrations. At 56 foot level is POSSIBLE insect-leg fossil (could be modern). At about 55′5" is fragment of what may be a pellet-filled burrow, round and elongate filled with darker colored "pellets." At about 57 feet is 22 inches of light-gray, non-laminated, mudstone which overlies 14 inches of medium-gray, laminated mudstone containing little to no visible gypsum. Laminae are about 1.0 to 1.5 mm thick. At 58′4" is 8 inches of white, nodular, somewhat disintegrated chalky gypsum.

59-65′ Box 23&24 — 46 inches of gray mudstone, laminated in light and dark layers approximately 0.5 to 1.00 mm thick. Lamination decreases with depth. The lower 24 inches intercalated with perhaps 50% gypsum, the upper 3 or 4 inches of which is brown anhydrite. At 64 feet begins 24 inches of gypsum containing some thin gray mudstone layers-perhaps 10% mudstone. A sharp bottom boundary separates the gypsum from 21 inches of dark gray mudstone containing finely disseminated gypsum. (Much of the core in the interval was so soft when removed from barrel it was flattened on the side it rested on in box.)

65-77′ Box 25 — 6 inches of nodular chalky gypsum overlaying 20" of gyppy gray mudstone. This overlies 12 inches gray mudstone with about 50% intercalated gypsum/anhydrite. (This sediment shows about 45° downward dip relative to long axis of core. Probably soft-sediment deformation or drag by core barrel caused it, since such was not observed in any other portion of the core.)

77-79′ — 14 inched of mostly gypsum with some anhydrite in gray

Box 26 mudstone matrix; many iron oxide grains, silty. At about 78 feet is 12 to 13 inches of gray-green disintegrating, silty, mudstone containing scattered iron oxide granules and a couple of ½ to ¾ inch thick gypsum layers in its upper part. From 78 to 79 feet is 12 inches of mixed mudstone and gypsum.

79-90′ (About 4 feet of core in box; interval from about 82-83
Box 27 to 90 feet is absent if box is correctly labelled.) 3 feet brown, xline to massive anhydrite over 11 inches of light-gray mudstone mixed with chalky, nodular gypsum.

90-95′ 48 inches of brown to dark gray massive anhydrite
Box 28 interbedded with massive gypsum overlaying 14 inches of very dark-gray mudstone which contains perhaps 50% intercalating gypsum and brown xline anhydrite. This section contains some soft-sediment deformation probably caused by gyp/anhydrite conversion.

95-100′ 13 inches of white to light-gray rock gypsum some which
Box 29 is laminated and shows soft-sediment deformation. The upper few inches contains increasing quantities of brown, xline anhydrite which comprises the top 0.5 inches. This is underlain by 11 inches of gray mudstone containing little visible gypsum which overlies 6-7 inches of increasingly gyppy mudstone which contains irregular spaced layers of satinspar ranging to 0.5 inches in thickness. The bottom 10 inches (approximately 99 to 100 feet) is medium-gray gyppy mudstone.

100-110′ Beginning at 100 feet, 12 inches of dark-gray, fairly
Box 30&31 well indurated mudstone which has ± 0.5 inches brown, xline anhydrite at top. This zone contains one POSSIBLE leaf or fragment or insect wing imprint which is more

likely a core drill mark. This overlies about 3 inches of nodular, chalky gypsum with about 0.5 inches brown, xline anhydrite at top which is above 15 inches of dark-gray, dense, non-calcareous color-laminated mudstone which contains no visible gypsum. At 102.5 feet is 3 inches of gray to white xline, alabaster-type gypsum which overlays 9 inches of dark blue-gray, non-calcareous, non-laminated mudstone. The bottom portion of this core consists of 14 inches of very dark-gray (almost black) to blue-gray, very weakly effervescent, non-laminated mudstone which contains crystalline gypsum layers, to 2 mm thick, parallel to deposition. About 2 inches from the bottom is a layer of selenite gyp which is about 0.375 to 0.5 inches thick.