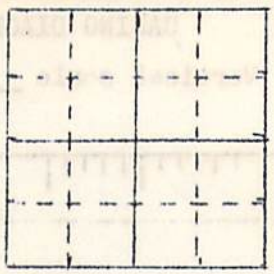
IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

NW-0210

RECORD OF WELL



Location:

Town: Reinbeck (N E S W); County Grundy E.

sec. 28 T. 87 N., R. 15 W. Blackhawk Twp.

Well name and number Reinbeck Town Well #3

Owner _____ Address _____

Tenant _____ Address _____

Contractor Hoeg & Ames Address _____

Drillers _____

Drilling dates Summer 1939

Well data:

Elevations: Drilling curb 983 feet; Land surface _____ feet

estimated by Gulf 950

Determined by D.A.B. alt.

Topographic position _____

Total depth: Reported 350 feet, Measured _____ feet

Drilling method _____

Hole and casing data 212' of 10" pipe from 0-212'; open 10" hole 212' to 350

(Give amount, size, kind, and depth of all casing; type and position of seals and packers; cementing; how finished--perforated pipe, screen, gravel pack, open hole, etc.)

Original depth to water 242 ft. above below curb Date 35-40 gpm

Original elevation of water level _____ ft.; Source of data _____

Sources of water: Principal _____; Others _____

Production data: Date _____

Static depth to water _____ Measuring point _____

Pumping level dd. 8 ft at 275 g.p.m.

_____ _____

_____ _____

_____ _____

Specific capacity 34.3 g.p.m. per ft. drawdown; Temperature _____ °F.

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Pump data; Type pump _____ Column Dia. _____ Length _____

Cylinder or bowls: Dia. _____ Length _____ Suction pipe _____

Power _____ Airline _____

Estimated rate of production: _____ g.p.m. for _____ hrs. a day

Use of water _____

---

WATER ANALYSES (in parts per million)

| | | | | |
|---|---|---|---|---|
| Date sampled | | | | |
| Sampled by | | | | |
| Total solids | | | | |
| Insoluble matter | | | | |
| Alkalinity (Meo) | | | | |
| Alkalinity (Phn) | | | | |
| pH | | | | |
| $Fe_2O_3$+ $Mn_2O_3$+$Al_2O_3$ | | | | |
| Alkali as sodium | | | | |
| Calcium | | | | |
| Magnesium | | | | |
| Iron (unfiltered) | | | | |
| Manganese | | | | |
| Nitrate | | | | |
| Fluoride | | | | |
| Chloride | | | | |
| Sulfate | | | | |
| Bicarbonate | | | | |
| Hardness (ppm) | | | | |
| Hardness (gpg) | | | | |

Remarks _____

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Laboratory data: Sample storage location _____

Sample range 0-350 No. spls. 37 No. dupls. & cond. 37 90.01

Spls. prepared by Yoho Washed range _____ by _____

Driller's log and cond. _____

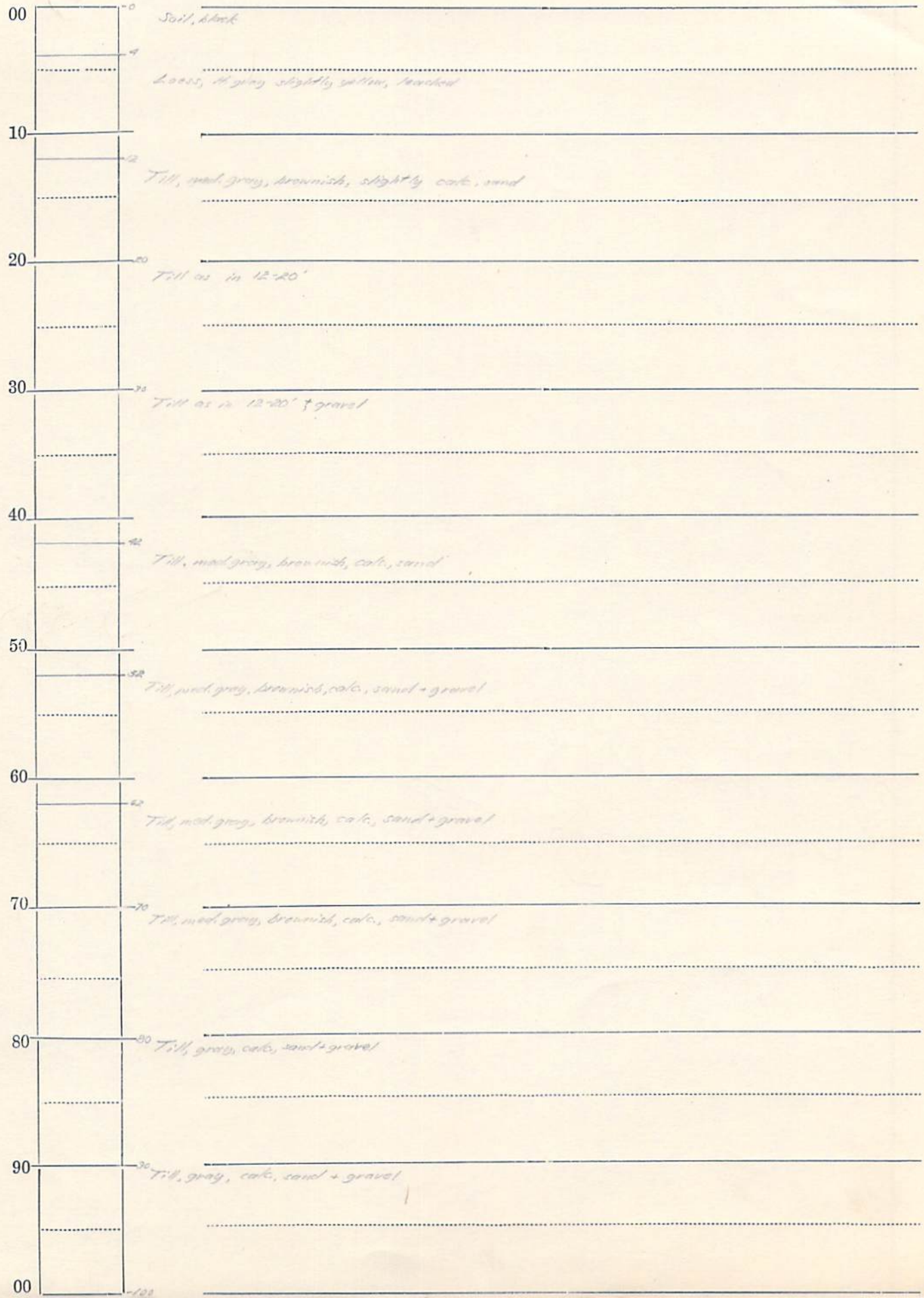
Insoluble residues: Prepared by _____ Studied by _____ Strip log _____

Microscopic study Carmody '39; Carrier '41, Elias '40 strip log M. Elias Sept 1940

Gen. log _____ Correl. by Elias

Sheet No. 1 Name of Well Rainbeck Town Well Survey No. W-0210

Location Grundy Co. Date Drilled Summer 1939 Analyst M. Ellis



Sheet No. 2 Name of Well Deinbeck Town Well Survey No. WI-0210

Location Carnando Co. Date Drilled Summer '39 Analyst M. Elias

100 — 100 Till, calc., gray, sand + gravel

110 — 110 Till, calc, gray, slightly brownish, sand + gravel

120 — 120 Till, calc., brownish gray, sand + gravel

125 Till, calc, mod. gray, sand + gravel

130

135 No Sample

140

145 Till, calc, mod gray, sand + gravel

150

Pleistocene / Shetfield

160 — 160

Ls., v. shaly, v. lt. gray, slightly green, v fn., rare fossil (orthoceras? or coral) fragments

170

175 ls. v. shaly, as in 165-175', fn pyrite v common in spots

180

185 Shale, v calc. lt greenish gray, laminated, pyritic; 40% ls. as in 175-185

190

195 50% Shale, v calc. lt blue-greenish gray, laminated; 50% ls. lt to med gray, v fn to fn., pyritic

200

Sheet No. 3 Name of Well Rainbow Town Well Survey No. W-0210

Location Grundy Co. Date Drilled Summer '39 Analyst M. L. Fliss

200

205 Sh., calc., m. olive green, some lt. olive grayish gray; 20% ls. lt. tan & med. gray, v. fn. to fn.

210

211 T. Cedar Valley Ls., pale buff & pale gray, v. fn. to sub-frth.

216 Ls. as in 211-16'

220

225 Ls., pale buff & pale gray, v. fn. and floury, to mod. (occas. v. phle, mod. sized grains in floury matrix)

clastic ls.

230

235 Limestone as in 225-35'

240

246 Ls., pale to lt. buff, v. fn. and sub-frth., some lt. buff translucent

250

255 Ls. as in 246-50'

260

265 Ls. as in 246-50', more translucent

270

275 Ls. lt. buff and chalky, v. fn. and sub-frth., little clastic

little pale

280

280 Ls. as in 270-80'

290

290 Ls. as in 270-80'

300

300

Sheet No. 4 Name of Well. Reinbeck Town Well Survey No. W-0210

Location Grundy Co. Date Drilled Summer 39 Analyst M. Elias

300 — 300 lm, lt. drab and buff, little pyr., sub-lith. to v. fm., little mod.

310 — 310 lm, w. dolomitic, lt. to med. drab and gray-brown, sub-lith. to fm. sand,

T. wapsipinicon(?)

320 — 320 calc. dolomite, med. drab and gray-brown, fm. sand.; 10% dolo. lt. buff and drab, v. fm. to fm.

330 — 330 dolomite, lt. buff and drab, v. fm. to fm. sand, lt. mod. fragmental percent., pieces of large clear wh.

340 — 340 dolomite as in 330-40'

350 — 350 T.D

60

70

80

90

00

IOWA GEOLOGICAL SURVEY
Generalized Log Based on Detailed
Description of Drill Cuttings

Name of Well: Rainbeck Town Well Survey No. W- 0210

Drilled by: Hoag & Ames, Lincoln, Iowa Date Summer ,193 9

Total Depth: 350 ft; Curb Elevation: ____ ft; Static Level: ____ ft.

Casing Data: ____

Pump and Screen Data: ____

Pumping Test: ____ Hours ____ Min; Gal. Per Min. ____; Drawdown ____ ft. in ____ min.

Description of Formations

| No. | Rock Unit | Thick. | From (Feet) | To |
|---|---|---|---|---|
| | **RECENT** | | | |
| 1. | Soil, black | 4' | 0' | 4' |
| | **PLEISTOCENE** | | | |
| 2. | Loess, leached, light gray, slightly yellow | 8' | 4' | 12' |
| 3. | Clay, slightly calcareous, medium gray, brownish, sandy, with scattered gravel in lower 12' | 30' | 12' | 42' |
| 4. | Clay, calcareous, medium gray brownish, sandy and with scattered gravel | 38' | 42' | 80' |
| 5. | Clay, calcareous, gray, sandy and with scattered gravel | 30' | 80' | 110' |
| 6. | Clay, calcareous, brownish gray, sandy and with scattered gravel | 15' | 110' | 125' |
| 7. | Clay, calcareous, medium gray, sand with scattered gravel | 10' | 125' | 135' |
| | No sample | 10' | 135' | 145' |
| 8. | Clay, calcareous, medium gray, sandy and with scattered gravel | 15' | 145' | 160' |
| | **DEVONIAN** | | | |
| | Sheffield formation | | | |
| 9. | Limestone, very shaly, very light gray, slightly green, very fine, rare fossil fragments, mostly spines, very fine pyrite | 29' | 160' | 189' |
| 10. | Shale, very calcareous, light blue greenish gray, laminated, pyritic, with up to 50% limestone, light to medium gray, very fine to fine | 22' | 189' | 211' |

Notes:

cc sent to Mr. L. W. Wood, State Highway Commission, Ames, Iowa

W-0210

| Description | Thick. | From | To |
|---|---|---|---|
| **Cedar Valley formation** | | | |
| 11. Limestone, pale buff to pale gray, very fine to sub-lithographic | 15' | 211' | 226' |
| 12. Limestone, pale buff to pale gray, clastic, very fine and floury with medium sized rounded grains | 20' | 226' | 246' |
| 13. Limestone, pale to light buff, very fine and sub-lithographic, some of the light buff is translucent in upper 14' | 24' | 246' | 270' |
| 14. Limestone, light buff and drab, little pale, very fine and sub-lithographic, little clastic | 40' | 270' | 310' |
| **Wapsipinicon formation** | | | |
| 15. Limestone, very dolomitic, light to medium drab and gray brown, sub-lithographic to fine sacharoidal | 15' | 310' | 320' |
| 16. Dolomite, medium drab and gray brown, fine sacharoidal | 6' | 320' | 326' |
| 17. Dolomite, light buff and drab, very fine to fine sacharoidal, sacharoidal parts porous, fragments of large clear calcite crystals | 24' | 326' | 350' |