

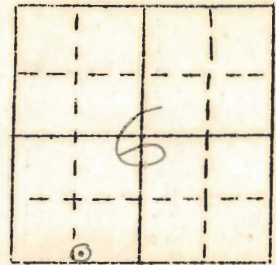
IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

W-1407

RECORD OF WELL

Location:

Town: Earlham (N E)
(S W); County Madison
SW/4 SE-SW sec. 6 T. 77 N., R. 28 W. Madison Twp.



Well name and number Earlham City #1 ?

Owner _____ Address _____

Tenant _____ Address _____

Contractor Thorpe Well Co Address Des Moines

Drillers _____

Drilling dates 1940

Well data:

Elevations: Drilling curb 1105 feet; Land surface _____ feet

Determined by _____

Topographic position _____

Total depth: Reported 600 feet, Measured _____ feet

Drilling method cable

Hole and casing data 168' of 10" casing; 480' of 8" casing

(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 300 ^{above} ft. below _____ Date _____

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

Sources of water: Principal _____; Others _____

Production data: _____ Date _____
 Static depth to water 300 Measuring point _____
 Pumping level 3 at 36 g.p.m.

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

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 (meq)	_____	_____	_____	_____
Alkalinity (Phn)	_____	_____	_____	_____
pH	_____	_____	_____	_____
Fe ₂ O ₃ + Mn ₂ O ₃ +Al ₂ O ₃	_____	_____	_____	_____
Alkali as sodium	_____	_____	_____	_____
Calcium	_____	_____	_____	_____
Magnesium	_____	_____	_____	_____
Iron (unfiltered)	_____	_____	_____	_____
Manganese	_____	_____	_____	_____
Nitrate	_____	_____	_____	_____
Fluoride	_____	_____	_____	_____
Chloride	_____	_____	_____	_____
Sulfate	_____	_____	_____	_____
Bicarbonate	_____	_____	_____	_____
Hardness (ppm)	_____	_____	_____	_____
Hardness (gpg)	_____	_____	_____	_____
Remarks	_____			

Laboratory data: _____ Sample storage location _____
 Sample range 0-600 No. spls. 113 No. dupls. & cond. 107 p to F
 Spls. prepared by Carrier Washed range _____ by _____
 Driller's log and cond. _____
 Insoluble residues: Prepared by _____ Studied by _____ Strip log _____
 Microscopic study 0-600 MME strip log Oct 2, 1941 MME
 Gen. log _____ Correl. by Elias

WATER LEVEL DATA

Measuring point _____

Date	Depth to water	Altitude	Remarks

REMARKS

Well repaired 1941 - cemented between
6" & 8" casing

IOWA GEOLOGICAL SURVEY
Water Well Data Sheet

Survey Number **W-1407**

Town Earlham County Madison T. N., R. W.

Name Earlham Location $\frac{1}{4}$ $\frac{1}{4}$ Sec.

Contractor Thorpe Well Co., Des Moines Driller Use

Construction D Drilling Dates 1940 Drilling Depth

Topog. Curb Elev. Ref. Total Depth 600

Final above
Static Level 300 below Pumping Level ? Draw down gpm 36 pumped Time Date
Depth to bot. pump ft. with ft. suction pipe. drawdown Calc. g/ft. Prin. Prod.
Producing Horizons

Water levels and pumping tests on various horizons during drilling:

Depth Range	Stat. Level	Pump Level	Draw down	gpm.	Temp.	Producing horizons	Producing formations	Formations cased out

Additional information 168' of 10" casing ; 480' of 8" casing.
Repaired in 1941 - cemented between 6" & 8" casing

Laboratory Data

Sample range 0-600 Number samples 113 Number Duplicates 107 Cond. Poor to Fair
Log No, Cond. Boxed Carrier Range 0-600 Date July 17 1941

Remarks Gaps - 250-253, 490-495, 570-575, 580-585
Cut 153 for Gulf - 87 sps (100-600)

Microscopic Study Range Strip Log Gen. Log Blue Print Samples Washed
Insol. Res. Study Range Strip Log Gen. Log Insol. Res. Prepared Well Corel.

Earlham, Madison County — W-1407

Approx location - SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 6, T 77N, R 28W

Approx Elev. = 1105'

Alt. - from memory.