

IOWA GEOLOGICAL SURVEY  
In Cooperation with U. S. Geological Survey  
RECORD OF WELL

W11450

Location:

Town: ORCHARD (NE)  
(SW) County MITCHELL  
SE/4 sec. 7 T. 97N., R. 16 (W) Twp.


Well name and number \_\_\_\_\_

Owner ORCHARD TOWN WELL Address \_\_\_\_\_

Tenant \_\_\_\_\_ Address \_\_\_\_\_

Contractor HORG & AMES Address \_\_\_\_\_

Drillers A.K. SCOTT

Drilling dates SEPT 1959

Well data:

Altitudes: Drilling curb \_\_\_\_\_ feet; Land surface \_\_\_\_\_ feet 1095'

Determined by \_\_\_\_\_

Topographic position UPLAND

Total depth: Reported 220' feet; Measured \_\_\_\_\_ feet

Drilling method CABLE TOOLS

Hole and casing data 5' OF 12" CASING

80' OF 8" CASING 0-80'

109' OF 6" CASING 111'-220'

Original depth to water 29 ft. above \_\_\_\_\_ below \_\_\_\_\_ Date \_\_\_\_\_

Source of data \_\_\_\_\_

Sources of water: Principal 80'-125'-165'-220'

Others \_\_\_\_\_

PRODUCTION DATA

Date \_\_\_\_\_

Static water level 29

Pumping water level 35

Yield (g.p.m.) 130

Measuring point \_\_\_\_\_

Duration of pumping \_\_\_\_\_

Specific capacity \_\_\_\_\_

LABORATORY DATA

SB3-1

Well No. W11450 Sample range 0-220 No. of samples 43

No. of dupls. and cond. 41 Good Washed range 0-220

Samples prepared by Fishwild Date 10/12/59

Logged by NORMAN Date 11/3/59

Correlations by \_\_\_\_\_ Date 11/6/59

# WELL RECORD

Well is located.....miles **N** and.....miles **S** from  
**E** **E**  
**W** **W**

Archid in.....  
(Nearest Town) (County)

in the .....  $\frac{1}{4}$  .....  $\frac{1}{4}$  Sec. .... T. .... R. ....

Owner City Well No. 1

Postoffice address Archid

Contractor King & Ames Inc

Address Leekhi, Iowa

Driller A. J. Scott

Well begun Sept 8, 1959;

completed....., 19.....

Rig used Cable Rotary, Jet, or.....

Depth of well 220  
(Feet)

Size of hole (note total amount of, each size).....

80 ft 12" 160 8"

Main water supply at 80-125-165-220  
(Feet below surface)

Final water head 29  
(Feet above or below surface)

Is well pumped? yes

Yield 130  
(Gallons per minute)

Water level when pumping 35

Position of well.....  
(Upland, valley, side hill, etc.)

## RECORD OF PERMANENT CASING

Size Pipe	Amount of Pipe	Depth to Bottom of Pipe	Depth to Top of Pipe	Type* and Weight of Pipe	DIAGRAM OF WELL
8"	80	80	0	Cement	225' long
12"	5	5	0		
6"	109	220	111		

\*As cast, wrought iron, steel, concrete, etc.

Is screen used? No Diameter..... (Inches)

Length 220 Depth to bottom..... (Feet)

Depth to top..... Slot size   

Are packers or seals used?   

Kind   

Where used   

Kind of pump    Dia..... (Inches)

Capacity of pump..... (g.p.m.)

Power used    (Kind and amount)

Depth to bottom of pump line..... feet, including    feet tailpiece.

Remarks on construction of well   

.....

Sample No.	DEPTH		THICKNESS	DESCRIPTION OF BEDS	
	From	To		KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.	
	0	2	Soil		
	2	19	yellow	lime + Chert + Clay seams	
	19	30	yellow	lime + Chert Clay seams Harder	
	30	40	yellow	+ Grey lime Clay seams	
Some water	40	45	Grey	+ yellow lime + yellow clay	
	45	47	yellow	clay	
	47	63	lime	+ Chert Harder	
	63	67	lime	Blue + yellow clay	
	67	75	lime	+ Shale seams	
Increase in water	75	80	lime	last sample	
water	80	85	yellow	lime Broken	
	85	100	yellow	+ Grey lime Broken	
Increase in water	100	115	yellow	+ Grey lime Broken?	
	115	120	Dark	Be lime + yellow lime	
	120	130	Grey	Sandy lime + shaly	
	130	135	Grey	Sandy lime + little Grey shale	
	135	145	Grey	Shale + lime	

Sample No.	DEPTH		THICKNESS	DESCRIPTION OF BEDS
	From	To		KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
Increase in water	145	150	Grey	lime. little shale + Luff
	150	170	Grey	lime
	170	175	Grey	lime + Shale seams
	175	190	Grey	lime
Increase in water	190	220	Light	Grey sandy lime / sand
	220	210		
	Water level	39		ft -
	70 gal per min			No D.D.
	5 ft. 12 pipe			
	80 ft. 8 pipe	Counted		225 Sacks cement
	108' 11" 6" Pipe	lined		on Bottom Bottom 60' / yd

