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

V-3352

RECORD OF WELL

Location:

Town: Floyd (N E) (S W): County Floyd E.

SE-NW-NE sec. 21 T 96 N., R. 16 W. Twp.

Well name and number Floyd Town Well (1948)

Owner _____ Address _____

Tenant _____ Address _____

Contractor Layne-Western Address Ames

Drillers _____

Drilling dates _____

Well data:

Elevations: Drilling curb _____ feet; Land surface _____ feet

Determined by _____

Topographic position _____

Total depth: Reported 193 feet, Measured _____ feet

Drilling method Cable

Hole and casing date 58' of 8" casing w/ shoe cemented in 12" hole; 8" open hole to bottom

Original depth to water _____ ft. above/below _____ Date _____

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

Sources of water: Principal _____; Others _____

F-E

Production data: Date _____

Static depth to water 60 Measuring point _____
Pumping level 63 at 140 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 AIALYSES (in parts per million)

Date samples				
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				
Chlordie				
Sulfate				
Bicarbonate				
Hardness (ppm)				
Hardness (gpg)				

Remarks _____

Laboratory data: Sample storage location CD8-4

Sample range 0-190 No. spls. 38 No. dupls. & cond. 38-G
Spls. prepared by JED-EMR Washed range 5-5-190 by EMR
Driller's log and cond. _____

Insoluble residues: Prepared by _____ Studied by _____ Strip log _____
Microscopic study 0-190 strip log 11-9-48
Gen. log _____ Correl. by R. Wehmer

LAYNE-WESTERN COMPANY

WATER SUPPLY CONTRACTORS

WELL WATER SUPPLIES AND
PUMP EQUIPMENT FOR
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THROUGHOUT THE COUNTRY

AMES, IOWA

AUG 5 1948

August 4, 1948

Dr. H. G. Hershey
Iowa Geological Survey
Geology Annex Bldg.
Iowa City, Iowa

Dear Dr. Hershey:

We are pleased to furnish the following information on the well just completed for the town of Floyd, Iowa.

The well was completed at a depth of 193 feet in lime rock. A 12" hole was drilled to 25 feet and 8" casing with drive shoe was driven to 58 feet. The 25 feet of 12" hole around the 8" was then filled with neat cement, and the well was completed by drilling 8" open hole to 193 feet. A 6 hour test was run at 140 g.p.m. with 3 ft. drawdown. The static water level was 60 feet.

Following is log of well:

0	-	2	black top soil
2	-	30	yellow clay
30	-	37	blue clay
37	-	40	yellow clay
40	-	50	sand
50	-	51	sand and stiff clay
51	-	55	stiff blue clay
55	-	67	lime rock (little water)
67	-	90	solid hard brown rock
90	-	110	hard brown rock
110	-	120	hard gray rock
120	-	140	hard gray rock
140	-	160	hard gray rock
160	-	170	soft gray rock (water)
170	-	193	soft gray lime rock (water)

Samples of cuttings are being sent under separate cover.

Yours very truly,

LAYNE-WESTERN COMPANY

M. S. Munson

M. S. Munson

MSM:le