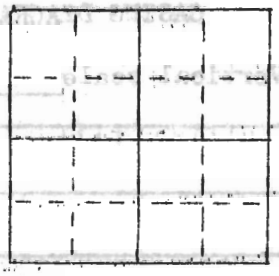
IOWA GEOLOGICAL SURVEY W-2445

In Cooperation with U. S. Geological Survey

RECORD OF WELL



Location:

Town: Everly (N E / S W): County Clay E.

SE¼ SW¼ SW¼ sec. 30 T 97 N., R. 38 W. Twp.

Well name and number Hartley Town Test Well #22 (1946) (Well is in Clay County)

Owner Hartley Address

~~Tenant~~ (Koele farm) Address

5 miles E. of Hartley on highway #18 N side in farmyard Sta. 10.5 96 L. N of C/L

Contractor Layne-Western Address

Drillers

Drilling dates June 22, 1946

Well data:

Elevations: Drilling curb 1370 feet; Land surface feet

2'± lower than section corner

Determined by

Topographic position

Total depth: Reported 40 feet, Measured feet

Drilling method Rotary

Hole and casing data 4-inch hole

Screen 10 - 15'

Screen 18 - 23'

Original depth to water ft. above/below Date

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 — at — 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 samples	June 22, 1946	June 22, 1946		
Sampled by				
Total solids	631	566		
Insoluble matter	46	32		
Alkalinity (Meo)	216	219		
Alkalinity (Phn)	0	0		
pH	7/8/46 7.9	7/8/46 7.6		
Fe_2O_3+ Mn_2O_3+Al_2O_3	10	6		
Alkali as sodium	26	16		
Calcium	112	111		
Magnesium	29	26		
Iron (unfiltered)	2.4	0.0		
Manganese	0.2	0.3		
Nitrate	34	4.9		
Fluoride	0.9	0.8		
Chloride	7	6		
Sulfate	171	171		
Bicarbonate	263	261		
Hardness (ppm)	404	387		
Hardness (gpg)	23.6	22.0		
Remarks	At 15'	At 23'		

Laboratory data: Sample storage location

Sample range 0-40 No. spls. 8 No. dupls. & cond. 8 pair
Spls. prepared by MCP & ES Washed range none by
Driller's log and cond. Yes very good
Insoluble residues: Prepared by Studied by Strip log
Microscopic study 0-40 Ed. strip log ✓ in folder
Gen. log Correl. by

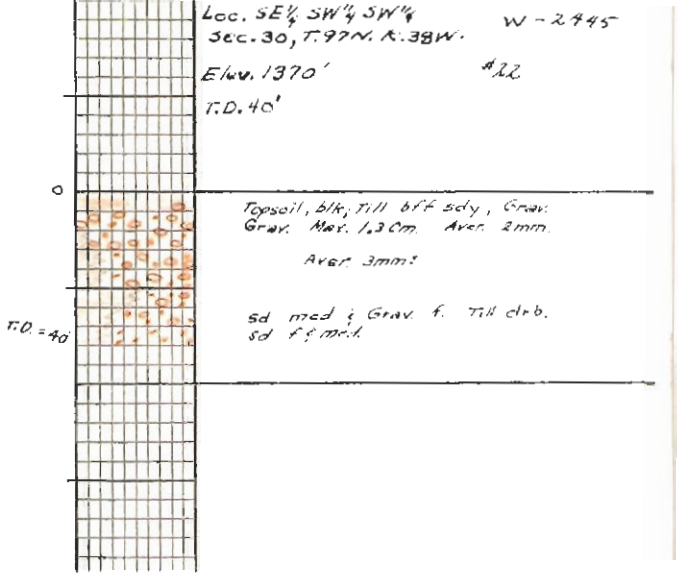
WATER LEVEL DATA

Measuring point _____

Date	Depth to water	Altitude	Remarks

REMARKS

Took water samples at 22' and at 15'. Pumping time 5 hours. Water level while pumping, 6'6"
Water level after pumping 6'


Loc. SE¼ SW¼ SW¼
Sec. 30, T. 97N. R. 38W.
W-2445
Elev. 1370'
#22
T.D. 40'
0
Topsoil, blk; Till brf sdy, Grav.
Grav. Max. 1.30cm. Aver. 2mm.
Aver. 3mm.
sd med & Grav f. Till drb.
sd f & m.k.
T.D. = 40'