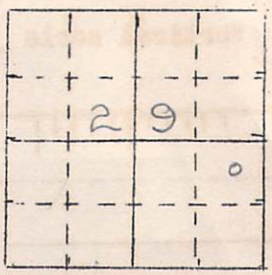
IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

40613

RECORD OF WELL



Location:

Town: Lime Springs (N E S W); County Howard E.

SW NE NE SE sec. 29 T. 100 N., R. 12 W. Forest City Twp.

Well name and number No 1

Owner Town of Lime Springs Address

Tenant Address

Contractor Address

Drillers

Drilling dates 1913

Well data:

Elevations: Drilling curb 1232.5 feet; Land surface 1242.3 feet

Determined by

Topographic position

Total depth: Reported 140 feet; Measured feet

Drilling method

Hole and casing data 10-12 feet of 10" 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.)
Bowls set at 77' - turbine - capacity is 250 gpm.

Original depth to water ft. above below Date

Original elevation of water level ft.; Source of data

Sources of water: Principal Devonian dolomite; Others

Production data: Date _____

Static depth to water 6.0 Est.; Measuring point Pump base

Pumping level 30 Est. at 250 Est. g.p.m.

Specific capacity 10± g.p.m. per ft. drawdown; Temperature 48 (Apr. 7, 1944) °F.

Pump data: Type pump Turbine: Column. Dia. _____ Length _____

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

Power Electric; Airline _____

Estimated rate of production: 250 g.p.m. for _____ hrs. a day

Use of water Town supply - 30,000 - 40,000 gallons of water per day

WATER ANALYSES (in parts per million)

Date sampled	April 17, 1944			
Sampled by	N.E. Hale			
Total solids	470			
Insoluble matter	17.5			
Alkalinity (Meo)	323.0			
Alkalinity (Phn)	0.0			
pH	7.5			
$Fe_2O_3+Mn_2O_3+Al_2O_3$	5.5			
Alkali as sodium	13.0			
Calcium	115.8			
Magnesium	33.6			
Iron (unfiltered)	1.9			
Manganese	0.0			
Nitrate	3.5			
Fluoride	0.3			
Chloride	34.0			
Sulphate	87.9			
Bicarbonate	394.1			
Hardness (ppm)	431			
Hardness (gpg)	25.2			

Remarks _____

Laboratory data: Sample storage location _____

Sample range _____ No. spls. _____ No. dupls & cond. _____

Spls. prepared by _____ Washed range _____ by _____

Driller's log and cond. _____

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

Microscopic study _____ strip log _____

Gen. log _____ Correl. by _____