

6237

Town: Ellsworth (N E)
(S W) : County Hamilton

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NW NW SW sec. 30 T. 87 N., R. 23 W. E. Twp.

Well name and number Ellsworth Town Well (1953)

Owner _____	Address _____
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Tenant	Address
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Contractor Layne-Western Co. Address _____

Drillers Kenneth Smith

Drilling dates Sept. 1953

Altitudes: Drilling curb feet; Land surface 1087' feet

Determined by

Topographic position

Total depth: Reported 365 feet, Measured _____ feet

Drilling method

Hole and casing data

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

Source of data

Sources of water: Principal

Others _____

Production Data

Date	_____	_____	_____	_____
Static water level	_____	_____	_____	_____
Measuring point	_____	_____	_____	_____
Pumping water level	_____	_____	_____	_____
Yield (g. p. m.)	_____	_____	_____	_____
Duration of pumping	_____	_____	_____	_____
Specific capacity	_____	_____	_____	_____

Pump Data

Type pump	_____	Column diameter and length	_____
Cylinder or bowls diameter and length	_____		
Suction pipe	_____	Airline	_____
Power	_____	Production	_____ g. p. m. for _____ hours per day
Use of water	_____		

Dissolved constituents and properties (in parts per million except as indicated)

Date sampled	_____	_____	_____	_____
Sampled by	_____	_____	_____	_____
Silica (SiO ₂)	_____	_____	_____	_____
Iron (Fe)	_____	_____	_____	_____
Manganese (Mn)	_____	_____	_____	_____
Calcium (Ca)	_____	_____	_____	_____
Magnesium (Mg)	_____	_____	_____	_____
Potassium (K)	_____	_____	_____	_____
Sodium (Na)	_____	_____	_____	_____
Carbonate (CO ₃)	_____	_____	_____	_____
Bicarbonate (HCO ₃)	_____	_____	_____	_____
Sulfate (SO ₄)	_____	_____	_____	_____
Chloride (Cl)	_____	_____	_____	_____
Fluoride (F)	_____	_____	_____	_____
Nitrate (NO ₃)	_____	_____	_____	_____
Dissolved solids	_____	_____	_____	_____
Hardness (as CaCO ₃)	_____	_____	_____	_____
Total	_____	_____	_____	_____
Grains per gallon	_____	_____	_____	_____
Noncarbonate	_____	_____	_____	_____
Alkalinity (as CaCO ₃)	_____	_____	_____	_____
pH	_____	_____	_____	_____
Specific conductance	_____	_____	_____	_____
(micromhos at 25°C)	_____	_____	_____	_____
Temperature (°F)	_____	_____	_____	_____
Analysis No.	_____	_____	_____	_____

Well No.	<u>W 6237</u>	Laboratory Data	Location	<u>EC 6-2</u>
No. of dupls. and cond.	<u>74 Good</u>	Sample range	<u>0-365</u>	No. of samples <u>74</u>
Samples prepared by	<u>DeRoma, Palensky</u>	Washed range	<u>120-365</u>	Date <u>11/17/53</u>
Logged by	<u>C Brown</u>	Date	<u>2-23-54</u>	Date <u>3-1-54</u>
Correlations by	<u>C Brown & RC Northup</u>	Date	<u>3-1-54</u>	

6237

Name Ellsworth Town well (1953)
Loc. NW NW SW 30-87 N-23 W, Hamilton Co.
T.D. 365'
Drilled Layne-Western Co. Sept., 1953
Log W-6237 C.N. Brown
Casing 10" - 125'

SOUTH H. WELL

IN PAZIC

WELLS 30' APART

Prod. data: SWL - 43 - PUMPED 175 GPM WITH 5' DD - 230 LBS CHLORINE USED
MAR 19-24, 1962

Reportedly pumped 7 hours at 190 gpm 1/8/58 prior to taking
water sample TUR. PUMP SET AT 113' INCLUDING 10' TAIL PIPE

Water analyses: No. 17410 (5504) 1/2/58; No. 8799 (4196) 10/21/54. pop. 493 (1960)
No. 1841 (3925) 1/8/63 (over)

Need: ^{OK}casing, ^{OK}water levels, ^{OK}prod.

JAN TO JUN 45,000 GPD

TURKEY PLANT → JUN TO JAN 300,000 GPD

98% OF POP ON CITY 545

KENETH JOHNSON

202 meters

2023 have own wells

Elev.	1087			
Formation	Depth	Top	Base	Thick.
St. Louis	115	972	962	10
Burlington	125	962	947	15
Gil. City	140	947	867	80
Hampton	220	867	752	115
Maynes Crk.	335	752		30

Turkey plant	35,550,000	g/yr.
Thompson Hatchery	400,000	"
Ellsworth "	380,000	"
Locker plant	600,000	"
Elevator	300,000	"

37,230,000 g/yr.

493

98%

3944

4437

483.14

48,707,000 g/yr. includes industry

= 135300 qpd " "

= 280 qpd/per. " "

48 707 000 total use

37 230 000 industry use

11,477,000 domestic use = 31880 qpd

= 65 qpd/per.

Turkey plant is seasonal operation with influx of migratory workers
This ups qpd/per.

135300 qpd
360) 48 707 000
360

1270

1080

1907

1800

1070

280
483) 135300
966
3870
3864