PUMPING TEST AT THE ELDON TOWN WELL WAPELLO COUNTY, IOWA

A pumping test was performed on the Eldon town well in Wapello County on October 11, 1961. The Geological Survey cooperated in obtaining rate of discharge data and making water level measurements from the pumping well.

The well was pumped for approximately 8 hours with an almost constant discharge rate of 844 gpm after the first 15 minutes of pumping.

The static water level was 43.0' and the pumping level after approximately 8 hours was 80.02'. The drawdown was 37.02'; which is a specific capacity of 22.8 gpm/ft. under these conditions. The well recovered to slightly above static in 25 minutes.

Pumping and water level records should be kept when the well is put into production in order to aid any future planning.

This is O.K - CV8

PUMPING TEST AT ELDON TOWN WELL WAPELLO COUNTY, IOWA

Location: NE-SW-SE, sec. 26, T. 71 N., R. 21 W.

Total Depth: 1901 feet

Elevation of Land Surface Datum: Approximately 650 feet

Contractor: Thorpe Well Company

Driller: Ed Agers

Date Drilled: May 29 to October 6, 1961

Casing Data: 12" pipe 0' to 260'

10" " 260' to 775'

8" " 775' to 1590'

7 5/8" open hole 1590' to 1901'

All welded joints and reducers 1100 sacks of cement--grouted Entire length of casing by Haliburton

Water Level: Static water level was 43.0' below the top of the casing which was approximately 1.2' above land surface.

Test Pump: Turbine powered by direct drive from diesel

Aquifer: Oneota, Jordan, and St. Lawrence

Measurements: Water level measured with airline, electric line, and steel tape. Discharge was measured by circular orifice and meter.

Observer: L. L. Steele

9-230 Oct 11, 1961

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

File No. { Washington ______ District _____ M.P = 1.2' ALSD, Ain Line SET252'

ELDON TOWN WELL PUMPING TEST

| BLUTE & CLASSIC STATE | min. | AiRLINE | 7/2 | 2/2 | OR 8" PÉ | GPM | | | | | |
|--|------|--|----------------------------------|--|----------|--|----------------------|----------------------|-------------------|--------|------|
| 8:05 | 0 | 209 | 43 | 0 | _ | | Pump | STA | RIED | | |
| 8:10 | 5 | 186 | 66 | 23 | 17 | 654 | | | | | |
| 8:15 | 10 | 180 | 72 | 29 | 24 | 776 | | | | | |
| 8:20 | 15 | 175 | 77 | 34 | 28.5 | 838 | | | | | |
| 8:25 | 20 | 175 | 77 | 34 | 29 | 844 | | | | | |
| 8:30 | 25 | 172 | 80 | 37 | 283/4 | 841 | | | | | |
| 8:35 | 30 | 172 | 80 | 37 | 29 | 844 | | | | | |
| 8:40 | 35 | 171 | 81 | 38 | 29 | 844 | T-74° | | | | |
| 8:45 | 40 | 172 | 80 | 37 | 29 | 844 | | | | | |
| 8:55 | 50 | 175 | 77 | 34 | 29 | 844 | | | | | |
| 9:00 | 55 | 172 | 80 | 37 | 29 | 844 | 79.2' | ELEC | . LiNE | | |
| 9:15 | 70 | 172 | 80 | 37 | 29 | 844 | | Pump | | | |
| 9:30 | 85 | 172 | 80 | 37 | 29 | 844 | | ÉLEC. | | | |
| 9:46 | 101 | 172 | 80 | 37 | 29 | 844 | | | | | |
| 10:00 | 115 | 172 | 80 | 37 | 29 | 844 | 1550 | Pump | RPM | | |
| | | | | | | | 81066 | MBY | METE | 2 | |
| | | | | | | | 290 P | ELEC. PM. NAIN | HARE | NESS | |
| | | | | | | | 0.8 7 | PM- | TRON | IDE | |
| | | | | | | | 0.91 | PPM- A | LOUR | IDE | |
| 10:20 | 135 | 172 | 80 | 37 | 29 | 844 | | | | | |
| 10:35 | 150 | ELEC. | 40.0 | 37.0 | 29.5 | 851 | 1575 | PUMP | RPM | | |
| 11:00 | 175 | | | | 29.0 | | | | | | |
| 11:30 | 205 | | 80.0 | 37.0 | 29.0 | 844 | | | | | |
| | 235 | | | | 29.0 | | HELD | WET | W/L | | |
| | 255 | | 1 | 36.7 | | | 82.0 | 2.35 | 79.7 | -STÉEL | TAPE |
| The same of the sa | 265 | | | | 29 | 840 | | | | | |
| | 295 | | | | 29.0 | | 1550 0- M 7.2- | ANGAN P. H. | 1656 | | |
| | 325 | | | | 29.0 | | 1550 | 7 | I was a second of | | |
| | 355 | | | | 29.0 | | | | | | |
| | 425 | | | | 29.0 | | T-74°/ | | | | |
| | 455 | | | | 29.0 | | | | | | |
| CARLES NAMED IN STREET | 525 | THE REPORT OF THE PARTY. | AND DESCRIPTION OF THE PARTY AND | The second of the second | 29.0 | THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW | 1550 | Pump | RPM | | |
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9-230

UNITED STATES OCT 11, 1961 DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

| TRUL NT - | Washington | | | | | |
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| File No. | District | | | | | |

MD=1.2 ALSO FIDON TOWN WELL PROPRING TEST

| ELU | 0 1/ | 10 W | NN | IELL | Pu. | MPI | NG: | TE57 | _ | | mt | 0=1. |
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| ripin. | win | HELD | WET | W | RECOVERY | | | | | | | |
| 4:00 | | | | 80.02 | 7.7. | | Pump | OFF | | | | |
| 4:01 | 1 | ELEC | LINE | 47.15 | 32.87 | | | | | | | |
| 4:02 | 2 | " | " | 44.05 | 35.97 | | | | | | | |
| 4:03 | | 11 | п | 43.55 | 36.47 | | | | | | | |
| 4:04 | 4 | 11 | | 43.30 | 36.72 | THE RESIDENCE AND ADDRESS OF THE PERSON | EAST-THE BURNS | | - | | | |
| 4:05 | 5 | н | N | 43.15 | 36.87 | | | | | | | |
| 4:06 | 6 | " | " | 42.97 | 37.05 | | | | | | | |
| 4:07 | 7 | " | " | 42.90 | 37.12 | | | | | | | |
| 4:08 | 8 | " | " | | 37.19 | | | | | | | |
| 4:09 | 9 | n | и | 42.80 | 37.22 | | - | NAMESTER | evernosit cursus com so | and the state of t | AND DESCRIPTION OF THE PARTY OF | - AND THE REAL PROPERTY OF THE PARTY OF THE |
| 4:10 | 10 | n | " | 42.75 | 37.27 | | | | | | | |
| 4:12 | 12 | 16 | " | | 37.31 | | | | | | | |
| 4:14 | 14 | n | 11 | | 37.34 | | | | | | | |
| 4:16 | | " | " | | 37.37 | | | | | | | |
| 4:18 | 18 | " | " | 42.62 | | | | | | | | |
| 4:20 | 20 | n | 17 | les de les propositions | 37.42 | | | | | | | |
| 4:25 | 25 | 45.00 | 2.30 | | 37.32 | | | | | | | |
| 4:30 | | | | | 37.28 | | | | | | | |
| 4:35 | | | | 42.72 | | | 1 | | | | | |
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* MEAS. BY STEEL TAPE