

18113

IOWA GEOLOGICAL SURVEY
In Cooperation with U.S. Geological Survey
RECORD OF WELL

Location:

Town: GILBERT (NE) County STORY
(SW)
Sec. 4, T. 84, N. , R. 24 (E) (W) Twp.

Well name and number Owner GILBERT TOWN WELL (1966) Address GILBERT, IOWATenant Address Contractor THORPE WELL CO. Address DRS MOINES, IOWADrillers Drilling dates FEB. 1966

Well data:

Altitudes: Drilling curb feet; Land surface feetDetermined by Topographic position Total depth: Reported 151' feet; Measured feet

(TO DEEPEN?)

Drilling method ROTARY - LOST CIRCULATION - NO SAMPLES BELOW 130'

Hole and casing data 129' O.D. 8" CASING 0-129' SET IN 11" HOLE
7 7/8" O.P.W. HOLE 129'-151'

Original depth to water feet. ^{above} _{below} Date

Source of data

Others _____

Date: 11/11/2011

Static water level 7.5

Pumping water level 118'

Yield (g.p.m.) 110 REPORTED TO HAVE PUMPED 300 GPM. AT THE

Measuring point Crawlers were cleaned out.

Duration of pumping

Specific capacity

PL 6-388

Well No. # 18113 Sample range 0-130 No. of samples 25

No. of dupls. and cond. 1615 Washed range

Samples prepared by Dennis LaPoint Date 4/11/66.

Logged by Nonrue Date Feb 66

Correlations by _____ Date 7/12/68

GILBERT TOWN WELL

Drillers Log

- | | |
|---------|--|
| 0-2 | Top Soil |
| 2-8 | Sandy yellow clay |
| 8-109 | Gray clay |
| 109-112 | Shale |
| 112-129 | Dark Gray Shale |
| 129-135 | SANDY LIMESTONE, SANDSTONE, AND SOME SHALE |
| 135-141 | SANDY LIMESTONE AND SANDSTONE |
| 141-151 | Gray Shale |

TD = 151'

MEMORANDUM

APRIL 11, 1966

TO DR. H. C. HENSHAW

FROM RICHARD C. NORTON

RE NEW WELL AT GILBERT

THORPE FINISHED A WELL FOR TOWN OF GILBERT IN STORY COUNTY ABOUT A MONTH AGO AT A DEPTH OF 150 FEET. THE SECTION SHOWS TILL TO 109 FEET, PENNSYLVANIAN SHALE FROM 109 TO 129 FEET AND SANDY LIMESTONE AND SANDSTONE FROM 129 TO 151 FEET. NO SAMPLES COULD BE TAKEN BELOW 129 FEET DUE TO CALVICIES. THIS IS ANOTHER LOST CIRCULATION PROBLEM. 8" CASING WAS SET IN 11" HOLE AT 129 FEET (APPROXIMATE TOP OF THE LIMESTONE). THE UPPER PART OF THE CASING WAS CEMENTED, BUT IT WAS IMPOSSIBLE TO RUN THE PIPE BELOW THE TOP OF THE LIMESTONE AND CEMENT THE LOWER PART DUE TO THE HEAVY CALVICIES. THE WELL WAS COMPLETED FOR 118 GPM WITH STATIC OF 75 FEET AND PUMPING LEVEL OF 118 FEET, AND THE WATER WAS ORIGINALLY CLEAR. RECENTLY, HOWEVER, SAND AND SHALE FROM THE PENNSYLVANIAN HAVE BEEN GETTING DOWN INTO THE CALVICIES AND CONTAMINATING THE WATER. THORPE WANTS US TO RUN THE SAMPLES AND SEND THEM A COPY OF THE LOG. IN THE MEANTIME THEY HAVE BEEN PUMPING THE WELL AGAIN IN AN ATTEMPT TO ^{AND SAND} CLEAN OUT THE SHALE AND SEEM TO HAVE BEEN PARTIALLY SUCCESSFUL. HOWEVER, WITH THE PIPE SET WHERE IT IS, WITH THE LOWER PART UNCEMENTED, IT LOOKS LIKE THEY MAY HAVE A CONTINUING PROBLEM UNLESS THEY CAN RUN A SMALLER DIAMETER CASING BELOW THE CALVICIED ZONE, BUT THEN THEY WOULD LOSE

A Large Part IF NOT ALL TOWN WATER - AS IT IS THIS IS AN UNUSUALLY LARGE YIELD FOR THE MISSISSIPPIAN IN STONY COUNTY. WES THORPE SAYS THAT THEY HAD INTENDED TO COMPLETE A GRAVEL PACK PERISTOLINE WELL, BUT AS NO SAND AND GRAVEL WERE FOUND WERE FORCED TO GO TO THE BOTTOM. SINCE LETTING THE ORIGINAL CONTRACT, A NEW TOWN COUNCIL HAS TAKEN OVER, AND WHO DO NOT SEEM TO BE FRIENDLY TO THORPE. APPARENTLY NO NEW SPECIFICATIONS OR CONTRACT WERE DRAWN UP FOR THE COMPLETION OF A ROCK WELL. I WILL RUN THE SAMPLES AND SEND A COPY OF THE LOG, BUT THINK IT BEST TO PROCEED WITH CAUTION OTHERWISE.

MR. Wesley THORPE

APRIL 12, 1966

THORPE Well Co.

2340 SIXTH AVE.

P.O. Box 1376

DES MOINES 13, IOWA

DEAR MR. THORPE:-

WE ARE ENCLOSED COPIES OF OUR GEOLOGIC LOGS OF THE MARION
CITY WELL, AND FOR THE GILBERT TOWN WELL. THE SAMPLES FOR THE LATTER WERE
JUST RECEIVED YESTERDAY.

PLEASE LET US KNOW IF WE CAN BE OF FURTHER SERVICE.

Y. V. T.

18113

G. WOLD W/S

AMES-15
Topo

Name Gilbert town No. 2

Loc SE SE SW sec. 4, T. 84N., R. 24W., Story County

Elev. SAME AS RR 994'

T.D. 142' (135' OLD)

Drilled Sept. 1965 Thorpe Well Co. 1915 BY DALE

Log W-18113

Casing 129' of 8" csg. set at 129' (6" csg to Rock, OLD)

Prod. data 90' SWL AIRLIFTING. OLD 4-8-70

SWL 75'

Pumpage 42,000 GPD new

RWL 118'

Yield 110 gpm - 1206 PPM

OLD WELL ON STANDBY

Aquifer: St. Louis

Water analysis Yes

Need Loc., elev., pumpage