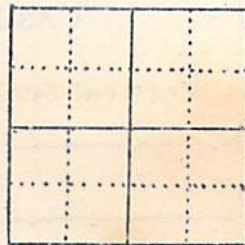


IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey
RECORD OF WELL

W 9254



Location:

Town: MOUNT VERNON (NE) (SW) : County LINN
NE sec. 9 T. 82 N., R. 5 W. Twp.

Well name and number _____

Owner MOUNT VERNON CITY WELL Address _____
(PILOT HOLE)

Tenant _____ Address _____

Contractor THORPE WELL CO. Address _____

Drillers Guy LEMAR ; BOB WALL

Drilling dates MAY 2-11, 1957 ^{0 to 145'} THEN DEEPEMED FROM 145' TO 405'

Well data:

Altitudes: Drilling curb _____ feet; Land surface _____ feet

Determined by _____

Topographic position _____

Total depth: Reported 405 feet, Measured _____ feet

Drilling method _____

Hole and casing data 115' OF 20" CASING

HOLE CAVED IN WHILE SETTING CASING. CASING BOTTOMED OUT AT 115'

FOR 0-145 - SEE W-8637

Original depth to water _____ 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 (SiO₂) _____
 Iron (Fe) _____
 Manganese (Mn) _____
 Calcium (Ca) _____
 Magnesium (Mg) _____
 Potassium (K) _____
 Sodium (Na) _____
 Carbonate (CO₃) _____
 Bicarbonate (HCO₃) _____
 Sulfate (SO₄) _____
 Chloride (Cl) _____
 Fluoride (F) _____
 Nitrate (NO₃) _____
 Dissolved solids _____
 Hardness (as CaCO₃) _____
 Total _____
 Grains per gallon _____
 Noncarbonate _____
 Alkalinity (as CaCO₃) _____
 pH _____
 Specific conductance _____
 (micromhos at 25°C) _____
 Temperature (°F) _____
 Analysis No. _____

Laboratory Data

Well No. **W 9254** Sample range **145-405** No. of samples **56** **NA4-8**
 No. of dupls. and cond. **56 Good** Washed range **all**
 Samples prepared by **V. Dow** Date **12/10/57**
 Logged by **NORTHUP** Date **12/20/57**
 Correlations by _____ Date **12/20/57**

THORPE WELL COMPANY

W 9254

2340 SIXTH AVENUE
DES MOINES, IOWA

Drilled for City of Mount Vernon at Mount Vernon, Iowa

Well is located _____ miles N-E-S-W and _____ miles N-E-S-W from (Linn County)

in the ¼ NE ¼ Section 9 Township R2-N Range 5-W

Drilling started May 2, 19 57 Completed May 11, 1957 19

Well No. _____ Kind of Well Pilot Hole Depth 145' Size hole started 50" in.

Finish 27" G. P. M. _____ Static Head _____ Pumping level from surface _____

Water was first encountered at _____ in _____ Approx. Amt. _____ Temp. _____

Remarks Hole caved in while setting casing. Casing bottomed out at 115'.

(GIVE DETAILS OF PERFORATED PIPE AND SEALS)

RECORD OF PERMANENT PIPE					TEMPORARY PIPE	
SIZE PIPE	AMOUNT OF PIPE	DEPTH TO BOTTOM OF PIPE	DEPTH TO TOP OF PIPE	MAKE OF PIPE	SIZE PIPE	AMOUNT
20"	115'	115'	0'	Steel casing		

Driller Guy Lemar From Surface to _____ feet

Driller Bob Wall From _____ feet to _____ feet

Driller _____ From _____ feet to _____ feet

AMOUNT IN FEET	KIND OF SOIL OR FORMATION (BE SPECIFIC)	TOTAL DEPTH FEET
1	Top soil	1
34	Yellow clay - sandy	35
5	Greenish gray clay	40
26	Yellowish gray clay with streaks of gravel	66
17	Med. fine to coarse sand, granules & bobbles	83
4	Yellow clay	87
23	Blue clay with sandy streaks	110
30	Brown clay	140
5	Sand, granules, boulders at 145	145

