

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


Location: NEW WELL FIELD  
AT RIVER  
NEAR HIGHWAY #89 BRIDGE (NE)  
 Town: MADRID (SW) : County BOONE  
NE NW sec. 34 T. 82N., R. 26 W. E. Twp.

Well name and number \_\_\_\_\_

Owner TOWN OF MADRID Address \_\_\_\_\_

Tenant TOWN WELL #7 Address \_\_\_\_\_  
(1958)

Contractor THORPE WELL CO. Address DES MOINES, IOWA

Drillers DON WRAM.

Drilling dates MAY 7-10, 1958

Well data:  
Altitudes: Drilling curb \_\_\_\_\_ feet; Land surface \_\_\_\_\_ feet

Determined by \_\_\_\_\_

Topographic position \_\_\_\_\_

Total depth: Reported 36 feet, Measured \_\_\_\_\_ feet

Drilling method ROTARY

Hole and casing data 54' 2" OF 16" CSG. FROM 18' ABOVE GROUND TO 31'  
5' OF 36" EVERDUR SCREEN SWEDGED TO 16" CASING

Original depth to water 9' above ft. below \_\_\_\_\_ Date \_\_\_\_\_

Source of data \_\_\_\_\_

Sources of water: Principal SAND-GRAVEL - DES MOINES RIVER BOTTOM

Others \_\_\_\_\_

**Production Data**

Date	_____	_____	_____
Static water level	<u>9'</u>	_____	_____
Measuring point	_____	_____	_____
Pumping water level	<u>23'</u>	_____	_____
Yield (g. p. m.)	<u>500</u>	_____	_____
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 <sub>2</sub> )	_____	_____	_____
Iron (Fe)	_____	_____	_____
Manganese (Mn)	_____	_____	_____
Calcium (Ca)	_____	_____	_____
Magnesium (Mg)	_____	_____	_____
Potassium (K)	_____	_____	_____
Sodium (Na)	_____	_____	_____
Carbonate (CO <sub>3</sub> )	_____	_____	_____
Bicarbonate (HCO <sub>3</sub> )	_____	_____	_____
Sulfate (SO <sub>4</sub> )	_____	_____	_____
Chloride (Cl)	_____	_____	_____
Fluoride (F)	_____	_____	_____
Nitrate (NO <sub>3</sub> )	_____	_____	_____
Dissolved solids	_____	_____	_____
Hardness (as CaCO <sub>3</sub> )	_____	_____	_____
Total	_____	_____	_____
Grains per gallon	_____	_____	_____
Noncarbonate	_____	_____	_____
Alkalinity (as CaCO <sub>3</sub> )	_____	_____	_____
pH	_____	_____	_____
Specific conductance (micromhos at 25°C)	_____	_____	_____
Temperature (°F)	_____	_____	_____
Analysis No.	_____	_____	_____

**Laboratory Data**

Well No. <u>W-981</u>	Sample range <u>0-34</u>	No. of samples <u>8</u>
No. of dupls. and cond. <u>8 Good</u>	Washed range <u>none</u>	
Samples prepared by <u>O Thomas</u>	Date <u>6/20/58</u>	
Logged by <u>NORTHUP</u>	Date <u>8/20/60</u>	
Correlations by <u>"</u>	Date _____	



# PUMP TEST RECORD

2 file

THORPE WELL COMPANY, 2340 SIXTH AVENUE, DES MOINES, IOWA

For Madrid Water Works Located at Madrid, Iowa

Make, Kind and Size of Power M & M - 6 WELL #7

Make of Pump Head Used Fairbanks-Morse Number \_\_\_\_\_

Number and Size of Bowls Used 6" 3-stage bowls

Setting of Pump Bowls 23'-6" Size and Depth of Well 36" screen 36' deep

Static Head Before Pumping 9' After Pumping \_\_\_\_\_  
(Tape Measurements)

Temperature of Water \_\_\_\_\_  
(Before Testing) (At End of Test After \_\_\_\_\_ Hours)

DATE	TIME	ENGINE R.P.M.	PUMP R.P.M.	PUMPING HEAD	GALLONS PER MIN.	RECOVERY		MINUTES
						FROM	TO	
<b>1958</b>								
May 15	5.0	1300	1300	20'-3"	500	Cloudy		
	5.5	1300	1300	20'-3"	500	"		
	6.0	1300	1300	20'-3"	500	"		
	6.5	1300	1300	21'-3"	500	"		
	7.0	1300	1300	21'-3"	500	"		
	7.5	1300	1300	21'-3"	500	"		
	8.0	1300	1300	21'-3"	500	"		
	8.5	1300	1300	21'-3"	500	"		
	9.0	1300	1300	21'-3"	500	"		
	9.5	1300	1300	21'-3"	500	"		
	10.0	1300	1300	21'-8"	500	"		
	10.5	1300	1300	22'-3"	500	"		
	11.5	1300	1300	22'-4"	500	"		
	12.0	1300	1300	22'-4"	500	Clear		
	12.5	1300	1300	22'-4"	500	"		
	1.0	1300	1300	22'-4"	500	"		
	1.5	1300	1300	22'-4"	500	"		
	2.0	1350	1350	22'-8"	500	"		
	2.5	1350	1350	22'-8"	500	"		
	3.0	1350	1350	22'-11"	500	"		



JUN - 7 1958

# HOWARD R. GREEN CO.

*Consulting Engineers*



WATER SUPPLY AND TREATMENT  
SEWERS AND SEWAGE DISPOSAL  
STRUCTURES, BRIDGES, BUILDINGS  
UTILITY VALUATIONS, RATES  
INVESTIGATIONS, REPORTS

213 BEVER BUILDING, CEDAR RAPIDS, IOWA

June 4, 1958

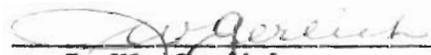
H. Garland Hershey, Director  
Iowa Geological Survey  
Geology Annex  
State University of Iowa  
Iowa City, Iowa

Dear Sir:

We are enclosing for your files a copy of the log and pumping test of Municipal Well #7 recently completed. Well #7 is located approximately 250' directly east of Well #6 and about 50' N. E. of test hole #13 <sup>at</sup> of the N. W. corner of the Highway No. 89 bridge. (Refer to the plat in your files for Well #6).

Yours very truly,

HOWARD R. GREEN CO.

  
\_\_\_\_\_  
J. W. Gerlich

JWG:rnh  
encls.