

IOWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

W 8284

RECORD OF WELL

Location:

Town: Iowa City (NE) (SW) : County Johnson

NWSE NW sec. 10 T. 79 N., R. 6 W. Twp.

Well name and number Burge Hall #1 S.U.I
NEAR NW CORNER BUILDING

Owner U. OF IOWA Address Iowa City

Tenant _____ Address _____

Contractor Hoeg & Ames Address _____

Drillers _____

Drilling dates APRIL 17 - JULY 9, 1957

Well data:

Altitudes: Drilling curb _____ feet; Land surface 710.7' feet

Determined by _____

Topographic position _____

Total depth: Reported 425' 10" feet, Measured _____ feet

Drilling method CABLE TOOLS

Hole and casing data 210' OF 12" CASING 0-210'

50' 9" 0 1/2" CASING 0-50' 9"

ACIDIZED WITH 1000 GALLONS HCL

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 8284** Sample range 16-425'10" No. of samples 81 *EM 6-10, 7-1*
 No. of dupls. and cond. 81 Good Washed range 45-425'10"
 Samples prepared by V. Dow Date 7/10/57
 Logged by NORTHUP Date MAY-JULY 1957
 Correlations by _____ Date _____

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

W-8284

 File No. { Washington _____
 District _____

 Sheet 2
 Buige Hall #1
 Observation Well
 Aug 23 - 57

 Steele
 Houston

	Water	cut																		
8:08	119.00	12.93	106.07	Steel tape																
8:12	110.00	-3.3	106.70	E. line																
8:14	110.00	-3.3	106.70																	
8:16	110.00	-3.3	106.70																	
8:18	110.00	-3.28	106.72																	
8:20	110.00	-3.4	106.60																	
8:22	110.00	-3.28	106.72	Depth																
START 8:24	110.00	110	-3.13	106.87																
	2	110	-2.75	107.25																
	3		-2.57	107.43																
	4		-2.44	107.56																
	5		-2.27	107.73																
	6		-2.16	107.84																
	7		-2.06	107.94																
	8		-1.88	108.12																Decreased pump speed ✓
	9		-1.64	108.36																
	10		-1.52	108.49																reading maybe in error
	12		-1.52	108.48																
	14		-1.44	108.56																
	16		-1.31	108.69																
	18		-1.20	108.80																
	20		-1.11	108.89																
	25		-0.83	109.17																
	30		-0.52	109.48																
	40		-0.11	109.89																
	50	110	+0.25	110.25																
	60	113	-3.11	109.89																
	75	110	+0.93	110.93																
	90		+1.39	111.39																
	105	115	-3.90	111.10																
	120	115	-2.3	112.37																
	135		-1.85	113.15																

 Increased pumping rate
 steel tape
 "

Increased pumping rate.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

File No. { Washington 11580
District 10.06
104.94
109.00

132.00
7.87
124.13
123.79

This was static level
Well #1 Aug 22 before
Well #2 was pumped
13.00
8.12
121.88

8-22-57									
1:25	109.00	4.02	104.98						Remarks
3:51	105.00	1.15	106.15						Start Test
0	110	3.20							
2	110	2.90							
3	110	2.70							
4	110	2.45							
5	110	2.20							
6	110	2.00							
7									
8	110	1.43							
9									
10	110	0.93							
12	110	0.55							
14									
16									
18									
20									
25									
30									
40									
50									
60									

This data from Jay
pump test on
Charge Hall No. 2.