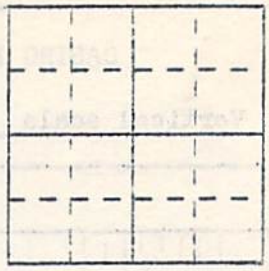
W 5123

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

RECORD OF WELL



Location:

Town: Walker (N E) (S W):County Linn

NW NE SW SE sec. 4 T86 N., R. 8 ~~E.~~ W. Grant Twp.

Well name and number Town of Walker #2

Owner ↗ Address

Tenant Address

Contractor Howard White Address Waterloo

Drillers ↑

Drilling dates Sept 25, 1951 - Oct 26, 1951

Well data:

Elevations: Drilling curb 906.5 feet; Land surface 906 feet

Determined by GCH

Topographic position Upland

Total depth: Reported 350 feet, Measured feet

Drilling method Cable

Hole and casing data 12" From +6" to 14½'; 8" From +6" - 42'6"
Cement Grout to be placed between these two. 6" From
37' - 165' Perf. 43 - 67 & 107' - 127'.

Original depth to water 36½ ft. ~~above~~ below 45 Date Oct 24, 1951

Original elevation of water level ft.; Source of data

Sources of water: Principal Silurian 165-350; Others Devonian 41-75
and 95-145

Production data: Date _____

Static depth to water 36½ Measuring point L S

Pumping level 46 at 40 g.p.m.

Specific capacity _____ g.p.m. per ft. drawdown; Temperature _____ °F.

Pump data: Type pump _____ Column Dia. _____ Length _____

Cylinder or bowls: Dia. _____ Length _____ Suction pipe _____

Power _____ Airline _____

Estimated rate of production: _____ g.p.m. for _____ hrs. a day

Use of water _____

WATER ANALYSES (in parts per million)

Date samples				
Sampled by				
Total solids				
Insoluble matter				
Alkalinity (Meo)				
Alkalinity (Phn)				
pH				
$Fe_2O_3 + Mn_2O_3 + Al_2O_3$				
Alkali as sodium				
Calcium				
Magnesium				
Iron (unfiltered)				
Manganese				
Nitrate				
Fluoride				
Chloride				
Sulfate				
Bicarbonate				
Hardness (ppm)				
Hardness (gpg)				

Remarks _____

Laboratory data: Sample storage location CK 1-2

Sample range 0-350 No. spls. 62 No. dupls. & cond. 62-G

Spls. prepared by MORTEN Washed range 40-350 by MORTEN 10/29/51

Driller's log and cond. _____

Insoluble residues: Prepared by _____ Studied by _____ Strip log _____

Microscopic study SCH strip log SCH

Gen. log _____ Correl. by SCH

IOWA GEOLOGICAL SURVEY
Iowa City, Iowa

Well Log Record

Well name and number Walker #2 Town Walker County Linn

Owner of well Town of Walker Address

Tenant Address

Location NW NE SW SE sec. 4, T. 86 N., R. 8 E. W. Grant Twp.

Curb elevation 906.5 ft. Present depth 350 ft. final depth 350 ft.

Static level: (Depth to water ~~above~~ below curb) 37 ft. Pumping level 96 ft. at 40 g.m.

Contractor Howard White Date drilled 9-25-57 to 10-21-57

Description*	FEET Thick	From	To	Description*	FEET Thick	From	To
Yellow Sand	20	0	20				
Gray Drift	21	20	41				
Lime	34	41	75				
Shale & Lime	20	75	95				
Lime	50	95	145				
Shale	10	145	155				
Lime	195	155	350				

*Abbreviate descriptions: use one line for each formation

Remarks on water zones and casings 12" to 15'; 8" to 43'; 6" to 165'
Perf 43 - 67; 107 - 127

Temperature: Air 50 °F., Water 51 °F. at ~~P.M.~~ A.M. 9:25 Oct 25 19 57

Record obtained from H. White & Obs. Recorded by G. C. Huntington

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DEPARTMENT OF THE INTERIOR
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Pumping Test Walker-Ia

Time	W/L	GPM	Temp									
					Oct 24, 1951						Page 1	
8:15	36.8									SWL	Elec. Line	
8:20	36.77									SWL	Tape	
8:24					Pump On							
8:24:45	40.29											
25.45	41.11											
26.30	41.44											
27:30	41.50	64										
28:15	42.98											
30:45	41.79											
31:45	42.28											
32:30	42.32											
33:00	42.51											
34:15	42.93											
35:15	43.04											
37:30	43.40											
40:00	43.44											
42:00	43.22				Pump slowed							
45:30	44.28				Resume Speed							
47					Pump off							
48					Pump on							
48:30	44.15											
49					Pump off.							
53	42.84*				Pump on.							
56	44.41		57°									
9:00:00	44.88	64										
9:03	45.21											
06	45.42	64	57°									
09	45.79											
14	46.09											
21	46.27						Air Temp 49°					
31	46.86											

Discharge Thru 2" of 4" pipe

Suction pump 4" pipe with Flapper Valve in Bottom and 3/4" suction rod. Set at 92' below Land Surface

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Time	W/L	GPM	Temp									
78	47.59	6.4										
51	47.46	64	51°									
10:00						Pump off						
01	46.25											
04	44.61											
10:05						Pump On						
06	45.57											
08	46.60											
12	45.88	414										
20						Pump OFF						
26	43.29											
28	43.08											
29						Pump On						
29:20	44.32											
31	44.53											
32	44.72											
36	44.91	40										
44	45.18		51°			Air Temp 46°						
49	45.25											
55	45.39											
11:16	45.65		51									
:32	45.76											
48	45.85											
50						Pump OFF						
57	44.54											
52						Pump On						
53	45.07											
55	45.44											
1207	45.92											
42	46.21											
57	46.38											

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Time	W/L	GPM	Temp									
1:17	46.41											
38	46.58	40	51									
50	46.62											
2:05	46.71											
25	46.82	40										
40	46.91											
3:00	46.93											
20	47.05		51									
40	47.08											
4:04	47.09											
12		40										
39	47.09											
					Oct. 25, 1951							
1:45	46.91	40	51									
2:23	46.89											
7:17	46.81											
8:30	47.12	40	51									
49	47.17											
8:54					Pump	OFF						
8:54½	46.93											
55	46.34											
56	46.16											
57	45.97											
58:30	45.78											
9:11:m	45.59											
01	45.47											
03	45.29											
05	45.12											
07	45.00											

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File No. { Washington .....
District .....

Time	W/L											
09	44.84											
11	44.73											
13	44.64											
15	44.55											
17	44.47											
21	44.34											
25	44.15											
29	44.01											
33	43.87											
37	43.74											
42	43.63											
46	43.52											
50	43.41											
10:00	43.17											
10	42.98											
20	42.81											
31	42.62											
40	42.54											
50	42.46											
11:00	42:38											
:10	42:32											
:30	42:20											
:50	42:11											
12:10	42.03											
30	41.97											
50	41.90											
53	41.80		Steel Tape									

44
2.20
41.80

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