IOWA GEOLOGICAL SURVEY In Cooperation with U. S. Geological Survey
RECORD OF WELL
Location: Town: <u>Edgeweed</u> (N E) S W); County <u>Clayton</u>
SW-SE-SW SOC. 25 T. 7/ N. , R. SW. Lodomilie Twp+
Well name and number <u>Edgewood Town Well</u>
Owner <u>City of Edgewood</u> Address
Tenant Address
Contractor <u>C.w. Varner</u> Address <u>Dubuque</u>
Drilling dates 4/12/34 - 10/12/35 Deepened from 128
Well data: Elevations: Drilling curb <u>1165.6</u> feet; Land surface <u>feet</u>
Determined by <u>D.A.BEWEH</u> . Topographic position
Total depth: Reported 1080 feet, Measured feet
Drilling method
Hole and casing data <u>128'of 8" are no 0-128</u> . <u>See of 6"caune 128'-436'</u> (Give amount, size, kind, and depth of all casing; type and position of seals and packers; cementing; how finishedperforated pipe, screen,
gravel pack, open hole, etc.)
Omining Land Land Bove
Original elevation of water levelft. Source of data
Sources of water: Principal above St. Peter ; Others

Production data:	Date Measuring point				
Static depth to water 76					
Pumping level	_ at 80		g.p.m. for	45 min.	
	-				
and the second					
A start of the second second second		1.10			
Specific capacityg.p.m. pe	r ft. drawdown	n; Tempera	iture.	°F.	
Pump data; Type pump Col	umn Dia.	and the second	_ Length		
Cylinder or bowls: Dia Len	igth	Suct:	Lon pipe		
Power	Airline				
Estimated rate of production:		g.p.m. fo	or	hrs. a da	
Use of water					
WATER ANALYSES (1	in parts per m	illion)			
Date sampled					
Sampled by					
Total solids					
Insoluble matter		a			
Alkalinity (Meo)					
Alkalinity (Phn)		100000			
PH					
$Fe_2O_3 + Mn_2O_3 + Al_2O_3$	general distance			an a	
Calcium					
Namesium					
Tron (unfiltared)				and and a second states	
	and the second sec		·····		
Manganese					
Sullate		-			
Hardness (ppm)					
Hardness (gog)					
Remarks			14.112		
Tabanatana data.		-			
Sample range / Soi- //Soi No so	Sampi	e storage	duple & cor	d 190 0-1	
Spla, prepared by Washed	range	NO.	hr	iu. 117 1-6	
Driller's log and cond.	. ungo				
Insoluble residues: Prepared by	Studied	by	Strip 10	g	
Microscopic study Luf & Clins	_ strip log_	luff			
Gen. log 10 .	Correl. by	they.			

C. W. VARNER

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W-0161

Edgerood - Chayton Co-City Well

Date Started 6-22-34 Completed 10-12-35 Note: Work suspended from 11-17-34 to 6-1-35 6-16-35 to 10-7-35

Curb Eleco 1182 Curb Elev = 1165 Her

Depth - 1080' Diameter - Drilled deeper, 8" from 128' to 436'; 6" to 1080' Casing - 432' of 6"

STRATA RECORD

Depon			
From	То	Thickness	Description of Beds
Top	140	140	No record
140	230	90	Lime, gray
230	255	225	Lime, brown
255	262	. 7	No record .
262	365	103	Shale, Maquoketa
365	470	105	Lime
470 .	683	213	Lime, brown
683	780	97	Blue lime and clay
780	833	53	Sandstone
833	852	19	Blue clay
852	965	113	Lime, flinty
965	997	32	Lime, soft
997	1128	131	Lime ·
1128	1139	11	Sand

Total depth of well 1139' less 59' of tools in well -- 1080'.

Note: 165' of 6" liner. Top is 271' from surface. 147' of 6" pipe with 6 x 8 packer on bottom, top of pipe extends to surface. Well furnished 80 gals. for 45 min. Drawdown to 12' of bottom of pump. Static Level 76' C. W. VARNER C 0 P Y . Date 11-24-34 North well was 8" in diameter and 128' deep. Well was dry and pump was not pumping any water. Well was drilled 8" in diameter from 128' to 261' and 6" test pump placed. Test No. 1 -- 18 hrs. 6-30-34 Static Head - 75' 86' of pump in water Drawdown to bottom of pump. Rate of pumping -- 55 gal. in 1 minute, 50 seconds. South well would pump air when test pump was running, showing that both wells were connected at 261'. We placed air line in south well and found that drawdown was 200' when pumping 28 G.P.M. Test No. 2 -- 11 hrs. 7-18-34 Static Head - 85' 180' of pump in well Drawdown to bottom of pump Rate of pumping - 40 G.P.M. Depth of well - 750' - Into Platter #4 7-28-34 Test No. 3 -- 9 hrs. Static Head - 80' 176' of pump in well Pump operated at 46 G.P.M. Air gauge at start was 42 lbs. Drawdown to bottom of pump Rate of pumping - 60 'gal. in 1 minute & ? seconds. Depth of well - 880' and a cherry Test No. 4 Static Head - 90' 240' of pump in well Drawdown to bottom of pump Rate of pumping - 48 G.P.M. Depth of well - 1139', 12" in Jordan Sandstone

- 4. 2			
· Fato	ewood Town Well	W-0161	
	EL MAR		
Carr	Di di di Descriptioni		
Va	Rock Unit Description	Thick	HACH TO
	SILURIAN		
/	Detroute note to the health & to to to nave warite up to 50%	20	120 - 140
	chert, white opeque, little gray transferent		101-120
2	Dolemise, H. Butt, v. fn. to far, none pyrite, little chert	53	140 -150
5	Dolomite, H. but to 11. gray, fin to med, slightly parous	20	195-215
	Dolonite, 12, 9000, 11 the butt, Por to meet, 5% chest, while and parte ; and butt, opaque, some transfurent	ermy 15	215-230
5	Deterrite, H. gray, vite to An, 10% chest	10	230-240
	ORDIVICIAN		
	Maquoketa formation [925]		
	Brainard Datamite, shightly shake, 1t. aroug, little med, grow, to	10	240 -250
-	Shale, delemitic, the greenish gray, En alk bream spots	20	250-270
	Shale, dolomitic, It alive grag with some the greenish grag	45	210-225
2	Shale, dolomitic, H. gray, little H. olive grag	20	220-300
,	Shale, Hi offer green, Spittle Hacture Shale do low the Sharan 11the H. offer arau	25-	340-365
-	Fort Atkinson		
-	Delomite, mod. dreak, An to med, up to 20% chert at the Hi dimit	, geoque 26	386-391
3	Shak, v. dete mitic, 11. gray, some slightly greenish	34	391-425
4	Dolomite, sharly, med, drab, for to med, granular	5	425-430
5-	Shale, n delemitic, H. gray and He cline gray	21	15-15
6	Calena formation [7031]		
	Dustance Stewartvilla		-
17	Limestone, dolomitic, H. drab some parte gray, much cinnomen	specking,19	156-175
18	wed, rare coarse, toss - crimits, estrucates.	und 85	475-560
	Coarse the dead to but dole. Hembs, some to entirely replace	1 by date.	
19	Prosser- Ich Line dance delande, the same in estore continuing but contar	aina about h	20 560-680
	Stiffereneut, getting as high as 25%; little Brown shale part	lings at have	
20	Linestere, slightly determitie, parte to the drawish gray with bla. specks, flourg to most, in fors, rare provik	de hesse	30 630-710
	Guttenberg		
21	Limestone, par but and deals to med about brown, connarion Alary, black forsits	speckled 14	2 710-722
	Spechts Ferry		
22	Shale, H. grayish green and H. gray, black fessils-mestly b	lege coons ?	722-727
	McGreger .		
23	Limestone, dolomitic, pale to the gray, some drabish, floury occusional black free, frequents	10 11.4h., 3	6 727-763
	Accertanica		
24	Delomit, sale gray to meet diret, the to meet sach, full of the	tack grains .	12 763-775
25	Chennecel Shale, H. greigish green, pearly lanina ted		5 775-780
	St. Acter formation Free'7		
26	Sand, sub-ana to cumilinear work control events dist	0 0 1	ot
	course, Arested, 11the secondary growth, 15% comented by p	grise	780-785
27	Sand, maj.gr. 16-1 prin. sub. 19-12	15	- 785- 800
28	Sand, maj, gr. 14-12, prin. sub. 12-1, 18-14	5	300-305
29	Sand, ang. to curvilinear, may gr. 15-14, prin. sab. 14-15, little in	n cride 10	805-815

30 31 32	Sand, ang. to curvilinear, maj.gr. 15-4, prin. sub. 16-18, 11the iron or Sand, ang. to curvilinear, An. to med, 11the iron oxide Sand, ang. to curvilinear, maj.gr. 16-14, prin. sub. 16-16, 14-12	rele, 5 5 12	815-820 220 -825 825- 837 87.
33	Delomite, 1. parte butt, r. to. med. compact to sach.	3 10	337- 840
34	Delomite, v. parte butt, r. to.		840 - 250