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

W-0553

RECORD OF WELL

Location:

Town: Iowa City (N E S W); County Johnson

NW¼ NW¼ SE¼ sec. 32 T. 79 N., R. 6 W. Twp.

Well name and number Wm. Rowland farm

Owner _____ Address _____

Tenant _____ Address _____

Contractor Edwards Address West Branch

Drillers Joe Kintz

Drilling dates Nov. 5 1935 Nov. 18, 1935

Well data:

Elevations: Drilling curb 746 feet; Land surface _____ feet

Determined by _____

Topographic position _____

Total depth: Reported 475 feet, Measured _____ feet

Drilling method cable

Hole and casing data 226' of 5 3/16" casing, 561' of 4½" casing
(Give amount, size, kind, and depth of all casing; type and position of seals and packers; cementing; how finished--perforated pipe, screen, gravel pack, open hole, etc.)

Original depth to water _____ ft. above below _____ Date _____

Original elevation of water level _____ ft.; Source of data _____

Sources of water: Principal 445-455; Others _____

Production data: Date _____

Static depth to water 110 Measuring point _____

Pumping level _____ at 10 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 sampled				
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 _____

Sample range 0-468 No. spls. _____ No. dupls. & cond. _____

Spls. prepared by _____ Washed range _____ by Gulf

Driller's log and cond. _____

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

Microscopic study 0-468 strip log July 16, 1945

Gen. log _____ Correl. by R.J. Baldwin

Sheet No. 1 Name of Well Rowland - Iowa City Survey No. W0353

Location ..... Date Drilled ..... Analyst DGR

00

Till - sandy
unoxid & unleach.

Same

10

Till sandy to silty
unox. & unleach.

Same

20

Till - sandy to silty
unox & unleach.

Till - sandy to gravelly
ox & unleach.

30

Same

Same

40

Till - gravelly
ox & unleach (partially) coal-fragments - why?

Till - gravelly
ox & leach

50

Till - sandy to gravelly
ox & unleach.

Same

60

Till - sandy
ox & unleach.

Till - sandy to gravelly
ox & unleach.

70

Same

Same

80

Till - sandy.
ox & partially leach.

Till - sandy to gravelly
ox & leach.

90

Same

Till - sandy to grav.
unox & unleach.

100

Sheet No. 2 Name of Well Rowland - Ia. City Survey No. W 0353

Location Date Drilled Analyst BJB

Depth	Description
100	Till - silty to sandy unox & unleach.
	Till - sandy unox & unleach
10	same
	same
20	Till - sandy to grav. unoxid & unleach.
	Same - only oxid.
30	Till - silty to sandy unoxid & unleach.
	Same
40	Till - sandy to grav. oxid & unleach.
	Till - sandy to grav. unox & unleach.
50	same
	same
60	same
	Till - gravelly ox & leach.
70	Till - silty to grav. unox & leach.
	Till - silty to grav. unox & unleach.
80	Till - sandy unoxid - unleach.
	same
90 N.S.	
	Till - sandy to grav. unox. & unleach.
200	

Sheet No. 5 Name of Well Rowland — Ia. City Survey No. W0353

Location Date Drilled Analyst DGB

Depth	Column	Description
200		Till - sandy to grav. unox & unleach.
		Till - sandy unox & unleach
10		Till - sandy to grav. unox & unleach.
		same
20		same
		same
30		same
		Till - sandy unox & unleach.
40	N.S.	
		Till - sandy unox & unleach.
50		Till - sandy to grav. unox & unleach.
		same
60		same
		same
70		same
		same
80		same
		same
90		same
	N.S.	
300		

Sheet No. 4 Name of Well Rowland-Ia. City Survey No. W0353

Location Date Drilled Analyst DJB

Depth	Description	Remarks
300	Ls-crm to wh-lithog. (→ bff) cht-bff-trace	sand-cave
	Ls-crm to wh-lt gry-lithog.-95% sh-med gry-poorly lam. to lam.-5%	pyrite sand-cave
10	Ls-same (Dolo-med brn-xtals imb. in ls) ~~cht-pink-trace~~	pyrite sand-cave
	Ls-wh to bff-soft-25% Ls-with dolo xtals imb-med brn-75%	Sand cave
20	Ls-wh & gry mottled-bff to tan-dolo xtals imb.- cht-dk brn-trace	quartz xtals Sand-cave
	Ls-wh & gry mottled-gyp imb-dolo. imb.-85% cht-med brn to bff-.5%	sand-10%-med-C to r.
30	ls-bff to gry-granular-90% cht-same-trace	Sand-same
	Ls-lt to med gry-gyp. imb.-95% cht-same-trace	sand-5%
40	Ls-same	saud-5%
	Ls-gry-gran. to wh-lithog. ~~cht-bff-5%~~ Gyp.-med grey-5%	Saud 5%
50	Ls-same Bryozoa Gyp. trace	Sand-same quartz-xtals
	Ls-med to lt. grey-granular- Gyp-trace	pyrite quartz xtals saud-trace
60	same	
	Ls-lt to med grey-gyp imb-50% Dolo-lt. to med brn-argill-fnly xln-50%	Saud-5%
70	Ls-lt. to med. gry-vfnly xln.	pyrite quartz xtals
	Ls-lt to med gry-blk spks- Gr. gyp-5%	calcite xtals pyrite
80	Ls-lt gry to tan-fnly xln-some wh & soft. Gr. gyp-5%-	
	Ls-same Gr. gyp-same	
90	Ls-gry & blk mottled-lt. to med brn-fnly to crsely xln. Gr. gyp-same	
	Ls-same- wh-gyp-5%	
400		

Sheet No. 5 Name of Well Rowland - Ia. City Survey No. W0353

Location Date Drilled Analyst DJB.

Depth	Description	Remarks
400	Ls - lt. to med gry - mottled. - 70% Dolo - med brn - fnly xln - argill. - 30%	
	Ls - med gry to tan - fnly xln. Gry Gyp - trace	
10	Ls - same - 95% Dolo - tan - argill - 5%	
	Ls - crm to bff - v. fnly xln -	calcite xtals
20	same	pyrite calcite xtals
	Same	
30	same	
	Dolo - lt. to med brn - fnly xln - v. argill - 90% Ls - same - 10%	
40	Dolo - same Ls - same Cht - trace	
	Dolo - same - 95% Ls - same - 5%	
50	Dolo - same - 95% Cht - lt grey to wh - 5%	
	Dolo - lt grey to brn - fnly xln - argill Cht - same - 5%	
60	Dolo - same - to crm. fnly xln	
	Ls - lt to med gry - 50% Sand - 50%	pyrite
68		
70	T.D. 475'	
80		
90		
500		

Sheet No. .... Name of Well Rowland, Ia. City .... Survey No. ....

Location 2nd washing — .... Date Drilled .... Analyst [illegible] ....

Depth	Description	Accessories
3.00	Sh-40%-lt gry-soft-calc, Ls-lt to med. gry-to bff-lithog.-some blk-60% Sd-C to a-med-calc.	
	Sh-40% Ls-lt gry to bff-lithog. to fnly xln.	calcite xtals, sand cave, pyrite
10	Sh-70% Ls-lt gry-fnly xln Ls-with dolo xtals imb.	pyrite
	Sh-75% Ls-lt gry-dolo xtals imb	calcite xtals, pyrite
20	Sh-75% Ls-lt to med gry-crm-fnly xln. Cht-pink-trace	pyrite, crinoid stems (calc.), calcite
	Sh-70% Ls-lt to med. gry-fnly xln	calcite xtals, Sand-cave
30	Sh-75% Same ls.	sand-cave, calcite
	Sh-75% ls-same-dk gry mottled. cht-tr.-orange brn.-to crm.	calcite, sand-cave
40	Sh-70% Ls-wh-med gry-dk gry-fnly xln Cht-same-trace	pyrite, calcite
	Sh-80% Ls-lt to med gry-fnly xln	pyrite, calcite
50	Sh-70% Ls-same-dk gry strks.	Bryozoa-blk, Crinoid-blk, other blk fos. frags.
	Sh-60% Ls-med gry-v. fnly xln.	Bryozoa-blk
60	Sh-80% Ls-same to argill. cht-trace-brn.	pyrite, calcite
	Sh-75% Ls-med gry-fnly xln-10% Dolo-tan-v. argill-15%	Blk fos. frags, calcite
70	Sh-80% Ls-med to lt. gry-fnly xln.	pyrite
	Sh-75% Ls-same	calcite, blk fos frags.
80	Sh-80% Ls-same Cht-trace	blk fos frags, calcite
	Sh-75% Ls-lt to med gry-blk	calcite, fossil frags-gry to blk
90	Sh-75% Ls-lt to med gry-dk gry-tan-fnly xln	blk fos. frags-
	Sh-75% Ls-lt to med to bff & tan gry-argill	pyrite, calcite
00		

Sheet No. .... Name of Well Rowland Oa City .... Survey No. ....

Location 2nd washing .... Date Drilled .... Analyst DB

Depth	Description	Remarks
00	Sh - 70% Ls - lt to med gry - fnly xln - 20% Dolo - med brn - fnly xln - argill - 10%	fossil frags. calcite
	Sh - 70% Ls - lt to med gry - brn - fnly xln.	pyrite
10	Sh - 80% Ls - same	
	Sh - 75% Ls. - buff - tan - fnly xln	
20	Sh - 90% Ls - same	calcite
	Sh - 90% Ls - same	calcite
30	Sh - 90% Ls - same	calcite
	Sh - 90% Ls - lt gry - trace Dolo - lt to med brn - argill. - fnly xln - 10%	
40	Sh - 90% Dolo - same - 10%	
	Sh - 85% Dolo - same - 10%	calcite
50	Sh - 80% Dolo - same -	
	Sh - 85% Dolo - brn to lt gry. - argill - fnly xln. 15%	
60	Sh - 80% Dolo - same	
	Sh - 90% Dolo - lt to med gry - 5% Sand - fn to med - 5%	
68		
70		
80		
90		
00		