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

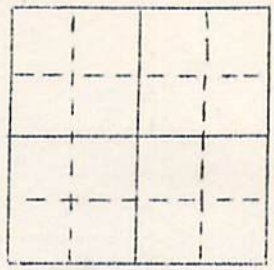
W-0296

RECORD OF WELL

Location:

Town: West Branch (N E / S W); County Cedar

NW NE SW? sec. 5? T. 79 N., R. 4 E. W. Twp.



Well name and number City Well No 1

Owner Town of West Branch Address

Tenant Address

Contractor D E Edwards Address West Branch

Drillers

Drilling dates April 5-15, 1934

Well data:

Elevations: Drilling curb feet; Land surface 771 feet

Determined by Alt-RS

Topographic position

Total depth: Reported 207 * feet, Measured feet

Plugged back at 102'

Drilling method cable

Hole and casing data 64' of 8", 22' of 6"
(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

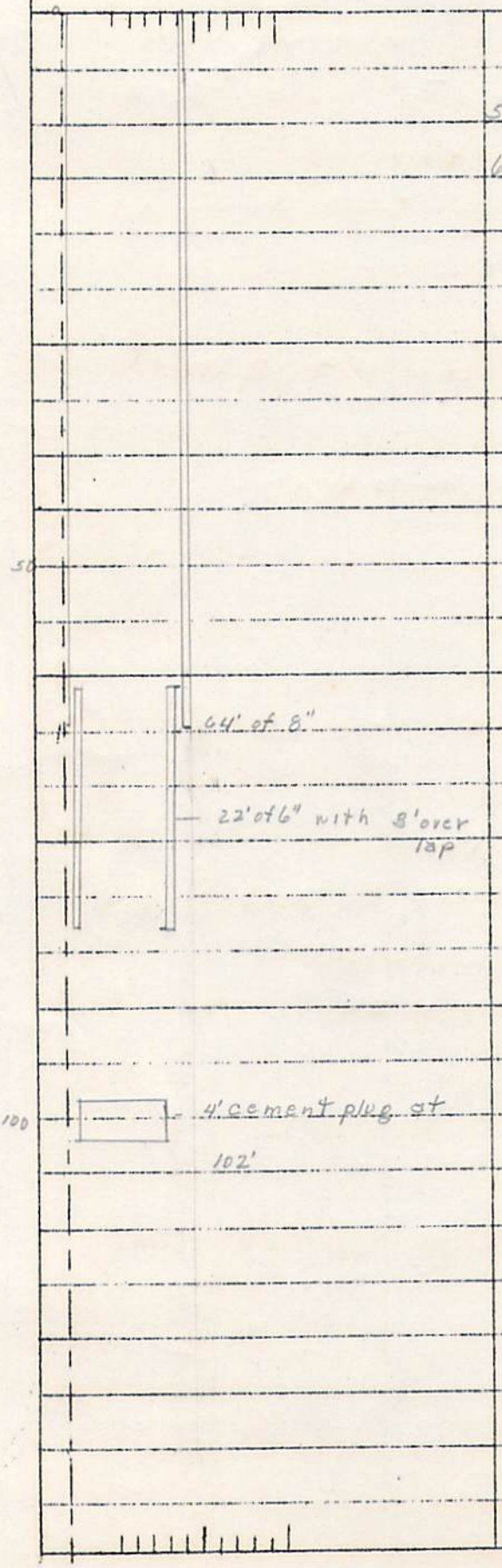
Original elevation of water level ft.; Source of data

Sources of water: Principal 90-100; Others

CASING DIAGRAM

Vertical scale _____

LOG



0-58 Drift

58-68- Rock, broken & Shaley

68-207 Rock

Production data: Date _____

Static depth to water 9 Measuring point _____

Pumping level 23 at 150 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 51-207 No. spls. 55 No. dupls. & cond. 44 Fair

Spls. prepared by _____ Washed range _____ by _____

Driller's log and cond. _____ aug 13, 1949

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

Microscopic study _____ strip log _____

Gen. log _____ Correl. by _____

MODERN EQUIPMENT

L. F. WINSLOW

Well Drilling

WELLS FOR EVERY PURPOSE -- 5 TO 30 INCH

PHONE, DAV. 391-5740

P. O., WALCOTT, IOWA, R. R. 1 52773

West Branch Well Test
(Well-Old)

This is the water levels in Well No. 1 while pumping Well no. 1 and Well No. 2.

Before starting test - static level was 116-5

Date	Time	Pumping Level	Remarks
May 21, 1968	3:20	127.10	
	4:25	136.10	
	5:20	137.6	
	6:33	137.11	
	8:10	138.85	
	9:05	144.4	
	9:50	143.6	
	11:20	134.6	Well cut to 250G.P.M.
	2:12	133.5	
	5:30	133.0	P.H. 7.35
	6:00	132.11	Iron 2.2
	5:20	137.1	Wells approximately 325 feet apart.

L. F. WINSLOW

Well Drilling

P.O., WALCOTT, IOWA, R.R. 1 52773
RES., MAYSVILLE, IOWA

For WEST BRANCH, IOWA Located at WEST BRANCH, IOWA

Make, Kind and Size of Power _____

Bowl No. 1 Size 8 Stages _____

Column Setting 155 ft. Size 5 IN. Shaft size 1 IN. and _____

Static Level Before Pumping 94 FT. 10 IN. After Pumping _____ Temperature _____

Date	Time	Engine R.P.M.	Pump R.P.M.	Pumping Level	Gallons Per. Min.	Temp. Discharge Description	Sand P.P.M. Volume
May 21, 1968	2:15		22	103'	574	Static	
	2:30		24'5"	111'10"	602-	cloudy	
	2:45		24.5	116'2"	602-	cloudy	
	3:00		24.5	118'7"	602-	cloudy	
	3:15		24.5	119'2"	602-	Cloudy	
	3:30		24.5	119'8"	602-		
	3:45		24.5	119'8½"	602-		
	4:00		24.5	119'10½"	602+		
	4:15		24.5	120'1"	602+		
	4:31		24.5	120.5½"	602+		
	4:45		24.5	120.6½"	602+		
	5:00		24.5	120:8"	602+		
	5:15		24.5	120'9"	602		
	5:30		23.5	121'	590+		
	5:45		23.5	121'2"	590+		
	6:00		23.5	121'4"	590+		
	6:19		23.5	121'6½"	590+		
	6:30		24.	121'9"	596		
	6:45		23.3/4	121'11"	590+		
	7:00		23.3/4	122'	590+		
	7:15		23.3/4	122'4"	590+		

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Well Drilling

P.O.. WALCOTT, IOWA, R. R. 1 52773
RES.. MAYSVILLE, IOWA

For WEST BRANCH, IOWA Located at _____

Make, Kind and Size of Power _____

Bowl No. _____ Size _____ Stages _____

Column Setting 155 ft. Size 5IN. Shaft size 1IN. and _____

Static Level Before Pumping 94 FT. 10 IN. After Pumping _____ Temperature _____

Date	Time	Engine R.P.M.	Pump R.P.M.	Pumping Level	Gallons Per. Min.	Temp. Discharge Description	Sand P.P.M. Volume
May 21	7:30		24.	123'	602		
	7:45		24.	123'	602		
	8:00		24.	123'½"	602		
	8:15		24.	123'6"	602		
	8:30		24.	123'9½"	602		
	8:45		24.	124'	602		
	9:00		24.	124'3"	602		
	9:15		24.	124'5"	602		
	9:41		24.	125'	602		
	10:00		24.	125'5"	602		
	10:15		24.	125'10½"	602	Changed orfice plate to 4" #6	
	10:34		15½	121'9"	254		
	10:45		14.	121'	243		
	11:00		16.	120'10"	257		
	11:15		15.	120'7"	250	Clearing	
	11:30		15.	120'2"	250		
May 22	12:00		15.	120'	250		
	12:49		15.	119'9"	250+		
	1:50		15.	119'9"	250+		
	2:10		15.	119'7"	250+		
	3:40		15.	119'7"	250+		
	4:23		12.	119'6½"	225		

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For WEST BRANCH, IOWA Located at

Make, Kind and Size of Power

Bowl No. 1 Size 8 Stages

Column Setting 155 ft. Size 5IN. Shaft size 1IN. and

Static Level Before Pumping 94 FT. 10 IN. After Pumping Temperature

Date	Time	Engine R.P.M.	Pump R.P.M.	Pumping Level	Gallons Per. Min.	Temp. Discharge Description	Sand P.P.M. Volume
May 22	5:26		15½	120'	254		
	6:00		15	119'7"	250	Iron 2.5	
	6:30		14	119'7"	224+	Hardness 22 graines	
	6:41		15	119'7"	250	P.H. 7.7 Pump off	
recovery	6:45			119'1"			
	7:21			118'3"			