WELL RECORD

Well is located ____ miles N E S W and ____ miles N E S W from

____ (Post Office) in ____ (County),

in the ____ ¼ ____ ¼ Sec. ____ T. ____ R. ____

Owner Slater Co Well No. ____

Address ____

Contractor McCutcheon Well Co

Address Des Moines

Driller Coffey

Well begun Jan 3, 19 41;

completed ____, 19 ____

Rig used—Cable, Rotary, Jet, or ____

Depth of well ____ (Feet) Size of hole

(note total amount of each size) ____

____

Main water supply at ____ (Feet below surface)

Final water head ____ (Feet above or below surface)

Is well pumped? ____;

Yield ____ (Gallons per minute)

____

Position of well ____ (Upland, valley, side hill, etc.)

Date and Time	Water Level	SOURCE OF WATER		Production in Gallons per Minute	Pumping Level
		Depth	Type of Rock		
20 min	145	235	Lime	4	190
	185	260	Drop		
30 min	190	330	Lime	8 gal.	275

NOTE: Water levels should be recorded at time of change *and* at regular intervals; for example each morning before drilling starts or at the end of each 100 feet of drilling.

RECORD OF PERMANENT CASING

Size Pipe	Amount of Pipe	Depth to Bottom of Pipe	Depth to Top of Pipe	Type* and Weight of Pipe	DIAGRAM OF WELL
6"	221-8				

*As cast, wrought iron, steel, concrete, etc.

Is screen used ..... Diameter ..... (Inches)

Length ..... (Feet) Depth to bottom .....

Depth to top ..... Slot size .....

Are packers or seals used? .....

Kind .....

Where used .....

Kind of pump ..... Dia. ..... (Inches)

Capacity of pump ..... (g.p.m.)

Power used ..... (Kind and amount)

Depth to bottom of pump line ..... feet,

including ..... feet tailpiece

Remarks on construction of well .....

.....

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	0	45'	45'	Yellow Drift
	45'	100	55'	Yellow Sand Stone
	100	115'	15'	Light some water
	115'	120	5'	Blk Shale
	120	125'	5'	Gray "
	125'	150	25'	Light Shale
	150	205'	55'	Gray Shales Rock Bands
	205	210	5'	Dark Shale
	210	216	6	Light Sandy Shale
	216	224	8	Coarse Sand Stone
	224	235'	11	Hard Brown Lime
	235'	250	15'	Coarse Lime
	250	255	5'	Hard Lime
	255'	305'	50	Gray Lime
	305'	310	5'	Light Lime
	310	315'	5'	Flint
	315'	323	8	Lime With shale Bands

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
32-3	323	350	27	Gray Lime
	350	380	30	Broken Lime

077-01E-18DAD

IOWA GEOLOGICAL SURVEY W-1109

In Cooperation with U. S. Geological Survey

RECORD OF WELL



Location:

Town: New Era (N E / S W): County Muscatine E.

SE-NE-SE sec. 18 T 77 N., R. 1 W. Montpelier Twp.

Well name and number Wildcat Den State Park #1

Owner Iowa Conservation Commission Address Des Moines

Tenant _____ Address _____

Contractor McCutcheon Well Co. Address Des Moines

Drillers Orie Hicks

Drilling dates Jan 3 - 24, 1940

Well data:

Elevations: Drilling curb 250 feet; Land surface 732 alt feet

Determined by Schuldt

Topographic position Upland

Total depth: Reported 380 feet, Measured _____ feet

Drilling method Cable

Hole and casing data 221'6" of 6" pipe from +3'10" to 217'10"

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

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

Sources of water: Principal Water sands ; Others _____

Production data: Date Feb 13, 1940

Static depth to water 153 Measuring point

Pumping level 173 at 10.3 g.p.m.

Specific capacity .15 g.p.m. per ft. drawdown; Temperature 54 °F.

Pump data: Type pump Cylinder Column Dia. Length 225

Cylinder or bowls: Dia. Length Suction pipe 20

Power Motor Airline

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

Use of water

WATER ANALYSES (in parts per million)

Date samples	Feb 13, 1940			
Sampled by	W C Schuldt			
Total solids	403			
Insoluble matter	18.0			
Alkalinity (Meo)	400			
Alkalinity (Phn)	0.0			
pH	7.1			
$Fe_2O_3 + Mn_2O_3 + Al_2O_3$	4.0			
Alkali as sodium	22.4			
Calcium	97.9			
Magnesium	26.7			
Iron (unfiltered)	0.2			
Manganese	Trace			
Nitrate	0.0			
Fluoride	Trace			
Chloride	6.0			
Sulfate	8.9			
Bicarbonate	488.			
Hardness (ppm)	354.7			
Hardness (gpg)	20.7			

Remarks

Laboratory data: Sample storage location

Sample range 0-380 No. spls. 75 No. dupls. & cond. 75 Cond

Spls. prepared by Summerfield Washed range 0-330 by

Driller's log and cond.

Insoluble residues: Prepared by Studied by Strip log

Microscopic study Gulf & Schuldt strip log Gulf & Schuldt

Gen. log Schuldt Correl. by Gulf & Schuldt.