		DRILLERS LO	G INCLUDED
	GEOLOGICAL SURVEY		W-0172
	ECORD OF WELL		
Town: <u>Basthene St.</u>	( N E) <u>Park.</u> ();	County <u>Delaware</u>	15
$\frac{5W SESE}{Well name and number}$	ec. <u>15</u> T. <u>70</u> N.,R.	. 6 W. Richland Twp.	-+
Owner <u>Jawa</u> Conserva			
		Address	
Contractor Thorpe Ner	16	Address Des M	and the second
	*****		
Drilling dates	1- 9/21/34		
Determined by			
Topographic position Total depth: Reported	and the second state and shares	feet, Measured	4. fee
Drilling method			
Holo and casing data			ll casing; type and
		ng; how finished perfor	
gravel pack, open hole	, etc.)		
	above		
Original depth to water		Date	
Original elevation of wa	ter level	ft.; Source of data	
Sources of water: Princ	ipal	: Other	1g

Production data:	Date
Static depth to water 37	Measuring point
Pumping level 42	
Specific capacity g.p.m.	per ft. drawdown; Temperature. OF.
where the subscription is the subscription of	olumn Dia Length
	ength Suction pipe
	Airline
	g.p.m. for hrs. a da
Use of water	
WATER ANALYSES	(in parts per million)
Date sampled	
Sampled by	
Total solids	
Insoluble matter	
Alkalinity (Meo)	
Alkalinity (Phn)	
pH	
Fe <sub>2</sub> 0 <sub>3</sub> + Mn <sub>2</sub> 0 <sub>3</sub> +Al <sub>2</sub> 0 <sub>3</sub>	
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 - 94' No. s	pls. 12 No. dupls. & cond. 12.6.
Spls. prepared by Washe	d range by
Driller's log and cond. Ves. Land	
Insoluble residues: Prepared by	Studied by Strip log
Microscopic study Ryre	
Gen. log	Correl. by med AFF 1952

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## WELL RECORD

Well is located 2.5 miles in a N.E. direction from Dundee in Iowa, in the S.E. 1 section 15, Township 90, R 6-W.

> Owner, State Park #2 Backbone at Bath house Address, Dundee, Iowa

Contractor, Iowa-Nebraska Exploration Company (The August Address, Des Moines, Iowa 1/19/34, completed 9/21/34 El. 1018.5

Address, Des Moines, Iowa

Well begun 9/19/34, completed 9/21/34

Rig used ..... cable, Maker, Ferguson Machine Company

Diameter of well at mouth, 8"; at bottom, 8".

Depth of well, 94'; Length and size of casing, 24', 8" Diameter.

Water at 37' Water head at 57'.

Well is pumped .... yield, 25 gal per minute.

Recorded by M. E. Burr, Dundee, Iowa

Into from Thompe files by CW Lone (1951) SWI 37' PWI 42' @ 24.6 gpm

Sample No.	From	To	<u>Thickness</u>	Kind of rock, color, hard or soft water
1.	0	7	7	Sand
2.	7	11	4	Mixture - Flinty Limestone, Sand
3.	11	19	8	Sand
4.	19	22	4	Sandy - line stone
5.	22	30	8.	Lime-stone, Shale
6.	30	40	10	Line stone
7.	40	50	10	" " Hard water
8.	50	60	10	H H
9.	60	70	10	н
10.	70	80	10	" " Soft Water
11.	80	90	10	п п
12.	90	94	4	н

Backbone State Park

Lamont Strawberry Point, Iowa

Well No. 7; Fish Hatchery

W-0270

1937

Yellow sand	20-0	20-0	
Clean sand	5-0	25-0	
Yellow drift	16-0	41-0	
Soft limestone	6-0	47-0	
Hard limestone	3-0	50-0	
sandy lime (water)	32-0	82-0	
Yellow shale	1-0	83-0	
Brown limestone	17-0	100-0	

Tested 30Gal. / no draw down. Water level 38 Ft. from curb. Cased 47 Ft. 6" Std. weight Drillers pipe.

Well No. 7; Auditorium

N-0271

Sandy soil	2-0	2-0	
Yellow drift with rocks	5-0	7-0	
Hard limestone	39-0	46-0	
Rotten limestone	24-0	70-0	
Hard limestone	4-0	74-0	
Sandy limestone ( water	-) 60-0	134-0	
Blue Limestone	3-0	137-0	
Brown limestone	10-0	147-0	

Tested 30Gal. / no draw down. Water level 68 Ft. from curb. Cased 72 Ft. 6" Std. weight drillers pipe.

by T.S. Mc Cutcheon.

## CUTTING DATA

sand 7' mixture : flinty limestone - sand 11' sand 19' sandy - limestone 22' limestone - shale 30' limestone 40' hard water limestone 50' limestone 60' limestone 70' soft water limestone 80' limestone 90' limestone 94' Aug. 1937

GLB.

			94'			-
5		70' Open well			24' of 8" casing	-
						Ç
	0.					N I S
				static head at 5	1'	2 C
		Time	Level			] Å
	pumping began	1:00 A.M. (7:00 "	49' - 0"			DATA
	25 G.P.M.	8:00 " 9:00 "	49'-6" 50'-0" 50'-4"			
		11:00 "	49' - 6" 49' - 0"			
	, 28 G.P.M.	{ 1:00 P.M. 2:00 "	49'-6' 49'-6' 49'-6'			
	42 G.P.M.	} 3:00 ·· -{ 3:30 ··	46'-6"			