IOWA GEOLOGICAL SURVEY

In Cooperation with U. S. Geological Survey

RECORD OF WELL

8712

Location: 1/4 mi. W

(N E)

Town: Fort Dodge (S W) :County Webster

NE 1/4 NE 1/4 sec. 24 T. 89 N., R. 29 W. Twp.

Well name and number Albert Clark

Owner → Address City rout # 19

Tenant Address

Contractor Harold Rasmussen Address Callender, Ia

Drillers →

Drilling dates June 11, 1956 → June 30, 1956

Well data:

Altitudes: Drilling curb feet; Land surface feet

Determined by

Topographic position Side Hill

Total depth: Reported 187 feet, Measured feet

Drilling method Cable tools

Hole and casing data 5 3/16" hole Well is pumped. No screen is used.

Original depth to water 50 ft. above below Date

Source of data

Sources of water: Principal 187

Others

Production Data

Date				
Static water level	50			
Measuring point				
Pumping water level	65			
Yield (g. p. m.)	5			
Duration of pumping				
Specific capacity				

Pump Data

Type pump _____ Column diameter and length _____

Cylinder or bowls diameter and length _____

Suction pipe _____ Airline _____

Power _____ Production _____ g. p. m. for _____ hours per day

Use of water _____

Dissolved constituents and properties (in parts per million except as indicated)

Date sampled				
Sampled by				
Silica (SiO_2)				
Iron (Fe)				
Manganese (Mn)				
Calcium (Ca)				
Magnesium (Mg)				
Potassium (K)				
Sodium (Na)				
Carbonate (CO_3)				
Bicarbonate (HCO_3)				
Sulfate (SO_4)				
Chloride (Cl)				
Fluoride (F)				
Nitrate (NO_3)				
Dissolved solids				
Hardness (as $CaCO_3$)				
Total				
Grains per gallon				
Noncarbonate				
Alkalinity (as $CaCO_3$)				
pH				
Specific conductance (micromhos at 25°C)				
Temperature (°F)				
Analysis No.				

Laboratory Data

EL4-3

Well No. W 8142 Sample range 0 - 187 No. of samples 35

No. of dupls. and cond. 35 Good Washed range 40 - 187

Samples prepared by Dow Date 12/27/56

Logged by Northup Date 4/12/57

Correlations by _____ Date 4/12/57

WELL RECORD

Well is located 1/4 miles N E S (W circled) and — miles N E S W from

Fort Dodge (Nearest Town) in Webster (County),

in the NE ¼ EE ¼ Sec 24 T. 89 R. 29

Owner Albert Clark Well No. ....

Postoffice address CITY ROUTE 14

Contractor Harold Rasmussen.

Address Callender Iowa.

Driller Harold Rasmussen

Well begun June 11, 1956,

completed June 30, 1956

Rig used—Cable, (circled) Rotary, Jet, or ....

Depth of well 187 (Feet)

Size of hole (note total amount of each size) ....

5 5/16

Main water supply at 187 (Feet below surface)

Final water head 50 (Feet above or below surface)

Is well pumped? Yes

Yield 5 (Gallons per minute)

Water level when pumping 65

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

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
5 3/16	98'	98'		9# Steel	

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

Is screen used? No 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		THICKNESS
	From	To	
1	0	5	
2	5	15	
3	15	20	
4	20	25	
5	25	27½	
	27½	29	
6	29	35	
7	35	40	
8	40	45	
9			
10			
11			
12	60	65	
12	65	68	
13	68	75	
14	75	78	
15	78	80	

DESCRIPTION OF BEDS
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
Black Dirt
Gray Shale
" "
" "
Red Shale
Sand Stone
Shale & Rock
" "
Rock
Rock
Rock
Green Shale
Rock Sandstone
Rock & Shale

Sample No.	DEPTH		THICKNESS
	From	To	
16	80	82	
17	82	85	
18	85	90	
19	90	95	
20	95	100	
21	100	105	
22	105	110	
23	110	115	
24	115	120	
25	120	125	
26	125	130	
27	130	135	
28	135	140	
29	140	143	
30	143	150	
31	150	160	
32	160	175	

DESCRIPTION OF BEDS
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
Green Shale
Rock
Rock
Rock Limestone
Rock "
Rock "
Rock "
Rock "
Rock "
Rock "
Rock "
Rock "
Rock "
Rock "
? Shale & Rock (Rock 145-146)
Rock (Brown) Limestone
Brown Limestone

Gas

Sample No.	DEPTH		THICKNESS
	From	To	
	175	181	
	181	187	

DESCRIPTION OF BEDS

KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.

Gray Limestone
10 " "

FOR FIGURING, CASING TALLY, ETC.

5 3/16" Blk. Casing

5-8 5-8

1 - 14 - 5-1/2 48

2 - 15 - 9

3 14 - 11 1/2

4 13 - 1 87 58-3

5 12 - 2

8 - 10

9 11

48 8

93

5

98

FOR FIGURING, CASING TALLY, ET

6 1/4" Casing

1 - 20 - 5

2 - 10 - 1

3 - 7 - 4