IOWA GEOLOGICAL SURVEY
In Cooperation with U.S. Geological Survey
RECORD OF WELL

16401

Location:

Town: Van (NE) (SW) County _____

___ ___ NE ___ Sec. ___, T. ___, N., ___ R. ___ (E) (W) _____ Twp.

Well name and number #1

Owner Van We Address _____

Tenant _____ Address _____

Contractor Atk Address _____

Drillers _____

Drilling dates 8-30-19

Well data:

Altitudes: Drilling curb ____ feet; Land surface _____ feet _____

_____

Determined by _____

Topographic position Upland

Total depth: Reported _____ feet; Measured _____ feet _____

_____

Drilling method _____

Hole and casing data _____

_____

_____

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

Source of data _____

Sources of water: Principal 304-307

Others _____

PRODUCTION DATA

Date _____

Static water level _____

Pumping water level _____

Yield (g.p.m.) _____

Measuring point _____

Duration of pumping _____

Specific capacity _____

LABORATORY DATA

#16401

Well No. _____ Sample range 0-3 No. of samples 6

No. of dupls. and cond. 1 cond Washed range _____

Samples prepared by Wegner Date 5-12-66

Logged by Northup Date 9/28/66

Correlations by _____ Date 9/28/66

DRILLER'S NOTEBOOK

WELL RECORD

DRILLER BOB WINKLER

ADDRESS SCHALLER, IA

16401

OWNER TOWN OF VARINA

ADDRESS VARINA IA

#16401

RETURN TO
IOWA GEOLOGICAL SURVEY
IOWA CITY, IOWA

WHEN RECORD IS COMPLETED PUT IN ENVELOPE AND MAIL TO

THE DIRECTOR

IOWA GEOLOGICAL SURVEY

IOWA CITY, IOWA

DRILLER'S NOTE

It is important that a driller's notebook, filled out as completely as possible, be sent to the Iowa Geological Survey at the completion of each hole. A number of drillers have found it convenient to string samples from a single well on a heavy wire and attach the log book to them. A hole has been punched in the log book for this purpose.

Sample sacks and log books will be furnished by the Geological Survey. A copy of the log book will be made and returned if desired by the driller.

SUGGESTIONS TO DRILLERS

1. Samples should be taken from each bed passed through, and never more than 5 feet apart, even in the same bed.

2. Samples should not be washed, except to remove excess drilling mud, as washed samples may give a wrong idea of the character of the bed.

3. Fill out the label on each sample bag with the name of the well and the depth interval which the sample represents.

4. Make frequent use of the "Description" column to explain the material being drilled.

5. Note depth and thickness of all water-bearing layers.

6. Note the quality of the water from each layer: as hard, soft, salty, alkaline, or sulphur bearing.

7. Note height to which water from each layer rises in well, and give flow or capacity in gallons per minute.

8. Fossils, such as oyster, clam, and other shells, are important and should be placed in bags with the material with which they are found and carefully labeled as to the depth from which they were obtained.

9. If you do not understand what is wanted, or desire information on any point, write to the Iowa Geological Survey, Iowa City, Iowa.

10. Samples may be boxed and sent to IOWA GEOLOGICAL SURVEY, IOWA CITY, IOWA, EXPRESS COLLECT.

The Iowa Geological Survey desires to assist and cooperate with owners and drillers in every way possible, and will be glad to answer questions and assist in the solution of problems at any time.

PB—D-6467

WELL RECORD

Well is located.....N/S miles and.....E/W miles from N/S E/W

VARINA (Nearest Town) in POCAHONTAS (County);

in the NE ¼ NE ¼ Sec. 31 T. 91N R. 34W

Owner VARINA Well No. #3

Postoffice address VARINA, IA

Contractor M.F. MERKLEY

Address SCHALLER IA

Driller BOB WINKLER

Well begun 12-23, 1963;

completed 12-30, 1963

Rig used—Cable, Rotary, Jet, or.....

Depth of well 314' (Feet)

Size of hole (note total amount of each size) 314' OF 6" PIPE

Main water supply at..... (Feet below surface)

Final water head 72 (Feet above or below surface)

Is well pumped? YES

Yield 50 (Gallons per minute)

Water level when pumping 90'

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

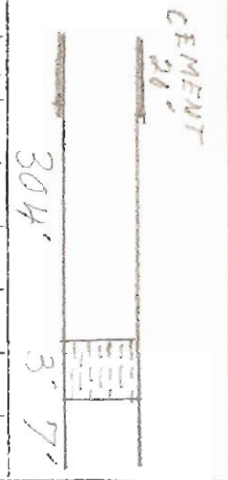
Date and Time	Water Level	SOURCE OF WATER		Production in Gallons per Minute	Pumping Level
		Depth	Type of Rock		
1-1664	72	304' TO 307'	GRAVEL	50	90'

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
6"	314	314	0	20# BLACK

DIAGRAM OF WELL



*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 336" OF 1/8" SLOTS IN PIPE 304' TO 307'

BOULDER AT 165-166-182-186-240-280

Sample No.	DEPTH From	DEPTH To	THICKNESS	DESCRIPTION OF BEDS — KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.
	0	2	2	TOP SOIL
	2	15	13	YELLOW CLAY
	15	145	130	BLUE CLAY
	145	146	1	SAND
	146	160	15	BLUE LAY
	160	185	25	YELLOW CLAY
	185	299	114	BLUE CLAY
	299	304	5	SOFT BLUE CLAY
	304	307	3	SAND & GRAVEL
	307	310	3	SAND STONE OR SAND
	10	312	2	SHALE
	12	314	2	LIMESTONE