

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

MASTER CARD

Record by K. Wahl Source of data F.I. Date 9-16-68 Map 1/63, 360 Co Highway

State Iowa 16 County (or town) Iowa 48

Latitude: 413927N Longitude: 0920054 Sequential number: 1

Lat-long accuracy: 2 T. 29 R. 10 Sec. 16 NW 1/4, NW 1/4, NE 1/4 5

Local well number: 07910W16ABB Other number: W-17915

Local use: 17915 65 CITY 5 Owner or name: Williamsburg Iowa

Owner or name: WILLIAMS AURGIA Address: Williamsburg Ia.

Ownership: County, Fed Gov't, (M) Corp or Co, Private, State Agency, Water Dist (M)

Use of Air cond, Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Med, Ind, (P) Rec, water: (S) (T) (U) (V) (W) (X) (Y) (Z) (P)

Use of well: (A) (D) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) (P)

DATA AVAILABLE: Well data (1) Freq. W/L meas.: Original (0) Field aquifer char. (0)

Hyd. lab. data: (0)

Qual. water data; type: Complete (C)

Freq. sampling: Irregular 1-23-67 (I) Pumpage inventory: no period: (0)

Aperture cards: (0)

Log data: Sample log, Drillers log (G.D)

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 270 ft (270) Meas. Drillers log (3)

Depth cased: 245 ft (245) Casing type: Steel ; Diam. 10 in (10)

Finish: porous concrete, gravel w. gravel w. horiz. open perf., screen, sd. pt., shored, open hole, other (S)

Method: air bored, cable, dug, hyd jetted, air reverse trenching, driven, drive wash, other (0)

Date Drilled: 1965 (9:6:5) Pump intake setting: (0) ft (0)

Driller: Hoyt & Ames Lincoln Ia

Lift (type): (A) (B) (C) (J) multiple, multiple, none, piston, rot, submerg, turb, other (D) Deep (D) Shallow (0)

Power (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. (0) Trans. or meter no. (0)

Descrip. MP Land Surface ft above below LSD, Alt. MP 822

Alt. LSD: 822 (822) Accuracy: Altitude 1967 (7)

Water Level: 140 ft (140) MP; Ft (140) LSD (140) Accuracy: Drillers log (D)

Date meas: 9-24-65 (9:6:5) Yield: 215 gpm (215) Method determined (4)

Drawdown: 71 ft (71) Accuracy: Drillers log (3) Pumping period: 7 hrs (7)

QUALITY OF WATER DATA: Iron (0) Sulfate (0) Chloride (0) Hard. (0)

Sp. Conduct (0) K x 10 (0) Temp. (0) Data sampled (0)

Taste, color, etc. (0)

Well No. 079-10W-16 ABB

Well No. 079-10w-16 ABA

Latitude-longitude 41.39.27 ^N 092.00.54 ^W

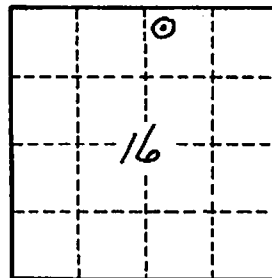
HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD
 Physiographic Province: Central lowland 12 Section: Dissected Till
 Plains E Drainage Basin: Iowa 250 Subbasin:
 (D) (C) (E) (F) (H) (K) (L)
 Topo of depression, stream channel, dunes, flat, hilltop, sink, swamp,
 well site: (Q) (P) (S) (T) (U) (V)
 offshore, pediment, hillside, terrace, undulating, valley flat 27
 MAJOR Quaternary Pleistocene Q:G G:X
 AQUIFER: system series aquifer, formation, group
 Lithology: Sand + Gravel R Origin: Quaternary Q Aquifer Thickness: 20 ft
 Length of well open to: 15 ft Depth to top of: 240 ft 240
 MINOR
 AQUIFER: system series aquifer, formation, group
 Lithology: Origin: Aquifer Thickness: ft
 Length of well open to: ft Depth to top of: ft
 Intervals Screened: 245- to 260
 Depth to consolidated rock: 270+ ft Source of data: Sample log
 Depth to basement: ft Source of data:
 Surficial material: Loess Q Infiltration characteristics: Poor 4
 Coefficient Trans: gpd/ft Coefficient Storage:
 Coefficient Perm: gpd/ft² Spec cap: gpm/ft; Number of geologic cards:

Casing: 10-in from surface to 245'

8-in screen from 245 to 260
top 5' #12 slot, bottom
10' #45 slot.

8-in from 260 to 270



Well No. 079-10w-16 ABA

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

P.J. Horick says
well location from city plot
shows

Location: SW. part of Town

Town: WILLIAMSBURG (NE) County 10W4
(SW)

SESESESW 09 (E)
NW NW NE Sec. 16, T. 79, N. , R. 10 (W) Twp.

Well name and number

Owner Town of Williamsburg #5 Address Williamsburg, Iowa

Tenant (1965) Address

Contractor HOBG & AMES, INC. Address LINCOLN, IOWA

Drillers ERVOL FINK

Drilling dates JULY 18 - SEPT. 24, 1965

Well data:
Altitudes: Drilling curb feet; Land surface 822 feet

Determined by alt 67

Topographic position

Total depth: Reported 270' feet; Measured feet

Drilling method CABLE tools

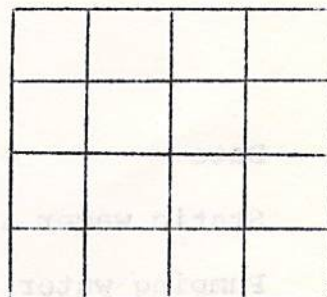
Hole and casing data 245' OF 10" ID. CSG.

15' OF 8" SCREEN 245-260

10' OF 8" SUMP BELOW SCREEN 260-270

Original depth to water feet. below Date

Source of data



Sources of water: Principal 245-260

Others _____

PRODUCTION DATA

Date _____

Static water level 140

Pumping water level 211

Yield (g.p.m.) 215

Measuring point _____

Duration of pumping 7 Hours

Specific capacity _____

LABORATORY DATA

Well No. #17915 Sample range 0-260 No. of samples 52

No. of dupls. and cond. 526 Washed range —

Samples prepared by Dennis LaPoint Date 10/11/65

Logged by NORTHUP Date 3/11/66

Correlations by " Date 3/11/66



MEMBER

Phone 515 473-2707

HOEG & AMES, Inc.

WELL CONTRACTORS

WELL SUPPLIES

LINCOLN, IOWA

68462



Low Survey # 17915

RECORD OF WELL

No. 5

Owner Town of Williamsburg

Address Williamsburg, Iowa.

Tenant _____

Address _____

Location Southwest part of the Town, Iowa County.

Started the Well July 18, 1965

Finished the Well September 24, 1965.

Total Depth 270' Size of Well 10 inch diameter

Static Water Level 140 ft.

Draw-down 71 feet, pumping 215 Gal. P.M.

245 feet of 10" I.D. inch pipe installed

feet of _____ inch casing installed

Driller Errol Fink, for Hoeg & Ames, Inc.

Remarks A 5 ft. Johnson Everdura screen, #45 slot was set in the sand formation 180' to 184', and a pumping test was conducted. The S.W.L. was 151' and we pumped 125 g.p.m. at 177' pumping level - which was almost to the top of the screen. It was decided to drill deeper and prospect for a deeper aquifer. The hole was drilled to a depth of 270', a 15' screen was set, the upper 5' of the screen being #12 slot and the bottom 10' being #45 slot, with a 10 foot 8" sump below the screen. The screen was set at 245' to 260'. The S.W.L. was 140 ft. and the well was tested 7 hours at 215 g.p.m., with a pumping level of 211 ft.

Formations

0' to 75' - Yellow Clay
75' to 180' - Gray Clay
180' to 184' - Sand

184' to 240' - Blue Clay
240' to 258' - Sand, some gravel.
258' to 270' - Gray Clay.

Total Depth - 270 feet.



MEMBER

Phone 515 473-2707

HOEG & AMES, Inc.

WELL CONTRACTORS

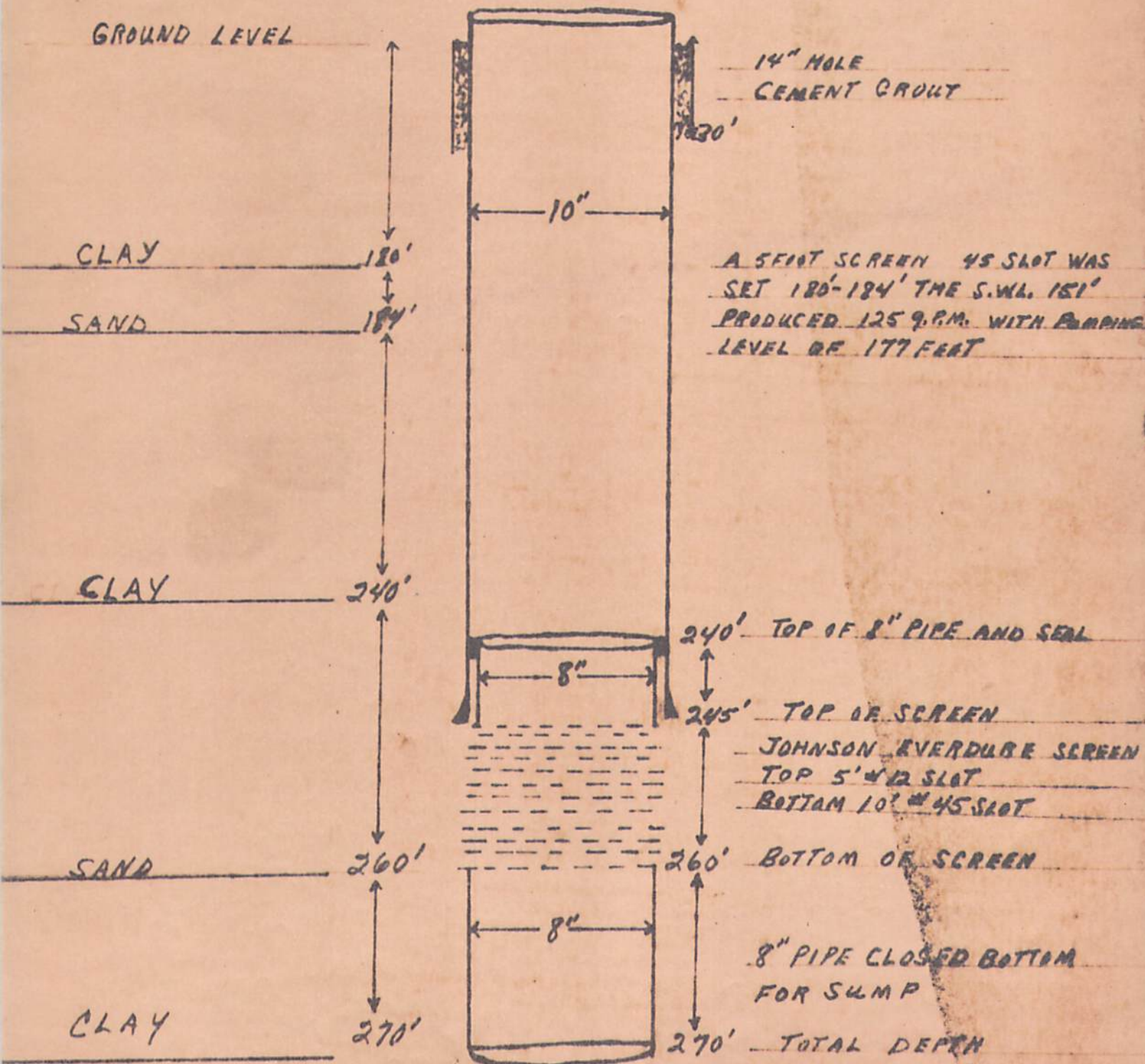
WELL SUPPLIES

☆☆☆

LINCOLN, IOWA

50482

Survey Copy



WILLIAMSBURG WELL DRILLED SEPT-1965

SCALE NONE

WELL PRODUCTION TEST DATA SHEET

Job WILLIAMSBURG Date Tested SEPT 24 1966
 Location S.W. PART OF TOWN Tested by HOEG & AMES INC
 Diameter of Well 10" Pump Used TURBINE
 Depth of Well 270' Driver BUDA ENGINE
 Length of Airline 255' Col. & Shaft 266 - 3/4
 Static W. L. 140' Bowls 7"
 Orifice Size 4" ON 6" pipe Mfg. F.M.

TIME	ORIFICE READING	GPM	PUMPING LEVEL	STATIC W.L.	DRAW- DOWN	REMARKS
10:00	9.5	200	193	140	53	START PUMP
10:05	9.5	200	199		59	WATER CLEAR.
10:10	9.5	200	199		59	
10:15	9.5	200	199		59	
10:20	10.	205	201		61	
10:25	10 +	205	201		61	
10:30	10. +	205	202		62	
10:45	10 +	205	203		63	
11:00	10 +	205	201		61	
11:15	10	205	201		61	
11:30	10	205	203		63	MOTOR SURGING
11:45	11	215	205		65	
12:00	10	205	204		64	
12:30	9.5	200	201		61	
1:00	10.	205	206		66	
1:30	10.	205	205		65	
2:00	10.	205	206		66	

WELL PRODUCTION TEST DATA SHEET

Job _____ Date Tested _____

Location _____ Tested by _____

Diameter of Well _____ Pump Used _____

Depth of Well _____ Driver _____

Length of Airline _____ Col. & Shaft _____

Static W. L. _____ Bowls _____

Orifice Size _____ Mfr. _____

[illegible]