



Phone 515 473-2707

HOEG & AMES, Inc.

WELL CONTRACTORS

WELL SUPPLIES

LINCOLN, IOWA

30462

Survey Copy



RECORD OF WELL # 2.

Owner Town of Dows, Iowa.

Address Dows, Iowa. 50071

Tenant _____

Address _____

Location In the Town of Dows, Wright County, Iowa.

Started the Well November 30, 1966.

Finished the Well February 8, 1967.

Total Depth 752 ft. Size of Well 10"

Static Water Level 80 ft.

Draw-down 38 feet, pumping 168 Gal. P.M.

125 feet of 12" I.D. inch pipe installed

429 feet of 10" I.D. inch casing installed

Driller A. K. Scott, for Hoeg & Ames, Inc.

Remarks Method of construction on continuation sheet # 1.

FORMATION

Formations on continuation sheet # 2.



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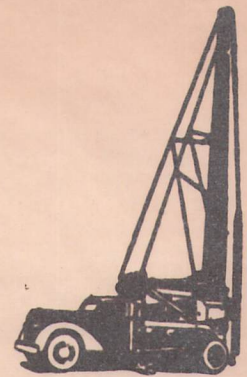
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50652

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RECORD OF DOWS TOWN WELL # 2.
Continuation sheet # 1.

METHOD OF CONSTRUCTION.

A hole of sufficient diameter to allow the placing of 16" O.D. casing was drilled to a depth of 16 ft., and 16' of 16" O.D. pipe was installed. Drilling continued with a hole of sufficient diameter to allow the placing of 12" I.D. casing to a depth of 125 ft. The casing was placed in one continuous string to the depth of 125 ft. A 12" open hole was then drilled to a depth of 429 ft., and 10" I.D. casing was placed concentrically in the 12" hole, in one continuous string from the bottom to the top. Drilling then continued with a 10" open hole to a depth of 752 ft.

A test pump and testing equipment was then installed and a 10 hour pumping test was conducted to determine the capacity and pumping levels of the well. After the pumping test was completed, and the test pump and equipment removed, the annular space between the 10" pipe and the 12" hole and between the 10" pipe and the 12" pipe was filled with neat cement grout from the bottom (depth 429 ft.) to the top. the space between the 12" pipe and the 16" hole was also filled with cement grout as the 16" pipe was being removed. The 12" pipe was left in place.



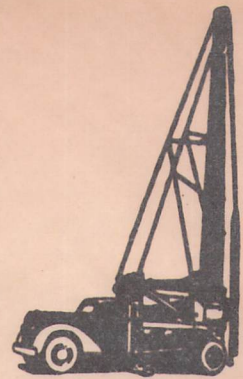
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RECORD OF DOWS TOWN WELL # 2.
Continuation sheet # 2.

FORMATIONS.

0'	to	5'	- Soil and clay.
5'	to	15'	- Yellow clay.
15'	to	38'	- Blue clay (Boulder at 27')
38'	to	60'	- Yellow clay (sandy).
60'	to	77'	- Blue clay.
77'	to	85'	- Sand and gravel.
85'	to	110'	- Sand and gravel (some coarse)
110'	to	115'	- Blue clay.
115'	to	118'	- Rock (contains shells)
118'	to	135'	- Rock (broken)
135'	to	185'	- Gray and brown limestone (dark)
185'	to	232'	- Brown and gray limestone.
232'	to	248'	- Gray shale.
248'	to	255'	- Brown limestone and some shale.
255'	to	265'	- Gray limestone.
265'	to	300'	- Light brown limestone (hard)
300'	to	305'	- Light brown limestone and shale.
305'	to	321'	- Dark blue and gray rock.
321'	to	345'	- Gray shale.
345'	to	347'	- Dark brown limestone (hard).
347'	to	351'	- Brown limestone.
351'	to	359'	- Dark brown limestone.
359'	to	369'	- Gray shale.
369'	to	380'	- Gray limestone.
380'	to	385'	- Brown limestone.
385'	to	395'	- Limestone and shale.
395'	to	415'	- Shale.
415'	to	420'	- Gray dolomite (sandy)
420'	to	427'	- Light gray dolomite or limestone (hard).
427'	to	440'	- Gray limestone.
440'	to	480'	- Gray and brown dolomite.
480'	to	500'	Gray and brown dolomite (hard)
500'	to	520'	- Gray limestone (hard)
520'	to	535'	- Gray dolomite (hard)
535'	to	595'	- Brown dolomite (hard)
595'	to	610'	- Gray and brown dolomite.
610'	to	615'	- Brown dolomite with shale seams.
615'	to	710'	- Brown dolomite.
710'	to	735'	- Brown dolomite (broken).
735'	to	740'	- Brown and gray dolomite.
740'	to	752'	- Gray dolomite (sandy).

Total Depth - 752 feet.

WELL PRODUCTION TEST DATA SHEET

Job Dows City Well # 2 Date Tested January 31, 1967
 Location Dows, Iowa. Tested by Hoeg & Ames, Inc.
 Diameter of Well 10" Pump Used Turbine
 Depth of Well 752 ft. Driver Gasoline
 Length of Airline 200 ft. Col. & Shaft 255ft. 3/4"
 Static W. L. 80 ft. Bowls 9'
 Orifice Size Stock tank measure Mfrg. _____
1" = 14 gallons.

TIME	ORIFICE READING	GPM	PUMPING LEVEL	STATIC W. L.	DRAW-DOWN	REMARKS
7:55 A.M.				80'		Started Pump.
8:00	11"	154	110'		30'	Water muddy.
8:15	11 1/2"	161	115'		35'	Water milky
8:30	12"	168	116'		36'	Water clearing
9:00	11 1/2"	161	117'		37'	#1 pump running clear
9:30	11 1/2"	161	118'		38'	" " " "
10:00	11 1/2"	161	118'		38'	#1 pumping 118 gpm
10:30	11 1/2"	161	119'		39'	#1 well pumping 118 gpm
11:00	11 1/2"	161	119'		39'	" " " "
11:30	11 1/2"	161	120'		40'	# 1 well stopped.
12:00 Noon	12"	168	119'		39'	Water clear
12:30 P.M.	12"	168	118'		38'	Water clear
1:00	12"	168	118'		38'	Water clear
1:30	12"	168	118'		38'	#1 well started pumping at 1:35 P.M.
2:00	12"	168	119'		39'	#1 well pumping
2:30	12"	168	120'		40'	#1 well pumping
3:00	12"	168	121'		41'	#1 well pumping



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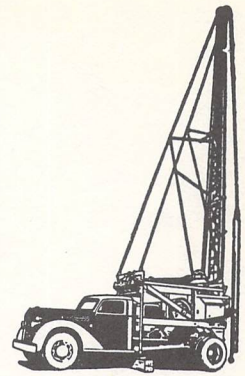
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LINCOLN, IOWA
50652

February 1, 1967



Phone 515 473-2707 IOWA GEOLOGICAL SURVEY

FEB 2 1967

Iowa Geological Survey,
Geological Survey Building,
Iowa City, Iowa.

Attn: Dr. H. G. Hershey.

Dear Dr. Hershey;

Enclosed is the Pumping Test Data on the new Town Well # 2 for Dows, Iowa.

Under separate cover we are sending a sample of the water from this well, for mineral analysis. We are also sending the rest of the drill cutting samples.

Thank you for your very kind co-operation in regard to this well.

Yours very truly,

HOEG & AMES, INC.

Sylvan Ames
S. R. Ames, President.

SRA/nvh.