LOG OF WELL
FOR

TOWN OF MOORLAND, IOWA

LAYNE-WESTERN COMPANY — April 1957

0	-	2	Black top soil
2	-	15	Yellow clay
15	-	90	Gray clay
90	-	125	Sand and gray clay - boulders
125	-	165	Gray shale
165	-	255	Black shale
255	-	341	Limestone and shale
341	-	370	Hard gray limestone
370	-	585	Brown limestone
585	-	710	Gray limestone
710	-	730	Limestone and shale

Casing Record

8" casing from ground level to a depth of 381 feet.

RECORD OF PUMPING TEST
ON WELL
for

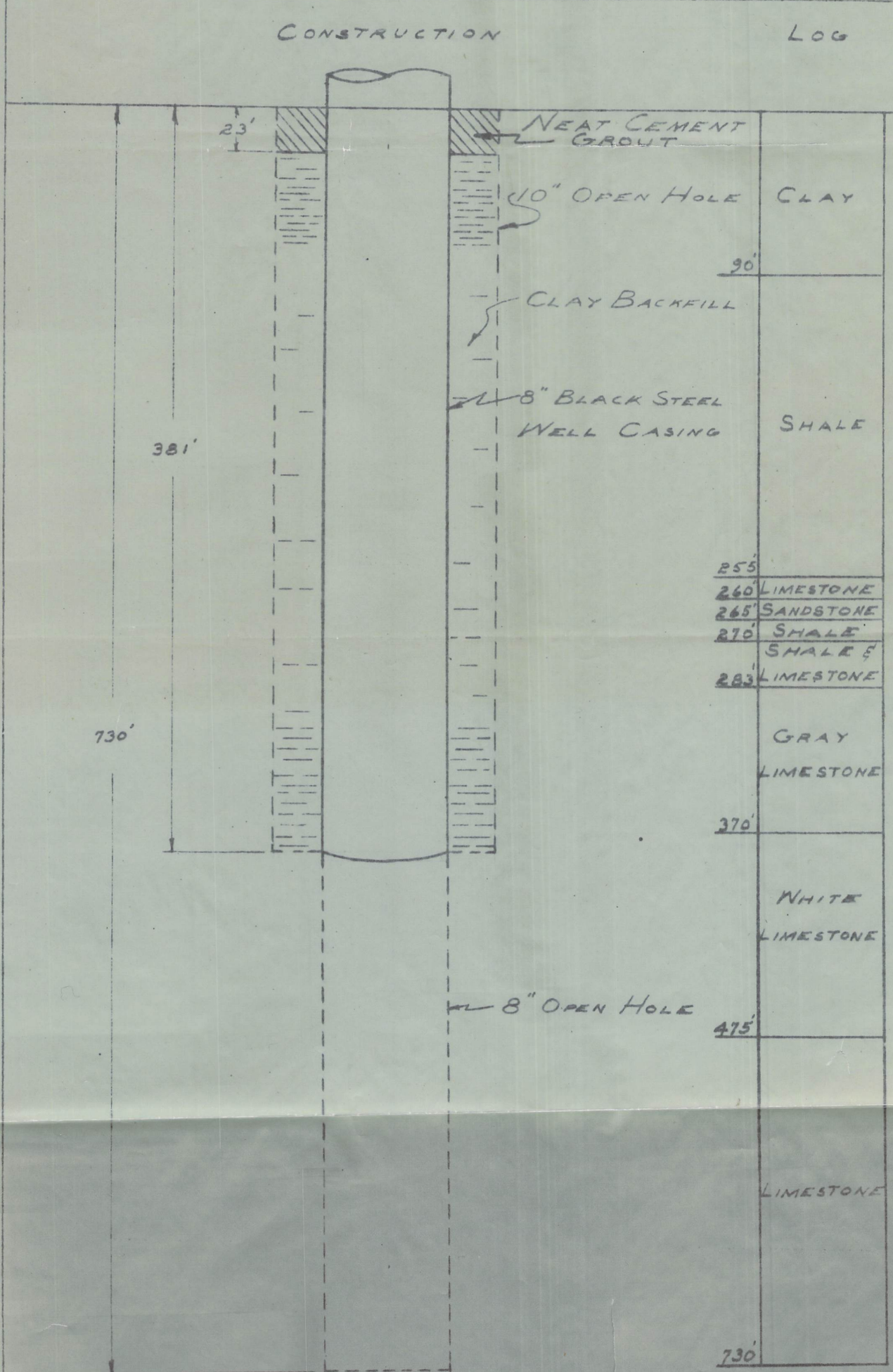
MOORLAND, IOWA

LAYNE-WESTERN COMPANY — April 1957

Time	GPM	Static Water Level	Drawdown	Pumping Level
8:30	0	180'		
9:00	40		139'	319'
9:30	40		144	324
10:00	35		144	324
10:30	35		132	312
11:00	35		140	320
11:30	35		140	320
12:00	35		140	320
12:30	35		140	320
1:00	35		140	320
1:30	35		140	320
2:00	35		140	320
2:30	35		141	321
3:00	35		141	321
3:30	35		140	320
4:00	35		140	320
4:30	35		140	320

Recovery Time	Water Levels
4:30	320'
4:31	266
4:32	258
4:33	251
4:34	244
4:35	238
4:40	213
4:45	201
4:50	193
4:55	187
5:00	185
5:15	182
5:30	182
6:00	182

DETAILS OF WELL CONSTRUCTION
FOR
TOWN OF MOORLAND, IOWA
LAYNE WESTERN CO. AMES, IOWA



January 6, 1958

Layne-Western Company
P. O. Box 662
Ames, Iowa

Attention Mr. Richard A. Marr

Gentlemen:

Thank you very much indeed for the information accompanying your letter of January 2 on the Moorland well. The drawing, log, and record of pumping test will be useful to us and I appreciate your cooperation in assembling it.

Very truly yours,

H. G. Hershey

HGH:t

JAN -3 1958



AFFILIATED WITH
LAYNE & BOWLER, INC.

Layne-Western Company

WATER WELL DRILLING
EXPLORATION BORINGS AND TEST SURVEYS
LAYNE TURBINE PUMPS

OFFICES
KANSAS CITY, MISSOURI
WICHITA, KANSAS
OMAHA, NEBRASKA
AMES, IOWA
AURORA, ILLINOIS
ST. LOUIS, MISSOURI
DENVER, COLORADO

SOUTH DUFF STREET
P. O. BOX 662
AMES, IOWA

TELEPHONE CEDAR 2-3563

January 2, 1958

Iowa Geological Survey
Geology Annex
Iowa City, Iowa

Attention: Mr. Northrup

Gentlemen:

Quite some time ago, you requested that we send information pertaining to the well drilled at Moorland, Iowa.

We have gathered this information together and are enclosing some with this letter. Enclosed, you will find the log of the well, record of the pumping test, and the details of the well construction.

We are glad to have been of service to you.

Very truly yours,

LAYNE-WESTERN COMPANY

Richard A. Marr

Richard A. Marr

RAM:mh

W 8215

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

Location:

Town: MOORLAND (NE) (SW) :County WEBSTER

SE, NE, NE, NE sec. 14 T. 88 N., R. 30 W. Twp.

Well name and number

Owner MOORLAND TOWN WELL (1957) Address

Tenant Address

Contractor LAYNE-WESTERN Address AMES

Drillers

Drilling dates MARCH - APRIL 1957

Well data:

Altitudes: Drilling curb feet; Land surface feet

Determined by

Topographic position

Total depth: Reported 730 feet, Measured feet

Drilling method CABLE TOOLS

Hole and casing data 381' OF 8" CASING 0-381'

Original depth to water 180 ft. above below Date

Source of data

Sources of water: Principal

Others

Production Data

Date				
Static water level	180			
Measuring point				
Pumping water level	320			
Yield (g. p. m.)	35			
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

Well No. W 8215 Sample range 0-730 No. of samples 157

No. of dupls. and cond. 157 Good Washed range 255-730

Samples prepared by Dow Date March April, 1957

Logged by Nordup Date April 1957

Correlations by " Date "

NA 6-15, 16,