

IOWA GEOLOGICAL SURVEY  
In Cooperation with U. S. Geological Survey

9382

RECORD OF WELL


Location:

Town: JESUP (NE) (SW) : County BUCHANAN  
NW NE NE sec. 31 T. 89 N., R. 10 W. Twp.

Well name and number \_\_\_\_\_

Owner JESUP TOWN WELL #2 Address \_\_\_\_\_  
(1957)

Tenant \_\_\_\_\_ Address \_\_\_\_\_

Contractor HOEG & AMES Address LINCOLN, IOWA

Drillers \_\_\_\_\_

Drilling dates NOV. 25 - DEC. 27, 1957

Well data:

Altitudes: Drilling curb \_\_\_\_\_ feet; Land surface 979' feet

Determined by Altimeter (J.G. Kling) Summer 1966

Topographic position UPLAND

Total depth: Reported 380' feet, Measured \_\_\_\_\_ feet

Drilling method CABLE TOOLS

Hole and casing data 207' OF 10" CASING 0-207'

10" OPEN HOLE 207'-380'

Original depth to water 74' above ft. below \_\_\_\_\_ Date \_\_\_\_\_

Source of data \_\_\_\_\_

Sources of water: Principal \_\_\_\_\_

Others \_\_\_\_\_

Production Data

Date \_\_\_\_\_  
 Static water level 74  
 Measuring point \_\_\_\_\_  
 Pumping water level 167  
 Yield (g. p. m.) 182  
 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<sub>2</sub>) \_\_\_\_\_  
 Iron (Fe) \_\_\_\_\_  
 Manganese (Mn) \_\_\_\_\_  
 Calcium (Ca) \_\_\_\_\_  
 Magnesium (Mg) \_\_\_\_\_  
 Potassium (K) \_\_\_\_\_  
 Sodium (Na) \_\_\_\_\_  
 Carbonate (CO<sub>3</sub>) \_\_\_\_\_  
 Bicarbonate (HCO<sub>3</sub>) \_\_\_\_\_  
 Sulfate (SO<sub>4</sub>) \_\_\_\_\_  
 Chloride (Cl) \_\_\_\_\_  
 Fluoride (F) \_\_\_\_\_  
 Nitrate (NO<sub>3</sub>) \_\_\_\_\_  
 Dissolved solids \_\_\_\_\_  
 Hardness (as CaCO<sub>3</sub>) \_\_\_\_\_  
     Total \_\_\_\_\_  
     Grains per gallon \_\_\_\_\_  
     Noncarbonate \_\_\_\_\_  
 Alkalinity (as CaCO<sub>3</sub>) \_\_\_\_\_  
 pH \_\_\_\_\_  
 Specific conductance \_\_\_\_\_  
     (micromhos at 25°C) \_\_\_\_\_  
 Temperature (°F) \_\_\_\_\_  
 Analysis No. \_\_\_\_\_

Laboratory Data

Well No. 9382 Sample range 0-380 No. of samples 77  
 No. of dupls. and cond. 75 Good Washed range 40-380  
 Samples prepared by R. Valentine Date 13/1/58  
 Logged by NORTHUP Date 11/7/58  
 Correlations by " Date 11/7/58



# HOEG & AMES, Inc.

WELL CONTRACTORS

WELL SUPPLIES

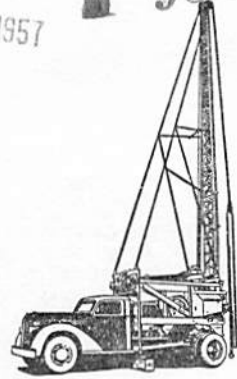
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LINCOLN, IOWA

## LOG OF WELL

JAN -2 1957

9382



### TOWN OF JESUP, IOWA - WELL NO. 2

Total depth of well - 380 ft.

Static water level - 74 ft.

93 ft. drawdown, pumping at 182 gal. per min.

Drilled 16 in. hole to 45 ft.

Drilled 12 in. hole to 207 ft.

Set 209 ft. of 10 in. pipe

Cemented top 45 ft. and pulled 16 in. temporary pipe out.

Treated well with 550 gal. of acid.

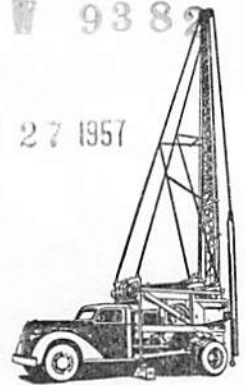
Started well November 25, 1957

Finished well December 27, 1957

#### Formation:

Black drift	0-2	Ft.
Yellow clay	2-30	Ft.
Blue clay	30-35	Ft.
Yellow clay	35-40	Ft.
Brown limestone	40-55	Ft.
Gray limestone	55-60	Ft.
Brown limestone	60-80	Ft.
Gray limestone	80-100	Ft.
Brown limestone	100-140	Ft.
Gray limestone	140-165	Ft.
Gray shale	165-175	Ft.
Brown limestone	175-190	Ft.
Brown limestone, some brown shale bands	190-200	Ft.
Brown limestone, good	200-300	Ft.
Light gray limestone	300-340	Ft.
Brown limestone	340-360	Ft.
Gray limestone	360-370	Ft.
Brown limestone, some shale	370-375	Ft.
Gray shale	375-380	Ft.

DEC 27 1957



# HOEG & AMES, Inc.

WELL CONTRACTORS      WELL SUPPLIES

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LINCOLN, IOWA

TOWN OF JESUP - WELL NO. 2  
TOTAL DEPTH OF WELL 340 FT.

DECEMBER 17, 1957

<u>TIME</u>	<u>DRAWDOWN</u>	<u>WATER LEVEL</u>	<u>GAL. PER MIN.</u>	<u>REMARKS</u>
9:10 A.M.		74		Started pump
9:12	36	110		
9:15	52	126		Pump stopped, carburator iced up
9:25				Started pump
9:30	72	146	196	
9:35	88	162		water almost clear
9:40	93	167		Water clear
9:45	96	170	190	
9:50	97	171	190	
9:55	97	171		Water clear
10:00	98	172		
10:15	101	175		
10:30	103	177		
10:45	104	178		
11:00	104	178	190	Water clear
11:05				Slowed pump
11:10	64	138	125	
11:15	56	130		
11:20	54	128		
11:30	54	128	125	Water clear
11:45	54	128		
12:00 P.M.	54	128		
12:20	54	128	125	Stopped pump

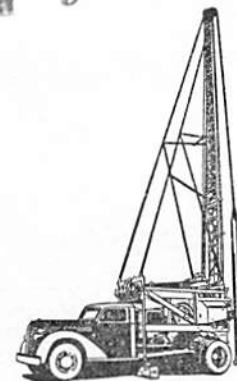


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WELL CONTRACTORS      WELL SUPPLIES

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LINCOLN, IOWA



TOWN OF JESUP - WELL NO. 2  
TOTAL DEPTH OF WELL - 380 FT.

DECEMBER 23, 1957

<u>TIME</u>		<u>DRAWDOWN</u>	<u>WATER LEVEL</u>	<u>GAL. PER MIN.</u>	<u>REMARKS</u>
1:05	P.M.	20	74		Start ed pump
1:10		101	175	265	Slowed pump
1:15		56	130		Water dirty
1:20		64	138	145	
1:25		66	140		Water clearing
1:30		66	140	145	Water clearing
1:40		66	140		
1:50		66	140		Water almost clear
2:00		66	140	145	
2:10		66	140	145	Water clear
2:25		66	140	145	Speed up pump
2:30		72	146	165	
2:45		74	148	165	
3:00		75	149		Water clear
3:15		76	150		
3:30		76	150		Water clear
3:45		76	150		
4:00		76	150	165	Speed up pump
4:15		92	166	182	
4:30		93	167		
4:45		93	167	182	Water clear
5:00		93	167		
5:30		93	167		
6:00		93	167	182	
7:00		93	167		
7:45		93	167	182	Took water sample
8:00		93	167	182	Shut off pump