

DATE STARTED 11-7-52

DATE COMPLETED

4/2/53

DEPTH 1952'

DIAMETER 250' of 24" hole from surface to 250'; 475' of 19 $\frac{1}{2}$ " hole from 250' to 725'; 1227' of 15 $\frac{1}{2}$ " hole from 725' to 1952'.

CASING RECORD 162' of 24" O.D. 3/8" drive pipe from surface to 162'; 249' 8" of 20" O.D. 3/8" liner from 162' to 411' 8"; 130' of 16" O.D. liner, shoes top and bottom, from 541' 8" to 725' 8".

STRATA RECORD

From	To	Thickness	Description of Beds
0'	13'	13'	Fill
13	20	7	Black silt
20	55	35	Red sand
55	155	100	Red sand, coarse to fine
155	158	3	Large boulders
158	175	17	Lime
175	200	25	Lime, light brown
200	212	12	Lime, brown
212	222	10	Gray lime
222	240	18	Limestone
240	303	63	Lime rock
303	448	145	" "
448	460	12	Sandstone
460	484	24	Lime rock
484	528	44	Sandstone
528	555	27	Lime rock
555	561	6	Lime, some red rock
561	625	64	Lime, pink
625	640	15	Red shale
640	693	53	Gray shale
693	699	6	Sandy shale
699	710	11	Red rock
710	717	7	Gray shale
717	872	155	Sandstone
872	890	18	Sandstone, streaks of shale
890	926	36	Sandstone
926	931	5	Shale, sandy
931	948	17	Shale
948	954	6	Broken lime & shale
954	982	28	Red rock
982	988	6	Green shale & rock
988	1006	18	Shale Red rock
1006	1024	18	Shale
1024	1085	61	Sandstone, hard
1085	1127	42	Limestone
1127	1128	1	Sandstone
1128	1153	25	Sand
1153	1293	40	Sandstone
1293	1334	41	Sandstone, pink

From	To	Thickness	Description of Beds
1334'	1352'	18'	Sandstone, Red
1352	1370	18	Sandstone, Pink
1370	1409	39	Sandstone, Red
1409	1505	96	" "
1505	1626	121	Sandstone, Pink
1626	1633	7	Sandstone, red
1633	1898	64	Sandstone, hard
1898	1952	54	Sandstone

WATER LEVELS:

From	0'	to	78'	-	None
"	78'	to	373'	-	13'
"	373'	to	484'	-	50'
"	484'	to	699'	-	43'
"	699'	to	731'	-	47'
"	731'	to	770'	-	42'
"	770'	to	842'	-	44'
"	842'	to	865'	-	46'
"	865'	to	890'	-	42'
"	890'	to	915'	-	50'
"	915'	to	931'	-	48'
"	931'	to	1078'	-	42'
"	1078'	to	1101'	-	46'
"	1101'	to	1128'	-	42'
"	1128'	to	1248'	-	47'
"	1248'	to	1277'	-	48'
"	1277'	to	1293'	-	49'
"	1293'	to	1326'	-	43'
"	1326'	to	1370'	-	51'
"	1370'	to	1436'	-	44'
"	1436'	to	1485'	-	45'
"	1485'	to	1489'	-	47'
"	1489'	to	1536'	-	52'
"	1536'	to	1555'	-	53'
"	1555'	to	1576'	-	47'
"	1576'	to	1618'	-	52'
"	1618'	to	1644'	-	55'
"	1644'	to	1677'	-	54'
"	1677'	to	1697'	-	51'
"	1697'	to	1721'	-	45'
"	1721'	to	1765'	-	48'
"	1765'	to	1791'	-	47'
"	1791'	to	1835'	-	39'
"	1835'	to	1853'	-	45'
"	1853'	to	1890'	-	47'
"	1890'	to	1898'	-	50'
"	1898'	to	1923'	-	36'
"	1923'	to	1952'	-	46'

7 1/2' Dubuque North Quad

089-28-24 DAAC

3/81 field located by Runkle In Cooperation with U. S. Geological Survey

IOWA GEOLOGICAL SURVEY

W 6042

RECORD OF WELL

Location: 15th and Sycamore Sts.

Town: Dubuque (NE) (SW) : County Dubuque

E. sec. 24 T. 89 N., R. 2 W. Twp.

Well name and number Dubuque Packing Co. #5

Owner Address

Tenant Address

Contractor Varner Well Co. Address

Drillers

Drilling dates 11/7/52 - 4/2/1953

Well data:

Altitudes: Drilling curb feet; Land surface 610 feet

Determined by

Topographic position

Total depth: Reported 1952 feet, Measured 1937 (tape) feet

Drilling method Cable Tool

Hole and casing data 250' of 24" hole 0-250'; 475' of 19 1/4" hole from 250-725';
1227' of 15 1/4" hole 725-1952'. 162' of 24" O.D. 3/8" drive pipe 0-162';
249' 8" of 20" O.D. 3/8" liner from 0-249' 8"; 130' of 16" O.D. liner,
shoes top and bottom, from 595'-725'

Original depth to water 42 ft. above below surface Date 4-22-53

Source of data Varner Well Co.

Sources of water: Principal

Others

Production Data

Date 4/22/53
 Static water level 42'
 Measuring point _____
 Pumping water level 154'
 Yield (g. p. m.) 1508
 Duration of pumping 72 1/3 hours
 Specific capacity _____

Pump Data

Type pump _____ Column diameter and length _____
 Cylinder or bowls diameter and length _____
 Suction pipe _____ Airline 200'
 Power _____ Production _____ g. p. m. for _____ hours per day
 Use of water Industrial

Dissolved constituents and properties (in parts per million except as indicated)

Date sampled _____
 Sampled by _____
 Silica (SiO₂) _____
 Iron (Fe) _____
 Manganese (Mn) _____
 Calcium (Ca) _____
 Magnesium (Mg) _____
 Potassium (K) _____
 Sodium (Na) _____
 Carbonate (CO₃) _____
 Bicarbonate (HCO₃) _____
 Sulfate (SO₄) _____
 Chloride (Cl) _____
 Fluoride (F) _____
 Nitrate (NO₃) _____
 Dissolved solids _____
 Hardness (as CaCO₃) _____
 Total _____
 Grains per gallon _____
 Noncarbonate _____
 Alkalinity (as CaCO₃) _____
 pH _____
 Specific conductance _____
 (micromhos at 25°C) _____
 Temperature (°F) _____
 Analysis No. _____

Laboratory Data

Well No. W 6042 Sample range 225-1950 Location EB5-78, 9, 10 + EB6-1, 2
 No. of dupls. and cond. 342 Good No. of samples 343
 Samples prepared by De Roma Washed range 225-1950
 Logged by CNBROWN Date 6/17, 18, 19/53
 Correlations by " AND NORRUP Date JAN. AND FEB. 1954
 Date JAN. AND FEB. 1954