



Production Data

Date \_\_\_\_\_  
 Static water level 197 \_\_\_\_\_  
 Measuring point \_\_\_\_\_  
 Pumping water level 251 \_\_\_\_\_  
 Yield (g. p. m.) 18.5 \_\_\_\_\_  
 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. W 7905 Sample range 0-475 No. of samples 91 EK3-4  
 No. of dupls. and cond. 91 Good Washed range 57-475  
 Samples prepared by Stone Date 8/14/56  
 Logged by NORTHUP Date 10/3/56  
 Correlations by " Date 10/3/56

MiLo (WARREN Co.)

4/23/56

Art Brunekool called me yesterday to report the New Town well at MiLo is believed to be complete at a depth of 475'. Brunekool requested help to conduct a pump test on this well Thursday - April 26.

The following data on the well was obtained:

7" casing set at 391'.

Top of Mississippian at 410'.

Well drilled to 420' - SWL 185' - Tested 20 gpm at 350' PL -  
water sample obtained.

Well drilled to 455' - Tested 20 gpm at 300' PL.

Well drilled to 475' - Tested 24 gpm at 275' PL.

Base of St. Louis at 475' (Brunekool).

JBC

7905

Name Mile town well No. 4 (1956)  
 Loc. NW 19-75N-22W, Warren Co.  
 T.D. 475'  
 Drilled Brainckool April 1956  
 Log W-7905 Northrup  
 Casing 393' of 7" csg. +2 to 391'

$$\frac{.25}{84} = .30 \times 10^{-2}$$

$$\begin{array}{r} .003 \\ 84 \overline{) .250} \\ \underline{252} \end{array}$$

Prod. data

SWL 177'  
 PWL 251'  
 Yield 18½ gpm  
 Main water 390-410

$$\begin{array}{r} 221 \\ 74 \overline{) 177} \\ \underline{148} \\ 290 \\ \underline{270} \end{array} \quad .25 \text{ sp } \uparrow$$

Water analyses: No. 21993 (4718) 4/27/56; No. 21995 (4720) 4/21/56

Some water from concept

ELEV<sup>PK</sup> 973-3

NIT USED NEVER CONNECTED SWL 11.54'  
 TO SYSTEM ONLY HAND PUMP NOW

Elev. 970

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Formation	<u>Depth</u>	<u>Top</u>	<u>Base</u>
St. Louis	405		

475  
391  
84

MILU

3 - APR - 92 MIN - 45 ABOVE - 2500 GAL MIN -  
NO IND OTHER THAN LOCKER  $\frac{2}{3}$  OF POP. USE  
THIS INFORMATION RECORDS SHALLOW WELLS

FRANK LIND NIMOUSE DRILLED PRESENT <sup>shallow</sup> WELLS THAT SUPPLY  
THE TOWN

# WELL RECORD

Well is located.....miles **N** and.....miles **N**  
**E** **E**  
W W

*Milo*..... in *Warren*.....  
(Nearest Town) (County)

in the  $\frac{1}{4}$  *NW*  $\frac{1}{4}$  Sec. *19* T. *75* R. *22*

Owner *Milo* Well No.....

Postoffice address *Milo*.....

Contractor *Art Brunson*.....

Address *Pella*.....

Driller *Art*.....

Well begun..... *4-13*....., 19*56*;

completed..... *4-21*....., 19*56*

Rig used—Cable, Rotary, Jet, or *cable*.....

Depth of well..... *475*.....  
(Feet)

Size of hole (note total amount of each size) *6 1/4*

Main water supply at..... *390-410*.....  
(Feet below surface)

Final water head.....  
(Feet above or below surface)

Is well pumped?.....

Yield.....  
(Gallons per minute)

Water level when pumping.....

Position of well *upland*.....  
(Upland, valley, side hill, etc.)

Date and Time	Water Level	SOURCE OF WATER		Production in Gallons per Minute	Pumping Level
		Depth	Type of Rock		
4-20	185	420		20	350
4-21	180	455		20	300
4-21		475		24	275
<i>Pumping test</i>					
4-26	176.8			14.4	236
				18.5	251

NOTE: Water levels should be recorded at time of change AND at regular intervals; for example each morning before drilling starts or at the end of each 100 feet of drilling.

### RECORD OF PERMANENT CASING

Size Pipe	Amount of Pipe	Depth to Bottom of Pipe	Depth to Top of Pipe	Type* and Weight of Pipe	DIAGRAM OF WELL
7" 60	398	391	24	17#	

\*As cast, wrought iron, steel, concrete, etc.

Is screen used?..... Diameter.....  
(Inches)

Length..... Depth to bottom.....  
(Feet)

Depth to top..... Slot size.....

Are packers or seals used?.....

Kind .....

Where used.....

Kind of pump..... Dia.....  
(Inches)

Capacity of pump.....  
(g.p.m.)

Power used.....  
(Kind and amount)

Depth to bottom of pump line.....feet,  
including .....feet tailpiece.

Remarks on construction of well.....

.....

Sample No.	DEPTH		THICKNESS
	From	To	
Box 10 Sandy at 59	0	5	
	5	10	
	10	15	
	15	20	
	20	25	
	25	30	
	30	35	
	35	40	
	40	45	
	45	50	
	50	55	
	55	59	
	59	65	
	65	75	
	75	80	
80	90		
90	100		

DESCRIPTION OF BEDS	
KIND OF ROCK, COLOR, HARD OR SOFT, WATER, ETC.	
top soil	
yellow clay	
gray	"
"	"
"	"
"	"
"	"
yellow clay sandy	shaly
gray shale	
"	"
Sandstone	No Sample
"	"
"	E.B. shale
"	"
"	"
"	"











8" 10

FOR FIGURING. CASING TALLY. ETC.

21	-	7	
19	-	2	
18	-	4	
18	-	4	
20	-	2	
20	-	11	
21	-	3	
21	-	4	
21	-	7	
20	-	9	
<hr/>			
203		5	53

FOR FIGURING. CASING TALLY. ETC.

cut 17# 7" OD at 391'