

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

W-7980

Location:

Town: PRINGHAR (NE) (SW): County O'BRIEN

SE NE SE sec. 36 T. 96 N., R. 41 ^{E.} W. Twp.

Well name and number _____

Owner CITY OF PRINGHAR Address _____

Tenant _____ Address _____

Contractor LAYNE-WESTERN Address _____

Drillers _____

Drilling dates AUGUST 1956

Well data:

Altitudes: Drilling curb _____ feet; Land surface 1521 feet

Determined by altimeter (Rohr + Toland)

Topographic position _____

Total depth: Reported 672 feet, Measured _____ feet

Drilling method ROTARY

Hole and casing data SCREEN 525'-625'

Original depth to water _____ above
ft. below _____ Date _____

Source of data _____

Sources of water: Principal _____

Others _____

Production Data

Date	_____	_____	_____	_____
Static water level	_____	_____	_____	_____
Measuring point	_____	_____	_____	_____
Pumping water level	_____	_____	_____	_____
Yield (g. p. m.)	_____	_____	_____	_____
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 7930	Sample range 50-670	No. of samples 120
No. of dupls. and cond. 120	Good	Washed range _____
Samples prepared by Steele & Wilkins	Date 8-20-56	5-6
Logged by NORTHUP	Date 8/21/56	
Correlations by _____	Date 8/21/56	

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

N 7930

Location:

Town: Pringhar (NE)
(SW): County O'Brien
E.
sec. T. N., R. W. Twp.

Well name and number Town at Pringhar 1956

Owner Address

Tenant Address

Contractor Layne Western Address Ames Iowa

Drillers ?

Drilling dates

Well data:

Altitudes: Drilling curb feet; Land surface feet

Determined by

Topographic position ?

Total depth: Reported 670 feet, Measured feet

Drilling method ?

Hole and casing data screen

Original depth to water above
ft. below Date

Source of data

Sources of water: Principal

Others

Production Data

Date	_____	_____	_____	_____
Static water level	_____	_____	_____	_____
Measuring point	_____	_____	_____	_____
Pumping water level	_____	_____	_____	_____
Yield (g. p. m.)	_____	_____	_____	_____
Duration of pumping	_____	_____	_____	_____
Specific capacity	_____	_____	_____	_____

Pump Data

Type pump	_____	Column diameter and length	_____
Cylinder or bowls diameter and length	_____		
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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 7980	Sample range 50-670	No. of samples 120
No. of dupls. and cond. 120 - Good	Washed range	
Samples prepared by Stoner Wilkins	Date 20 Aug 56	
Logged by NORTHUP	Date 8/20/56	
Correlations by	Date 8/20/56	

UNITED STATES DEPARTMENT OF THE INTERIOR

Geological Survey
Water Resources DivisionLocal Well No. 096-41W-36DADAquifer Code(s) KID1Water Quality
(ppm)Owner's Name PRIMGHAR CITY (1956)W Number 07930

Card Q

State: IOWA 1 9 County: O'BRIEN 7 1 Town: PRIMGHAR, IOWA

Latitude Longitude Seq. No. Date M D Y

Well No. 4 3 0 5 1 4 N 0 9 5 3 7 3 6 1 1 1 2 5 6 8

Sampling Depth 6 2 5 Type 1 Kx10⁶ 2 4 0 0 pH 7 0 Temp. °F 5 2

SiO₂ 2 4 1 Ca 3 1 2 Mg 9 7 1 Na 1 3 0 K 1 3 1

HCO₃ 4 3 7 CO₃ 0 SO₄ 1 0 5 0 Cl 2 1 1 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 6 NO₃ 2 PO₄ 1 1 B 1 1 Al 1 1 Fe 2 0 1

Mn 4 6 Cu 1 1 Pb 1 1 Zn 1 1

Solids 2 0 1 0 Calc. 1 1 8 0 Ca, Mg 1 1 8 0 Hardness Non-Carb. 8 2 2

Determined 2 0 1 0 1 1 8 0 8 2 2

Color 1 1 No. R

Card S

Duplicate Columns 1-25 from Card Q

Br 1 1 I 1 1 Alk. as CaCO₃ 3 5 8 Free CO₂ 1 1 SAR 1 1

RSC 1 1 ABS 1 1 1 1

Alpha (pc/l) 1 1 Beta (pc/l) 1 1 1 Ra (pc/l) 1 1 1 U (ug/l) 1 1

No. 5
80Recorded by: D. AARONSONPunched by: T Date: Published:

UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

096-414-36 DAD

KID

Pringhar town (1956)
W-7930

Water Quality
(ppm)

Card Q

State: Iowa 19 County: O'Brien 71 Town: Pringhar

Well No. 430514N 0953736 Seq. No. 1 Date 11/25/57

Latitude 430514N Longitude 0953736

Sampling Depth 625 Type 1 Kx10⁶ 2320 pH 7.3 Temp. °F

SiO₂ 22 Ca 316 Mg 93 Na 36 K 13

HCO₃ 434 CO₃ 0 SO₄ 1050 Cl 19 Source No. 3Q

Card R

Duplicate Columns 1-25 from Card Q

F 5 NO₃ 4 PO₄ B Al Fe 28

Mn 44 Cu Pb Zn

Solids 2080 Calc. Ca,Mg 1170 Hardness Non-Carb. 816

Color No. R

Card S

Duplicate Columns 1-25 from Card Q

Br I Alk. as CaCO₃ 356 Free CO₂ SAR

RSC ABS

Alpha (pc/l) Beta (pc/l) Ra (pc/l) U (ug/l)

No. 5
80

Recorded by: P.J. Horick

Punched by: Punched FCH Date:
Published: Verified ERC

UNITED STATES DEPARTMENT OF THE INTERIOR
Geological Survey
Water Resources Division

096-91W-36 DAD

KIDP

Pringhar town (1956)
W-7930

Water Quality
(ppm)

Card Q

State: <u>Iowa</u>	1 <u>9</u> 2	County: <u>O'Brien</u>	3 <u>7</u> 4 <u>1</u>	Town: <u>Pringhar</u>
Well No.	Latitude <u>430514N</u>	Longitude <u>0953736</u>	Seq. No. <u>1</u>	Date <u>032762</u>
Sampling Depth	<u>625</u>	Type <u>1</u>	Kx10 ⁶ <u>2260</u>	pH <u>7.2</u>
SiO ₂	<u>24</u>	Ca <u>300</u>	Mg <u>92</u>	Na <u>126</u>
HCO ₃	<u>442</u>	CO ₃ <u>0</u>	SO ₄ <u>991</u>	Cl <u>19</u>

Card R

Duplicate Columns 1-25 from Card Q

F	<u>0.4</u>	NO ₃	<u>0.1</u>	PO ₄	<u>0.1</u>	B	<u>0.1</u>	Al	<u>0.1</u>	Fe	<u>7.4</u>
Mn	<u>0.60</u>	Cu	<u>0.1</u>	Pb	<u>0.1</u>	Zn	<u>0.1</u>	Hardness			
Determined	<u>2000</u>	Calc.	<u>0.1</u>	Ca, Mg	<u>1130</u>	Non-Carb.	<u>768</u>	Color			
No. <u>R</u>											

Card S

Duplicate Columns 1-25 from Card Q

Br	<u>0.1</u>	I	<u>0.1</u>	Alk. as CaCO ₃	<u>362</u>	Free CO ₂	<u>0.1</u>	SAR	<u>0.1</u>
RSC	<u>0.1</u>	ABS	<u>0.1</u>	Ra (pc/l)	<u>0.1</u>	U (ug/l)	<u>0.1</u>		
Alpha (pc/l)	<u>0.1</u>	Beta (pc/l)	<u>0.1</u>						

No. 5
80

Recorded by: P. J. Horick

Punched by: Punched FCH Date:
Published: Verified ERC