

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

W-2310

RECORD OF WELL

Location:

Town: Ireton

( N E )  
( S W ): County Sioux

E.

SE 1/4 NE 1/4 SE 1/4 sec. 7 T 94 N., R. 46 W. Reading Twp.



Well name and number Ireton Town Well (1946)

Owner Town of Ireton

Address

Tenant

Address

Contractor Howard Rasmussen

Address

Drillers R. P. Ivey

Drilling dates Finished February, 1946

Well data:

Elevations: Drilling curb \_\_\_\_\_ feet; Land surface 1435 feet

Determined by Aneroid by W. E. Hale

Topographic position Hilltop

Total depth: Reported 543 feet; Measured \_\_\_\_\_ feet

Drilling method Cable tool

Hole and casing data 267' 8" of 8-inch black pipe from +1' to 266' 8"

242' 4" of 6-inch pipe from 266' 8" to 503'. Lead seal  
between 6 + 8 inch pipe 12-inches long and set as coupling on 6-inch pipe. There  
is about 1 1/2 feet of 6-inch pipe above the 6-inch coupling

Original depth to water <sup>above</sup> 263.47 ft. below Top of 8" pipe Date \_\_\_\_\_

Original elevation of water level \_\_\_\_\_ ft.; Source of data \_\_\_\_\_

Sources of water: Principal Cretaceous; Others \_\_\_\_\_



Production data:

Date Feb. 1946

Static depth to water 263.47'

Measuring point Top of 8-inch pipe 1.0' above Land Surface

Pumping level 290'

at 80 g.p.m.

Specific capacity \_\_\_\_\_ g.p.m. per ft. drawdown; Temperature \_\_\_\_\_ °F.

Pump data: Type pump \_\_\_\_\_ Column Dia. \_\_\_\_\_ Length \_\_\_\_\_

Cylinder or bowls: Dia. \_\_\_\_\_ Length \_\_\_\_\_ Suction pipe \_\_\_\_\_

Power \_\_\_\_\_ Airline \_\_\_\_\_

Estimated rate of production: \_\_\_\_\_ g.p.m. for \_\_\_\_\_ hrs. a day

Use of water \_\_\_\_\_

### WATER ANALYSES (in parts per million)

Date samples	_____	_____	_____	_____
Sampled by	_____	_____	_____	_____
Total solids	_____	_____	_____	_____
Insoluble matter	_____	_____	_____	_____
Alkalinity (Meo)	_____	_____	_____	_____
Alkalinity (Phn)	_____	_____	_____	_____
pH	_____	_____	_____	_____
Fe <sub>2</sub> O <sub>3</sub> + Mn <sub>2</sub> O <sub>3</sub> +Al <sub>2</sub> O <sub>3</sub>	_____	_____	_____	_____
Alkali as sodium	_____	_____	_____	_____
Calcium	_____	_____	_____	_____
Magnesium	_____	_____	_____	_____
Iron (unfiltered)	_____	_____	_____	_____
Manganese	_____	_____	_____	_____
Nitrate	_____	_____	_____	_____
Fluoride	_____	_____	_____	_____
Chloride	_____	_____	_____	_____
Sulfate	_____	_____	_____	_____
Bicarbonate	_____	_____	_____	_____
Hardness (ppm)	_____	_____	_____	_____
Hardness (gpg)	_____	_____	_____	_____
Remarks	_____	_____	_____	_____

Laboratory data:

Sample storage location \_\_\_\_\_

Sample range 0-543 No. spls. 109 No. dupls. & cond. 107 P-G

Spls. prepared by EJP+PJH Washed range 180-543 by EJP+PJH

Driller's log and cond. \_\_\_\_\_

Insoluble residues: Prepared by \_\_\_\_\_ Studied by \_\_\_\_\_ Strip log \_\_\_\_\_

Microscopic study 0-543 Ed. strip log May 1946 Ed.

Gen. log \_\_\_\_\_ Correl. by E. Schultz



# THORPE WELL COMPANY

2340 SIXTH AVENUE  
DES MOINES, IOWA

From  
General  
Data Folder

Drilled for City Water Works at Ireton, Iowa

Well is located \_\_\_\_\_ miles N-E-S-W and \_\_\_\_\_ miles N-E-S-W from \_\_\_\_\_

in the \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 Section 7 Township 94N Range 76W

Drilling started 10-31 1966 Completed 3-8 1967

Well No. 2 Kind of Well Gravel Pack Depth 570 Size hole started 5 5/8 in

Finish 10 G. P. M. 178 Static Head 252 Pumping level from surface 308'

Water was first encountered at \_\_\_\_\_ in \_\_\_\_\_ Approx. Amt. \_\_\_\_\_ Temp. \_\_\_\_\_

Remarks \_\_\_\_\_

(GIVE DETAILS OF PERFORATED PIPE AND SEALS)

RECORD OF PERMANENT PIPE					TEMPORARY PIPE	
SIZE PIPE	AMOUNT OF PIPE	DEPTH TO BOTTOM OF PIPE	DEPTH TO TOP OF PIPE	MAKE OF PIPE	SIZE PIPE	AMOUNT
10"	400	400	0			
6"	150	530'	380'	19# Welded		
4" ID	40' S/SS Screen	570	530	S/S .035 Slot	Attached to 6" Pipe	
	Gravel packed with No.1 Northern Gravel					

Driller Bob Wall From Surface to \_\_\_\_\_ feet

Driller Gene Skellenger From \_\_\_\_\_ feet to \_\_\_\_\_ feet

Driller Max Smith From \_\_\_\_\_ feet to \_\_\_\_\_ feet

AMOUNT IN FEET	KIND OF SOIL OR FORMATION (BE SPECIFIC)	TOTAL DEPTH FEET
<u>1</u>	<u>Top Soil</u>	<u>1</u>
<u>44</u>	<u>Brown Clay</u>	<u>45</u>
<u>71</u>	<u>Gray Clay</u>	<u>116</u>
<u>3</u>	<u>Med Sand &amp; Gravel</u>	<u>119</u>
<u>31</u>	<u>Gray Clay</u>	<u>150</u>
<u>15</u>	<u>Fine to Med. Sand</u>	<u>165</u>
<u>5</u>	<u>Gray Clay</u>	<u>170</u>
<u>35</u>	<u>Very Fine Sand with Clay</u>	<u>205</u>
<u>38</u>	<u>Gray Clay</u>	<u>243</u>
<u>100</u>	<u>Shale &amp; Sandstone</u>	<u>343</u>
<u>37</u>	<u>Sandstone with some Shale</u>	<u>380</u>
<u>25</u>	<u>Sandstone</u>	<u>405</u>
<u>35</u>	<u>Sandstone</u>	<u>440</u>
<u>30</u>	<u>Sandstone with some Lime streaks</u>	<u>570</u>

# WATER WELL HISTORY.

IRETON, IOWA.

Well # 1 which was located at 6th. & Main (swsme 7 - 94 - 46) was drilled to a depth of 174 feet by in 1912. The contractor was Mr. Henry Herrin of Lemars. In 1938 his son Mr. Louis Herrin of Hawarden reworked the well which included the installation of a 3 inch galvanized screen inside the corroded 18 feet by 6 inch screen. The well was abandoned in 1941.

Water mains and tower were placed in service during 1918 - 1919.

Well # 2 which was located approximately 20 feet north of well # 1 was constructed by the Peck Foundry of Lemars in the fall of 1935 and abandoned in 1949. The following data was abstracted from the files of the Iowa Geological Survey.

I. G. S. well no. W - 0345.	Elevation - curb 1430 feet above S. L.
Final depth 538 feet.	Static water level ( depth to water
Pumping level ? @	below curb ). 265 feet.
70 G. P. M.	

Casing record: 256 feet of 8" from 0' - 256'; 256' of 6" from 254' - 510'  
and 29' 5" pipe perforated from 509' - 538'

Top of Dakota sandstone - 510'.

Well # 3 is located in the extreme southeast corner of the town (senese 7 -94 -46 ). The Rasmussen Well and Pump Co. of Sioux City completed the construction of this well in Feb. 1946. The following information is from the files of the Survey.

I. G. S. well no. W- 2310.	Elevation - curb 1435 feet above S. L.
Final depth 543 feet.	
Static water level 263.5 feet.	Pumping level 290 feet @ 80 G. P. M.

Casing record: 267'-8" from 1' to 266'-8";  
242'-4" of 6" from 260'-8" to 503' with 6" X 8" lead seal.

Top of Dakota sand - 495'.

P. J. Juffer. City Clerk.



Sheet No. 1 Name of Well. RETON Survey No. W-2310.

Location SIOUX Date Drilled Analyst F. Schultz

200

Till bff ex calc. sdy (20) v. few pbls

10

Till lt. gr - bff calc. sdy to slty (35)

Till bright bff few pbls 5mm diam

20

Sh med/drk gr unct v. thinly lamin non-calc. (some cave)

Sh med gr mostly dull III calc.

30

Sh med-drk gr sltly unct IIII calc

Sh med-drk gr sltly unct III calc (some Pleist. cave)

40

Sh med gr (little yellow sh inter 1070) highly calc. IIIII

Sh med gr dull highly calc. IIIII

50

a.a. LS 3-570 <sup>amber</sup> Inoceramus yel fibr. soft calc. transl.

Sh med-drk gr unct to dull IIII highly calc. sltly sdy. little hema?

60

a.a. LS yel transl fibr. brd xln. little gyp.

Sh med gr unct highly calc. no struc.

70

Sh med gr dull highly calc flky LS tr a.a. tr. coal v. few pieces

Sh med-drk gr unct lamin IIII v. calc. flky

80

Sh med gr lamin brd III calc.

Sh gr-ben unct irreg IIII highly calc. LS 22 570 ±

90

Sh med gr thinly lamin IIII v. calc. LS 1570

a.a. LS 1070

100



Location Date Drilled Analyst F. S. Schultz

300

Sh med gr unct lamin III v. calc

10

Sh med gr dull III highly calc. irreg ls 5% 5%

Sh med-drk gr unct III highly calc. ls 1-2%

20

Sh med gr unct-dull

XX

Sh med gr dull III v. calc

30

Sh med gr dull III calc

xln subtrans)  
ls yel. calcitic

aa f (30% same) unct non-calc

40

Sh med gr irreg dull non-calc to v. sltly calc

X

aa II sdy to slty

50

Sh med gr. dull sub-lamin noncalc; 20% irreg calc; Calcite aa

'

Sh med gr dull v. sltly calc irreg ls 5%? crm v.f. xln

60

Ss wht v. little yel f.v.f. a-c pit to pd. Sh 10% drk gr lamin

Sh drk gr brd lamin noncalc

70

XXX

Sh med-drk gr soft irreg sltly calc in part) Limonite

X

Sh med gr soft noncalc slty same lamin (30%) sls. 20%

35-65

80

Ss + sls gr-wht v.f. a. mica argill. interf bed with drk gr lamin sh.

X

Sh med gr dull limon. little ls?

90

XXx

Sh med gr, slty. -interbed ss v.f. a. limon 5%

X

Lignite little (10-20) gr sh.

100

Sh brn-gr soft non calc. (Lignite - 10% cave?)



Location Date Drilled Analyst Schultz

400

Sh lt tan-gr soft irreg, silty (Liq s/cave)

10

Sh brn-gr dull soft irreg III V. sdy - v.f.

2.2

III

20

Sh lt brn-gr dull soft irreg III sdy - v.f.

Sh lt gr dull irreg

30

X

Sh lt gr dull v. sdy III

Liq 1-2%

X

Ss 60% med G. pit wht sh 40% lt gr dull siderite brn hrd 2% =

40

Ss wht few yd grains, pit, pol med a-c. some f. dirty

2.2

V. dirty

med & f. to silt

50

Ss 70% 2.2 (argil) sh 30% lt gr dull

med 35% f. 20 v.f. 15 silt 5%

X

Ss 75% 2.2 clean sh 25% lt gr

60

X

Sh lt gr dull Ss 20% f. a

Siderite 5%

Sh 60% lt gr dull sdy Ss 40% wht. f. a Coal 5% blk

70

X

Sh lt gr dull v. sdy III

Sh lt gr v. sdy III Ss 30% wht free med & f.

80

Sh lt gr v. stly unct.

(sd cave)

Sh lt gr unct platy

90

80%

Ss free 20% ±

Sh lt gr. sdy II

Sh blk 5%

00

X

Ss gr-whit med-f. 40-60% v. dirty

Sh blk 5%

Sheet No. 4 Name of Well. . . . . Survey No. W-2310

Location . . . . . Date Drilled. . . . . Analyst Schultz

500

1

ss wht & pink a-c pit med 85 f 107 v.f. 57

10

1

med 9070 f + v.f. 1070

x

med 9070 f. 570 v.f. 570

20

ti

x

"

30

1

less

less fine

40

crsc 570 med 9070 f. 570

Pyrite sd embedded

50

60

70

80

90

00



## UNITED STATES DEPARTMENT OF THE INTERIOR

Geological Survey  
Water Resources DivisionLocal Well No. 094-46W-07DADAquifer Code(s) K1D2Water Quality  
(ppm)Owner's Name IRETON TOWN WELL #3 (1946)W Number 2310

Card Q

State: IOWA 1 9 County: SIOUX 8 4 Town: IRETON, IOWA

Well No. 4 2 5 8 2 0 N Latitude Longitude Seq. No. 1 Date 0 9 1 2 6 6

Sampling Depth 5 4 3 Type 1 Kx10<sup>6</sup> 1 6 0 0 pH 7 2 Temp. °F 5 8

SiO<sub>2</sub> 3 0 Ca 1 7 6 Mg 7 3 Na 7 6 K 1 2

HCO<sub>3</sub> 4 0 7 CO<sub>3</sub> 0 SO<sub>4</sub> 5 5 0 Cl 5 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 5 NO<sub>3</sub> 1 PO<sub>4</sub> 1 B 1 Al 1 Fe 1 9

Mn 1 9 Cu 1 9 Pb 1 9 Zn 1 9

Solids 1 9 0 Hardness 7 4 0 Non-Carb. 4 0 6

Determined 1 1 9 0 Calc. 1 9 0 Ca, Mg 7 4 0

Color 1 9 No. R

Card S

Duplicate Columns 1-25 from Card Q

Br 1 9 I 1 9 Alk. as CaCO<sub>3</sub> 3 3 4 Free CO<sub>2</sub> 1 9 SAR 1 9

RSC 1 9 ABS 1 9 0 6

Alpha (pc/l) 1 9 Beta (pc/l) 1 9 Ra (pc/l) 1 9 U (ug/l) 1 9

No. S  
80Recorded by: D. AARONSONPunched by: T Date: \_\_\_\_\_

Published: \_\_\_\_\_



UNITED STATES DEPARTMENT OF THE INTERIOR  
Geological Survey  
Water Resources Division

094-46V-07DAD  
KDD

Ireton town (1946)  
W-2310

Water Quality  
(ppm)

Card Q

State: Iowa 16 County: Sioux 84 Town: Ireton

Latitude Longitude Seq. No. Date

Well No. 425820N 0961846 1 051359

Sampling Depth 535 Type 1 Kx10<sup>6</sup> 1290 pH 7.3 Temp. °F     

SiO<sub>2</sub> 26! Ca 186! Mg 62! Na 66! K 14!

HCO<sub>3</sub> 407 CO<sub>3</sub> 0 SO<sub>4</sub> 534! Cl 3.5 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 16 NO<sub>3</sub> 14 PO<sub>4</sub>      B      Al      Fe 192

Mn 21 Cu      Pb      Zn     

Solids      Ca, Mg 744 Hardness Non-Carb. 410

Determined 1170 Calc.      Ca, Mg 744 Carb. 410

Color      No. R

Card S

Duplicate Columns 1-25 from Card Q

Br      I      Alk. as CaCO<sub>3</sub> 334 Free CO<sub>2</sub>      SAR     

RSC      ABS               

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

No. S  
80

Recorded by: P.J. Horick

Verified PMJ  
Punched FCH  
Punched by:      Date:     

Published:



UNITED STATES DEPARTMENT OF THE INTERIOR  
Geological Survey  
Water Resources DivisionIreton town (1946)  
W-2310Water Quality  
(ppm)

Card Q

State: Iowa 16 County: Sioux 84 Town: Ireton

Well No. 425820N 0961846 Seq. No. 1 Date 030354

Sampling Depth 543 Type 1 Kx10<sup>6</sup> 1120 pH 7.6 Temp. °F     

SiO<sub>2</sub>      Ca 175 Mg 67 Na 62 K 13

HCO<sub>3</sub> 390 CO<sub>3</sub> 0 SO<sub>4</sub> 526 Cl 60 Source No. 3 Q

Card R

Duplicate Columns 1-25 from Card Q

F 16 NO<sub>3</sub> 10 PO<sub>4</sub>      B      Al      Fe 23

Mn 20 Cu      Pb      Zn     

Solids      Hardness     

Determined 1130 Calc.      Ca, Mg      Non-Carb.     

Color      No. R

Card S

Duplicate Columns 1-25 from Card Q

Br      I      Alk. as CaCO<sub>3</sub>      Free CO<sub>2</sub>      SAR     

RSC      ABS          

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

Verified PMJ

No. S  
80Recorded by: P.J. HorickPunched by: Punched PCH Date:     Published:



G-W

September 18, 1945

Mayor B. D. Holdorf  
Ireton, Iowa

Dear Mayor Holdorf:

In response to your telephone call of September 12 a brief forecast has been prepared for a new town well at Ireton.

The formations to be encountered in drilling at Ireton are glacial drift, composed of yellow and blue or gray clay containing some sand and gravel; and bedrock made up of a clay-like shale and sandstone of the Dakota formation.

We have some information on two town wells which have been in use in Ireton in recent years. The earlier one obtained water from sand in the glacial drift at a depth of 168 feet. A copy of the report of the chemical analysis of the water is enclosed. The hardness of 82 grains per gallon is high and the water is so highly mineralized that it would probably be unsatisfactory for a town supply.

The more recent well drilled in 1935 is 538 feet deep and taps the Dakota sandstone. It is reported that the water stood at a depth of 265 feet below the surface of the ground when the well was drilled and that 50 gallons per minute were produced. We do not have a mineral analysis of the water from this well but it is believed that it is softer and less highly mineralized than water from the sand at a depth of 168 feet. Probably it has a mineral content similar to that of the Oak Grove State Park well, the analysis report of which is enclosed showing a hardness of 36 grains per gallon.

In the 538-foot well glacial material composed of yellow and blue or gray clay containing sand, gravel and boulders mixed with it was found from the surface to a depth of 215 feet. Two sand beds were encountered, one from 165 to 168 feet, the other from 172 to 200 feet in depth.

Bedrock was found at a depth of 215 feet. It is composed of a clay-like shale which continues to a depth of 515 feet. Several sandstone beds were found in this interval, but they were reported to contain shaly material. Unfortunately no samples of the formations encountered were saved. Sandstone was encountered between 515 and 538 feet in depth and it is from this unit that the water is obtained.

9/18/45

A new well should reach this same water-bearing sandstone at the same depth if started at the same elevation as the present well. If started on lower ground the sandstone should be reached at a depth shallower by the amount of the difference in starting elevation.

It is unlikely that a new well would encounter water of a different quality from that found in the wells which the town has already drilled unless it be drilled considerably deeper. Little is known about ground water conditions in the rocks below the Dakota formation. Wells at Orange City and Hull extended below the Dakota but apparently little water was obtained from the lower horizons.

In some towns in northwestern Iowa water is obtained from very shallow wells in stream valleys. The capacity of such wells generally depend upon the drainage area of the stream. It seems doubtful that Indian Creek, which passes through Ireton, has enough drainage area to yield an underground supply sufficient for the town. Water from this source would probably have to be chlorinated and would be affected by the amount of rainfall in the drainage area.

It appears that the best possibility for a new well is from the sandstone that you have been using.

I am making this report in writing because our staff is very small and we attempt to save as much traveling time as possible. If, after you have read the report, you have questions that cannot be answered by letter please let me know and we will arrange to have one of our staff call in person to discuss your situation.

I will appreciate it if you will request the driller to save a log and samples of the well cuttings for us. Under separate cover sample sacks and a log book are being sent to you. The samples and log will form a permanent part of our records and will be helpful in our work on the geology and water resources in the state, particularly in Sioux County.

Very truly yours,

hgh'm

H. G. Hershey



G-W

September 18, 1945

Mr. Howard Rasmussen  
Rasmussen Well Co.  
4225 Floyd Avenue  
Sioux City, Iowa

Dear Mr. Rasmussen:

About a week ago Mr. B. D. Holdorf the Mayor of Ireton called me by telephone and asked for information on the geology and ground water possibilities at Ireton. At that time he told me that you were to drill a new well for the town and would start in about 10 days. He informed me that the supply in the present well was failing and that you had recommended that the new well be drilled before an attempt was made to repair the old well.

In response to Mayor Holdorf's request we prepared a forecast and a copy of it is enclosed for your use. I have not indicated to Mayor Holdorf that you were receiving a copy. If you have any suggestions or note any corrections that should be made in my letter I will appreciate hearing from you very much.

I hope that you will find it possible to save us a good set of samples from any drilling that you do at Ireton. They will be very helpful to us.

Sincerely yours,

hgh'm

H. G. Hershey

Ireton, Sioux County

The failure of your present Dakota well may be attributed to one of several causes:

1) the water supply of the sandstone may actually be depleted, 2) the <sup>openings between the sand grains of the</sup> sandstone wall (or in the screen if present) may have become filled by iron or carbonate cement, 3) sand may have run into the well and partially filled it, 4) there may be a break in the casing allowing foreign material into the well. Of these possibilities the first seems very unlikely but any <sup>or more</sup> one of the other three are highly probable. There is a good chance that these last three conditions could be remedied and the well repaired.

However, it would seem advisable to make sure of another source of water supply before attempting to recondition the present well.



Punched FCH  
Verified PMJ

U. S. DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Water Resources Division Well Schedule Form

MASTER CARD

Record by P. J. Horick Source of data Files Date 4/1/65 Map H. & T.

State Iowa 116 County Sioux 84

Latitude: 42° 58' 20" N Longitude: 096° 18' 46" W Sequential number: 7

Lat-long accuracy: 2 T. 94 S. R. 46 Sec. 7 SE. NE. SE. 5 PM

Local well number: 09446W07198 Other number: W-2310

Local use: 023101 CITY 3 Owner or name: TOWN OF IRETON

Owner or name: IRETON Address: Ireton, Iowa

Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist M

Use of water: (A) Air cond, (C) Comm, (D) Dewatering, (F) Fire, (H) Dom, (I) Irr, (P) Ind, (S) Stock, (T) Instit, (U) Unused P

Use of well: (A) Anode, (D) Drain, (G) Seismic, (O) Obs, (P) Oil-gas, (R) Recharge, (S) Spring, (T) Test, (U) Unused, (W) Withdraw, (X) Waste, (Z) Destroyed W

DATA AVAILABLE: Well data 1 Freq. W/L meas.: INVENTORY Field aquifer char. 0

Hyd. lab. data: COMPLETE

Qual. water data: type: INTERMITTENT Pumpage inventory: yes 1 no: period: 75

Aperture cards: 6

Log data: GEOLOGIST LOG

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 543 ft 543 Meas. 6

Depth cased: 503 ft 503 Casing type: STEEL Diam. 8 in 8

Finish: (C) porous gravel w. gravel w. horiz. open (F) concrete, (perf.), (screen), gallery, end, (H) open perf., (S) screen, ad. pt., shored, (W) open hole, (X) other (Z) other

Method: (A) air bored, (B) cable, (C) dug, (D) hyd jacked, (E) air reverse trenching, (F) driven, (G) drive wash, (H) rot., (I) percussion, (J) rotary, (K) other

Date Drilled: FEB. 1946 9:46 Pump intake setting: 36 ft 38

Driller: Rasmussen Well Co. Sioux City, Iowa

Lift: (A) air, (B) bucket, (C) cent, jet, (D) multiple, (E) multiple, (F) none, (G) piston, (H) rot., (I) submerg, (J) turb, (K) other (Z) other

Power: (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. 41 Trans. or meter no. 40

Descrip. MP LSD above ft below lsd, Alt. MP 1435

Alt. LSD: 1435 1435 Accuracy: ALTIMETER 7

Water Level: 263.5 ft above below MP; Ft below lsd 264 Accuracy: DRILLER'S LOG 3

Date meas: FEB. 1946 246 Yield: 80 gpm 80 Method determined 61

Drawdown: 27.5 ft 28 Accuracy: 3 Pumping period 60 hrs 60

QUALITY OF WATER DATA: Iron 192 ppm Sulfate 534 ppm Chloride 3.5 ppm Hard. 744 ppm

Sp. Conduct 1290 K x 10 5 Temp. 55.9

Taste, color, etc.





Forecast Ireton

~~1433~~ Elev 1433

50 gpm

swl 265

68

2

K

36

3

3

4

6

TD 538

6