

#17836

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

Location: 700' N. OF SPAULDING BANK WELL #1  
Town: SIoux City (NE) County WOODBURY  
(SW)  
SE NW SE SE Sec. 35, T. 89, N.    , R. 17 (W)     Twp.


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

Owner CITY OF SIoux CITY TEST Address SIoux City, Iowa  
(1965)

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

Contractor LAYNE-WESTERN Co. Address OMAHA, NEBR.

Drillers DON OSEKA

Drilling dates MARCH 20, 1965

Well data:  
Altitudes: Drilling curb \_\_\_\_\_ feet; Land surface 1160 feet

Determined by \_\_\_\_\_

Topographic position \_\_\_\_\_

Total depth: Reported 397 feet; Measured \_\_\_\_\_ feet

Drilling method \_\_\_\_\_

Hole and casing data \_\_\_\_\_

Original depth to water \_\_\_\_\_ feet. above \_\_\_\_\_ below \_\_\_\_\_ Date \_\_\_\_\_

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

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

Others \_\_\_\_\_

PRODUCTION DATA

Date \_\_\_\_\_

Static water level \_\_\_\_\_

Pumping water level \_\_\_\_\_

Yield (g.p.m.) \_\_\_\_\_

Measuring point \_\_\_\_\_

Duration of pumping \_\_\_\_\_

Specific capacity \_\_\_\_\_

LABORATORY DATA

PLG-237

Well No. # 17836 Sample range 0-400 No. of samples 80

No. of dupls. and cond. \_\_\_\_\_ Washed range \_\_\_\_\_

Samples prepared by Dennis LaPoint Date 8/30/65

Logged by NORTHUP Date 8/13/70

Correlations by \_\_\_\_\_ Date 8/13/70

# Kays-Western Company

4430 Commercial Avenue - Omaha, Nebraska

## TEST WELL REPORT

City and State **Sioux City, Iowa**

Date **March 20, 1965**

Contract **City of Sioux City**

Driller **Donald Oseka**

Test No. **65-1**

Helpers **John Winnett**

Static Water Level

**Test Log**

0'	-	45'	Brown silty clay
45'	-	55'	Blue clay
55'	-	76'	Brown clay
76'	-	97'	Blue clay
97'	-	106'	Yellow and white chalky clay, trace of sand
106'	-	129'	Blue clay
129'	-	141'	Coarse sand or Dakota sandstone
141'	-	161'	Dakota sandstone, fairly fine
161'	-	171'	Dakota sandstone, trace of shale streaks
171'	-	184'	Dakota sandstone, a little more coarse
184'	-	184' 6"	Gray shale
184' 6"	-	192'	Dakota sandstone, medium size

CONTINUED . . .

Size Mud Pit—Length **6'** , Width **4'** , Depth **3'**

**WATER BEARING FORMATION DATA**

Depth	Mud Viscosity	Inches Mud Taken from Pit	Drilling Time
129' to 141'	38 Sec.	1	
141' to 151'	38 Sec.	1	
151' to 161'	38 Sec.	1½	
161' to 171'	38 Sec.	1½	
171' to 181'	38 Sec.	2½	
181' to 191'	38 Sec.	1	

LOCATION:

REMARKS:

# Layne-Western Company

4430 Commercial Avenue - Omaha, Nebraska

## TEST WELL REPORT

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City and State **Sioux City, Iowa**

Date **March 20, 1965**

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Static Water Level

Test Log

192'	-	211'	Blue shale
211'	-	221'	Blue shale and sandstone streaks
221'	-	241'	Dakota sandstone fine, trace of shale
241'	-	295'	Dakota sandstone, medium size
295'	-	300'	Gray shale, hard
300'	-	311'	Dakota sandstone, some shale

CONTINUED . . .

Size Mud Pit—Length **6'** , Width **4'** , Depth **3'**

WATER BEARING FORMATION DATA

Depth	Mud Viscosity	Inches Mud Taken from Pit	Drilling Time
211' to 221'	38 Sec.	1	
221' to 231'	38 Sec.	1½	
231' to 241'	38 Sec.	1	
241' to 251'	38 Sec.	1½	
251' to 261'	38 Sec.	1	
261' to 271'	38 Sec.	1½	
271' to 281'	38 Sec.	1½	
281' to 291'	38 Sec.	1½	
291' to 301'	38 Sec.	½	
301' to 311'	38 Sec.	1	

LOCATION:

REMARKS:

# Layne-Western Company

4430 Commercial Avenue - Omaha, Nebraska

## TEST WELL REPORT

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City and State	Sioux City, Iowa	Date	March 20, 1965
Contract	City of Sioux City	Driller	Donald Oseka
Test No.	63-1	Helpers	John Winnett

Static Water Level

Test Log

311'	- 316'	Dakota sandstone, fine
316'	- 330'	Dakota sandstone, medium size
330'	- 331'	Dakota sandstone, hard
331'	- 350'	Dakota sandstone, medium size
350'	- 352'	Blue shale
352'	- 356'	Dakota sandstone, some shale, fairly hard
356'	- 365'	Dakota sandstone, medium size
365'	- 367'	Shale with trace of sandstone, hard
367'	- 370'	Dakota sandstone, medium size
370'	- 371'	Gray shale
371'	- 374'	Dakota sandstone, some shale
374'	- 376'	Gray shale, hard
376'	- 387'	Dakota sandstone, medium size
387'	- 388'	Dakota sandstone, hard
388'	- 397'	Dakota sandstone, fairly hard, medium size
397'	-	Limestone and blue rock, hard

Size Mud Pit—Length, Width, Depth

WATER BEARING FORMATION DATA

Depth	Mud Viscosity	Inches Mud Taken from Pit	Drilling Time
311' to 321'	38 Sec.	2½	
321' to 331'	38 Sec.	3	
331' to 341'	38 Sec.	4	
341' to 351'	38 Sec.	3½	
351' to 361'	38 Sec.	3	
361' to 371'	38 Sec.	4	
371' to 381'	38 Sec.	3	
381' to 391'	38 Sec.	1½	
391' to 397'	38 Sec.	1	

LOCATION: 15' southwest of well site, 700' north of Spaulding Park well # 1

REMARKS: