#31664

Well Information—Drift Wells

Layne-Western Company, Inc.

WATER SUPPLY CONTRACTORS

705 SO. DUFF AVE. AMES, IOWA 50010

Phone 515 232-3563

Name of Job City of Storm Lake Date May, 1990

City or Village State

Well No.: 15 Drillers: C. Thomas

Well Location: ft. ( ) and ft. ( ) of the NE corner of

Section 32, Twp. 91 (N), Range 37 (W) Cerro Gordo County.

Otherwise located as 2,000 ft. N. of well 14

Work Began: Work Completed: Well Depth: 488

All measurements made from existing ground level at time well was drilled.

Casing Record:

Amount	Dia.	Wt. or Thickness	Material					
140	32	0.250	steel	with	weld	joints from 140	to	0
341	24	0.375	steel		weld	341		0
388	16	0.375	steel	with	weld	joints from 385	to	+3

Screen Record: Type wire wrap 304 s.s.

Amount	Dia.	Opening	Material					
100	16	0.040	304 s.s.	with	weld	joints from 485	to	385
3	16	Blank	304 s.s.	with	weld	joints from 488	to	485

Type of Seal at Bottom

Hole Record:

36 inch from 0 to 140

29 inch from 140 to 340

23 inch from 340 to 498

Gravel Pack Record:

Amount	Size	Source	From	To
46.39	No. 1 (11.45 ton No. 2 above screen)	Northern Gravel	488	243

Cementing Record: 26.77 tons cement pumped between 24" & 29"

Backfill Record:

LW-33

SEE OTHER SIDE

WELL LOG

Feet		Feet	Description
0	to	2	Black top soil
2	to	38	Light brown till
38	to	42	Brown gray till
42	to	73	Blue gray till, pebbly - cobbles & boulders 43' to 53'
73	to	80	Sand & gravel streaks & till
80	to	114	Blue gray till
114	to	127	Sand & gravel, coarse - cobbles & boulders
127	to	128	Limestone
128	to	136	Sand & gravel, cobbles
136	to	143	Green brown till
143	to	175	Hard brown till
175	to	183	Grayish brown till
183	to	220	Brown till, hard - cobbles & boulders
220	to	235	Brown till, very hard - boulders - large 12" diameter
235	to	300	Very hard blue till
300	to	310	Brown till
310	to	330	Blue gray till
330	to	378	Brown sandstone, light blue clay streaks
378	to	398	Hard dark brown sandstone
398	to	418	White hard sandstone, streak of white clay
418	to	435	Dark brown & light brown sandstone
435	to	478	Light brown & whilte good sandstone
478	to	490	Brown sandstone
490		498	Blue gray till

Well Test Data: Static Level 282 : pumping level 345 after 20 hours pumping at 120 g.p.m.

Length of test 20 hrs. See Well Test Data Sheet Dated 8/24/90

REMARKS:

CITY OF STORM LAKE

STORM LAKE, IOWA

WELL No.15

#31664

LW Co. Ames, IA

6/90

GEOLOGICAL LOG

BLACK TOP SOIL	SURFACE
LIGHT BROWN TILL	38'
BROWN GRAY TILL	
BLUE GRAY TILL	73'
SAND, GRAVEL STREAKS, TILL	
BLUE GRAY TILL	114'
SAND, GRAVEL, LIMESTONE	128'
SAND, GRVL, GRN BRWN. TILL	143'
HARD BROWN TILL	
GRAYISH BROWN TILL	183'
BROWN TILL, HARD-	
COBBLES & BOULDERS	220'
BROWN TILL - VERY HARD	235'
VERY HARD BLUE TILL	300'
BROWN TILL	
BLUE GRAY TILL	330'
BROWN SANDSTONE,	
LIGHT BLUE CLAY STREAK	378'
HARD DARK BROWN SANDST.	398'
WHITE HARD SANDSTONE	418'
DARK, LIGHT BRN. SANDST.	435'
LIGHT BROWN, WHITE	
GOOD SANDSTONE	478'
BRN. SANDST., BLUEGRAY TILL	498'

CONSTRUCTION DETAIL

