



# Layne-Western Company, Inc.

WATER SUPPLY CONTRACTORS

705 SO. DUFF AVE.

AMES, IOWA 50010

Phone 515 232-3563

Name of Job City Water Department Date 2/16/84  
 City or Village Cedar Rapids, State Iowa  
 Well No.: 16 Drillers: Gale McIntosh & Denny Osterhout  
 Well Location: \_\_\_\_\_ ft. (\_\_\_\_) and \_\_\_\_\_ ft. (\_\_\_\_) of the N. E. corner of  
 Section 17, Twp. 83 (N), Range 7 (W) Linn County.  
 Otherwise located as \_\_\_\_\_

Work Began: 1/30/84 Work Completed: \_\_\_\_\_ Well Depth: 69'  
 All measurements made from existing ground level at time well was drilled.

## Casing Record:

Amount	Dia.	Wt. or Thickness	Material
<u>64</u>	<u>30"</u>	<u>½"</u>	<u>Steel with welded joints from +15' to 48'</u>
_____	_____	_____	_____ with _____ joints from _____ to _____

Screen Record: Type Johnson Layne

Amount	Dia.	Opening	Material
<u>20'</u>	<u>30"</u>	_____	<u>S.S. with welded joints from 49' to 69'</u>
_____	_____	_____	_____ with _____ joints from _____ to _____

Type of Seal at Bottom S.S. Plate

## Hole Record:

52" inch from +6 to 9'  
42" inch from 9' to 69'

## Gravel Pack Record:

Amount	Size	Source	From	To
<u>21 Ton</u>	_____	<u>Northern Gravel</u>	<u>20'</u>	<u>69'</u>
_____	_____	_____	_____	_____

Cementing Record: 4,000 lbs. mix w/no larger than ½" aggregate 0' to 18'Backfill Record: Clay & Laynite 18' to 20'



County: LINN (T83N R7W Sec 17 )

TD: 69

Elev: Log by: WHITSETT, THOMAS MICHAEL

Log date: 11/02/1995

Depth top	Depth bot	Lithologic description
0.0	2.5	Clay, dk. brn.gr.
2.5	5.0	Silt, m. brn., calc. (40%); Sd., clr. -> lt. brn., f. -> c., a. -> R. (60%); REM: incl wood frags; rare grav.
5.0	10.0	Clay, dk. brn.gr. (20%); Sd., clr. -> var.color, v.f. -> c., a. -> R. (80%)
10.0	15.0	Alluv., m. brn.gr. -> dk. brn.gr., abnt. sd grains (40%); Sd., clr. -> var.color, m. -> v.c., a. -> r. (60%); REM: incl mussel shells & wood
15.0	20.0	Sd., clr. -> lt. brn., m. -> v.c., a. -> r. (95%); Grav., var.color, f., r. (5%); REM: gr: dk. ign, ls, chert
20.0	25.0	Sd., clr. -> lt. brn., m. -> v.c., a. -> r. (80%); Grav., var.color, f. -> m., A. -> r. (20%); REM: plant debris; gr:ign,cht,dol
25.0	30.0	Sd., clr. -> var.color, m. -> v.c., A. -> R. (80%); Grav., var.color, f. -> c., a. -> r. (20%); REM: incl wood frags; grav a.a.
30.0	35.0	Sd., clr. -> var.color, m. -> v.c., A. -> R. (30%); Grav., var.color, f. -> c., a. -> r. (70%); REM: sd: polyqtz;gr:a.a. + foss ls
35.0	40.0	Grav., var.color, f. -> c., a. -> r. (70%); Sd., clr. -> var.color, c. -> v.c., a. -> r. (30%); REM: polyqtz in sd; grav. comp. a.a
40.0	45.0	Sd., clr. -> var.color, c. -> v.c., a. -> r. (40%); Grav., var.color, f. -> v.c., a. -> R. (60%); REM: gr:ls,cht,ign,fe-stn,sltstn
45.0	50.0	Sd., clr. -> var.color, m. -> v.c., A. -> r. (80%); Grav., var.color, f. -> m., A. -> R. (20%); REM: gr: cht,ls,qtz,dk+lt ign
50.0	55.0	Sd., clr. -> var.color, m. -> v.c., A. -> r. (90%); Grav., var.color, f. -> m., A. -> R. (10%); REM: grav. comp. a.a.
55.0	60.0	Sd., clr. -> var.color, m. -> v.c., A. -> R. (40%); Grav., var.color, f. -> v.c., a. -> R. (60%); REM: sd. incl wood frags; grav a.a.
60.0	65.0	Sd., clr. -> var.color, m. -> v.c., a. -> R. (90%); Grav., var.color, f., a. -> R. (10%); REM: grav. comp. a.a.
65.0	69.0	Sd., clr. -> var.color, f. -> v.c., a. -> R. (80%); Grav., var.color, f. -> c., a. -> r. (20%); REM: gr. comp. a.a; no bdrck noted