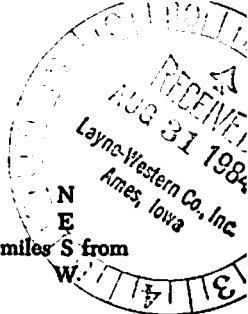


WELL RECORD



Well is located _____ miles S and _____ miles S from
 _____ E _____ E
 _____ W _____ W

_____ in _____
 (Nearest Town) (County)

in the _____ 1/4 Sec. _____ T. _____ R.

Owner Cedar Rapids Well No. 18

Postoffice address _____

Contractor Layne Western Co.

Address 705 South Wolf

Driller Leale McIntosh

Well begun _____, 1974

completed _____, 1974

Rig used—Cable, Rotary, Jet, or Rec Rot

Depth of well 60'
 (Feet)

Size of hole (note total amount of each size) _____

10' x 52" 50' x 42"

Main water supply at 20'
 (Feet below surface)

Final water head 32"
 (Feet above or below surface)

Is well pumped? No

Yield _____
 (Gallons per minute)

Water level when pumping _____

Position of well _____
 (Upland, valley, side hill, etc.)

RECORD OF PERMANENT CASING

Size Pipe	Amount of Pipe	Depth to Bottom of Pipe	Depth to Top of Pipe	Type ^o and Weight of Pipe	DIAGRAM OF WELL
30"	536"	59'	+ 1/16'	1/2 wall steel	

^oAs cast, wrought iron, steel, concrete, etc.

Is screen used? Yes Diameter 30"
(Inches)

Length 20' Depth to bottom 59'
(Feet)

Depth to top 39' Slot size 0.80

Are packers or seals used? Yes

Kind clay & laym

Where used 16" to 18"

Kind of pump _____ Dia. _____
(Inches)

Capacity of pump _____
(g.p.m.)

Power used _____
(Kind and amount)

Depth to bottom of pump line _____ feet,

including _____ feet tailpiece.

Remarks on construction of well _____

WELL NO. 18
CITY OF CEDAR RAPIDS
CEDAR RAPIDS, IA

~~79888~~
~~79888~~
27726

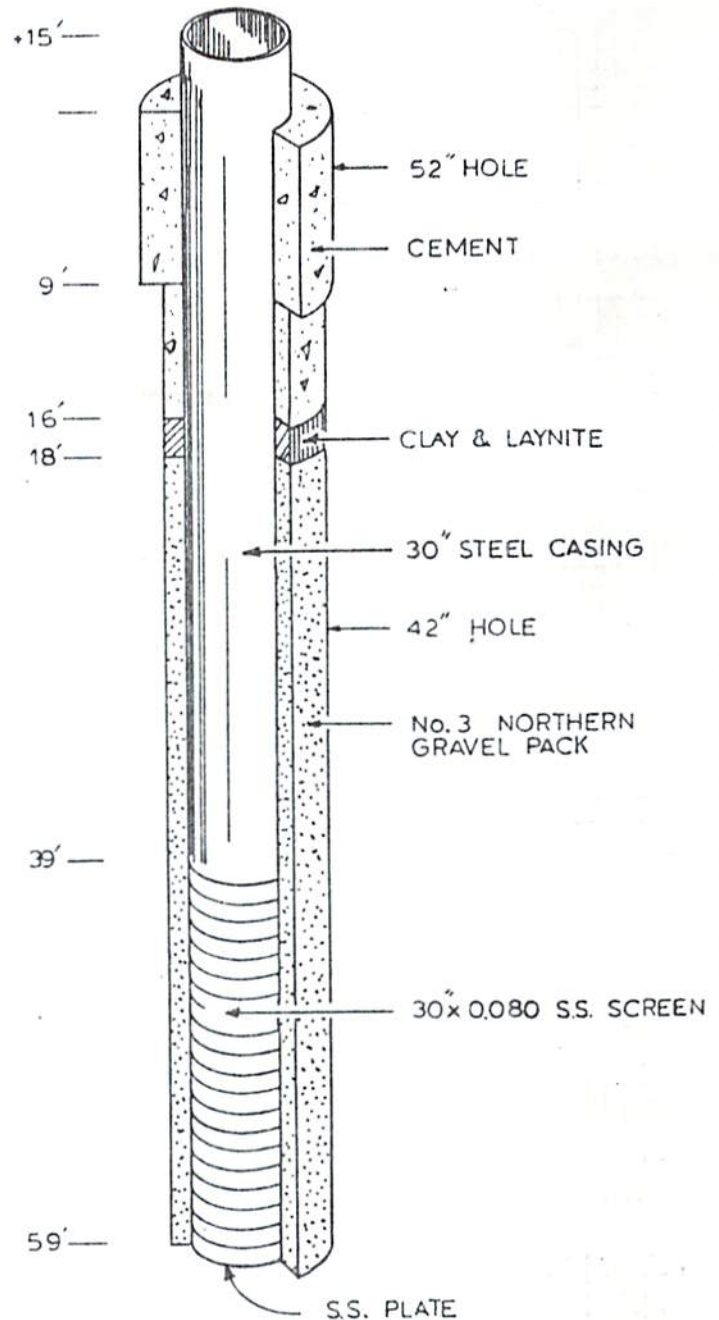
LW CO., INC. AMES, IA

8-84

GEOLOGICAL LOG

BLACK SANDY TOPSOIL	SURFACE
	2'
FINE SAND VERY DIRTY	
	8'
BLACK SILTY CLAY	
	13'
SMALL TO MEDIUM GRAY GRAVEL	
	18'
GRAY GRAVEL & TREE	
	23'
BROWN COARSE SAND TO MED. GRAVEL	
	34'
BROWN GRAVEL WITH FLAT BROKEN ROCK	
	44'
BROWN COARSE SAND TO MEDIUM GRAVEL w/ COBBLES & BOULDERS	
	59'
ROTTEN LIMESTONE	60'

CONSTRUCTION DETAIL



Wnumber: 27726

Owner: CEDAR RAPIDS, CITY OF; #18

County: LINN (T83N R7W Sec 17)

TD: 60

Elev:

Log by: WHITSETT, THOMAS MICHAEL

Log date: 07/06/1995

Depth top	Depth bot	Lithologic description
0.0	2.0	Soil, m. brn.gr., sdy.; REM: slightly calcareous
2.0	8.0	Sd., clr. -> var.color, c. -> v.c., a. -> r. (60%); Grav., var.color, v.f. -> c., A. -> r. (40%); REM: gr: qtz, ign, rare cht
8.0	13.0	Diamicton/uo/ul, dk. gr. brn., sdy. (70%); Silt, lt. brn.yel., sltly. mica. (10%); Grav., var.color, c., a. -> r. (20%); REM: silt calc; gr: foss ls + qtz
13.0	15.0	Sd., clr. -> var.color, m. -> v.c., a. -> r. (80%); Grav., var.color, v.f. -> v.c., a. -> r. (20%); REM: gr: qtz, ign, foss ls
15.0	20.0	Sd., clr. -> var.color, m. -> v.c., A. -> r. (40%); Grav., var.color, v.c., a. -> r. (60%); REM: gr: sltstn+ign, qtz, ls, dol
20.0	25.0	Sd., clr. -> var.color, m. -> v.c., A. -> r. (60%); Grav., var.color, c. -> v.c., a. -> r. (40%); REM: drlr lg: tree; wood in smpl
25.0	30.0	Sd., clr. -> lt. brn., f. -> v.c., A. -> R. (70%); Grav., var.color, m. -> v.c., a. -> R. (30%); REM: gr incl foss stromatoporoid
30.0	35.0	Sd., clr. -> lt. brn., v.f. -> v.c., A. -> R. (80%); Grav., var.color, m. -> v.c., a. -> R. (20%); REM: gr: sltstn, gran, qtz, ign, cht
35.0	40.0	Sd., clr. -> lt. brn., v.f. -> v.c., A. -> R. (90%); Grav., var.color, f. -> m., a. -> r. (10%); REM: gr: qtz, ign, cht, foss ls
40.0	45.0	Sd., clr. -> lt. brn., v.f. -> v.c., A. -> R. (70%); Grav., var.color, f. -> c., a. -> r. (30%); REM: gr: qtz, ign, foss ls
45.0	50.0	Sd., clr. -> lt. brn., v.f. -> v.c., A. -> R. (90%); Grav., var.color, f. -> c., A. -> r. (10%); REM: gr: qtz, ign, cht, foss ls
50.0	55.0	Grav., var.color, f. -> v.c., a. -> r. (30%); Sd., clr. -> lt. brn., v.f. -> v.c., A. -> R. (70%); REM: gr: qtz, ign, sltstn, cht, foss ls
55.0	60.0	Sd., clr. -> lt. brn., v.f. -> v.c., A. -> R. (70%); Grav., var.color, f. -> v.c., a. -> R. (20%); Ls., wh., f., wthrd. & vug. (10%); REM: gr: qtz, ign, sltstn, foss ls