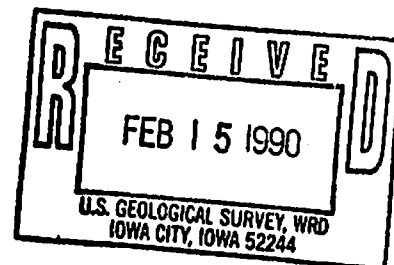


City of Fredericksburg

FREDERICKSBURG, IOWA 50630



COUNTY: Chickasaw

CITY: Fredericksburg

SUPERINTENDENT/PERSON TO CONTACT: Earl O. Larson, Water Superintendent

PHONE NUMBER: 319-237-5725

WELL NAME: Fredericksburg

Location: NE of water tower 150-200', 150' NE of City Shed,
175' NE of old well; T94NR12W sec. 13 AAAAC, Block #19 Lot #4

DEPTH: 792'

DATE DRILLED: 1956

CASING INFORMATION: 18" OD TO 30'8"
12" ID X 3/8" wall T & O TO 248'
10" ID from 295' TO 375' or a total of 80' of 10" pipe
8" ID from 624' to 728' or a total of 104' of 8" pipe

Sizes of holes drilled as follows: 16" to 35'
12" to 365'
10" to 718'
8" to 792'

IS THERE AN AIRLINE GAUGE? Yes

Can a measuring tape be inserted in the well casing to take a water level measurement? Yes

STATUS OF WELL: Active 1990

WELL INFORMATION: 357' TO Pump
20 HP sub Pump
At 30 lb. pressure 150 gallon
Static Level -- 300
Pump Level -- 332 at 150 gallon

GEOLOGICAL SURVEY -- LOG OF WELL:

| | | | |
|------|----|------|--|
| 0' | to | 5' | Topsoil |
| 5' | to | 25' | Sand (Brown) |
| 25' | to | 45' | Sand & Clay (Brown) |
| 45' | to | 90' | Blue Clay |
| 90' | to | 98' | Sand with some water |
| 98' | to | 165' | Blue Clay |
| 165' | to | 181' | Blue Shale (Sticky) |
| 181' | to | 207' | Broken limerock & Shale w/some water 200' |
| 207' | to | 245' | Blue Shale (Sticky) |
| 245' | to | 310' | Limerock (Ft. Atkinson) about 25 GPM in first 10' of this rock with a static 45' from the ground |
| 310' | to | 357' | Shale |
| 357' | to | 412' | Limerock (Dark Brown) Soft Galena |
| 412' | to | 590' | Limerock (Cream color) hard Galena |
| 590' | to | 630' | Limerock (Light Blue) soft Galena |
| 630' | to | 640' | Shale (green) Decorah |
| 640' | to | 655' | Limerock (white) Decorah |
| 655' | to | 710' | Limerock & Shale |
| 710' | to | 718' | Shale (green sticky) Glenwood |
| 718' | to | 785' | St. Peter sandstone Hard except last 5' |
| 785' | to | 792' | Sandy Lime (Prairie Du Chien formation) |