

## GROUND WATER

WELL NO. 4 Active X Standby..... Abandoned..... Replaced by No.....

Lot.....3..... Block..... Township.....America.....

OWNERSHIP IOWA Public Service Co. Date Installed Sept. 12 1957

CONTRACTOR Geo Peck Foundry Address St. Marys, Iowa

DATE RECONDITIONED.....19..... Contractor..... Address.....

**CONSTRUCTION EMPLOYED:** .....

**CURB ELEVATION..... REFERENCE.....**

TYPE OF CONSTRUCTION Drilled Depth 313 ft. Diameter 12 in.

CASING: Material Steel Condition New ~~16 1/2" Dia. x 23 1/4"~~

SCREEN: Material Perforated Steel Pipe Length 52 ft. Diameter 10 in. Slot Opening 1/2 in.

**WELL SEALED.....How.....Approved.....**

WELL VENTED.....Yes..... How..... ~~Very much~~ 4 Yes! Approved..... ~~Yes~~ N

TYPE OF PUMP surbine Make Kellogg Western Capacity 1000 GPM Lubricated wt. oil

DEPTH TO CYLINDER.....ft. Tail Pipe.....ft.

PUMP CONTROL: Manual..... Automatic.....**X**..... Semi-Automatic.....

**STATIC LEVEL.....ft. Pumping Level.....ft. Drawdown.....ft.**

OPTIMUM SPECIFIC YIELD.....GPM Drawdown.....ft. Time.....hrs

**RATE OF DRAWDOWN..... Rate of Recovery.....**

TEMPERATURE OF WATER.....°F Where Measured..... Temp. of Atmosphere.....°F

DRAWDOWN GAUGE INSTALLED..... *NC* .....

TOPOGRAPHICAL POSITION OF WELL.....

WELL SITE INVESTIGATED Yes Approved Yes Why not NA

WELL CONSTRUCTION REVIEWED.....Approved..... Why not.....

PIT CONSTRUCTION: Purpose.....*None*..... Size and Description.....

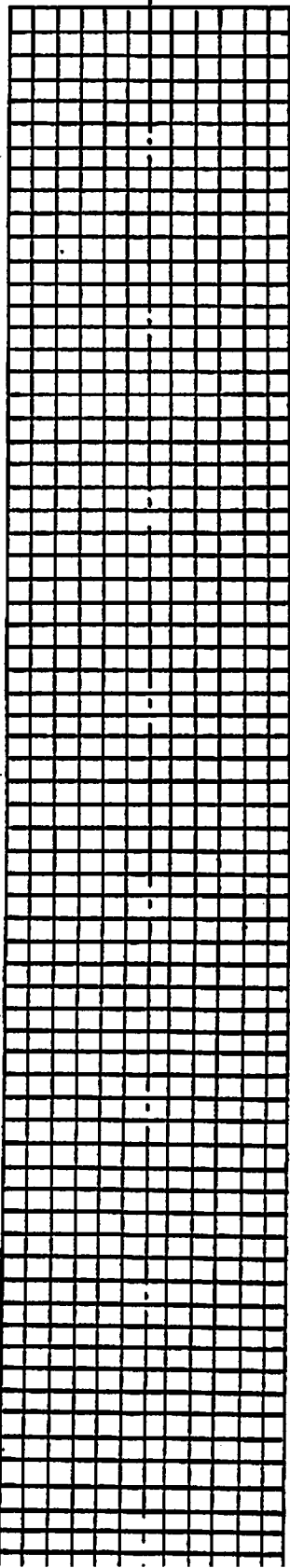
**CONDITION:** ..... **Drainage Facilities**.....

PUMP INSTALLATION: Approved Yes Why Not.....

**CUTTINGS FROM WELL PRESERVED:** ..... **Where** .....

DEPTH TO BED ROCK..... Depth to Water-bearing Stratum.....

SOURCE OF WATER: Principal Formation.....SANDSTONE..... Other.....

| GEOLOGICAL DATA          |                                           |        | CASING DATA                                              | WELL DATA                                                                           |                                                |
|--------------------------|-------------------------------------------|--------|----------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------|
| Formation                | Material and distance from surface in ft. | Series | Position, kind and extent of casing, liners, shoes, etc. | Scale:<br>Horizontal _____<br>Vertical _____                                        | Position of seals, screens, static level, etc. |
| Yellow Clay              | 0' to 10'                                 |        |                                                          |  |                                                |
| Sandy Clay               | 10' to 15'                                |        |                                                          |                                                                                     |                                                |
| Sand                     | 15' to 21'                                |        |                                                          |                                                                                     |                                                |
| Sand & Gravel with water | 21' to 43'                                |        |                                                          |                                                                                     |                                                |
| Blue Clay                | 43' to 98'                                |        |                                                          |                                                                                     |                                                |
| Gravel & Sand with water | 98' to 106'                               |        |                                                          |                                                                                     |                                                |
| Blue shale               | 106' to 142'                              |        |                                                          |                                                                                     |                                                |
| Blue Shale & Water       | <del>142' to</del><br>142' to 217'        |        |                                                          |                                                                                     |                                                |
| Soft Sandstone           | 217' to 256'                              |        |                                                          |                                                                                     |                                                |
| Hard Sandstone           | 256' to 278'                              |        |                                                          |                                                                                     |                                                |
| Brown shale no water     | 278' to 288'                              |        |                                                          |                                                                                     |                                                |
| Hard Sandstone and water | 288' to 313'                              |        |                                                          |                                                                                     |                                                |