



Layne-Western Company, Inc.

WATER SUPPLY CONTRACTORS

705 SO. DUFF AVE.

AMES, IOWA 50010

Phone 515 232-3563

Name of Job Town of Adel Date _____

City or Village Adel State Iowa

Well No.: 2 Drillers: Miller - LaFontaine

Well Location: _____ ft. (____) and _____ ft. (____) of the _____ corner of
Section _____, Twp. _____ (____), Range _____ (____) County.

Otherwise located as _____

Work Began: _____ Work Completed: _____ Well Depth: _____

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

Casing Record:

| Amount | Dia. | Wt. or Thickness | Material |
|-------------|------------|------------------|--------------------------------------------------|
| <u>42.5</u> | <u>12"</u> | <u>0.375"</u> | <u>Steel with welded joints from +10 to 32.5</u> |
| _____ | _____ | _____ | with _____ joints from _____ to _____ |

Screen Record: Type Layne Shutter

| Amount | Dia. | Opening | Material |
|-----------|------------|--------------|--------------------------------------------------|
| <u>12</u> | <u>16"</u> | <u>No. 6</u> | <u>S.S. with welded joints from 32.5 to 44.5</u> |
| _____ | _____ | _____ | with _____ joints from _____ to _____ |

Type of Seal at Bottom 1/2" Steel plate

Hole Record:

42" inch from 0 to 44.5'
_____ inch from _____ to _____

Gravel Pack Record:

| Amount | Size | Source | From | To |
|--------|------------------|------------------|-----------|--------------|
| _____ | <u>1/8 x 1/4</u> | <u>Pasco Pit</u> | <u>9'</u> | <u>44.5'</u> |
| _____ | _____ | _____ | _____ | _____ |

Cementing Record: _____

Backfill Record: _____

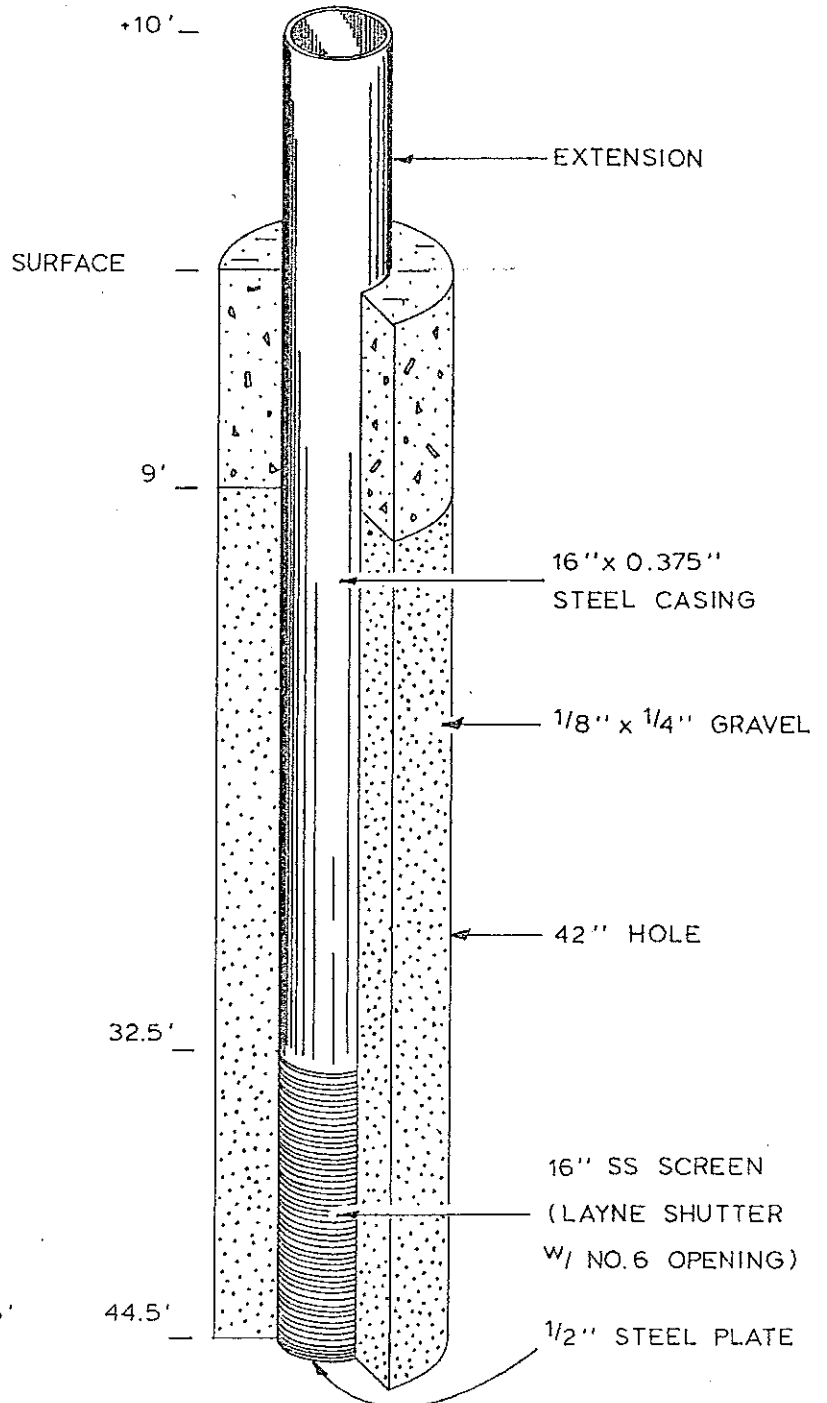
WELL NO. 2
TOWN OF ADEL
ADEL, IOWA

LW Co. Inc., Ames, Ia.

GEOLOGICAL LOG

CONSTRUCTION DETAIL

| | |
|-----------------------------------------------------------------|-------|
| TOPSOIL | 3' |
| FINE SAND WITH CLAY | 13' |
| BROWN CLAY | 15' |
| BLUE CLAY | 17' |
| COARSE SAND WITH SOME GRAVEL & COAL (WOOD) | 35' |
| HARD BL., BR. CLAY (WOOD) | 37' |
| SAND AND GRAVEL WITH STREAKS OF BROWN CLAY, COAL AND WOOD | 44.5' |



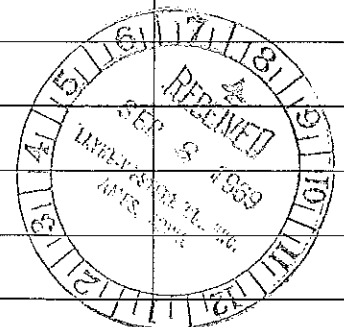
CUSTOMER Layne-Western Company

DATE 9-4-69

ADDRESS Ames, Iowa

Adel, Iowa

| | | | | | |
|---------------------|-------------------|------------------------|--|--|--|
| SAMPLE NUMBER | | 69432 | | | |
| DATE COLLECTED | | 9-3-69 | | | |
| DATE RECEIVED | | 9-3-69 | | | |
| SAMPLING POINT | | Well #2 Pump discharge | | | |
| | | By Jim Anderson | | | |
| CALCIUM | PPM AS | 216 | | | |
| | CaCO ₃ | | | | |
| MAGNESIUM | PPM AS | 124 | | | |
| | CaCO ₃ | | | | |
| SODIUM | PPM AS | 33 | | | |
| | CaCO ₃ | | | | |
| ALKALINITY (M) | PPM AS | 336 | | | |
| | CaCO ₃ | | | | |
| ALKALINITY (P) | PPM AS | 0 | | | |
| | CaCO ₃ | | | | |
| SULFATE | PPM AS | 26 | | | |
| | CaCO ₃ | | | | |
| CHLORIDE | PPM AS | 11 | | | |
| | CaCO ₃ | | | | |
| TOTAL HARDNESS | PPM AS | 340 | | | |
| | CaCO ₃ | | | | |
| NON CARBONATE HARD | PPM AS | 4 | | | |
| | CaCO ₃ | | | | |
| FREE CARBON DIOXIDE | CO ₂ | 60 | | | |
| | PPM AS | | | | |
| IRON | FE | 1.90 | | | |
| | PPM AS | | | | |
| MANGANESE | MN | 0.35 | | | |
| | PPM AS | | | | |
| SILICA | SiO ₂ | ---- | | | |
| | PPM AS | | | | |
| PH | | 7.0 | | | |
| TURBIDITY | JTV | 14.5 | | | |
| COLOR | | ----- | | | |



REMARKS:

Alan Spohnheimer *NKS*
CHEMIST

Layne-Western Company, Inc.

PUMP INSTALLATION

JOB NAME City of Adel

Address _____

City, State Adel, IA

DATE 08-04-92 Job Completion
 Month Day Year

PUMP NO. 61587L ~~XX~~ Water Lube ~~XX~~ Repair

Pump Trouble Well rehabilitation & 8 yr. pump maintenance

| PUMP SIZE | | |
|-----------|------------------------------|---------------|
| | DIAMETER | LENGTHS |
| Discharge | 6 <u>Above</u> Below | 6" X 5' |
| Column | 6 <u>Screw</u> Flange | 2-10' 2-5' |
| Tubing | | |
| Shaft | 1 <u>Stainless</u> Carbon | |

Column setting to bowl 35 ft.

BOWL

Diameter 9 Shaft Diameter 1 1/2

Type _____ Stages 5

Cast Iron or Bronze

Suction 6 " Diameter 5 Ft. Long

Special Paint or Coating on: _____ Zinc Sleeves In: _____

Column _____

Tubing _____

MOTOR OR GEAR DRIVE

Make US HP 30

Speed 1750 Volts 240

Or Gear Drive Ratio _____ Standard
 Combination

Frame Size 286TPH Non-Reverse — Yes

Running Amps. 75-76-78

Running Volts 240

Serial No. R212236407

WELL

No. 2 Year Drilled _____

Location _____

Diameter 12' Depth 52'

Measured from top of _____" diameter casing which is
 _____ feet above ground

Tape to Water 17'

Air Line Length 35 A.L. Material Toro

Static Gage 18' Static Level 17

Pumping Gage _____ Pumping Level _____

Discharge Pressure _____ Feet when pumping into
 System

INSTALLER T. Peters

Rig Used _____

Foreman Hours to Rig Up _____ To Pull _____

Inspect _____ Repair _____ To Set _____

| PUMP REPAIR | |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------|
| CONDITION OF PUMP WHEN PULLED | NEW PARTS INSTALLED |
| Column <u>Bad threads, washed out</u> | Column <u>All new</u> |
| Tubing <u>N/A</u> | Tubing _____ |
| Shafting <u>Needs sleeves</u> | Shafting <u>New sleeves, new motor drive</u> |
| Bowl <u>To shop for inspection</u> | Bowl <u>Bearings, wear rings & bowl shaft 1 new impeller</u> |
| Suction <u>shot</u> | Suction <u>New 5' pipe</u> |
| MACHINE WORK _____ | 1. DRAIN PORTS OPEN <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| | 2. CHLORINATE WELL <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| | 3. PUMP RUNS <u>smooth</u> |
| | 4. ALIGN PUMP HEAD WITH DIAL INDICATOR Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| | 5. GROUTED HEAD-BASE PLATE Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |