

Layne-Western Company, Inc.

Well Information
Omaha, Nebraska

1. Contract Atlantic Municipal Utilities Date 8-24-90
2. City and State Atlantic, Iowa Driller McCracken/Payton
3. Well No. 13 at test hole No. 89-3 Well location (attach map) North of Troublesome Creek, 900' South of County Road and 150' East of access road into well field
4. Work completed 8-31-90 No of man hours as charged to job on time sheet _____
5. MATERIAL:
- | | LENGTH | DIA. | GAUGE OR WALL THICKNESS | MATERIAL | TYPE | NO. OF OPENINGS |
|--|------------|------------|-------------------------|---------------------|-------------------------|-----------------|
| 6. Screen | <u>30'</u> | <u>16"</u> | <u>.150 x .220</u> | <u>304 SST</u> | <u>Johnson</u> | <u>.035</u> |
| 7. Inner Casing | <u>70'</u> | <u>16"</u> | <u>.375</u> | <u>Carbon Steel</u> | <u>ASTM A53 Grade B</u> | |
| 8. Outer Casing | | | | | | |
| 9. <u>24</u> tons of gravel used in the well. Size <u>Luther Maddox Type B</u> | | | | | | |
| 10. Test of well. Did you use test or permanent pump? <u>Test</u> <u>12RKH</u> <u>2</u> | | | | | | |
| | | | | <u>Size of Bowl</u> | | <u>Stages</u> |
| 11. Size of orifice <u>6</u> inch by <u>4</u> inch. Orifice tube reading <u>25.0</u> inches. | | | | | | |
| 12. Pumping test — measurements from ground level: | | | | | | |

TIME	G.P.M.	STATIC	DRAWDOWN	PUMPING LEVEL

13. Recovery in 5 minutes _____, in 30 minutes _____
14. Did you seal bottom of well? Yes Thickness 3/16 inches, material 304 Stainless Steel
15. Well underreamed? No From _____ feet to _____ feet, _____ feet to _____ feet.
16. If all screen was not placed at bottom, state how it was spaced.
From 60 feet to 90 feet; from _____ feet to _____ feet; from _____ feet to _____ feet.
17. Depth of well from ground level to top of plug 90' Size of drilled hole 42"
18. Was cement placed around or between any of the casings? Yes
19. If so, state where, how much and method used. 0-45', 18 yards of neat cement, tremie method

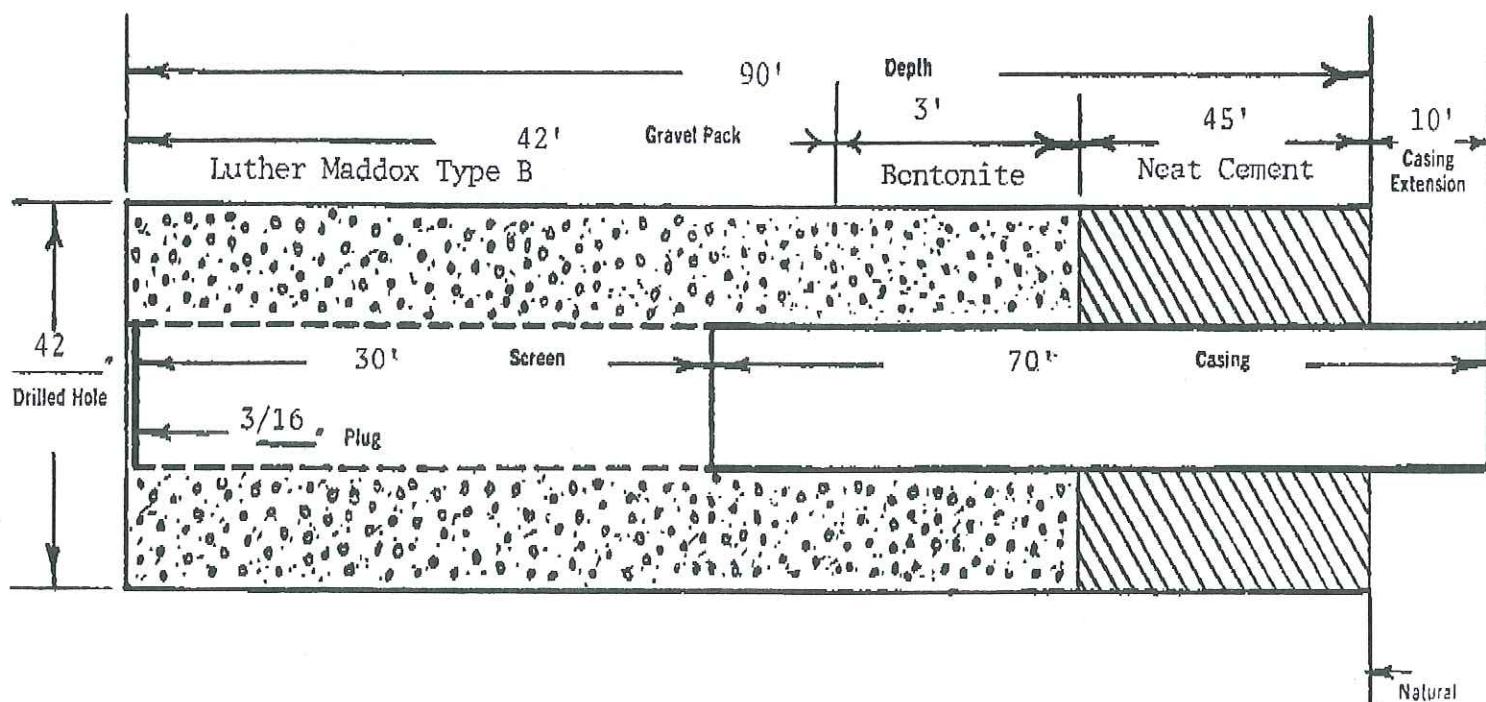
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CONTRACT Atlantic Municipal Utilites

Well No. 13

Log of well from ground level:

Feet	Feet	Formation
0	to 4	Topsoil
4	to 18	Clay
18	to 28	Yellow sand
28	to 35	Coarse gravel with cobbles
35	to 72	Yellow Dakota Sandstone
72	to 73	White Shale
73	to 90.5	Medium to fine yellow Dakota Sandstone
90.5	to 95	Light gray clay
	to	
	to	
	to	
	to	
	to	
	to	
	to	
	to	



WELL & PUMP SERVICE REPORT
(Record File - Pump Record Book)



CUSTOMER Atlantic Municipal Utilities

PUMP NO. 112247

DATE 6-6-91

ADDRESS 15 W. Third Street, Atlantic, IA.

WELL NO. 13

1. WELL: Location New Well Field, Southeast of Olive and County Road

Dia. 16" Depth 98' Static Level 25' Casing Material Steel

2. MOTOR OR GEAR DRIVE: Mfg. US HP 15 Serial No. 646637004U0350194F

Frame 254TPE Volts 208 Phase 3 RPM 1800 Clutch Bore 1" NRR Yes

Bearing No.'s U-7310BY L-62102ZJC3 Submersible Dia. NA Length NA

3. PUMP: Mfg. Layne Discharge Dia. 6" Depth of Setting 70'

Column Dia. 6" (OD) (ID) Shaft/Tubing Dia. 1" Shaft Material 416 SST

Bowl Serial No. 112247 Dia. 10" Type UHC No. Stages 4T Length 47½"

Suction Dia. 6" Length 15' Strainer Yes-SST Lubrication Water

4. MISCELLANEOUS: Airline Length 70' Material PVC Does it Work Yes

Water Meter Size 6" Mfg. Rockwell Material Cast Iron Does it Work Yes

Blow Off Dia. 2½" Dresser Sleeve Dia. 6" Static Pressure NA

5. WORK DONE: Reason for doing work New Installation

Well Treatment ☐ Pump Repair ☐ New Pump ☒ Was Pump Pulled No Describe Condition:

Column New Shaft New Tubing None Bowl New Suction New

Before Treatment or Repair: Time _____ GPM _____ DD _____ PSI _____ Sand _____

After Treatment or Repair: Time _____ GPM _____ DD _____ PSI _____ Sand _____

Equipment Used 10T

Surging Equipment None Material pulled in 0 Ft.

6. COMMENTS: Describe Repair or Treatment, List Repair Parts, New Piping, Switches, Controls:

Column pipe sandblasted/epoxy coated inside and out

Pump Runs Good ☒ Rough ☐

Pump Installer Dan Cronin

Customer Rep. Bert Hoeck

(Please use back if more space is needed)