

Well 4
1-10

EQUIPMENT MANUAL

Municipal Well No. 4
Nashua, Iowa
1980



40974

Well 4
2-10

WELL COMPANY INC.

WATER WELL DRILLING AND REPAIRING

P.O. BOX 265

DIAL 319-237-5341

FREDERICKSBURG, IOWA 50630

May 16, 1979

CITY OF NASHUA

NASHUA, IOWA

WORK COMPLETED ON MUNICIPAL WELL #4

ITEM #1.	MOVE IN	-----	\$ 500.00
ITEM #2.	DRILL 20-inch hole to 115 feet @ \$ 28.50 per foot	-----	3,277.50
ITEM #3.	DRILL 12-inch hole 115 feet to 160 feet--45 feet total @ \$ 20.00 per foot	-----	900.00
ITEM #4.	20-inch diameter casing -- 42' & 2" @ \$ 28.50 per foot	-----	1,210.76
ITEM #5.	12-inch diameter casing to 117 feet @ \$ 20.00 per foot	-----	2,340.00
ITEM #6.	314 Sacks of Cement Grout @ \$ 9.00 per Sack	-----	2,826.00
ITEM #7.	INSTALL TEST PUMP -- LUMP SUM	-----	675.00
ITEM #8.	TEST PUMP -- 4 hours @ \$ 50.00 per hour	-----	200.00
ITEM #9.	PLUMBNESS AND ALLIGNMENT TEST	-----	200.00
ITEM #10.	DISINFECTING WELL	-----	100.00
TOTAL AMOUNT DUE ON WORK COMPLETED -----			\$ 12,229.26

THANK YOU!

40974

SHAWVER WELL COMPANY
JOB REPORTWell 4
3-10

DATE: From 3-19 To 19 79

JOB NAME: NASHUA TOWN WELL

ADDRESS: _____

List formations in order such as topsoil
clay, blueclay, shale, sand--fine medium
or coarse, limerock, sandstone, color of
formations, etc.

0' TO 5' TOPSOIL

5' TO 40' CLAY

40' TO 92' LIMEROCK SOFT

TO

TO

TO

TO

TO

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TO

TO

TO

OTHER: _____

DRILLER: HENRY DAWSON

CASING: 24½ ft. SIZE: 16 FROM: TO

CASING: ft. SIZE: FROM: TO

SHOES: WELL SEAL: HTH: lbs

SCREEN SIZE: LENGTH:

CEMENT: SACKS DEPTH GROUTED:

STATIC WATER LEVEL: ft.

PUMPING LEVEL: ft. @ GPM

MAINTENANCE SCHEDULEDIESEL ENGINE

1. CHANGE OIL AND FILTERS MONTHLY.
2. CLEAN AIR FILTER MONTHLY OR DAILY IF DUSTY CONDITIONS PREVAIL.
3. CHECK RADIATOR COOLANT LEVEL ONCE A WEEK.
4. CHECK BATTERY WATER AND CABLES ONCE A WEEK.
5. USE AMOCO 300 SERIES OIL IN CRANKCASE.

AIR COMPRESSORS

1. CHANGE OIL AND FILTERS MONTHLY.
2. USE ONLY THE FOLLOWING OIL IN AIR COMPRESSORS:
 - AMERICAN INDUSTRIAL #15 (SAE 10W) Below 32°
 - AMERICAN INDUSTRIAL #31 (SAE 20W) 32°-60°
 - AMERICAN INDUSTRIAL #51 (SAE 30W) 60° & UP
3. CONTINUALLY CHECK OIL PRESSURE GAUGE ON AIR COMPRESSORS.
4. CLEAN DUST CUPS ON FILTERS AT LEAST ONCE A WEEK. IF DUSTY CONDITIONS PREVAIL, CHECK DAILY.
5. CLEAN AIR FILTERS MONTHLY. REPLACE IF NEEDED.

HYDRAULIC

1. DRAIN WATER FROM RESERVOIR TANK ON 2400 EACH MORNING BEFORE START UP.
2. CHANGE FILTERS (3) IN HYDRAULIC TANK EVERY 3 MONTHS. USE ONLY RYKON MV HYDRAULIC FLUID.
3. WHEN VACUUM GAUGE INDICATES YELLOW, IN LINE FILTERS MUST BE REPLACED. OTHERWISE REPLACE EVERY THREE MONTHS.

SHAWVER WELL COMPANY
JOB REPORT

Well 4
5-10

DATE: From 3-21 To 19 79

JOB NAME: NASHUA TOWN WELL

ADDRESS:

List formations in order such as topsoil
clay, blueclay, shale, sand--fine medium
or coarse, limerock, sandstone, color of
formations, etc.

CASING: 117 ft. SIZE: 12 FROM: TO

CASING: ft. SIZE: FROM: TO

SHOES: WELL SEAL: HTH: lbs

SCREEN SIZE: LENGTH:

CEMENT: SACKS DEPTH GROUTED:

STATIC WATER LEVEL: ft.

PUMPING LEVEL: ft. @ GPM

MAINTENANCE SCHEDULE

DIESEL ENGINE

1. CHANGE OIL AND FILTERS MONTHLY.
2. CLEAN AIR FILTER MONTHLY OR DAILY IF DUSTY CONDITIONS PREVAIL.
3. CHECK RADIATOR COOLANT LEVEL ONCE A WEEK.
4. CHECK BATTERY WATER AND CABLES ONCE A WEEK.
5. USE AMOCO 300 SERIES OIL IN CRANKCASE.

AIR COMPRESSORS

1. CHANGE OIL AND FILTERS MONTHLY.
2. USE ONLY THE FOLLOWING OIL IN AIR COMPRESSORS:
AMERICAN INDUSTRIAL #15 (SAE 10W) Below 32°
AMERICAN INDUSTRIAL #31 (SAE 20W) 32°-60°
AMERICAN INDUSTRIAL #51 (SAE 30W) 60° & UP
3. CONTINUALLY CHECK OIL PRESSURE GAUGE ON AIR COMPRESSORS.
4. CLEAN DUST CUPS ON FILTERS AT LEAST ONCE A WEEK. IF DUSTY CONDITIONS PREVAIL, CHECK DAILY.
5. CLEAN AIR FILTERS MONTHLY. REPLACE IF NEEDED.

HYDRAULIC

1. DRAIN WATER FROM RESERVOIR TANK ON 2400 EACH MORNING BEFORE START UP.
2. CHANGE FILTERS (3) IN HYDRAULIC TANK EVERY 3 MONTHS, USE ONLY RYKON MV HYDRAULIC FLUID.
3. WHEN VACUUM GAUGE INDICATES YELLOW, IN LINE FILTERS MUST BE REPLACED. OTHERWISE REPLACE EVERY THREE MONTHS.

TO REAMED 20-inch hole to 115'.

TO WELDED in 12-inch pipe.

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OTHER:

DRILLER: HENRY DAWSON

SHAWVER WELL COMPANY
JOB REPORTWell 4
7-10

DATE: From 3-27 To 19 79

JOB NAME: NASHUA TOWN WELL

ADDRESS:

List formations in order such as topsoil
clay, blueclay, shale, sand--fine medium
or coarse, limerock, sandstone, color of
formations, etc.

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OTHER: 2 sacks of BENTONITE

CASING: ft. SIZE: FROM: TO

CASING: ft. SIZE: FROM: TO

SHOES: WELL SEAL: HTH: lbs

SCREEN SIZE: LENGTH:

CEMENT: 170 SACKS DEPTH GROUTED: 19'.

STATIC WATER LEVEL: ft.

PUMPING LEVEL: ft. @ GPM

MAINTENANCE SCHEDULEDIESEL ENGINE

1. CHANGE OIL AND FILTERS MONTHLY.
2. CLEAN AIR FILTER MONTHLY OR DAILY IF DUSTY CONDITIONS PREVAIL.
3. CHECK RADIATOR COOLANT LEVEL ONCE A WEEK.
4. CHECK BATTERY WATER AND CABLES ONCE A WEEK.
5. USE AMOCO 300 SERIES OIL IN CRANKCASE.

AIR COMPRESSORS

1. CHANGE OIL AND FILTERS MONTHLY.
2. USE ONLY THE FOLLOWING OIL IN AIR COMPRESSORS:
AMERICAN INDUSTRIAL #15 (SAE 10W) Below 32°
AMERICAN INDUSTRIAL #31 (SAE 20W) 32°-60°
AMERICAN INDUSTRIAL #51 (SAE 30W) 60° & UP
3. CONTINUALLY CHECK OIL PRESSURE GAUGE ON AIR COMPRESSORS.
4. CLEAN DUST CUPS ON FILTERS AT LEAST ONCE A WEEK. IF DUSTY CONDITIONS PREVAIL, CHECK DAILY.
5. CLEAN AIR FILTERS MONTHLY. REPLACE IF NEEDED.

HYDRAULIC

1. DRAIN WATER FROM RESERVOIR TANK ON 2400 EACH MORNING BEFORE START UP.
2. CHANGE FILTERS (3) IN HYDRAULIC TANK EVERY 3 MONTHS. USE ONLY RYKON MV HYDRAULIC FLUID.
3. WHEN VACUUM GAUGE INDICATES YELLOW, IN LINE FILTERS MUST BE REPLACED. OTHERWISE REPLACE EVERY THREE MONTHS.

DRILLER: HENRY DAWSON

SHAWVER WELL COMPANY
JOB REPORTWell A
8-10

DATE: From 3-28 To 1979

JOB NAME: NASHUA TOWN WELL

ADDRESS: _____

List formations in order such as topsoil
clay, blueclay, shale, sand--fine medium
or coarse, limerock, sandstone, color of
formations, etc.

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OTHER: TOTAL 73 FEET CEMENTED.

DRILLER: HENRY DAWSON

CASING: _____ ft. SIZE: _____ FROM: _____ TO: _____

CASING: _____ ft. SIZE: _____ FROM: _____ TO: _____

SHOES: _____ WELL SEAL: _____ HTH: _____ lbs

SCREEN SIZE: _____ LENGTH: _____

CEMENT: 102 SACKS DEPTH GROUTED: 54'

STATIC WATER LEVEL: _____ ft.

PUMPING LEVEL: _____ ft. @ _____ GPM

MAINTENANCE SCHEDULEDIESEL ENGINE

1. CHANGE OIL AND FILTERS MONTHLY.
2. CLEAN AIR FILTER MONTHLY OR DAILY IF DUSTY CONDITIONS PREVAIL.
3. CHECK RADIATOR COOLANT LEVEL ONCE A WEEK.
4. CHECK BATTERY WATER AND CABLES ONCE A WEEK.
5. USE AMOCO 300 SERIES OIL IN CRANKCASE.

AIR COMPRESSORS

1. CHANGE OIL AND FILTERS MONTHLY.
2. USE ONLY THE FOLLOWING OIL IN AIR COMPRESSORS:
AMERICAN INDUSTRIAL #15 (SAE 10W) Below 32°
AMERICAN INDUSTRIAL #31 (SAE 20W) 32°-60°
AMERICAN INDUSTRIAL #51 (SAE 30W) 60° & UP
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2. CHANGE FILTERS (3) IN HYDRAULIC TANK EVERY 3 MONTHS. USE ONLY RYKON MV HYDRAULIC FLUID.
3. WHEN VACUUM GAUGE INDICATES YELLOW, IN LINE FILTERS MUST BE REPLACED. OTHERWISE REPLACE EVERY THREE MONTHS.

40974

Well #
9-10

TEST PUMPING DATA
Municipal Well No. 4
Nashua, Iowa
(Test Pumping Done May 9, 1979)
Jack Delbridge, WHKS present for test pumping

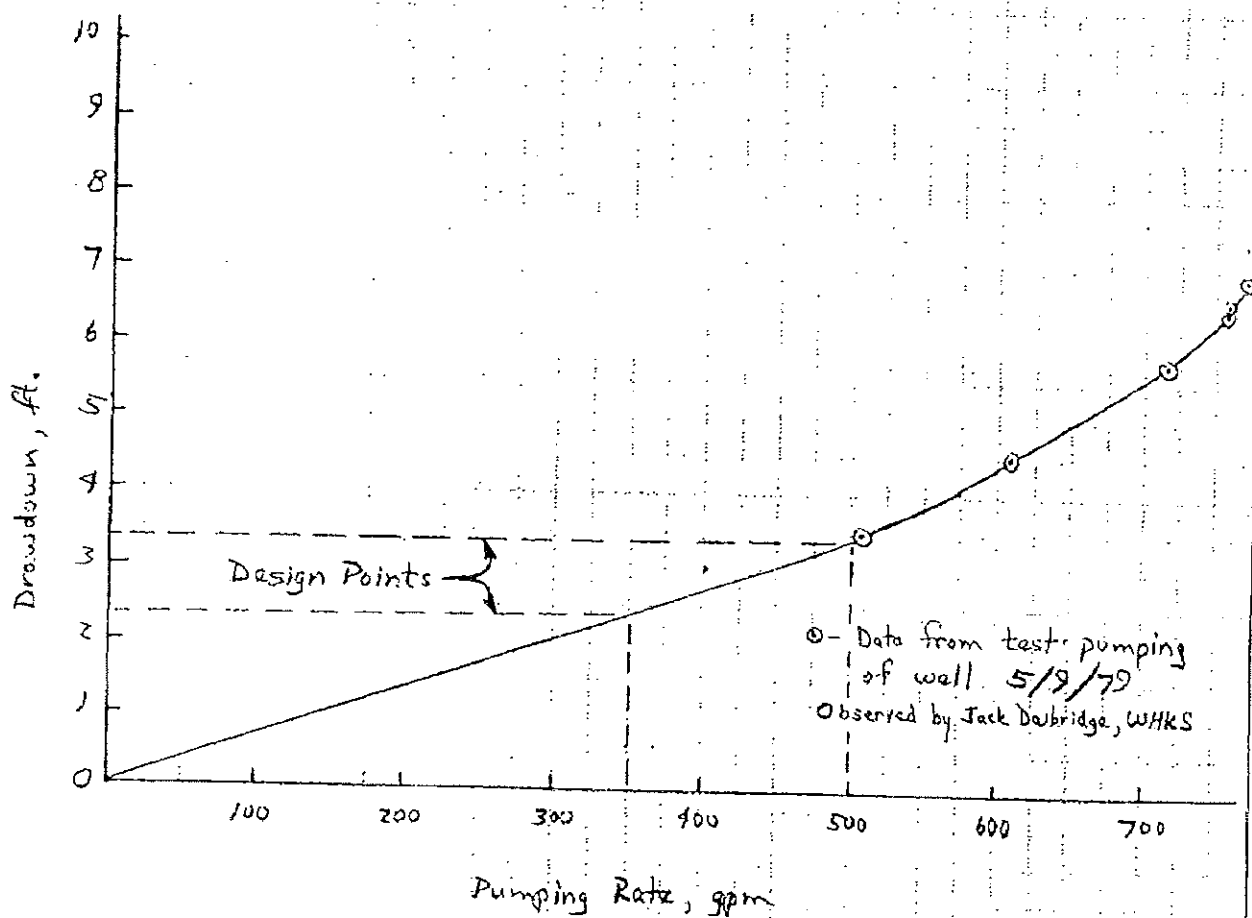
Readings Made From 1 Foot Above Ground

Static	- 53'-0" down	3/27/79
Static	- 46'-6" down	11:00 A.M. 5/9/79
510 gpm	- 50' down	11:00 A.M.
608 gpm	- 51' down	11:10 A.M.
715 gpm	- 52'-3" down	11:25 A.M.
770 gpm	- 53'-5" down	11:40 A.M.
759 gpm	- 53' down	11:55 A.M.
759 gpm	- 53'-2" down	1:00 P.M.
759 gpm	- 53'-2" down	3:00 P.M. (Terminated Pumping)
-	- 48'-0" down	3:15 P.M. Recovery
-	- 47'-8" down	3:30 P.M. Recovery

WALLACE, HOLLAND
KASTLER, SCHMITZ & CO.
216 South Broadway
ROCHESTER, MINNESOTA 55901
Phone 288-3923

JOB WALLACE, HOLLAND 16414352652
SHEET NO. 1 OF 1
CALCULATED BY D.C. Rowan DATE 6/12/79
CHECKED BY DATE
SCALE As Shown

Well A 10-10



Received - 10/29/2012