LOCATION OF WELL
City Name: Pocahontas

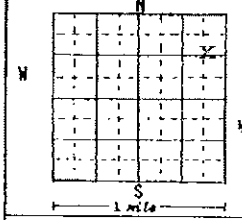
DEPARTMENT OF HEALTH
WATER WELL RECORD

for Water Sample

Township Name	Township Number	Range Number	Section No.	Fraction
Bellville	90 N or S	32 E or W	10	SE NE NE

Distance and Direction from Road Intersections or Street Address and City of Well Location

Show exact location of well in section grid with "X." Sketch map of well location.



Addition Name

Block Number

Lot Number

3. PROPERTY OWNER'S NAME
CITY OF PALMER
Address
PALMER, IOWA

4. WELL DEPTH (completed): 160 Feet Deep ft.
Date of Completion: June 14,1993

5. 1☐ Cable tool 4☐ Reverse 7☐ Driven 10☐ Dug
2☐ Hollow rod 5☐ Air 8☐ Bored 11☐ _____
3☒ Rotary 6☐ Jetted 9☐ Power Auger

6. USE
1☐ Domestic 4☐ Public Supply 7☐ Industry
2☐ Irrigation 5☒ Municipal 8☐ Commercial
3☐ Test Well 6☐ Air Conditioning 9☐

7. CASING — HEIGHT: Above/Below — HOLE DIAM
1☐ Black 4☐ Threaded
2☐ Galv 5☐ Welded Surface 24" ft.
3☒ Plastic 8☐ Drive Shoe? Yes ___ No ☒
8 in. to 145 ft. Weight 250 lbs./ft. — 14 in. to 162 ft.
___ in. to ___ ft. Weight ___ lbs./ft. — ___ in. to ___ ft.
___ in. to ___ ft. Weight ___ lbs./ft. — ___ in. to ___ ft.

8. SCREEN — Or open hole from ___ ft. to ___ ft.
Make Johnson
Type 304 stainless Dia. 8 inch
Slot/Gauze 30 slot Length 15 feet
Set between 145 ft. and 160 ft.
___ ft. and ___ ft.
FITTINGS:

9. STATIC WATER LEVEL
54x ft. ☒ below ☐ above land surface — Date Measured 6-11-93

10. PUMPING LEVEL (below land surface)
76 ft. after 3 hrs. pumping 125 g.p.m.
___ ft. after ___ hrs. pumping ___ g.p.m.

11. WELL HEAD COMPLETION
☒ Pitless adapter, manufacturer Baker model Monitor
2☐ Basement offset 3☐ At least 12" above grade

12. WELL GROUTED?
☒ Yes ☐ No
1☐ Neat Cement 2☒ Bentonite 3☐ _____
Grout material ___ From ___ To ___ ft. Cu. Yds ___

13. NEAREST SOURCES OF POSSIBLE CONTAMINATION
___ feet ___ direction ___ type
Well disinfected upon completion? Yes ☒ No ☐

14. PUMP
Date Installed ___ ☐ Not installed
Manufacturer's Name ___
Model Number ___ HP ___ Volts ___
Length of drop pipe ___ ft. capacity ___ g.p.m.
Material of drop pipe ___
Type: 1☐ Submersible 3☐ L.S. Turbine 5☐ Reciprocating
2☐ Jet 4☐ Centrifugal 6☐ _____

2. FORMATION LOG	COLOR	HARDNESS OF FORMATION	FROM	TO
Topsoil	black		0	3
Yellow Clay	yellow		3	18
Blue Clay	Blue		18	110
Yellow Clay	Yellow		110	125
Blue Clay	blue		125	145
Sand & Gravel			145	160
Blue Clay	blue		160	165
			?	

Use a second sheet, if needed

15. REMARKS, ELEVATION, SOURCE OF DATA, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

___ Licensee Business Name — License No.

Address ___

Signed ___ Date ___
Authorized Representative

___ Date ___
Name of Driller

IDR-01200-01

5/74 30M
7/76 30M
7/78 90M
2/82 10M

IOWA DEPARTMENT OF NATURAL RESOURCES
WATER SUPPLY SECTION
CONSTRUCTION PERMIT APPLICATION
Schedule-5c, Well Profile

NOTICE
There is no fee for examination of this schedule

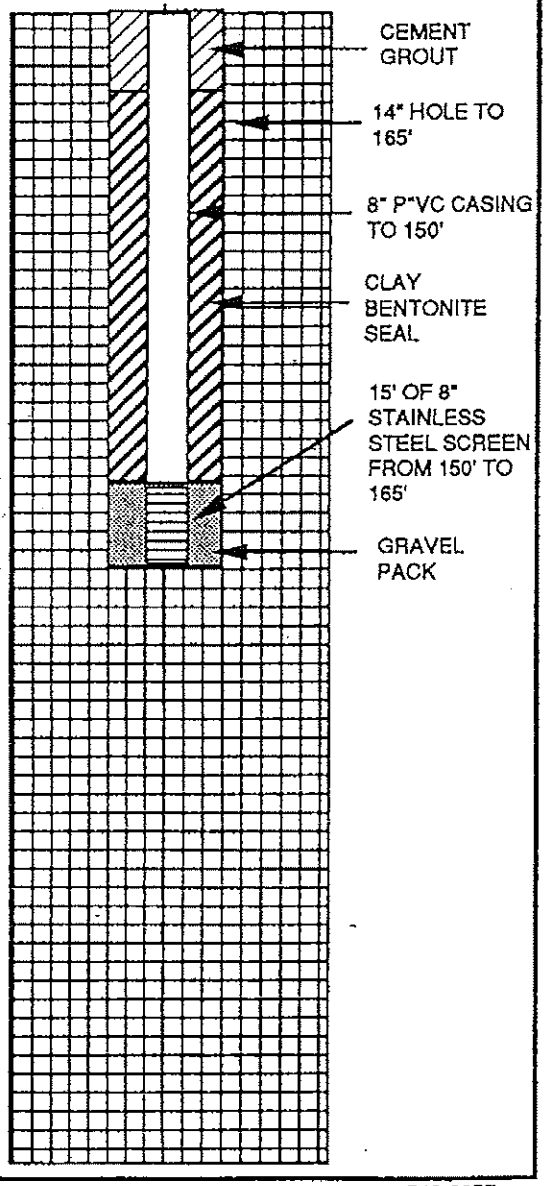
DATE PREPARED 5/3/93	PROJECT IDENTITY	DNR USE PROJECT NO.
DATE REVISED	WELL CONSTRUCTION PALMER, IOWA	PERMIT NO.

1. Well Number 6

Geological Data		Casing Data	Well Data
System	Formation	Material and distance from surface in ft.	Position, kind and extent of casing liners, shoes, etc.
		0 - 10 TOPSOIL	
		10 - 150 CLAY & GLACIAL TILL	
		150 - 165 PLEISTOCENE SAND & GRAVEL	

Scale: Horiz._____ Vert._____

Position of seals, screens, static level



DNR form 12-5c (Nov 86)

542-3077

WATER SUPPLY SECTION
CONSTRUCTION PERMIT APPLICATION
Schedule-5b, Well Appurtenances

NOTICE
There is no fee for the examination of this Schedule

DATE PREPARED 5/4/93	PROJECT IDENTITY	DNR USE PROJECT NO.
DATE REVISED	Well Construction Palmer, Iowa	PERMIT NO.

1. Well Number 6

2. Pump and Motor Information:
   a. Pump Type Submersible
   b. Pump Capacity 85 gpm at 190.00 TDH (ft.)
   c. Size of Pump Discharge Pipe: 3 inches
   d. Motor Horsepower: 7.50 HP

3. Method of regulating well pump starting and stopping: Pressure Sensor From System (spec. page no.)

4. For automatic control systems, what is the time delay period? seconds N/A ☒

5. What type of antibackspin protection is provided? N/A (spec. page no.)

6. Has a low water level cutoff switch or pressure switch been provided and equipped with automatic restart to prevent drawdown of water in the well below the well screen?
   Yes ☐ No ☒

7. Method of surface drainage control away from well Berm around well

8. 100-year flood elevation
   Original ground elevation at the well site 100.00
   Elevation of top of well casing 101.50
   Elevation of top of earthen well berm at the well 101.00
   Elevation of floor slab

9. Radius of top of earthen berm 4 (ft.) Slope of berm 3:1

10. Method of berm erosion control Grass (spec. page no.)

11. For the following, describe the type of equipment installed, reference the applied DNR, AWWA, GLUMRB or ASTM design standard source and number, and list the page of the plans or specifications where the description can be found.

Well Pump, Discharge Piping and Appurtenances	Description	DNR	AWWA	GLUMRB	ASTM	Standard Number	Page Number
Pump	XXXXXXXXXX					11081	2
Discharge Pipe	XXXXXXXXXX					11081	2
Pitless Well Unit						11850	1
Casing Vent						11850	1
Water Level Measurement						11850	1
Disinfection	XXXXXXXXXX					02581	9

12. Type of pump lubrication Submersible (spec. page no.)

13. List all appurtenances provided on each well discharge line in sequence from the well:
    Check Valve, Gate Valve

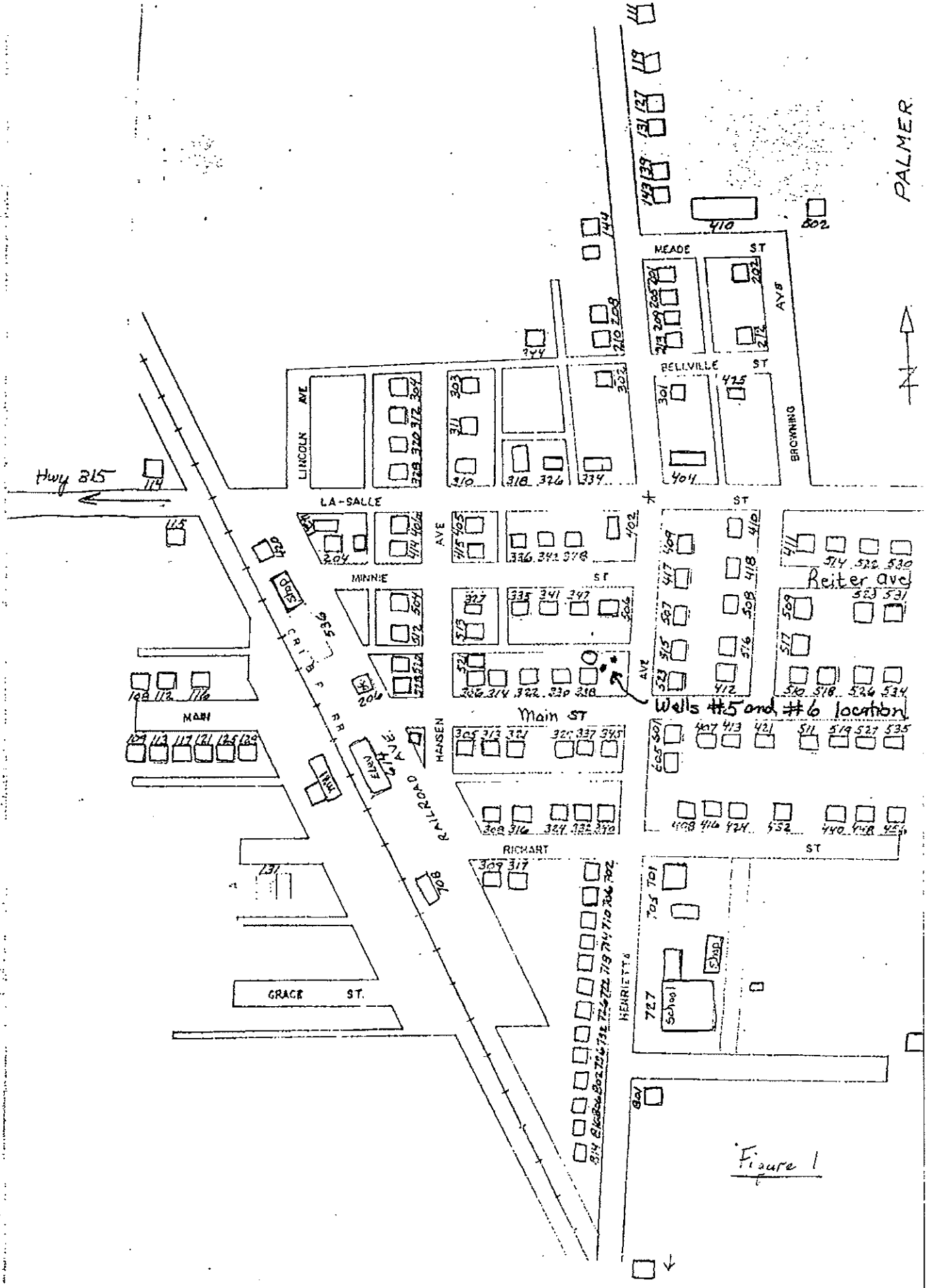
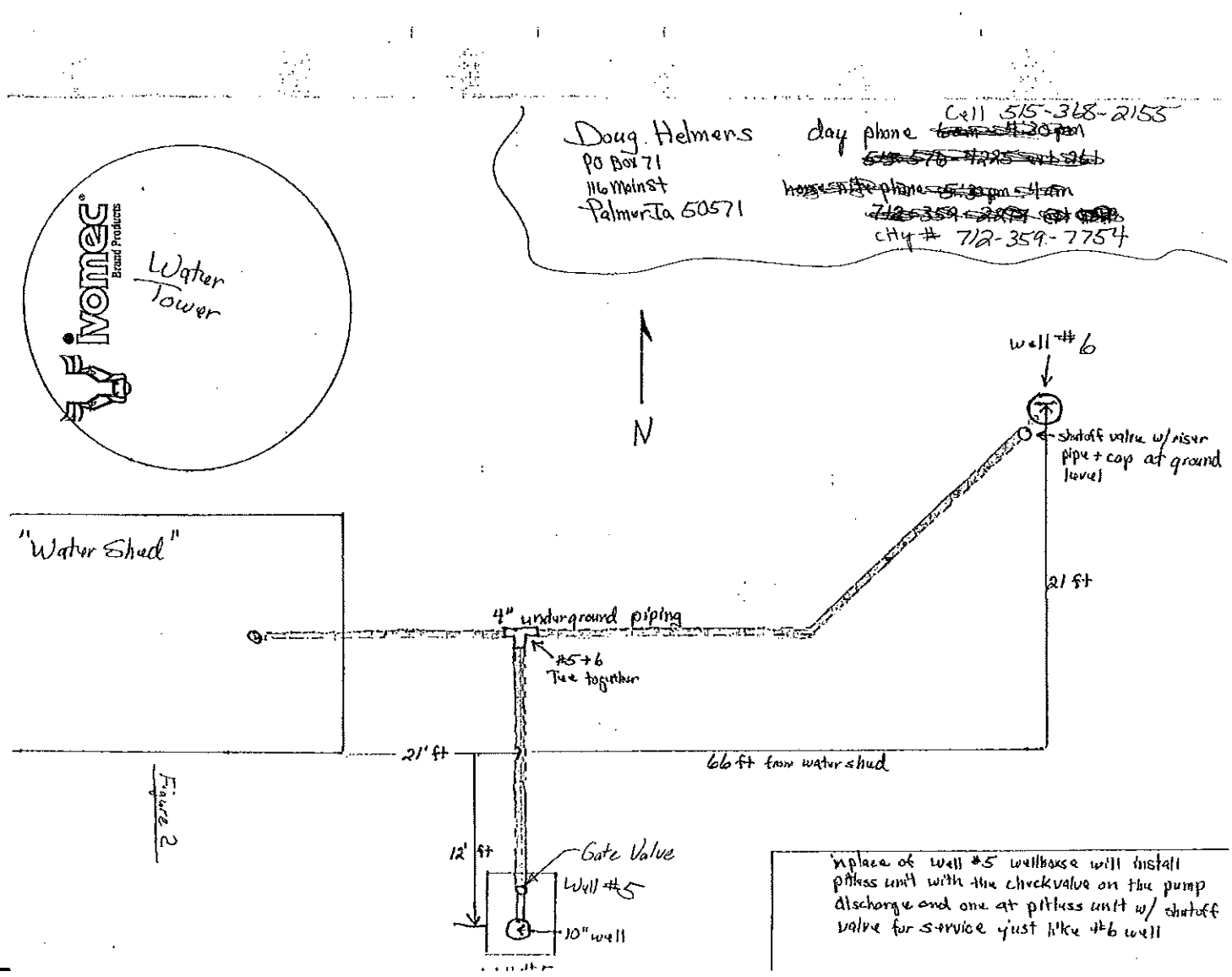

PALMER
MEADE ST
BELLVILLE ST
LINCOLN AVE
BROWNING AVE
LA-SALLE AVE
MINNIE ST
Main ST
RICHART ST
GRACE ST
HANSEN AVE
RAILROAD
CRIB F RR
Hwy 815
MAIN
Reiter ave
Wells #5 and #6 location
HENRIETTA
School

Figure 1


Doug. Helmers
PO Box 71
116 Main St
Palmyra 60571
day phone
Cell 515-368-2155
CHY # 712-359-7754
Water Tower
N
well #6
shutoff valve w/ riser pipe + cap at ground level
"Water Shed"
21 ft
4" underground piping
#5+6 Tee together
21' ft
66 ft from watershed
12' ft
Gate Value
Well #5
10" well
Figure 2
inplace of well #5 wellhouse will install pitless unit with the checkvalve on the pump discharge end and one at pitless unit w/ shutoff valve for service just like #6 well