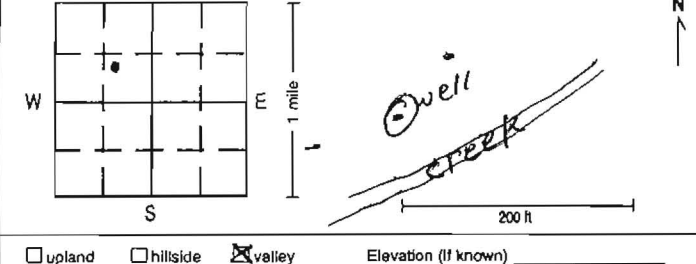


**Site identification**  
 Property Owner Town of Earling Well Number \_\_\_\_\_  
 Address 106 Main Street  
 Tenant Earling, Iowa 51530  
 Well Depth 43'-2" ft Date Completed 10/28/04

**Drill method**  rotary  auger  cable other \_\_\_\_\_  
**Hole size**  
10.5 inch from 0 ft to 42'-3" hole size continued \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft \_\_\_\_\_ inch from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 Record all depth measurements from ground level (GL). Use (+) for above GL measurements.

**Location** County Shelby  
 \_\_\_\_\_ mi. N and 1/2 mi. S of Intersection of M16 and 191  
NW 1/4 of the SE 1/4 of the NW 1/4 of Sec 5 TWP 80 RNG 39 E  
Westphalia Twp  
 Show exact location of well in section grid with a dot (•).  
 Sketch map of well location on property

**Casing** Drive shoe (yes/no) \_\_\_\_\_ Pitless adaptor  (yes) (no) \_\_\_\_\_  
 Size (ID/OD) Type/Wt Depth top Depth bottom Amount (length)  
6 S-490 PVC 0 36'-5" 36'-5"



**Perforated or slotted casing?** (yes/no)  (no) \_\_\_\_\_  
 Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft  
 Perforated / slotted from \_\_\_\_\_ ft to \_\_\_\_\_ ft

upland  hillside  valley Elevation (if known) \_\_\_\_\_

**Casing grouted?**  (yes) (no) \_\_\_\_\_  
 Type Depth Top Depth Bottom Amount  
Neat cement 0 34'-6"

**Formation log**

From	To	Color	Hardness	Formation description
0	4'-6"	Brown	med.	clay
4'-6"	7	Black	"	"
7	15'-6"	Dark brown	med	clay
15'-6"	17	gray	med soft	clay
17	24	Blue	med soft	clay
24	26	Blue	soft	clay
26	28	Gray	soft	clay + wood
28	30	Gray	soft	clay
30	34	Blue gray	soft	clay
34	35-8	Blue gray	soft	clay + sand
35-8	37-8	gray	Hard	sand
37-8	39	gray	Hard	sand + gravel
39	41	Brown orange	Hard	sand + gravel
41	43-2	"	"	sand, gravel, rocks
43-2	45-2	gray	med	clay

**Well screen?**  (yes) (no) \_\_\_\_\_

Diameter	Slot size	Depth Top	Depth Bottom	Length	Material
6	.035	36-9	38'-3"	1'-6"	Stainless
6	.100	38'-3"	43-2	4'-11"	Steel

Bottom capped  (yes) (no) with Stainless Steel plate  
 Seals / Packers (yes/no) kind \_\_\_\_\_ depth \_\_\_\_\_ ft  
 Gravel packed  (yes) (no) from 34-6 ft to 43-4 ft  
 type Platt River Road amount Run Through 1/2" mesh Scra

**Well developed?**  (yes) (no) \_\_\_\_\_  
 Explain bailey developed + test pumped  
4th disinfected

**Pump installed?** (yes/no) \_\_\_\_\_ Date \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
 Installer's name \_\_\_\_\_  
 Type of pump \_\_\_\_\_ Depth to intake \_\_\_\_\_ ft  
 Pump diameter \_\_\_\_\_ Rated capacity \_\_\_\_\_ GPM

**Water Information** Aquifer:  sand/gravel  limestone  sandstone  
 Main water-supply zone from 35-8 ft to 43-2 ft  
 Final water level (static water level) 10'-6" ft (below/above) GL.  
 Pumping water level 28' ft below GL;  tape  airline  E-line  
 At yield of 47 GPM;  orifice  volumetric  estimate Date 10-25-04

**Remarks** (including depth of lost drilling fluids, materials, or tools)  
N 41° - 46.514' W 95 - 24.770'  
41.77523 Lat. -95.41283 Long.

**Water quality test?** (yes/no) \_\_\_\_\_ Date tested \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
 Tested by \_\_\_\_\_  
 Test results \_\_\_\_\_

**Well use**  
 Domestic  Municipal  Industrial  
 Livestock  Public Supply  Monitoring  
 Test Well  Irrigation  Other \_\_\_\_\_ (explain)

Contractor Jacobs Well Drilling Inc.  
 Address 1905 Lincoln Ave. Harlan, Ia 51537  
 Driller David Jacobs + Dave Certification no. 3204  
Hokombe

**TOWN OF EARLING**

**Test hole log**

*North side of creek*

June 25, 2004

**Contractor: JACOBS WELL DRILLING INC.**

1905 Lincoln Avenue

Harlan, IA 51537

**Driller: David Jacobs**

**Location:** North 41 degrees, 46.514' West 95 degrees, 24.770'

Latitude is 41.77523

Longitude is -95.41283

**Bore hole:** Size is 5".

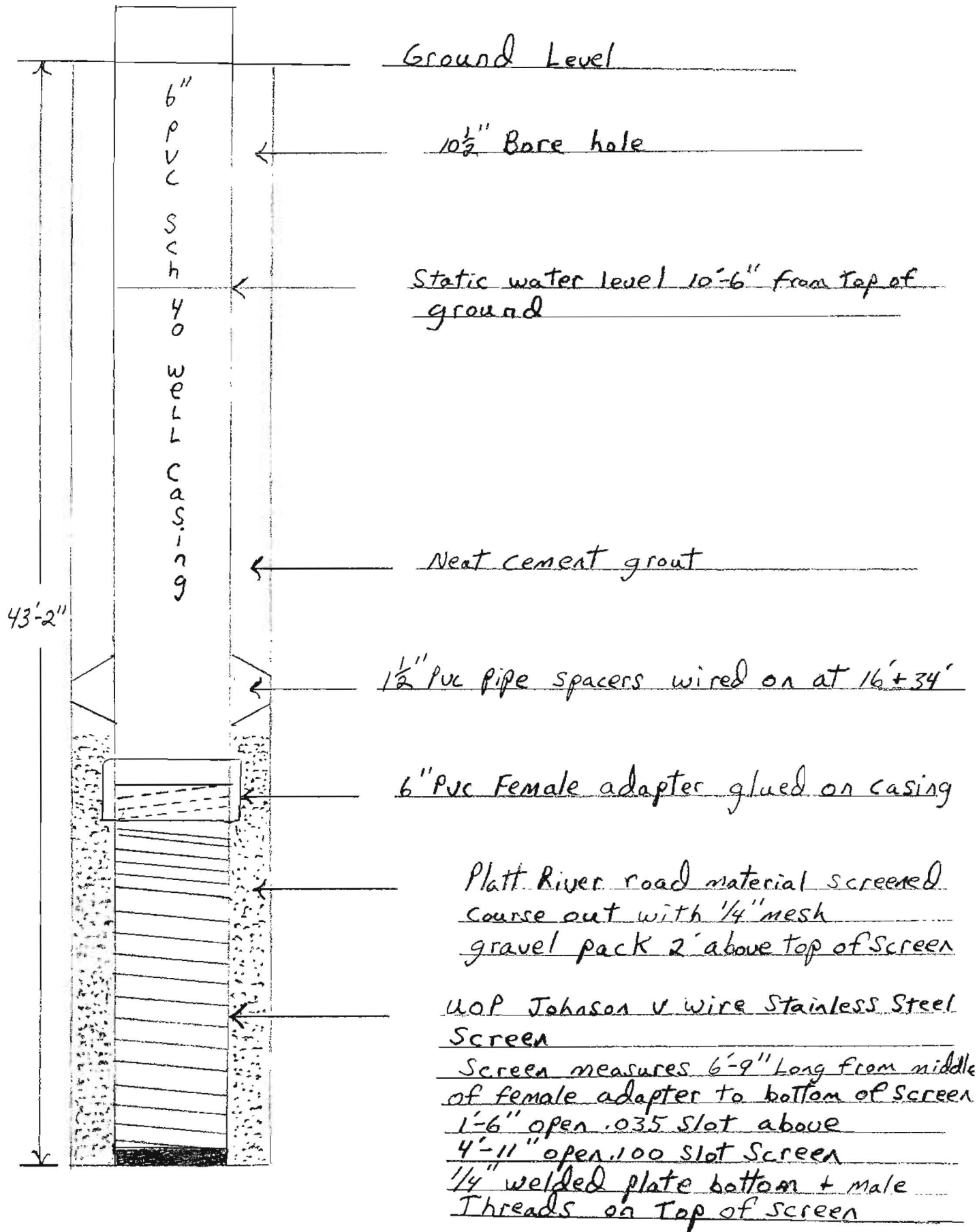
**Well log:**

Ground level is 0.

0'-4'6"	Brown, medium clay
4'6"-7'	Black, medium clay
7'-15' 6"	Dark brown, medium clay
15' 6"-17'	Light gray, medium, soft clay
17'-24'	Blue, medium, soft, sticky clay
24'-26'	Blue, soft clay
26'-28'	Gray, soft clay, with some wood
28'-30'	Gray, soft clay
30'-34'	Blue, gray soft clay
34'-35' 8"	Blue, gray soft clay, sand
35' 8"-37' 8"	Gray sand
37' 8"-39'	Gray sand and gravel
39'-41'	Brownish-orange sand and gravel
41'-43' 2"	Brownish-orange sand and gravel with rocks
43'2"-45' 2"	Gray, medium clay

Town Of Earling 10-21-04

Dave Jacobs Jacobs Well Drilling Inc.



**TOWN OF EARLING**

*New Well – North side of creek*

**Contractor: JACOBS WELL DRILLING INC.**

*1905 Lincoln Avenue*

*Harlan, IA 51537*

**Driller: David Jacobs**

This well was dug on October 21, 2004, and test pumped on October 25, 2004 at 47 gallons per minute. The test pump intake was 40 feet from ground level.

Pumping test: Static water level was 10' 6" at 4:35 p.m., October 25, 2004 with no other wells pumping at the same time as this test was performed. The results are as follows:

4:36 p.m.	20'
4:37 p.m.	20' 6"
4:38 p.m.	21'
4:39 p.m.	21' 6"
4:45 p.m.	22' 9"
4:50 p.m.	23' 3"
4:55 p.m.	23' 6"
5:05 p.m.	24'
5:20 p.m.	24' 6"
5:35 p.m.	25'
5:50 p.m.	25' 3"
5:55 p.m.	All other wells started pumping
6:05 p.m.	26'
6:20 p.m.	27'
6:35 p.m.	28'

The pump was shut off at 6:35 p.m.

6:36 p.m. the static water level was at 21'

6:38 p.m. the static water level was at 18'

6:40 p.m. the static water level was at 16' 6"

**TOWN OF EARLING**

**Test hole log**

*North side of creek*

June 24, 2004

**Contractor: JACOBS WELL DRILLING INC.**

1905 Lincoln Avenue

Harlan, IA 51537

**Driller: David Jacobs**

**Location:** North 41 degrees, 46.504` West 95 degrees,24.827`

Latitude is 41.7750666

Longitude is -95.4137833

**Bore hole:** Size is 5".

**Well log:**

Ground level is 0.

0'-4' 6"	Black, medium clay
4' 6"-12' 10"	Brown, medium clay
12' 10"-13'10"	Brownish, gray medium clay
13' 10"-18'	Gray, medium clay
18'-23'	Greenish, gray soft clay
23'-24'6"	Blue, gray soft clay
24'6"-32'	Brown, soft clay
32'-35'	Blue, gray soft clay
35'-40'8"	Brown, soft clay
40'8"-43'2"	Brownish, gray junky clay
43'2"-60'	Gray, medium clay