



PAY ESTIMATE NO. 11

Date March 15, 1999

(Final)

Contractor:

Cahoy Incorporated  
 411 E. Main Street  
 P.O. Box 309  
 Fredericksburg, IA 50630

Project Title	Deep Well No. 4 City of Altoona	
Orig. Contract Amount & Date	\$ 611,482.00	Dec 1, 1997
Pay Period	December 30, 1998 to March 15, 1999	

BID ITEMS

	Description	Unit	Estimated Quantity	Unit Price	Extended Price	Quantity Complete	Value Completed
1.1	Mobilization of Equipment	LS	xxx	xxx.xx	\$ 135,920.00	100%	\$135,920.00
1.2	26" Drill Hole	LF	85	\$ 265.00	\$ 22,525.00	108.58	\$28,773.70
1.3	21" Drill Hole	LF	1,935	\$ 92.00	\$ 178,020.00	1955	\$179,860.00
1.4	12-1/4" Drill Hole	LF	445	\$ 40.00	\$ 17,800.00	461	\$18,440.00
1.5	22" Liner Pipe	LF	85	\$ 92.00	\$ 7,820.00	127.48	\$11,716.16
1.6	16" Casing Pipe	LF	2,022	\$ 35.00	\$ 70,770.00	2064.13	\$72,244.78
1.7	16" Cementing Shoe	LF	1	\$ 2,250.00	\$ 2,250.00	1	\$2,250.00
1.8	Pressure Cement Grouting Setup	LS	xxx	xxx.xx	\$ 16,900.00	100%	\$16,900.00
1.9	Grouting	Sacks	1,850	\$ 10.50	\$ 19,425.00	1770	\$18,585.00
1.10	Cement Bond Log	LS	xxx	xxx.xx	\$ 9,000.00	100%	\$9,000.00
1.11	Test Setup	LS	xxx	xxx.xx	\$ 8,560.00	100%	\$8,560.00
1.12	Well Testing	Hrs.	25	\$ 100.00	\$ 2,500.00	25	\$2,500.00
1.13	Acid Treatment	LS.	xxx	xxx.xx	\$ 6,300.00	0%	\$0.00
1.14	Well Pump	LS.	xxx	xxx.xx	\$ 28,892.00	100%	\$28,892.00
1.15	Discharge Column	LF.	400	\$ 81.00	\$ 32,400.00	400	\$32,400.00
1.16	Pump House	LS.	xxx	xxx.xx	\$ 52,400.00	100%	\$52,400.00
Unit Adjustment Prices							
2.1	Discharge Column Assembly	L.F.	xxx	\$ 65.00	\$ 0.00	0%	\$0.00
				Total	\$ 611,482.00		\$618,441.64

*file out*  
 V&K Job No. 25843 *est*

# Municipal Water-Supply Inventory

DATA FOR: ALTOONA #4  
WNUMBER: 53394

PWSID\SEQ#: 7707030- 4  
USGS ID: 0

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## GENERAL INFORMATION

LOCATION: T 79N R23W Sec 14NESESW COUNTY: POLK  
TOPOGRAPHIC MAP: ALTOONA  
ELEVATION: 960 feet SITE TYPE: Drilled hole TOTAL DEPTH: 2527 feet BEDROCK DEPTH: 0 feet  
DRILLER: [ 0 ] 0 DRILL DATE: 12/01/98 DRILLING METHOD:  
WELL TYPE: Municipal WELL DEPTH: 2527.00 feet AQUIFER: Cambrian/Ordovician

STATUS: Primary ON LINE: 01/01/99 ABANDONED: / / PLUGGED: / /  
LOG TYPE: LOG QUALITY: SAMPLE TYPE: BEDROCK DEPTH: 0 feet STRIP LOG BY:  
LOG TYPE2: LOG QUALITY2: BASIN: 7100008  
STRIP LOG DATE: / /  
SUPPLY PERCENT: 30.00%

COMMENTS: Exact location is uncertain.

EDIT DATE: 02/12/01

VULNERABILITY: 4

LOCATION: ACROSS ST. FROM NEW WATER PLANT; S OF PRAIRIE MEADOWS, W OF WASTEWTR

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## WELL CONSTRUCTION DATA FOR ALTOONA #4

HOLE SCHEDULE: WELL CONSTRUCTION DATE: 12/01/98  
(1) Hole diameter: 16 inches Depth to bottom: feet

CASING SCHEDULE:

GROUT SCHEDULE:

SCREEN OR PERFORATED CASING SCHEDULE:

GRAVEL-PACKED: False Gravel-packed top: feet Gravel-packed bottom: feet

PUMP SCHEDULE:  
Pump type: Diameter: inches Depth to intake: 400 feet  
Rated capacity: gpm

COMMENTS: 10" diameter column; set @ 400'

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## HYDROGEOLOGIC INFORMATION FOR ALTOONA #4

# Municipal Water-Supply Inventory

MAIN WATER:  
Main water top: 0 feet Main water bottom: 0 feet Pump rating: 0 gpm Pump yield: 0 gpm

DATE PUMPED: 12/01/98 TIME PUMPED:  
STATIC WATER LEVEL: 315.0 feet PUMPING WATER LEVEL: 0.0 feet YIELD:  
0.0 gpm DURATION:  
AQUIFER PUMPED: Cambrian/Ordovician PUMP TEST: False PUMP METHOD:  
MEASUREMENT:

COMMENTS:

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DRILLER'S LOG FOR ALTOONA #4

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WATER QUALITY DATA FOR ALTOONA #4

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