

WELL/BORING NO: CIRWA304 Sampler: AKF  
 Driller: Northway Well + Pump  
 Location: Waverly, IA  
 Start Date/Time: 6/28/04 1200 Completion Date/Time: \_\_\_\_\_  
 Drill Equipment: Ingersoll Rand Cyclone Drills Sample Method: \_\_\_\_\_  
 Ground Elevation: 945 ft Northing: N42.71400° Easting: W092.51389°

Depth (bls)	Recovery (ft/ft)	Sample Depth	Sample ID and Method	Description of Material Drilled	Unified Classification	PID Monitoring		
						Reading (ppm)	Time	Location (background, headspace, well head, etc.)
10								
20								
30								
40								
50				48 ft Silty LM yellow brown 2.5y 6/4 (2ft)-Loss in mud pit Brittle			6/29/04 1230	
60				60 ft LM Lt brownish gray 2.5y 6/2			6/29/04 1300	
70								
80				75 ft Interbedded Brown Silty LM, Gray LM + White 2.5y 7/1 Shale			6/29/04 1330	
90				85 ft Muggy LM 2.5y 6/3 Calcite crystals White 2.5y 8/1 trace chert interbedded siltstone w/ yellow clay			6/29/04 1420	
100				TD=85 ft Refusal at 85 ft due to fracture w/ gravels				

to the complex

785 597 2310

drilled  
dish + think  
TV  
More fractured  
than thought  
More fractured  
than thought  
More fractured  
than thought

Screened wells @  
Cedar Falls  
Limestone  
but because  
125'

# CAMPBELL SUPPLY CO.

## INDUSTRIAL & CONTRACTOR SUPPLIES

**IOWA FALLS**  
710 S. Oak  
Iowa Falls, IA 50126  
(641) 648-4621  
FAX (641) 648-4624  
(800) 782-5134

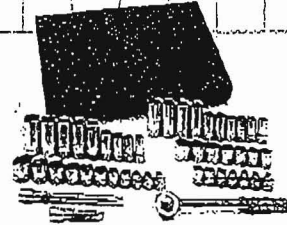
**CEDAR RAPIDS**  
2127 North Towne Ln. NE  
Cedar Rapids, IA 52406  
(319) 395-0991  
FAX (319) 395-0003  
(800) 798-8665

**SIOUX CITY**  
2650 Bridgeport Drive  
Sioux City, IA 51111  
(712) 252-6120  
FAX (712) 252-6135  
(800) 252-6120

**WATERLOO**  
911 Commercial  
Waterloo, IA 50702  
(319) 234-6613  
FAX (319) 234-1401  
(800) 891-3044

80' TO 93'	ROCK BROWN
93' TO 94'	CREVICES
94' TO 99'	ROCK BROWN SOFT
99' TO 102'	ROCK HARD
102 - 110'	BROKEN ROCK AND SAND SOFT
110' - 116'	CREVICES ROCK BROWN HARD
116' - 125'	ROCK SAND BROWN SOFT
125' - 155'	ROCK BROWN HARD
155' - 160'	BROKEN ROCK BROWN
160' - 175'	ROCK BROWN SOFT
175' - 180'	CREVICES
180' - 195'	ROCK BROWN HARD
210	Crevice
220	Shale

ATTN: Martha



Case  
24" to bedrock @ 50  
drill m down  
to 125'  
Pump + try to  
develop

85 feet or  
125 feet

W 61479

-123

2/1/07

80'-105'	Dolom:Ta w/orng clay
105-110	SS
110-115	Dol
115-125	SS + Dol
130	
130-135	Dol + LS
135-140	Dol + LS? <sup>some</sup> Sand
145	
145-150	$\approx \frac{1}{2}$ Dol $\approx \frac{1}{2}$ SS
150-155	Dol + LS <sup>sd</sup> some V.P. SS - S/LS
60	Dol + LS
65	carb
65-70	carb + SLs
75	carb + SS <sup>SLs</sup>
80	Sh, grn, carb
85	Sh, carb
90	<del>carb</del>
95	Sh, grn + $\approx 20\%$ Dol
200	Dol $\approx \frac{1}{3}$ sd.
205	carb $\approx 20\%$ sd
210	carb
10-15	Dol + Sh
215-220'	carb $\approx 20\%$ sh

MJB

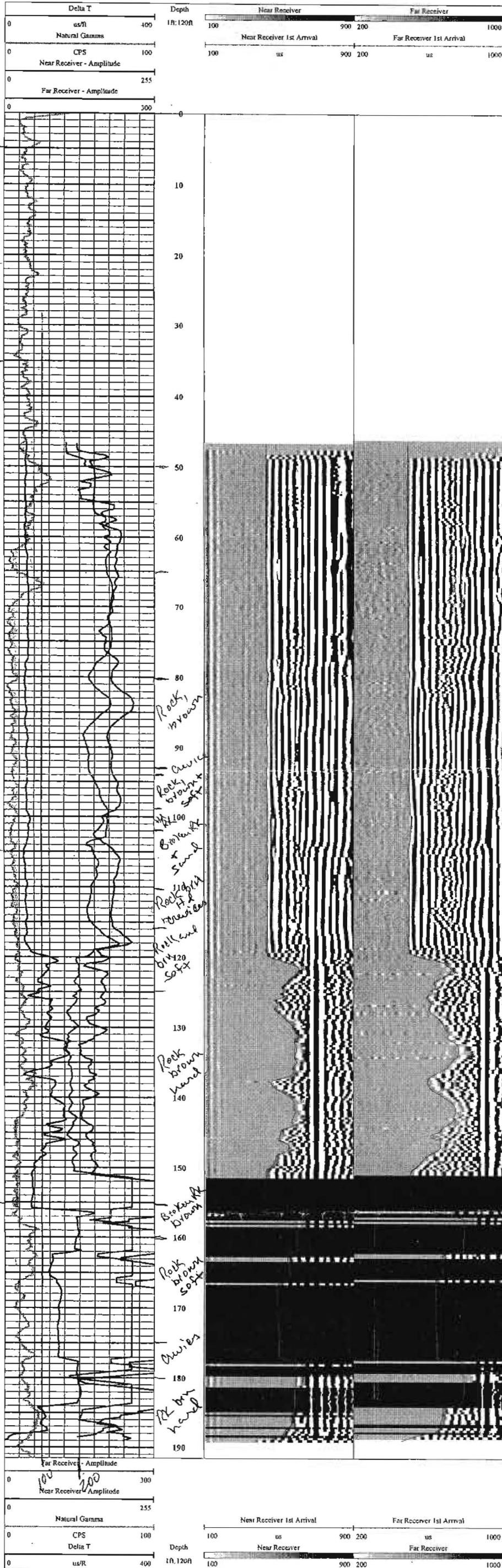


MIDWEST REGION  
 PO Box 81864  
 Lincoln, Nebraska 68501  
 Telephone: 402.466.5997  
 Fax: 402.466.6019

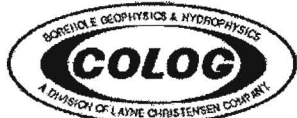
Client: Central Iowa Water  
 Project: Well Field Study  
 Location: Waverly, Iowa  
 Well ID: Well 1

Date: 1/27-2/8/85

Waverly  
 1999  
 Log



to 206'  
 L+gr LM  
 206 to 223  
 L+gr LM (hand)  
 223 - 228'  
 RYM SH  
 LMM



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 Lincoln, Nebraska 68501  
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Client: Central Iowa Water  
 Project: Well Field Study  
 Location: Waverly, Iowa  
 Well ID: Test Well

Date: 1/27-28/06

