Well. #4

SHAWVER WELL CO., INC. WELL LOG DATA

Well NO: 9301017

First Name: INTERSTATE POWER COMPANY
Last Name: INTERSTATE POWER COMPANY

Second Name:

Address1: 1000 MAIN STREET

Address2: P O BOX 769 City: DUBUQUE Zip: 52004-0769

Short Co. Name: ALL Allamakee

Township: Lafayette

Section: 2 Quarters: SENW Start Date: 01/17/93

End Date:

Log of Well	0	to	1	Topsoil
	1	to	2	Green clay
	2	to	8	Sand
	2 ° 8 °	to	24	Soft sandy clay
	24	to	321	Sandstone and shale
	32	to	35 1	Shale
	351	to	38 -	Sandstone
	381	to	41	Shale
	41	to	46	Gray limerock
	46'	to	551	Yellow limerock
	551	to	110	Sandstone with thin white shale streaks
	110	to	180	Sandstone
	180	to	193	Gray sandstone
	1931	to	218	Sandstone
	218	to	237	Gray sandstone
	237	to	237 4"	Shale
	237 4"	to	240	Limerock

Description
The well is cased to 43° with 16" O.D. x .375 wall P.E. steel casing. The well is cased from 0° to 143° with 8" I.D. x .322 wall P.E. steel casing. A 14 3/4" hole was drilled to 140° and cement grout was pumped in the annular space. SEE TEST PUMPING DATA IN TEST PUMPING FILE.

Static Water Level: 18'

Pump Setting:

Water Test:

Bore Hole Data

0° to 41° 17½°

41' to 140' 14 3/4" diameter 140' to 237' 7 7/8" diameter

Driller: Jim Bunting

WATER SUPPLY SECTION CONSTRUCTION PERMIT APPLICATION

345181

SCHEDULE 5c, Well Profile

	The control of the co	мот	ICE	
DATE PREPAR	RED PROJECT	DENTITY	ination of this schedule	DNR USE
9/14/9	2			PROJECT NO.
DATE REVISE	LANSIN	G POWER STATION W	TELL NO. 4 CONSTRUCTION	PERMIT NO.
Wall Number				13-036W
Mail Mumbe	r:4		1100	•
	Geological Data	Casing Data	well	-lof
System	Formation Material an	d Position, kind	Well	Cata
	distance fr		Scale: Horiz. 1"=1' Vert. 1	"-40 Position of
1	surface in	ft. casing liners,		seals, screens
-	(Estimate	d) shoes, etc.	. <u>£</u>	static level
				GND GND
1	Alluvial	16" Casing -		i:
	Sand & Gra	avel to 40' depti	h HMM 1 HMM	H
1	30' _	1	10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	H
1	_ 30 _			
			MM I SM	H 40'
1	Cambrian			1 — 40
	Franconia Sandstone			-
	Dandstone		[12] [2] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	
		Neat Cement-		7
	75' -	to 160' dept	th NET I I ME	1
	-	(+3" thick)		
				+
	1]
			超速 383	+
		8" Casing		-
		to 160' Depti		
]		
1	<u></u>			⊕
1	Ironton-	1	20 EX 20 20 20 20 20 20 20 20 20 20 20 20 20	
	Galesville			
	Sandstone			160'
				*
	S.=0	8" Open Hole-		
	200'—			i
1				
	Eau Claire	9.	 	
	014116			1
				l
				1
			 	240'
				1
				1
				1
				1
1				1