	Casing	•	Borehole	-	•	Grout			Gravel pack or	MW filter pack
Well type		depth	diameter	•	method		Bottom of grout	Top of grout	MW filter pack	seal
ROTARY and	2 inches	25 feet	at least 2 inches	neat cement or	pressure	minimum	well penetrating bedrock	ground surface	gravel pack shall	
AUGERED WELLS	minimum		greater than	bentonite slurry	grouting		bottom of well casing or top of		not extend more	
Rule 6 Sec. 1	(inside)	(below	outside diameter			borehole	formation packer	if pitless adapter is installed)	than 10 feet above	
and anotala askin tasi		0	of casing			annulus	well in unconsolidated aquifer		top of well screen	
and certain cable tool		surface)				VAR	top of natural or introduced		VAR	
and jetted wells		VAR					gravel pack			
CABLE TOOL and	2 inches	25 feet	at least 2 inches	bentonite slurry,	during			ground surface	gravel pack shall	
JETTED WELLS	minimum	minimum	greater than out-	granular bentonite, or	installa-				not extend more	
Rule 6 Sec. 3	(inside)	(below	side diameter of		tion of				than 10 feet above	
		ground	0, 0	bentonite	casing				top of well screen	
		surface)	at least 3 feet but		(slurry OK				VAR	
			no more than 5		by gravity)					
			feet below surface							
BUCKET WELL	2 inches	10 feet	(not specified	below buried slab	earth is	minimum	washed graded gravel	washed graded gravel		
installed as	minimum		a bucket well is	3 3	tamped to		bottom of well	bottom of buried slab		
BURIED SLAB	(inside);	(below	a large-diameter	above buried slab	minimize	borehole	concrete or bentonite	concrete or bentonite		
CONSTRUCTION	pipe in	ground	well by definition)		settling	annulus	top of buried slab	minimum 6-inch seal layer		
Rule 6 Sec. 2b	slab	surface)		concrete or granular,			clean earth	clean earth		
	2 inches			pelletized, or coarse			top of concrete or bentonite	ground surface		
	minimum			grade crushed benton-			seal layer			
				ite, then clean earth						
BUCKET WELL		5 feet	at least 2 inches	lower portion			washed graded gravel	washed graded gravel		
not installed as			greater than	washed graded gravel			bottom of well	at least 5 feet below ground		
buried slab		(below	outside diameter	upper portion				surface		
construction		-	of lining or casing	neat cement, bentonite			cement, bentonite slurry, or	cement, bentonite slurry, or		
general provisions		surface)		slurry,or granular,			bentonite particles	bentonite particles		
Rule 6 Sec. 2c				pelletized, medium			at least five feet below ground	ground surface		
				grade or coarse grade			surface			
		h attans of	at la a at O in also	crushed bentonite	a a stila dia	 				
BUCKET WELL			at least 2 inches		earth is		washed graded gravel	washed graded gravel		
not installed as		borehole	greater than	0 0	tamped to		bottom of well	not less than 10 feet below		
buried slab	(inside)		outside diameter		minimize		hantanita	ground surface		
construction			of lining or casing		settling		bentonite	bentonite		
small diameter, fully				granular, pelletized, or			top of graded gravel	minimum 6-inch seal layer		
cased				coarse grade crushed			clean earth	clean earth		
Rule 6 Sec. 2c(6)				bentonite, then clean			top of bentonite seal layer	ground surface		
				earth						

CONSTRUCTION STANDARDS BY WELL TYPE--Indiana Water Well Drilling Rules, 312 IAC 13

	Casing	Casing	Borehole	Grouting material	Grouting	Grout			Gravel pack or	MW filter pack
Well type	diameter	depth	diameter	in annular space	method	amount	Bottom of grout	Top of grout	MW filter pack	seal
ROTARY and AUGERED MONITORING WELLS Rule 8 Sec. 3a-i and certain cable tool and jetted monitoring wells	2" minimum (to monitor grnd water quality) 3/4" min. (to monitor grnd water levels)		nominal diameter of casing	neat cement or bentonite slurry for most wells, but see grouting table for Rule 8 Sec. 3j	pressure grouting (for most wells)		<i>well penetrating bedrock</i> bottom of well casing <i>well in unconsolidated mat'ls</i> top of filter pack or filter pack seal	(or 1 foot below ground surface if flush-mounted protective cover pipe is installed)	filter pack shall not extend more than 2 feet above top of well screen or uppermost water-bearing unit to be monitored VAR	filter pack seal (of pelletized, medium grade, or coarse grade crushed bentonite) shall not extend more than 2 feet above filter pack
CABLE TOOL MONITORING WELLS Rule 8 Sec. 3a-i & k	2" minimum (to monitor grnd water quality) 3/4" min. (to monitor grnd water levels)		greater than nomi- nal diameter of driven casing, dug at least 3 feet but	bentonite slurry or granular bentonite, but see grouting table for Rule 8 Sec. 3j if a variant method creates significant annular space	during installa- tion of casing (slurry OK by gravity)				filter pack shall not extend more than 2 feet above top of well screen or uppermost water-bearing unit to be monitored VAR	filter pack seal (of pelletized, medium grade, or coarse grade crushed bentonite) shall not extend more than 2 feet above filter pack
GEOTHERMAL HEAT PUMP WELLS for vertical closed loop system Rule 8 Sec. 1c					pressure grouting		bottom of borehole	ground surface		

VAR--indicates that driller may seek a variance from this standard by contacting DNR Division of Water

MW--monitoring well