

 MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI GEOLOGICAL SURVEY Domestic, Multi-Family, High Yield, Public, and Open Loop Heat Pump Well Certification Report					FOR OFFICE USE ONLY					
REFERENCE NUMBER 00186302			REVENUE NUMBER 784069							
CERTIFICATION NUMBER A063017			CHECK NO. 1052							
DATE RECEIVED			APPROVED BY DNR USERID		APPROVAL DATE 12/11/1997					
TYPE Domestic	STATUS Active	COMPLETED 09/11/1997	DRILL AREA Area 6	TOTAL DEPTH 265.0	COST SHARE?	VARIANCE #				
SITE INFORMATION										
SITE NAME CONVERSION				ADDRESS (STREET, CITY, STATE, ZIP) , MO						
DECIMAL DEGREE COORDINATES 38.06322, -90.71747		DEGREES MINUTES SECONDS 38°3'47.6" 90°43'2.9"		<input type="checkbox"/> RETURN <input type="checkbox"/> SUPPLY						
OWNER INFORMATION										
OWNER NAME JIM THOMPSON				ADDRESS (STREET, CITY, STATE, ZIP) 303 CANNON MINES RD CADET, MO 63630						
SURFACE CASING INFORMATION										
SURFACE CASING LENGTH			OUTSIDE DIAMETER		SACKS OF GROUT					
CASING AND LINER INFORMATION										
CASING MATERIAL	TOP	BOTTOM	CASING OD	HOLE DIA	CASING WEIGHT	DRIVE SHOE?	LINER?	LINER USE	PERF FROM	PERF TO
Plastic	0.0	80.0	6.000	8.620			N			
CASING GROUT INFORMATION										
GROUT METHOD		TYPE				AMOUNT			HOURS SUSPENDED	
Gravity		Bentonite Granular								
SCREEN INFORMATION					PACKER INFORMATION					
SCREEN TYPE	SCREEN MATERIAL	TOP	BOTTOM	SLOT SIZE	PACKER TYPE			PACKER DEPTH		
PUMP INFORMATION					FORMATION INFORMATION					
PUMP INSTALL DATE	OWNER INSTALLED N	DEPTH SET 240.0		RATE(gpm) 20		TOP	BOTTOM	FORMATION DESCRIPTION		
						0.0	25.0	CLY		
CASE SEAL Pitless Unit	WELL YIELD 75	STATIC WATER LEVEL 80.0		GROUNDWATER DEPTH		25.0	180.0	LS		
						180.0	265.0	LS/DOL		
PUMP INSTALLER INFORMATION										
PUMP INSTALLER BUSINESS PATTERSON WILLIE		PERMIT # 003033	NAME JOHNNY PATTERSON							
PUMP INSTALLER APPRENTICE BUSINESS		PERMIT #	NAME							
DRILLER INFORMATION										
DRILLER BUSINESS PATTERSON WILLIE		PERMIT # 003033	NAME JOHNNY PATTERSON							
PRIMARY CONTRACTOR BUSINESS PATTERSON WILLIE		PERMIT # 002476	NAME WILLIE PATTERSON							
DRILLER APPRENTICE BUSINESS		PERMIT #	NAME							