

MAIL TO:

WATER SUPPLY SECTION
DIVISION OF WATER RESOURCES
89 KINGS HIGHWAY
DOVER, DELAWARE 19901
PHONE: 302-739-3665
FAX: 302-739-2296

STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES
AND ENVIRONMENTAL CONTROL

APPLICATION FOR A PERMIT
TO CONSTRUCT A WELL

0943-29

http://www.dnrrec.state.de.us/
APPLICATION MUST BE SUBMITTED AND
PERMIT RECEIVED BEFORE DRILLING IS
STARTED.

- OFFICIAL USE ONLY -

PAGE # 1 OF 4 PAGES
PERMIT NO: 164323

PLEASE TYPE OR PRINT - USE BLUE OR BLACK INK ONLY -
ILLEGIBLE OR INCOMPLETE FORMS WILL BE RETURNED

Property Owner: BRIAN McCAHILL
Address: RD #3 Box 245 E State: DE Zip: 19945
City: FRANKFORD Telephone Number: 302 732 8770
Application Preparer/WC: MARK J MILLS
Lic. #: 830 Date of Application: 3/25/99
Estimated Construction Date: 4/1/99

Purpose: Test or Permanent

- Use: Domestic
 Industrial
 Public
 Miscellaneous Public
 Temporary For Well Construction
 Other (Specify):
- Irrigation
 Agricultural
 Heat Pump Recharge
 Closed Loop Heat Pump
 Heat Pump Supply

Is this a replacement well? NO YES reason: NEED MORE WATER
Is public water available? NO YES (Specify):
On public sewage: YES OR Septic system permit #: NO SEPTIC

PROPOSED WELL CONSTRUCTION

Approximate total depth:	Inner Casing	Outer Casing
100'		
Casing top (above grade): 18"		
Casing bottom (below grade): 90'		
Casing diameter: 4"		
Casing material: PVC		

Tentative screen setting: 90' (top) To: 100'
Tentative screen length: 10' Material: 4" PVC .010
Type of Grout: BEN From: 80 (top) To: 100
Gravel pack: NO YES From: 80 To: 100
Desired capacity: 30 (GPM) Est. Max. Daily Use: 2000 (GPD)

Will the operation of this well by itself or in combination with any other wells owned or operated by the permittee withdraw greater than 50,000 gallons in any 24 hr. period? NO YES

I HEREBY AFFIRM THE INFORMATION I HAVE SUBMITTED IS ACCURATE AND CORRECT

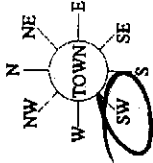
Signature: Brian J. McCahill Date: 3/25/99
Application Preparer Water Well Contractor
Signature - Property Owner: Brian J. McCahill Date: 3/25/99

Please release the contractor's copy of the permit and the well tag to the water well contractor.
 YES NO

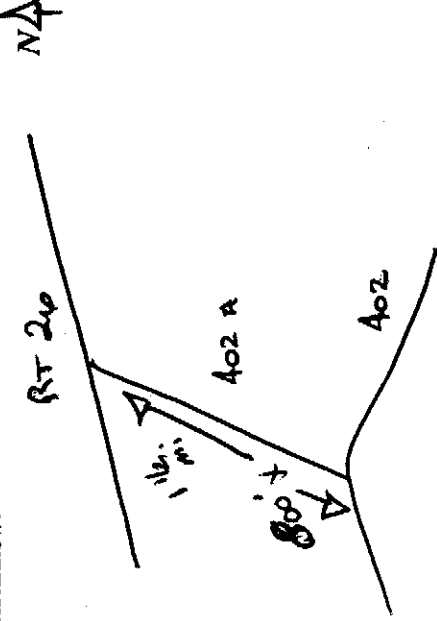
LOCATION MAP - ROAD MAP

County: New Castle Kent Sussex
Subdivision: _____
Lot no: _____
Tax Map#: 2-53-15-52.3
Name of nearest town: DAGSBORO
Distance to nearest town: 2 mi

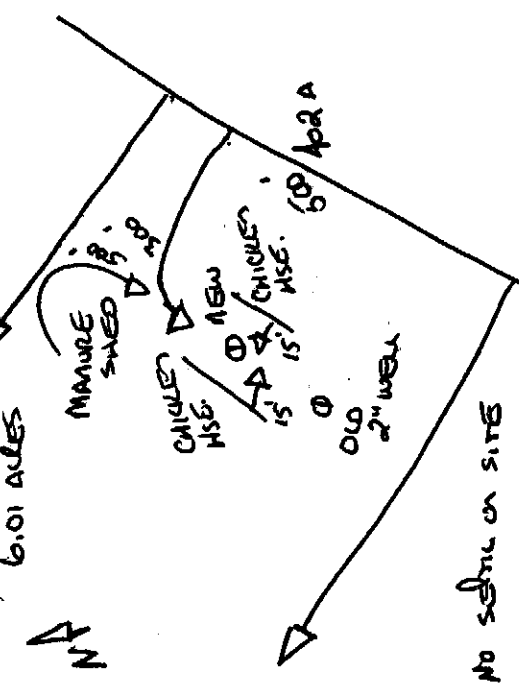
DIRECTION OF WELL FROM TOWN (CIRCLE DIRECTION)



Draw a sketch below showing location of well in relation to at least two county or state roads, give distance from well site to nearest road junction and show a NORTH ARROW.



Site Plan - Include lot size and dimensions, distances from well to house, property lines, nearest road, and all nearby septic systems (include suitable plot plan if available).



FOR OFFICIAL USE ONLY - DO NOT WRITE BELOW THIS LINE

Received: Noble Modified Grid: 164-064 DRBC: YES NO X-Coord: 210763.32
Amount: 308 Drainage Basin: 308 Formation: _____ Y-Coord: 57577.20
Date: _____ Quad: Millsboro Aquifer: _____ DOT #: NO

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P.O. BOX 1401, 89 KINGS HIGHWAY
DOVER, DELAWARE 19903
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STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES
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WELL COMPLETION REPORT MUST BE
RETURNED WITHIN 30 DAYS OF
CONSTRUCTION.

WELL COMPLETION REPORT

PAGE OF PAGES

PLEASE PRINT OR TYPE - ILLEGIBLE OR INCOMPLETE FORMS WILL BE RETURNED

PERMIT NO. 164523 LOCAL ID
TAX MAP # 2-33-15-52.3
PROPERTY OWNER BEIAN McCAHILL
WELL CONTRACTOR MAEK J MILLS
LIC# 830 CONSTRUCTION DATE 4-26-99

WELL CONSTRUCTION METHOD
 AUGERED
 DRIVEN
 MUD ROTARY
 OTHER
 BORED
 JETTED
 REVERSE
 CABLE TOOL
 AIR ROTARY
 WASHED
(Specify)
TOTAL DEPTH OF EXCAVATION: 100

CASING INSTALLATION
INNER CASING(S)

CASING TOP 24" OUTER CASING
CASING BOTTOM 90'
CASING DIAMETER 4"
CASING MATERIAL PVC

SCREEN INSTALLATION
INNER CASING(S)

SCREEN TOP 90
SCREEN BOTTOM 100
SCREEN DIAMETER 4"
SCREEN MATERIAL PVC

GRAVEL PACK FROM 80 TO 100 FEET
GROUT TYPE: CEMENT (c) BENTONITE CLAY (b)
OTHER (o)
FROM 80 (ft.) TO 70 FROM (ft.) TO FEET
NON-GROUT BACKFILL OF WELL ANNULUS
TYPE FROM TO
STATIC WATER LEVEL OF (DATE) 4-26
10 FT. (Below, Above) GROUND SURFACE
PUMPING WATER LEVEL OF (DATE) 15
AFTER 1 HOURS AT 40 GPM.
WAS A GEOPHYSICAL LOG TAKEN? YES NO

TYPE OF PERMANENT PUMP INSTALLED:
PUMP MANUFACTURE SPP RITE
RATED CAPACITY (GPM) 30
PUMP INTAKE SETTING 3 FT. BELOW GRADE
THE LOCATION AND CONSTRUCTION OF THIS WELL IS IN COMPLIANCE WITH ALL PERMIT CONDITIONS AND WITH ALL APPLICABLE WELL CONSTRUCTION REGULATIONS.

NOTE: Completed formation log must be attached. Copy of approved well application showing final location of well must be attached.
COMMENTS: WELL FOR CATTLE HORSE

I HEREBY AFFIRM THE INFORMATION IS ACCURATE AND CORRECT.
Signature of Well Owner in Charge [Signature]
License# 830 Date 4-26-99
RECEIVED
DEPT OF NATURAL RESOURCES
WATER SUPPLY

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FORMATION LOG

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PERMIT#	164323	LOCAL ID#	
PROPERTY OWNER	BRYAN McCHALL		
WELL CONTRACTOR	MARK WALLS	LIC#	830
DESCRIPTION			
	TOP OF STRATA	BOTTOM OF STRATA	
SOIL	0	3	
GRAY SAND MGS	3	50	
GRAY CLAY	50	58	
GRAY SILT	58	70	
GRAY SAND MGS TO COARSE	70	100	
OTHER COMMENTS:			
RECEIVED			
DEC 28 1999			
WATER SUPPLY			
I HEREBY AFFIRM THE INFORMATION I HAVE SUBMITTED IS ACCURATE AND CORRECT			
Signature of Well Driller In Charge		License#	830
		Date	4-26-99